Final

Site Investigation Report
Former Printing Plant, Building 3183, Parcel 162(7)

Fort McClellan
Calhoun County, Alabama

Prepared for:

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Task Order CK05
Contract No. DACA21-96-D-0018
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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 Printing Plant, Building 3183, Parcel 162(7) at Fort McClellan, Calhoun County, Alabama. The SI was conducted to determine whether chemical constituents are present at the Former Printing Plant, Building 3183, Parcel 162(7) and, if present, whether the concentrations would present an unacceptable risk to human health or the environment. The SI at the Former Printing Plant, Building 3183, Parcel 162(7) consisted of the sampling and analyses of four surface soil samples, four subsurface soil samples, and three groundwater samples. In addition, three groundwater monitoring wells were installed in the residuum groundwater zone to facilitate groundwater sample collection and to provide site-specific geological and hydrogeological characterization information.

Chemical analyses of samples collected at the Former Printing Plant, Building 3183, Parcel 162(7) indicate that metals, volatile organic compounds, and semivolatile organic compounds (SVOC) were detected in the environmental media sampled. To evaluate whether detected constituents pose an unacceptable risk to human health or the environment, analytical results were compared to site-specific screening levels (SSSL), ecological screening values and background screening values for Fort McClellan.

The potential impact to human receptors is expected to be minimal. With the exception of iron in subsurface soils, 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. The SVOC carbazole was detected in one groundwater sample at a concentration slightly exceeding the residential human health SSSL. Given the extremely limited impacted area, carbazole is not expected to pose an unacceptable risk to human health.

Several metals were detected in surface soils at concentrations exceeding ESVs and background concentrations. In addition, the concentrations of two volatile organic compounds and six SVOCs exceeded ecological screening values. However, the potential impact to ecological receptors is expected to be minimal based on the existing viable habitat. The site is a well-developed area and is projected for continued industrial/business use. Consequently, viable ecological habitat is not expected to increase.

Based on the results of the SI, past operations at the Former Printing Plant, Building 3183, Parcel 162(7) do not appear to have adversely impacted the environment. The metals and organic compounds detected in site media do not pose an unacceptable risk to human health or the environment in either the industrial/business or residential land-use scenario. Therefore, IT Corporation recommends “No Further Action” and unrestricted reuse with regard to hazardous, toxic, and radioactive waste at the Former Printing Plant, Building 3183, Parcel 162(7).

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 with IT Corporation (IT) to perform the site investigation (SI) at the Former Printing Plant, Building 3183, Parcel 162(7) under Prime Contract Number DACA21-96-D-0018, Task Order CK05.

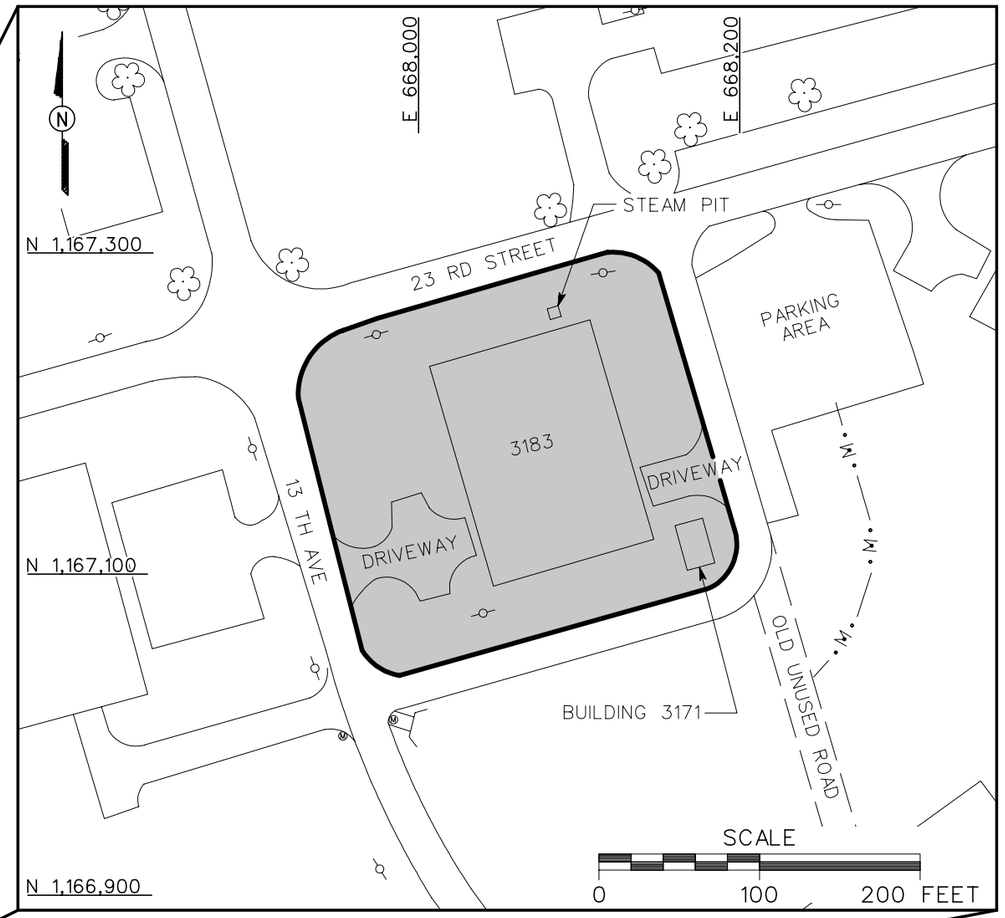
This SI report presents specific information and results compiled from the SI, including field sampling and analysis and monitoring well installation activities conducted at the Former Printing Plant, Building 3183, Parcel 162(7).

1.1 Project Description

The Former Printing Plant, Building 3183, Parcel 162(7) was identified as an area to be investigated prior to property transfer. The Former Printing Plant, Building 3183, Parcel 162(7) 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 December 1998 (IT, 1998a). The SFSP and SSHP provide technical guidance for sample collection and analysis at the Former Printing Plant, Building 3183, Parcel 162(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 fieldwork to collect four surface soil samples, four subsurface soil samples, and three groundwater samples. Data from the field investigation were used to determine whether potential site-specific chemicals are present at the Former Printing Plant, Building 3183, Parcel 162(7).



LEGEND

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

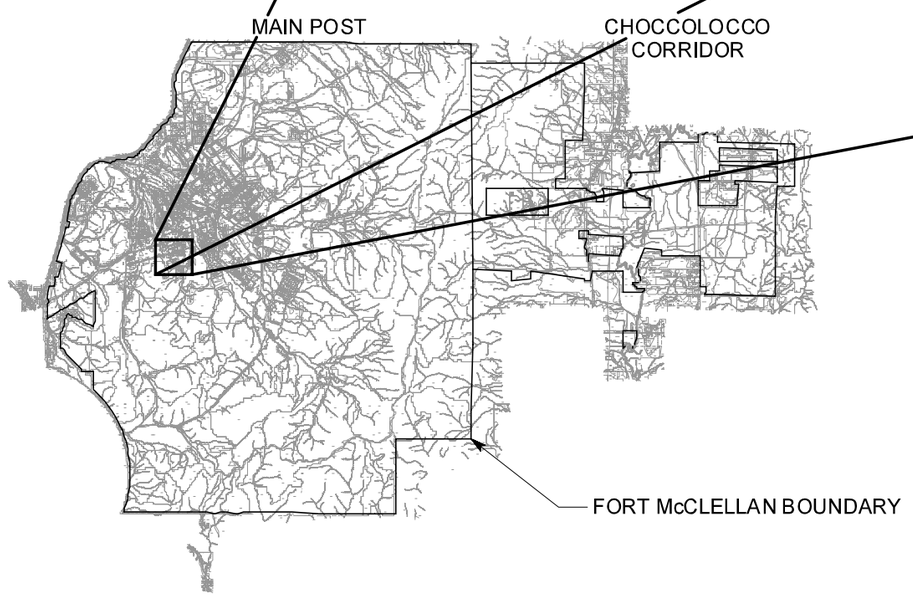


FIGURE 1-1
SITE LOCATION MAP
FORMER PRINTING PLANT
BUILDING 3183
PARCEL 162(7)

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

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1.2 Purpose and Objectives

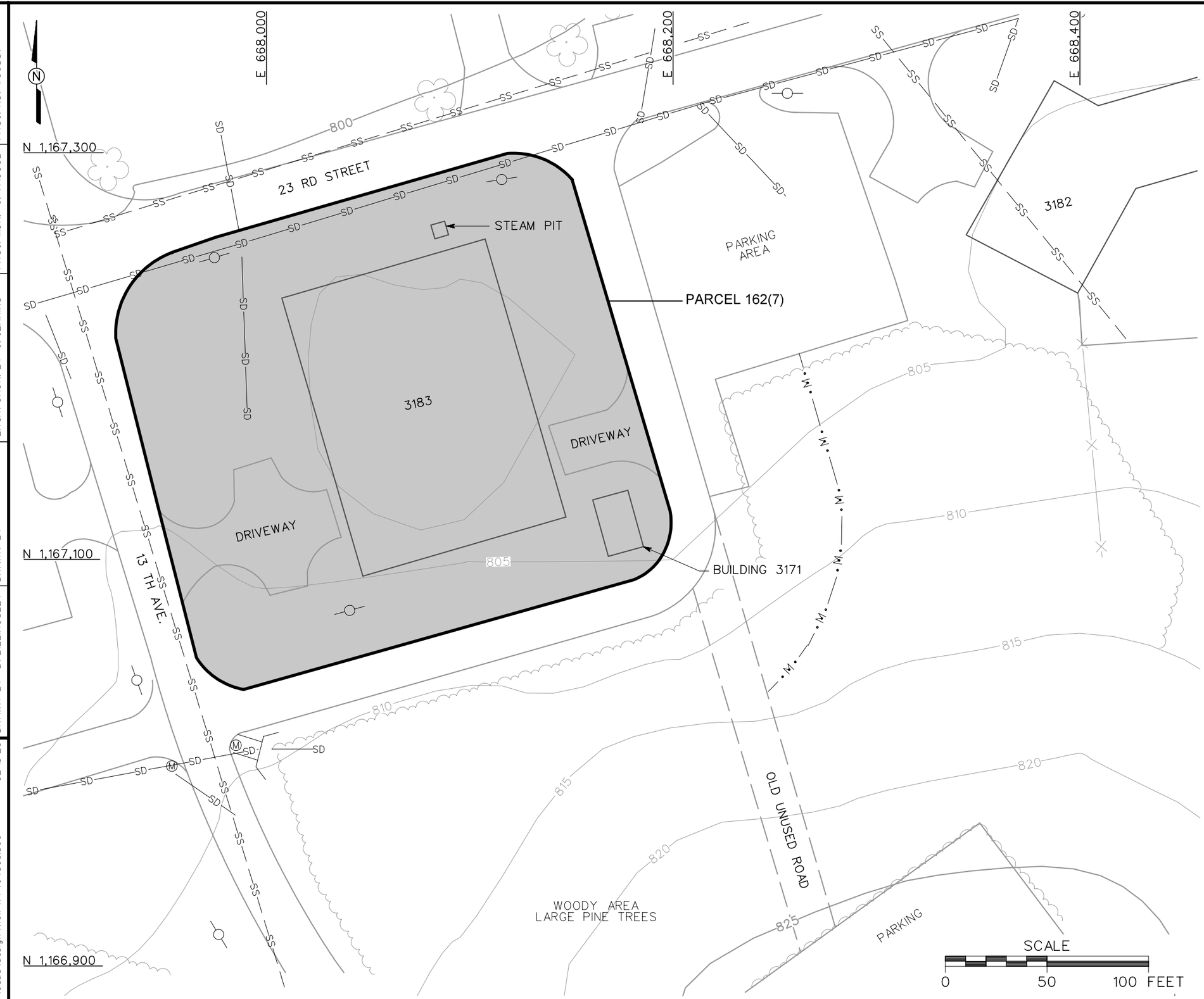
The SI program was designed to collect data from site media and provide a level of defensible data and information in sufficient detail to determine whether chemical constituents are present at the Former Printing Plant, Building 3183, Parcel 162(7) at concentrations that would present an unacceptable risk to human health or the environment. The conclusions of the SI in Section 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, ESVs, and polynuclear aromatic hydrocarbon (PAH) background screening values are presented in the *Final Human Health and Ecological Screening Values and PAH Background Summary Report* (IT, 2000b). The PAH background screening values were developed by IT at the direction of the BRAC Cleanup Team (BCT) to address the occurrence of PAH compounds in surface soils as a result of anthropogenic activities at FTMC. 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 BCT will decide to propose "No Further Action" at the site or to conduct additional work at the site.

1.3 Site Description and History

The Former Printing Plant, Building 3183 is located in the east-central part of the Main Post (Figure 1-1). The study area in and around Building 3183 covers approximately 1 acre and is well developed and occupied. A small concrete block storage building (Building 3171) is located within this parcel as shown on Figure 1-1. The U.S. Army Military Police School (USAMPS) Museum (Building 3182), a General Purpose Storage Installation (Building 3170), and a Battalion Headquarters (Building 3160) are located to the east, west, and northwest of Building 3183. These buildings are not listed in the Community Environmental Response Facilitation Act (CERFA) parcel list as needing investigation. Buildings 3192, 3182, 3181, and 3180 are all to the east and northeast of Building 3183.

In the area near the Former Printing Plant, the Old Toxic Training Area, Parcel 188(7) has been identified for further investigation. Parcel 188(7) is an area of approximately 1 acre where chemical warfare material (CWM) detection and decontamination training may have been



LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOURS (CONTOUR INTERVAL - 5 FOOT)
- TREES / TREELINE
- PARCEL BOUNDARY
- MANHOLE
- UNDERGROUND CULVERT WITH HEADWALL
- MANMADE SURFACE DRAINAGE FEATURE
- UTILITY POLE
- SANITARY SEWER LINE
- STORM DRAINAGE LINE

FIGURE 1-2
SITE MAP
FORMER PRINTING PLANT
BUILDING 3183
PARCEL 162(7)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
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CALHOUN COUNTY, ALABAMA
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performed during the late 1950s and early 1960s. This parcel lies to the south and east of Parcel 162(7) across an unnamed paved road. Parcel 188(7) is one parcel that has been combined with a number of other possible CWM sites on the Main Post that have had a SI and are now scheduled for a remedial investigation (IT, 2000c).

In addition to Parcel 188(7), other environmental work has been collected near the Former Printing Plant. According to the EBS, Building 3182 was a radiological training building that housed the Calibration Laboratory W operation from the late 1950s or early 1960s to 1973 (ESE, 1998). In 1973, the U.S. Army Environmental Hygiene Agency (USAEHA) conducted a survey that indicated fixed radiological contamination was present in the building. Building remediation involving floor tile removal was conducted in 1973, confirmatory samples were collected, and the building was given clearance for unrestricted use. The building was most recently used to house the USAMPA museum, offices, and classrooms. Since the EBS, Building 3182 was resurveyed in November 1999 by Allied Technology Group (2000).

Building 3183, which was built in 1955, was the location of a printing plant at FTMC until summer 1999, and has only been used for printing operations. Prior to 1994, the printing operation used and stored solvents, petroleum hydrocarbons, and inks. These potential substances include perchloroethylene, petroleum naphtha, and potassium ferrocyanide (ESE, 1998). These solvents were stored in 55-gallon drums in a chemical storage area that is bermed with concrete. In 1994, the printing process changed to a less hazardous dry process. Printing wastes from the old process were stored in this building until 1995. It is believed that all wastes have been disposed (ESE, 1998). A floor drain is not present in the chemical storage area and the concrete berm is approximately 6 inches high at the doorstep (ESE, 1998). This area was most recently used to store containers of waste oil. During the June 1998 IT site visit, a steam pit was observed on the north side of the building (Figure 1-2). The steam pit appears to be part of the building heating system and not related to the former printing operations.

Surface drainage features in the vicinity of the site drain towards the north to Remount Creek. South Branch Cane Creek is situated 900 feet east-southeast of the site. An aqueduct traverses the Main Post from southwest to northeast and is 800 feet north-northwest of Building 3183 at its closest point. Shallow groundwater at the site is probably controlled by surface drainage and/or topography and likely flows north or northeast. Site elevation ranges from 795 to 805 feet above sea level as established by the National Geodetic Vertical Datum. Figure 1-2 is a site map showing topographic features and site boundaries.

The soil type at the Printing Plant, Building 3183, is the Anniston and Allen gravelly loam, which is a friable, deep, strongly acid, well-drained soil that has developed in old local alluvium. This soil is formed either by erosional forces, surface runoff, or natural, reworking processes. The surface horizon is usually a very dark brown loam or dark grayish-brown sandy loam, while the subsoil is a dark red sandy clay loam. Sandstone and quartzite gravel and cobbles, as much as 8 inches in diameter, are on the surface and throughout the soil. Although erosion is a problem, this soil type can be productive in areas with little or no slope (U.S. Department of Agriculture, 1961).

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 on 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 migration of hazardous substances has occurred, but at concentrations that do not require a removal or remedial response

4. Areas of release, disposal, and/or migration of hazardous substances has occurred, and all removal or remedial actions to protect human health and the environment had 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 CERFA (CERFA-Public Law 102-426) protocols and DOD policy regarding contamination assessment. Record searches and reviews were performed on all reasonably available documents from FTMC, 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

Printing Plant, Building 3183, Parcel 162(7) was identified as a Category 7 CERFA parcel: areas that are not evaluated or require further evaluation. Previous environmental studies have not been conducted at this site.

3.0 Current Site Investigation Activities

This chapter summarizes SI activities conducted by IT at the Former Printing Plant, Building 3183, Parcel 162(7), including environmental sampling and analysis and groundwater monitoring well installation activities.

3.1 Environmental Sampling

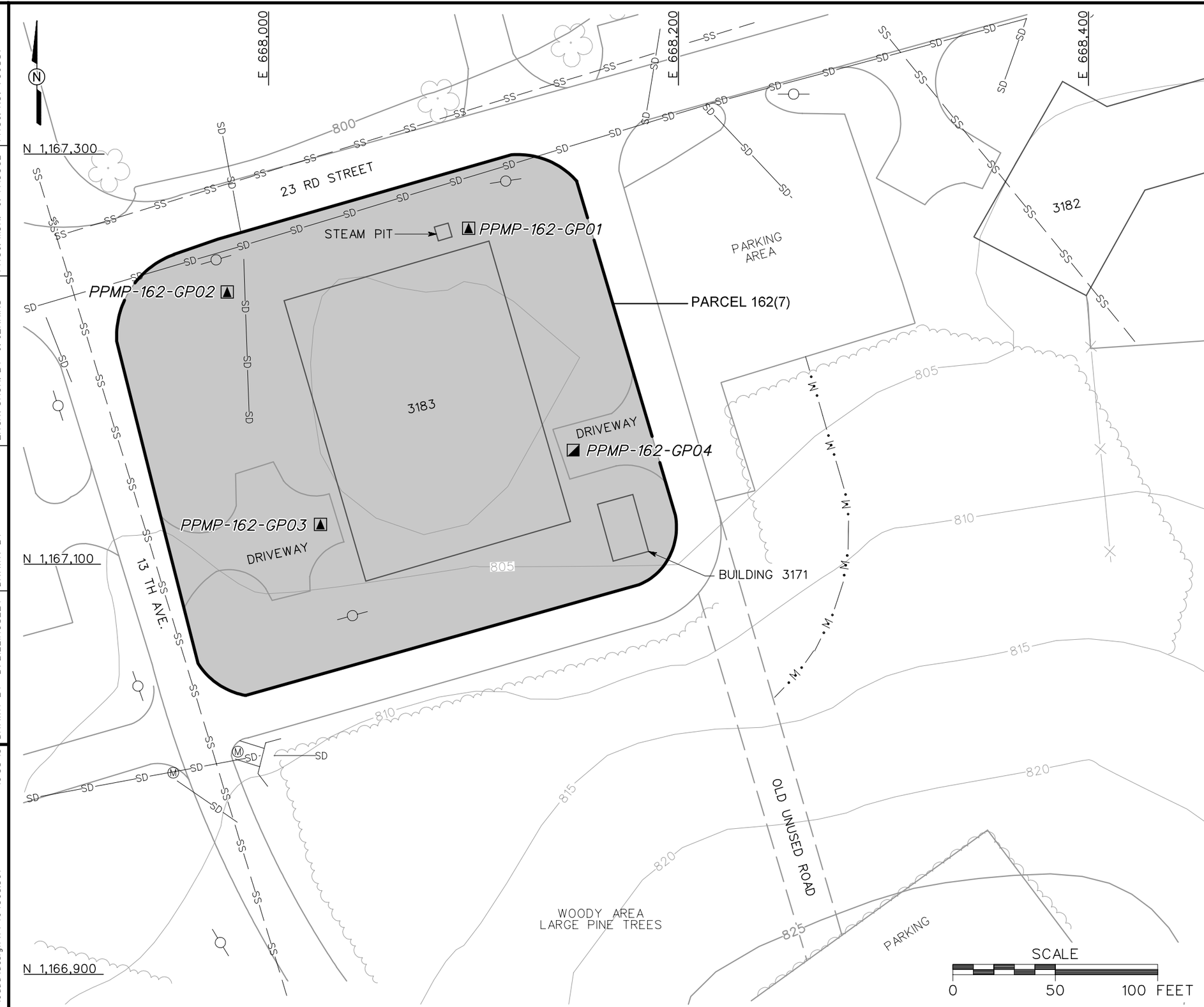
The environmental sampling performed during the SI at the Former Printing Plant, Building 3183, Parcel 162(7) included the collection of surface soil samples, subsurface soil samples, and groundwater samples for chemical analysis. The sample locations were determined by observing site physical characteristics noted during a site walk over and by reviewing historical documents pertaining to activities conducted at the site. The sample locations, media, and rationale are summarized in Table 3-1. Samples were submitted for laboratory analyses of 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 Printing Plant, Building 3183, Parcel 162(7), as shown on Figure 3-1. Surface soil sampling locations and rationale are presented in Table 3-1. Surface soil sample designations and quality assurance/quality control (QA/QC) samples are listed in Table 3-2. Surface 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 and overhead utilities.

Sample Collection. Surface soil samples were collected from the upper 1 foot of soil 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. At sample locations PPMP-162-GP03 and PPMP-162-GP04, a small section of pavement and subpavement were cut and removed before the samples were collected. The soil was 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.

3.1.2 Subsurface Soil Sampling



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- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
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- MANHOLE
- UNDERGROUND CULVERT WITH HEADWALL
- MANMADE SURFACE DRAINAGE FEATURE
- UTILITY POLE
- SANITARY SEWER LINE
- STORM DRAINAGE LINE
- SURFACE AND SUBSURFACE SOIL SAMPLE LOCATION
- GROUNDWATER, SURFACE AND SUBSURFACE SOIL SAMPLE LOCATION

FIGURE 3-1
SAMPLE LOCATION MAP
FORMER PRINTING PLANT
BUILDING 3183
PARCEL 162(7)

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Table 3-1

Sampling Locations and Rationale
Printing Plant, Building 3183, Parcel 162(7)
Fort McClellan, Calhoun County, Alabama

Sample Designation	Sample Media	Sample Location Rationale
PPMP-162-GP01	Surface Soil Subsurface Soil Groundwater	Direct-push samples were collected at the northeast corner of the study parcel. Due to the proximity of underground utilities and the underground steam pit tank, this sampling location represents a potential location for contaminant infiltration to the subsoil or groundwater.
PPMP-162-GP02	Surface Soil Subsurface Soil Groundwater	Direct-push samples were collected at the northwest corner of the study parcel. This sampling location represents a likely point for the collection and infiltration of runoff at the site due to the proximity of sewer lines and underground utilities.
PPMP-162-GP03	Surface Soil Subsurface Soil Groundwater	Direct-push samples were collected at the southwest corner of the study parcel, near the west loading dock. This sampling location represents a likely point for the collection and infiltration of contaminants at the site.
PPMP-162-GP04	Surface Soil Subsurface Soil	Direct-push samples were collected at the southeast corner of the study parcel, near the east loading dock. This sampling location represents a likely point for the collection and infiltration of contaminants at the site.

Table 3-2

Surface Soil and Subsurface Soil Sample Designations and QA/QC Samples
Printing Plant, Building 3183, Parcel 162(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	
PPMP-162-GP01	PPMP-162-GP01-SS-KG0001-REG	0-1			PPMP-162-GP01-SS-KG0001-MS	TCL VOCs, TCL SVOCs,
	PPMP-162-GP01-DS-KG0002-REG	9-12			PPMP-162-GP01-SS-KG0001-MSD	TAL Metals, Cyanide
PPMP-162-GP02	PPMP-162-GP02-SS-KG0003-REG	0-1				TCL VOCs, TCL SVOCs,
	PPMP-162-GP02-DS-KG0004-REG	9-12				TAL Metals, Cyanide
PPMP-162-GP03	PPMP-162-GP03-SS-KG0005-REG	0-1				TCL VOCs, TCL SVOCs,
	PPMP-162-GP03-DS-KG0006-REG	6-9				TAL Metals, Cyanide
PPMP-162-GP04	PPMP-162-GP04-SS-KG0007-REG	0-1	PPMP-162-GP04-SS-KG0008-FD	PPMP-162-GP04-SS-KG0009-FS		TCL VOCs, TCL SVOCs,
	PPMP-162-GP04-DS-KG0010-REG	9-12				TAL Metals, Cyanide

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.
REG - Field sample.
SVOC - Semivolatile organic compound.
TAL - Target analyte list.
TCL - Target compound list.
VOC - Volatile organic compound.

Subsurface soil samples were collected from four soil borings at the Former Printing Plant, Building 3183, Parcel 162(7) as shown on Figure 3-1. Subsurface sampling locations and rationale are presented in Table 3-1. Subsurface soil sample designations, depths, and QA/QC 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 a depth greater than 1 foot below 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). Sample collection logs are included in Appendix A. The samples were analyzed for the parameters listed in Table 3-2 using methods outlined in Section 3.3.

Subsurface soil samples were collected continuously to 12 feet bgs or until direct-push sampler refusal was encountered. 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 showing 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 groundwater 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 at each borehole constructed a detailed lithological log. 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).

3.1.3 Well Installation

Three temporary wells were installed in the residuum groundwater zone at the Former Printing Plant, Building 3183, Parcel 162(7) to collect groundwater samples for laboratory analyses. The well/groundwater sample locations are shown on Figure 3-1. Table 3-3 summarizes construction details of the temporary wells installed at the Former Printing Plant, Building 3183, Parcel 162(7). The temporary well construction logs are included in Appendix B.

Table 3-3

Temporary Well Construction Summary
Printing Plant, Building 3183, Parcel 162(7)
Fort McClellan, Calhoun County, Alabama

Temporary Well	Northing	Easting	Ground Elevation (ft msl)	TOC Elevation (ft msl)	Well Depth (ft bgs)	Screen Length (ft)	Screen Interval (ft bgs)	Well Material
PPMP-162-GP01	1167263.09	668098.45	806.36	806.99	14.00	10	3.75 - 13.75	2" ID Sch. 40 PVC
PPMP-162-GP02	1167231.97	667980.68	804.27	806.44	14.15	10	3.75 - 13.75	2" ID Sch. 40 PVC
PPMP-162-GP03	1167118.66	668026.14	804.42	804.21	15.50	10	5.25 - 15.25	2" ID Sch. 40 PVC

All temporary wells installed with an auger drill rig using 4.25-inch inside diameter hollow-stem auger.
Horizontal coordinates 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).
2" ID Sch. 40 PVC - 2-inch inside diameter, Schedule 40, polyvinyl chloride.
bgs - Below ground surface.
ft - Feet.
msl - Mean sea level.
TOC - Top of casing.

IT contracted Miller Drilling, Inc., to install the temporary wells with a hollow-stem auger rig in January 1999 at the well/groundwater sample locations shown on Figure 3-1. The wells were installed following procedures outlined in Section 4.7 and Appendix C of the SAP (IT, 2000a). The boreholes at these locations were advanced with a 4.25-inch inside diameter (ID) hollow-stem auger from ground surface to the first water-bearing zone in residuum at the well location. The borehole was augered to the depth of direct-push sampler refusal and samples were collected at the depth of direct-push refusal to the bottom of the borehole. A 2-foot long, 2-inch ID carbon steel split spoon sampler was driven at 5-foot intervals to collect residuum for observing and describing lithology. Where spoon refusal was encountered, the auger was advanced until the first water-bearing zone was encountered. The on-site geologist logging the auger boreholes at the Former Printing Plant, Building 3183, Parcel 162(7) continued the detailed lithological log for each borehole from the depth of split-spoon refusal to the bottom of the auger borehole by logging the auger drill cuttings. The drill cuttings were logged to determine lithologic changes and the approximate depth of groundwater encountered during drilling. This information was used to determine the optimal placement of the monitoring well screen interval and to provide site-specific geologic and hydrogeologic information. The lithological log for each borehole is included in Appendix B.

Upon reaching the target depth, a 10-foot length of 2-inch ID, 0.010-inch factory slotted, Schedule 40 polyvinyl chloride (PVC) screen with a 3-inch PVC end cap was placed through the auger to the bottom of the borehole. The screen and end cap were attached to 2-inch ID, flush-threaded Schedule 40 PVC riser. A number 1 filter sand (environmentally safe, clean fine sand, sieve size 20 to 40) was tremied around the well screen to approximately 2 feet above the top of the well screen as the augers were removed. The wells were surged approximately 10 minutes using a solid PVC surge block, or until no more settling of the filter sand occurred inside the borehole. A bentonite seal, consisting of approximately 2 feet of bentonite chips, was placed immediately on top of the filter sand and hydrated with potable water. A locking well cap was placed on the PVC well casing. The temporary well surface completion included attaching plastic sheeting around the PVC riser using duct tape. Additionally, sand bags were used to secure the sheeting to the ground surface around the temporary well.

The 2-inch diameter temporary wells that were installed using hollow-stem augers were developed by surging and pumping with a submersible pump in accordance with methodology outlined in Section 4.8 and Appendix C of the SAP (IT, 2000a). The submersible pump being used for well development is moved in an up and down fashion to encourage any residual well installation materials to enter the well. These materials are then pumped out of the well in order to re-establish the natural hydraulic flow conditions. Development was performed until the

water turbidity was equal to or less than 20 nephelometric turbidity units or for a maximum of 4 hours. The well development logs are included in Appendix C.

3.1.4 Water Level Measurements

The depth to groundwater was measured in the temporary wells installed at the Former Printing Plant, Building 3183, Parcel 162(7) on March 14, 2000 following procedures outlined in Section 4.18 of the SAP (IT, 2000a). Near Parcel 162(7), water levels in the wells at the Former Motor Pool Area 3100, Parcel 146(7) were also measured on March 14, 2000. Depth to groundwater was measured with an electronic water level meter. The meter probe and cable were cleaned between use at each well following decontamination methodology presented in Section 4.10 of the SAP (IT, 2000a). Measurements were referenced to the top of the PVC casing. A summary of groundwater level measurements from both parcels is presented in Table 3-4.

3.1.5 Groundwater Sampling

Groundwater was sampled from the three temporary wells installed at the Former Printing Plant, Building 3183, Parcel 162(7). The well/groundwater sampling locations are shown on Figure 3-1. The groundwater sampling locations and rationale are listed in Table 3-1. The groundwater sample designations and QA/QC samples are listed in Table 3-5.

Sample Collection. Groundwater sampling was performed at the temporary well locations following procedures outlined in Section 4.9.1.4 of the SAP (IT, 2000a). Groundwater was sampled after purging a minimum three well volumes and field parameters including temperature, pH, specific conductivity, oxidation-reduction potential, and turbidity stabilized. Purging and sampling were performed with a submersible pump equipped with Teflon™ tubing. Field parameters were measured using a calibrated water quality meter. Field parameter readings are summarized in Table 3-6. Sample collection logs are included in Appendix A. The samples were analyzed for the parameters listed in Table 3-5 using methods outlined in Section 3.3.

As shown on Table 3-5, location PPMP-162-GP02 was not sampled for semivolatile organic compounds (SVOC) or cyanide analysis as planned because of poor recharge encountered during purging and sampling of the well. Well GP02 was purged dry during sampling. After repeated attempts to collect adequate sample volume, aliquots were collected for VOC and metals analysis only.

Table 3-4

Groundwater Elevations
Printing Plant, Building 3183, Parcel 162(7)
Fort McClellan, Calhoun County, Alabama

Well Location	Date	Depth to Water (ft BTOC)	Top of Casing Elevation (ft msl)	Ground Elevation (ft msl)	Groundwater Elevation (ft msl)
PPMP-162-GP01	14-Mar-00	6.84	806.99	806.36	800.15
PPMP-162-GP02	14-Mar-00	9.39	806.44	804.27	797.05
PPMP-162-GP03	14-Mar-00	4.59	804.21	804.42	799.62
FTA-146-GP02	14-Mar-00	16.33	823.57	822.73	807.24
FTA-146-GP05	14-Mar-00	16.00	822.16	820.95	806.16
FTA-146-GP06	14-Mar-00	14.75	819.91	820.18	805.16
FTA-146-GP07	14-Mar-00	17.71	823.74	821.22	806.03
FTA-146-GP08	14-Mar-00	17.32	824.04	823.50	806.72
FTA-146-GP09	14-Mar-00	18.31	824.45	823.35	806.14
FTA-146-GP10	14-Mar-00	17.21	822.87	821.25	805.66

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

BTOC - Below top of casing.
ft - Feet.
msl - Mean sea level.

Table 3-5

Groundwater Sample Designations and QA/QC Samples
Printing Plant, Building 3183, Parcel 162(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Designation	Sample Depth (ft btoc)	QA/QC Samples			Analytical Suite
			Field Duplicates	Field Splits	MS/MSD	
PPMP-162-GP01	PPMP-162-GP01-GW-KG3001-REG	11.63-14.38	PPMP-162-GP01-GW-KG3002-FD	PPMP-162-GP01-GW-KG3003-FS		TCL VOCs, TCL SVOCs, TAL Metals, Cyanide
PPMP-162-GP02	PPMP-162-GP02-GW-KG3004-REG	*				*TCL VOCs, TAL Metals
PPMP-162-GPO3	PPMP-162-GP03-GW-KG3005-REG	7.92-15.04			PPMP-162-GP03-GW-KG3005-MS PPMP-162-GP03-GW-KG3005-MSD	TCL VOCs, TCL SVOCs, TAL Metals, Cyanide

FD - Field duplicate.
FS - Field split.
ft btoc - Feet below top of casing.
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.
* - Limited quantity of groundwater recovered from bottom of well; bottom screen is at a depth of 15.92 ft btoc.

Table 3-6

Groundwater Field Parameters
Printing Plant, Building 3183, Parcel 162(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Date	Media	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Temperature (°C)	Turbidity (NTUs)	pH (SU)
PPMP-162-GP01	3-Feb-99	GW	0.4096	2.82	162	30.99	0.6	6.50
PPMP-162-GP02	29-Jan-99	GW	0.3277	5.44	156	22.63	0	6.62
PPMP-162-GP03	29-Jan-99	GW	0.5225	0.72	42	20.25	25.2	7.33

mS/cm - Millisiemens per centimeter.
mg/L - Milligrams per liter.
mV - Millivolts.
°C - Degrees Celsius.
NTUs - Nephelometric turbidity units.
SU - Standard units.
GW - Groundwater.

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 (IT, 2000a). Horizontal coordinates were referenced to the U.S. State Plane Coordinate System, Alabama East Zone, North American Datum, 1983. Elevations were referenced to the North American Vertical Datum of 1988. Horizontal coordinates and elevations are included in Appendix D.

3.3 Analytical Program

Samples collected during the SI were analyzed for various chemical properties. The specific suite of analyses performed is based on the potential site-specific chemicals historically at the site and EPA, ADEM, FTMC, and USACE requirements. Samples collected from the Former Printing Plant, Building 3183, Parcel 162(7) were analyzed for the following parameters:

- Target Compound List VOCs - Method 5035/8260B
- TCL SVOCs - Method 8270C
- Target Analyte List Metals - Method 6010B/7000
- Cyanide - Method 9010B.

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 data is included in Appendix E. The Data Validation Summary Report is included as Appendix F.

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 (IT, 2000a). Sample documentation and chain-of-custodies were recorded as specified in Section 4.13 of the SAP (IT, 2000a).

Completed analysis request and chain-of-custody records (Appendix A) were secured and included with each shipment of sample coolers to Quanterra Environmental Services 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 Printing Plant, Building 3183, Parcel 162(7) was segregated as follows:

- Drill cuttings
- Purge water from well development and sampling activities, and decontamination fluids
- Personal protective equipment.

Solid IDW was stored inside the fenced area surrounding Buildings 335 and 336 in lined rolloff bins prior to characterization and final disposal. Solid IDW was characterized using toxicity characteristic leaching procedure analyses. Based on the results, drill cuttings and PPE generated during the SI at the Former Printing Plant, Building 3183, Parcel 162(7) were disposed as non-regulated 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 wash rack. 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

3.6.1 Variances

There were not any variances to the SFSP recorded during completion of the SI at the Former Printing Plant, Building 3183, Parcel 162(7).

3.6.2 Nonconformances

There was one nonconformance to the SFSP recorded during completion of the SI at the Former Printing Plant, Building 3183, Parcel 162(7) (Appendix G). Because of limited sample volume at the time of sample collection, the groundwater sample collected from PPMP-162-GP02 was not analyzed for SVOCs and cyanide.

3.7 Data Quality

The field sample results data are presented in tabular form in Appendix E. The field samples were collected, documented, handled, analyzed, and reported in a manner consistent with the SI work plan; the FTMC SAP and installation-wide quality assurance plan; and standard, accepted methods and procedures. Sample collection logs pertaining to the collection of the samples were reviewed and organized for this report and are included in Appendix A. As discussed in Section 3.6, there was one nonconformance identified in the field. However, this nonconformance has not 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 F consists of a data validation summary report that was prepared to discuss the results of the validation. Selected results were rejected or otherwise qualified based on the implementation of accepted data validation procedures and practices during the validation effort. 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 developed by IT. Rejected data (assigned an “R” qualifier) were not used in the comparison to the SSSLs or 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 Printing Plant, Building 3183, Parcel 162(7) provided soil, geological, and groundwater data. These data were used to characterize the geology and hydrogeology of the site.

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 consist 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, 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 based on 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

Soils underlying the Former Printing Plant, Building 3183, Parcel 162(7) are identified as Anniston and Allen gravelly loam, which is a friable, deep, strongly acid, well-drained soil that has developed in old local alluvium (U.S. Department of Agriculture, 1961). This soil is formed either by erosional forces, surface runoff, or naturally reworking processes. The surface horizon is usually a very dark brown loam or dark grayish-brown sandy loam, while the subsoil is a dark red sandy clay loam. Sandstone and quartzite gravel and cobbles, as much as 8 inches in diameter, are on the surface and throughout the soil.

Bedrock beneath the Former Printing Plant, Building 3183, Parcel 162(7), is mapped as the Ordovician/Mississippian Athens Shale, and Floyd Shale, undifferentiated and the Ordovician Little Oak and Newala Limestones. A contact between the shale and limestone units is mapped striking southwest to northeast through the center of the site. These units occur within the eroded “window” in the uppermost structural thrust sheet at FTMC and underlie much of the developed area of the Main Post.

Four borings were installed at the Former Printing Plant, Building 3183, Parcel 162(7) to collect lithogic data and characterize the underlying geology. Total depth of the borings ranged from 12 to 15.5 feet bgs across the site. Based on this information, brownish-red to reddish-brown clay residuum is the primary soil type present from ground surface to 15.5 feet bgs. Underlying the clay, chert was detected in one of the borings at a depth of 15.5 feet bgs. Bedrock was not encountered during drilling activity.

4.2 Site Hydrology

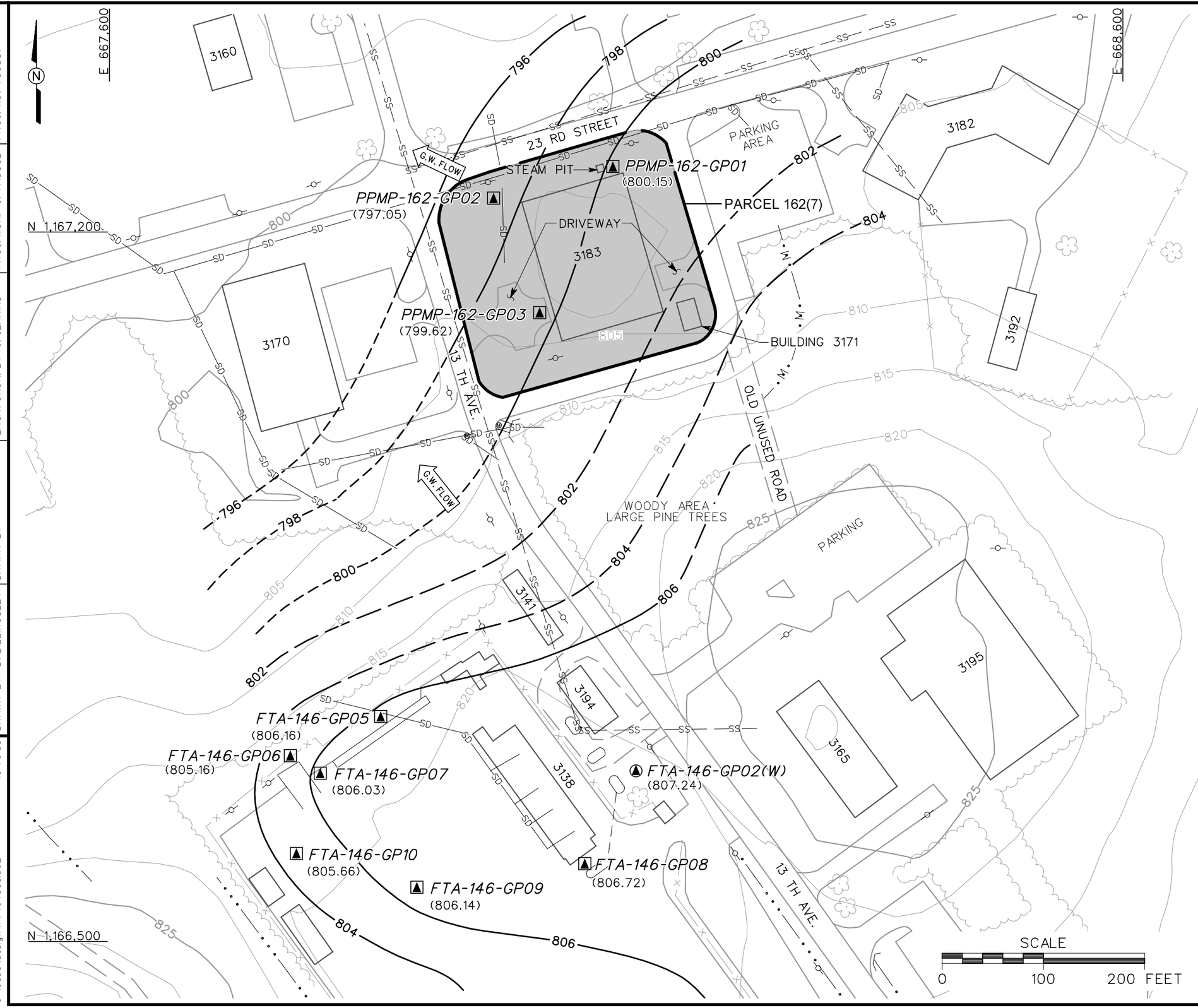
4.2.1 Surface Hydrology

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 Printing Plant, Building 3183, Parcel 162(7) follows the site topography and generally flows to the north-northwest. Storm drainage lines are located on the northern and western sides of the Former Printing Plant, Building 3183.

4.2.2 Hydrogeology

During boring and well installation activities, groundwater was encountered in the clay soils. Static groundwater levels were measured on March 14, 2000 as summarized in Table 3-4. Static groundwater elevations from monitoring wells located at Parcel 146 were used in the construction of the groundwater elevation map for Parcel 162(7) to allow accurate representation of groundwater elevations and flow for Parcel 162(7). Groundwater elevations were calculated by measuring the depth to groundwater relative to the surveyed top-of-casing elevations. A groundwater elevation map constructed from data from March 14, 2000 is shown on Figure 4-1. Based on the March groundwater levels, horizontal groundwater flow is to the northwest, following the general slope of the surface topography, with a gradient of approximately 0.026 feet per foot. Static groundwater levels summarized in Table 3-4 are at shallower depths than depth to water data from the drilling logs (Appendix B). This is indicative of upward vertical hydraulic head.



LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOURS (CONTOUR INTERVAL - 5 FOOT)
- GROUNDWATER ELEVATION CONTOURS (DASHED WHERE INFERRED)
- (800.15) GROUNDWATER ELEVATION (FT MSL)
- G.W. FLOW GROUNDWATER FLOW DIRECTION
- TREES / TREELINE
- PARCEL BOUNDARY
- MANHOLE
- UNDERGROUND CULVERT WITH HEADWALL
- SURFACE DRAINAGE / CREEK
- MANMADE SURFACE DRAINAGE FEATURE
- FENCE
- UTILITY POLE
- SS SANITARY SEWER LINE
- SD STORM DRAINAGE LINE
- GROUNDWATER SAMPLE LOCATION
- GROUNDWATER, SURFACE AND SUBSURFACE SOIL SAMPLE LOCATION

FIGURE 4-1
GROUNDWATER ELEVATION MAP
MARCH 14, 2000
FORMER PRINTING PLANT
BUILDING 3183
PARCEL 162(7)

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

IT CORPORATION
A Member of The IT Group

DWG. NO.: ...\774645es.502	INITIATOR: D. LAMB	DRAFT. CHCK. BY:	STARTING DATE: 05/03/00
PROJ. NO.: 796887	PROJ. MGR.: J. YACOUB	ENGR. CHCK. BY: J. JENKINS	DRAWN BY: D. BILLINGSLEY
DATE LAST REV.:	DRAWN BY:	12/28/00	10:46:35
DBILLING	c:\cadd\design\774645es.502		

5.0 Summary of Analytical Results

The results of the chemical analyses of samples collected at the Former Printing Plant, Building 3183, Parcel 162(7) indicate that metals, VOCs, and SVOCs, have been detected in the various site media. Cyanide was not detected in any of the samples collected. To evaluate whether the detected constituents present an unacceptable risk to human health and the environment, detected constituent concentrations 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 (background concentrations) (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 H. Additionally, SVOC concentrations in surface soils that exceeded the SSSLs and ESVs were compared to PAH background screening values where available. The PAH background screening values were derived from PAH analytical data from 18 parcels that were determined to represent anthropogenic activity at FTMC (IT, 2000b). PAH background screening values were developed for 2 categories of surface soils: beneath asphalt and adjacent to asphalt. The PAH background screening values for soils adjacent to asphalt are the more conservative (i.e., lower) of the PAH background values and are the values used herein for comparison.

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. Because of 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. This evaluation was conducted for naphthalene for which results were reported from both methods.

The following sections and Tables 5-1 through 5-3 summarize the results of the comparison of detected constituents to the SSSLs, ESVs, and background screening values. Complete analytical results are presented in Appendix E.

5.1 Surface Soil Sample Results

Four surface soil samples were collected for chemical analyses at the Former Printing Plant, Building 3183, Parcel 162(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 and ESVs and background concentrations, as presented in Table 5-1.

Metals. Twenty-two metals were detected in surface soil samples collected at the Former Printing Plant, Building 3183, Parcel 162(7).

The concentrations of aluminum (PPMP-162-GP01, PPMP-162-GP02 and PPMP-162-GP03), arsenic (all four locations), chromium (PPMP-162-GP02 and PPMP-162-GP03), iron (all four locations), manganese (PPMP-162-GP02), and thallium (PPMP-162-GP03) exceeded residential human health SSSLs. However, with the exception of arsenic (PPMP-162-GP02 and PPMP162-GP03) and iron (PPMP-162-GP02 and PPMP162-GP03), the concentrations of these metals were within background concentrations. The arsenic and iron concentrations were within the range of background values determined by SAIC (1998).

Aluminum (all four locations), arsenic (all four locations), chromium (all four locations), iron (all four locations), lead (PPMP-162-GP04), manganese (PPMP-171-GP02), nickel (PPMP-162-GP03), selenium (PPMP-162-GP01, PPMP-162-GP02 and PPMP-162-GP03), silver (PPMP-162-GP02 and PPMP-162-GP03), vanadium (all four locations), zinc (PPMP-162-GP02 and PPMP-162-GP03), and mercury (PPMP-162-GP03) exceeded ESVs. Arsenic (PPMP-162-GP02 and PPMP162-GP03), iron (PPMP-162-GP02 and PPMP162-GP03), lead (PPMP-162-GP04), nickel (PPMP-162-GP03), selenium (PPMP-162-GP01, PPMP-162-GP02 and PPMP-162-GP03), silver (PPMP-162-GP02 and PPMP-162-GP03), zinc (PPMP-162-GP02 and PPMP-162-GP03), and mercury (PPMP-162-GP03) concentrations also exceeded the background

Table 5-1

Surface Soil Analytical Results
Printing Plant, Building 3183, Parcel 162(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-162					PPMP-162					PPMP-162					PPMP-162				
				Sample Location	PPMP-162-GP01					PPMP-162-GP02					PPMP-162-GP03					PPMP-162-GP04				
				Sample Number	KG0001					KG0003					KG0005					KG0007				
				Sample Date	14-Jan-99					14-Jan-99					14-Jan-99					18-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1					0- 1					0- 1				
Parameter	Units	BKG[a]	SSSL[b]	ESV[c]	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	1.01E+04			YES	YES	1.36E+04			YES	YES	1.40E+04			YES	YES	3.96E+03				YES
Arsenic	mg/kg	1.37E+01	4.26E-01	1.00E+01	1.03E+01			YES	YES	2.65E+01		YES	YES	YES	1.70E+01		YES	YES	YES	2.00E+00			YES	
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	5.07E+01					4.19E+01					3.99E+01					1.90E+01	J			
Beryllium	mg/kg	8.00E-01	9.60E+00	1.10E+00	8.00E-01		YES			7.00E-01					1.10E+00		YES		YES	1.40E-01	B			
Cadmium	mg/kg	2.90E-01	6.25E+00	1.60E+00	ND					ND					4.00E-01	J	YES			ND				
Calcium	mg/kg	1.72E+03	NA	NA	2.70E+03		YES			1.46E+03					4.12E+03		YES			9.08E+03		YES		
Chromium	mg/kg	3.70E+01	2.32E+01	4.00E-01	1.92E+01	J			YES	3.00E+01	J		YES	YES	3.29E+01	J		YES	YES	1.89E+01				YES
Cobalt	mg/kg	1.52E+01	4.68E+02	2.00E+01	ND					ND					6.30E+00	J				3.60E+00	J			
Copper	mg/kg	1.27E+01	3.13E+02	4.00E+01	2.24E+01		YES			2.30E+01		YES			3.28E+01		YES			6.30E+00				
Iron	mg/kg	3.42E+04	2.34E+03	2.00E+02	2.93E+04			YES	YES	4.99E+04		YES	YES	YES	3.70E+04		YES	YES	YES	7.22E+03			YES	YES
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	1.90E+01					2.63E+01					2.46E+01					1.08E+02	J	YES		YES
Magnesium	mg/kg	1.03E+03	NA	4.40E+05	9.85E+02					8.55E+02					2.36E+03		YES			3.36E+03		YES		
Manganese	mg/kg	1.58E+03	3.63E+02	1.00E+02	1.72E+02	J			YES	5.60E+02	J		YES	YES	1.60E+02	J			YES	6.01E+01				
Mercury	mg/kg	8.00E-02	2.33E+00	1.00E-01	8.20E-02		YES			8.10E-02		YES			2.70E-01		YES		YES	5.40E-02				
Nickel	mg/kg	1.03E+01	1.54E+02	3.00E+01	1.32E+01		YES			1.47E+01		YES			3.99E+01	J	YES		YES	6.30E+00	J			
Potassium	mg/kg	8.00E+02	NA	NA	4.22E+02	J				4.88E+02	J				6.69E+02					2.15E+02	J			
Selenium	mg/kg	4.80E-01	3.91E+01	8.10E-01	1.30E+00		YES		YES	2.80E+00		YES		YES	1.20E+00		YES		YES	ND				
Silver	mg/kg	3.60E-01	3.91E+01	2.00E+00	1.60E+00		YES			3.10E+00		YES		YES	2.60E+00		YES		YES	ND				
Sodium	mg/kg	6.34E+02	NA	NA	5.57E+01	B				6.65E+01	B				8.59E+01	B				4.12E+01	B			
Thallium	mg/kg	3.43E+00	5.08E-01	1.00E+00	ND					ND					9.40E-01	J		YES		ND				
Vanadium	mg/kg	5.88E+01	5.31E+01	2.00E+00	1.54E+01				YES	2.30E+01				YES	2.21E+01				YES	1.10E+01				YES
Zinc	mg/kg	4.06E+01	2.34E+03	5.00E+01	4.76E+01	J	YES			5.13E+01	J	YES		YES	7.83E+01	J	YES		YES	2.99E+01				
SEMIVOLATILE ORGANIC COMPOUNDS																								
2-Methylnaphthalene	mg/kg	NA	1.55E+02	NA	ND					ND					6.80E-01					3.00E-01	J			
Acenaphthene	mg/kg	7.02E-01	4.63E+02	2.00E+01	ND					ND					3.60E-01	J				ND				
Acenaphthylene	mg/kg	8.91E-01	4.63E+02	6.82E+02	ND					ND					2.80E-01	J				ND				
Anthracene	mg/kg	9.35E-01	2.33E+03	1.00E-01	4.40E-02	J				4.10E-02	J				8.90E-01				YES	ND				
Benzo(a)anthracene	mg/kg	1.19E+00	8.51E-01	5.21E+00	1.10E-01	J				1.10E-01	J				7.00E-01					ND				
Benzo(a)pyrene	mg/kg	1.42E+00	8.51E-02	1.00E-01	8.40E-02	J				1.10E-01	J		YES	YES	5.00E-01			YES	YES	ND				
Benzo(b)fluoranthene	mg/kg	1.66E+00	8.51E-01	5.98E+01	1.00E-01	J				1.30E-01	J				4.00E-01	J				2.30E-01	J			
Benzo(ghi)perylene	mg/kg	9.55E-01	2.32E+02	1.19E+02	4.90E-02	J				5.90E-02	J				2.60E-01	J				ND				
Benzo(k)fluoranthene	mg/kg	1.45E+00	8.51E+00	1.48E+02	6.90E-02	J				9.60E-02	J				4.30E-01					ND				
Carbazole	mg/kg	NA	3.11E+01	NA	ND					4.10E-02	J				2.40E-01	J				ND				
Chrysene	mg/kg	1.40E+00	8.61E+01	4.73E+00	1.10E-01	J				1.20E-01	J				6.30E-01					1.90E-01	J			
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	2.00E+02	9.00E-02	B				8.30E-02	B				7.60E-02	B				ND				
Dibenz(a,h)anthracene	mg/kg	7.20E-01	8.61E-02	1.84E+01	ND					ND					1.30E-01	J		YES		ND				
Dibenzofuran	mg/kg	NA	3.09E+01	NA	ND					ND					4.60E-01					ND				
Fluoranthene	mg/kg	2.03E+00	3.09E+02	1.00E-01	2.60E-01	J			YES	2.80E-01	J			YES	1.80E+00				YES	3.60E-01	J			YES
Fluorene	mg/kg	6.67E-01	3.09E+02	1.22E+02	ND					ND					1.00E+00		YES			ND				
Indeno(1,2,3-cd)pyrene	mg/kg	9.37E-01	8.51E-01	1.09E+02	4.70E-02	J				5.80E-02	J				2.40E-01	J				ND				
Naphthalene	mg/kg	3.30E-02	1.55E+02	1.00E-01	ND					ND					2.70E-01	J	YES		YES	1.20E+00	J	YES		YES

Table 5-1

Surface Soil Analytical Results
Printing Plant, Building 3183, Parcel 162(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-162					PPMP-162					PPMP-162					PPMP-162				
				Sample Location	PPMP-162-GP01					PPMP-162-GP02					PPMP-162-GP03					PPMP-162-GP04				
				Sample Number	KG0001					KG0003					KG0005					KG0007				
				Sample Date	14-Jan-99					14-Jan-99					14-Jan-99					18-Jan-99				
				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
Phenanthrene	mg/kg	1.08E+00	2.32E+03	1.00E-01	2.10E-01	J			YES	1.80E-01	J			YES	3.40E+00		YES		YES	ND				
Pyrene	mg/kg	1.63E+00	2.33E+02	1.00E-01	2.30E-01	J			YES	2.30E-01	J			YES	1.60E+00				YES	4.00E-01	J			YES
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	9.30E-01	8.30E-02	B				6.70E-02	B				7.40E-02	B				ND				
VOLATILE ORGANIC COMPOUNDS																								
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND					ND					1.40E-01	J			YES
2-Butanone	mg/kg	NA	4.66E+03	8.96E+01	ND					ND					ND					7.70E-03	J			
Acetone	mg/kg	NA	7.76E+02	2.50E+00	8.30E-03	B				1.90E-02	B				8.90E-03	B				6.40E-02	B			
Benzene	mg/kg	NA	2.17E+01	5.00E-02	ND					ND					ND					2.00E-02	J			
Bromomethane	mg/kg	NA	1.09E+01	NA	5.00E-03	B				3.80E-03	B				1.60E-03	B				2.10E-03	B			
Cumene	mg/kg	NA	7.77E+02	NA	ND					ND					ND					2.00E-02	J			
Ethylbenzene	mg/kg	NA	7.77E+02	5.00E-02	ND					ND					ND					3.20E-02	J			
Methylene chloride	mg/kg	NA	8.41E+01	2.00E+00	4.10E-03	B				3.40E-03	B				3.30E-03	B				4.80E-03	B			
Naphthalene	mg/kg	3.30E-02	1.55E+02	1.00E-01	ND					ND					1.90E-02	J				1.80E-01	J	YES		YES
Trichlorofluoromethane	mg/kg	NA	2.33E+03	1.00E-01	3.20E-03	J				ND					ND					ND				
m,p-Xylenes	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					ND					4.70E-03	J			
n-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					3.20E-02	J			
n-Propylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					4.60E-02	J			
p-Cymene	mg/kg	NA	1.55E+03	NA	ND					ND					ND					2.40E-02	J			
sec-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					3.50E-02	J			

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. For metals, the 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.

For SVOCs, value listed is the background screening criterion given in IT Corporation (2000b), *Final Human Health and Ecological Screening Values and PAH Background Summary Report, Fort McClellan, Calhoun County, Alabama, July.*

[b]Residential human health site-specific screening levels (SSSL) and ecological screening values (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
Printing Plant, Building 3183, Parcel 162(7)
Fort McClellan, Calhoun County, Alabama

(Page 1 of 2)

			Parcel	PPMP-162				PPMP-162				PPMP-162				PPMP-162			
			Sample Location	PPMP-162-GP01				PPMP-162-GP02				PPMP-162-GP03				PPMP-162-GP04			
			Sample Number	KG0002				KG0004				KG0006				KG0010			
			Sample Date	14-Jan-99				14-Jan-99				14-Jan-99				15-Jan-99			
			Sample Depth (Feet)	9-12				9-12				6-9				9-12			
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	9.68E+03			YES	1.90E+04		YES	YES	1.63E+04		YES	YES	1.28E+04			YES
Arsenic	mg/kg	1.83E+01	4.26E-01	1.00E+01			YES	3.65E+01		YES	YES	3.18E+01		YES	YES	3.10E+01		YES	YES
Barium	mg/kg	2.34E+02	5.47E+02	7.86E+01				6.05E+01				5.74E+01				8.90E+01			
Beryllium	mg/kg	8.60E-01	9.60E+00	1.20E+00		YES		2.30E+00		YES		2.40E+00		YES		6.50E+00		YES	
Cadmium	mg/kg	2.20E-01	6.25E+00	3.80E-01	J	YES		ND				ND				4.90E-01	J	YES	
Calcium	mg/kg	6.37E+02	NA	1.77E+03		YES		2.54E+03		YES		1.20E+03		YES		2.12E+03		YES	
Chromium	mg/kg	3.83E+01	2.32E+01	1.81E+01	J			4.27E+01	J	YES	YES	2.82E+01	J		YES	2.41E+01	J		YES
Cobalt	mg/kg	1.75E+01	4.68E+02	9.90E+00	J			ND				1.66E+01	J			ND			
Copper	mg/kg	1.94E+01	3.13E+02	2.16E+01		YES		7.32E+01		YES		4.85E+01		YES		4.31E+01		YES	
Iron	mg/kg	4.48E+04	2.34E+03	3.10E+04			YES	7.68E+04		YES	YES	5.67E+04		YES	YES	5.62E+04		YES	YES
Lead	mg/kg	3.85E+01	4.00E+02	2.77E+01				2.97E+01				3.06E+01				2.15E+01			
Magnesium	mg/kg	7.66E+02	NA	5.68E+02	J			9.90E+02		YES		1.49E+03		YES		1.18E+03		YES	
Manganese	mg/kg	1.36E+03	3.63E+02	5.86E+02	J		YES	1.22E+02	J			3.57E+02	J			3.41E+02	J		
Mercury	mg/kg	7.00E-02	2.33E+00	7.50E-02		YES		1.50E-01		YES		2.70E-01		YES		1.10E-01		YES	
Nickel	mg/kg	1.29E+01	1.54E+02	2.37E+01		YES		5.64E+01		YES		8.06E+01		YES		7.02E+01		YES	
Potassium	mg/kg	7.11E+02	NA	2.90E+02	J			4.64E+02	J			7.52E+02		YES		4.04E+02	J		
Selenium	mg/kg	4.70E-01	3.91E+01	1.50E+00		YES		2.10E+00		YES		1.60E+00		YES		1.40E+00		YES	
Silver	mg/kg	2.40E-01	3.91E+01	2.00E+00		YES		4.50E+00		YES		3.50E+00		YES		3.60E+00		YES	
Sodium	mg/kg	7.02E+02	NA	6.75E+01	B			8.64E+01	B			7.28E+01	B			6.86E+01	B		
Thallium	mg/kg	1.40E+00	5.08E-01	ND				ND				8.00E-01	J		YES	ND			
Vanadium	mg/kg	6.49E+01	5.31E+01	1.53E+01				2.53E+01				2.53E+01				3.09E+01			
Zinc	mg/kg	3.49E+01	2.34E+03	7.70E+01	J	YES		1.43E+02	J	YES		2.06E+02	J	YES		1.30E+02	J	YES	
SEMIVOLATILE ORGANIC COMPOUNDS																			
Benzo(a)anthracene	mg/kg	NA	8.51E-01	7.50E-02	J			ND				ND				ND			
Benzo(a)pyrene	mg/kg	NA	8.51E-02	8.60E-02	J		YES	ND				ND				ND			
Benzo(b)fluoranthene	mg/kg	NA	8.51E-01	9.90E-02	J			ND				ND				ND			
Benzo(ghi)perylene	mg/kg	NA	2.32E+02	6.10E-02	J			ND				ND				ND			
Benzo(k)fluoranthene	mg/kg	NA	8.51E+00	8.70E-02	J			ND				ND				ND			
Chrysene	mg/kg	NA	8.61E+01	9.10E-02	J			ND				ND				ND			
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	1.00E-01	B			1.20E-01	B			1.10E-01	B			7.80E-02	B		
Fluoranthene	mg/kg	NA	3.09E+02	1.70E-01	J			ND				ND				ND			
Indeno(1,2,3-cd)pyrene	mg/kg	NA	8.51E-01	5.20E-02	J			ND				ND				ND			
Phenanthrene	mg/kg	NA	2.32E+03	7.90E-02	J			ND				ND				ND			
Pyrene	mg/kg	NA	2.33E+02	1.40E-01	J			ND				ND				ND			
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	8.40E-02	B			1.00E-01	B			9.30E-02	B			7.60E-02	B		
VOLATILE ORGANIC COMPOUNDS																			
2-Butanone	mg/kg	NA	4.66E+03	ND				ND				6.90E-03	J			ND			
Acetone	mg/kg	NA	7.76E+02	8.20E-02	J			1.00E+01	J			3.00E-01	J			6.50E-03	B		
Bromomethane	mg/kg	NA	1.09E+01	4.10E-03	B			3.90E-03	B			3.20E-03	B			1.70E-03	B		
Carbon tetrachloride	mg/kg	NA	4.83E+00	ND				ND				ND				1.80E-02			
Chloroform	mg/kg	NA	1.03E+02	ND				ND				ND				2.30E-03	J		
Methylene chloride	mg/kg	NA	8.41E+01	3.40E-03	B			3.70E-03	B			3.70E-03	B			3.40E-03	B		
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				8.20E-03	J			ND			
Tetrachloroethene	mg/kg	NA	1.21E+01	ND				ND				ND				6.60E-03			
Toluene	mg/kg	NA	1.55E+03	ND				3.90E-02				3.70E-03	J			ND			

Table 5-2

Subsurface Soil Analytical Results
Printing Plant, Building 3183, Parcel 162(7)
Fort McClellan, Calhoun County, Alabama

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

[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 levels (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.

Table 5-3

Groundwater Analytical Results
Printing Plant, Building 3183, Parcel 162(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-162				PPMP-162				PPMP-162			
			Sample Location	PPMP-162-GP01				PPMP-162-GP02				PPMP-162-GP03			
			Sample Number	KG3001				KG3004				KG3005			
			Sample Date	3-Feb-99				29-Jan-99				29-Jan-99			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
METALS															
Aluminum	mg/L	2.34E+00	1.56E+00	1.60E+00	J		YES	1.46E-01	B			5.20E-01	J		
Arsenic	mg/L	1.78E-02	4.00E-05	ND				ND				3.70E-03	J		YES
Barium	mg/L	1.27E-01	1.10E-01	1.37E-01	J	YES	YES	2.73E-02	J			6.63E-02	J		
Calcium	mg/L	5.65E+01	NA	5.05E+01	J			3.10E+01	J			6.75E+01	J	YES	
Iron	mg/L	7.04E+00	4.69E-01	1.96E+00	J		YES	1.06E-01				6.35E-01			YES
Magnesium	mg/L	2.13E+01	NA	9.09E+00	J			4.01E+00	J			2.16E+01	J	YES	
Manganese	mg/L	5.81E-01	7.35E-02	3.90E-01	J		YES	1.70E-03	J			8.69E-02			YES
Potassium	mg/L	7.20E+00	NA	1.75E+00	J			ND				ND			
Sodium	mg/L	1.48E+01	NA	8.58E+00	J			3.26E+01	J	YES		1.20E+01	J		
Thallium	mg/L	1.45E-03	1.00E-04	ND				ND				4.40E-03	B	YES	YES
Zinc	mg/L	2.20E-01	4.69E-01	1.04E-02	J			ND				ND			
SEMIVOLATILE ORGANIC COMPOUNDS															
Acenaphthene	mg/L	NA	6.58E-02	3.30E-03	J			[c]				ND			
Carbazole	mg/L	NA	2.76E-03	7.00E-03	J		YES	[c]				ND			
Fluorene	mg/L	NA	4.66E-02	1.20E-03	J			[c]				ND			
bis(2-Ethylhexyl)phthalate	mg/L	NA	4.30E-03	1.10E-03	J			[c]				ND			
VOLATILE ORGANIC COMPOUNDS															
Acetone	mg/L	NA	1.56E-01	3.60E-03	B			ND				ND			
Methylene chloride	mg/L	NA	7.85E-03	1.00E-03	B			1.00E-03	B			1.60E-03	B		
Naphthalene	mg/L	NA	3.00E-03	3.90E-04	J			ND				5.30E-04	J		
Tetrachloroethene	mg/L	NA	1.25E-03	ND				ND				2.20E-04	J		
cis-1,2-Dichloroethene	mg/L	NA	1.55E-02	1.40E-04	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) as given in IT Corporation (2000b), Final Human Health and *Ecological Screening Values and PAH Background Summary Report, Fort McClellan, Calhoun County, Alabama, July*.

[c]Not collected see text.

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/L - Milligrams per liter.

NA - Not available.

ND - Not detected.

concentrations.

Volatile Organic Compounds. Fifteen VOCs were detected in surface soil samples collected at the Former Printing Plant, Building 3183, Parcel 162(7). The acetone, bromomethane, and methylene chloride results were flagged with a "B" data qualifier, signifying that these compounds were also detected in an associated laboratory or field blank. Ten of the VOCs were detected only in PPMP-162-GP04. None of the detected VOCs were present at a concentration exceeding residential human health SSSLs. Concentrations of naphthalene and 1,2,4-trimethylbenezene were detected at concentrations exceeding the ESVs in PPMP-162-GP04.

Semivolatile Organic Compounds. Twenty-one SVOCs were detected in surface soil samples collected at the Former Printing Plant, Building 3183, Parcel 162(7). The bis(2-ethylhexyl)phthalate and di-n-butylphthalate results were flagged with a "B" data qualifier, signifying that these compounds were also detected in an associated laboratory or field blank. The surface soil sample from PPMP-162-GP03 contained all of the detected SVOCs. PPMP-162-GP02 and PPMP-162-GP01 surface soil samples contained fourteen and thirteen of the detected SVOCs, respectively. PPMP-162-GP04 surface soil only contained six of the detected SVOCs. Most of the SVOC analytical results were flagged with a "J" data qualifier, signifying that the result is greater than the method detection limit but less than the specified RL.

The benzo(a)pyrene and dibenz(a,h)anthracene concentrations at sample location PPMP-162-GP03 exceeded residential human health SSSLs but were below PAH background screening values.

The concentrations of anthracene (PPMP-162-GP03), benzo(a)pyrene (PPMP-162-GP02), fluoranthene (all four locations), naphthalene (PPMP-162-GP03 and PPMP-162-GP04), phenanthrene (PPMP-162-GP01, PPMP-162-GP02 and PPMP-162-GP03), and pyrene (all four locations) exceeded ESVs. However, with the exception of naphthalene (PPMP-162-GP03 and PPMP-162-GP04) and phenanthrene (PPMP-162-GP03), the SVOC concentrations were below PAH background screening values.

5.2 Subsurface Soil Sample Results

Four subsurface soil samples were collected for chemical analyses at the Former Printing Plant, Building 3183, Parcel 162(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 concentrations, as presented in Table 5-2.

Metals. Twenty-two metals were detected in subsurface soil samples collected at the Former Printing Plant, Building 3183, Parcel 162(7). With the exception of cadmium, cobalt, and thallium, the detected metals were present in each of the samples.

The concentrations of aluminum (all four locations), arsenic (all four locations), chromium (PPMP-162-GP02, PPMP-162-GP03, and PPMP-162-GP04), iron (all four locations), manganese (PPMP-162-GP01), and thallium (PPMP-162-GP03) exceeded residential human health SSSLs. However, with the exception of the iron results, these metals concentrations were within the range of background values determined by SAIC (1998).

Volatile Organic Compounds. Nine VOCs were detected in subsurface soil samples collected at the Former Printing Plant, Building 3183, Parcel 162(7). The bromomethane and methylene chloride results were flagged with a "B" data qualifier, signifying that these compounds were also detected in an associated laboratory or field blank sample. Sample locations PPMP-162-GP03 and PPMP-162-GP04 each contained six of the nine detected VOCs.

None of the detected VOCs were present at a concentration exceeding residential human health SSSLs.

Semivolatile Organic Compounds. Twelve SVOCs were detected in subsurface soil samples from location PPMP-162-GP01. Di-n-butyl phthalate and bis(2-ethylhexyl)phthalate were the only SVOCs detected in the remaining subsurface soil samples collected at the Former Printing Plant, Building 3183, Parcel 162(7). The di-n-butyl phthalate and bis(2-ethylhexyl)phthalate results were flagged with a "B" data qualifier, signifying that these compounds were also detected in an associated laboratory or field blank sample.

None of the detected SVOCs was present at a concentration exceeding residential human health SSSLs.

5.3 Groundwater Sample Results

Three monitoring wells were sampled at the Former Printing Plant, Building 3183, Parcel 162(7) at the sample locations shown on Figure 3-1. Analytical results were compared to residential

human health SSSLs and background concentrations, as presented in Table 5-3. Because of limited sample volume at the time of sample collection, the groundwater sample collected from PPMP-162-GP02 was not analyzed for SVOCs. However, based upon the SVOC results for groundwater samples from PPMP-162-GP01 and PPMP-162-GP03, SVOCs appear to have minimal impact on groundwater at the site.

Metals. Eleven metals, including aluminum, arsenic, barium, calcium, iron, magnesium, manganese, potassium, sodium, thallium, and zinc, were detected in groundwater samples collected at the Former Printing Plant, Building 3183, Parcel 162(7). The concentration of six metals (aluminum, arsenic, barium, iron, manganese, and thallium) exceeded residential human health SSSLs. However, these metals concentrations were within the range of background values determined by SAIC (1998).

Volatile Organic Compounds. Five VOCs were detected in groundwater samples collected at the Former Printing Plant, Building 3183, Parcel 162(7). The acetone and methylene chloride 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 PPMP-162-GP01 contained four of the five detected VOCs.

The VOC concentrations were below residential human health SSSLs.

Semivolatile Organic Compounds. Four SVOCs (acenaphthene, carbazole, fluorene, and bis[2-ehylhexyl]phthalate) were detected in the groundwater sample collected from location PPMP-162-GP01. However, only the concentration of carbazole exceeded residential human health SSSLs. SVOCs were not detected in samples from the other two sampling locations.

6.0 Summary and Conclusions and Recommendations

IT, under contract with USACE, completed an SI at the Former Printing Plant, Building 3183, Parcel 162(7) at FTMC, Calhoun County, Alabama. The SI was conducted to determine whether chemical constituents are present at the Former Printing Plant, Building 3183, Parcel 162(7) and, if present, whether the concentrations would present an unacceptable risk to human health or the environment. The SI at the Former Printing Plant, Building 3183, Parcel 162(7) consisted of the sampling and analyses of four surface soil samples, four subsurface soil samples, and three groundwater samples. In addition, three monitoring wells were installed in the residuum groundwater zone to facilitate groundwater sample collection and to provide site-specific geological and hydrogeological characterization information.

Chemical analyses of samples collected at the Former Printing Plant, Building 3183, Parcel 162(7) indicate that metals, VOCs, and SVOCs were detected in the environmental media sampled. Cyanide was not detected in any of the samples collected. Analytical results were compared to the residential human health SSSLs, and, where available, ecological 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) and SVOC concentrations exceeding SSSLs and ESVs in surface soils were compared to PAH background screening values where available (IT, 2000b).

The potential impact to human receptors is expected to be minimal. With the exception of iron in subsurface soils 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. The SVOC carbazole was detected in one groundwater sample at a concentration slightly exceeding the residential human health SSSL. Given the extremely limited impacted area, carbazole is not expected to pose an unacceptable risk to human health.

Several metals were detected in surface soils at concentrations exceeding ESVs and background concentrations. In addition, the concentrations of two VOCs and six SVOCs exceeded ESVs. However, the potential impact to ecological receptors is expected to be minimal based on the existing viable habitat. The site is a well-developed area and is projected for continued industrial/business use. Consequently, viable ecological habitat is not expected to increase.

Based on the results of the SI, past operations at the Former Printing Plant, Building 3183, Parcel 162(7) do not appear to have adversely impacted the environment. Furthermore, the metals and organic compounds detected in site media do not pose an unacceptable risk to human health or the environment in either residential land-use scenario. Therefore, IT recommends "No Further Action" with unrestricted reuse with regards to hazardous, toxic, and radiological waste at the Former Printing Plant, Building 3183, Parcel 162(7).

7.0 References

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ATTACHMENT 1

LIST OF ABBREVIATIONS AND ACRONYMS

List of Abbreviations and Acronyms

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
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
BFB	bromofluorobenzene
BG	Bacillus globigii
bgs	below ground surface
bkg	background
bls	below land surface
BOD	biological oxygen demand
BRAC	Base Realignment and Closure
Braun	Braun Intertec Corporation
BTEX	benzene, toluene, ethylbenzene, 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
CFC	chlorofluorocarbon
CG	cyanogen chloride
ch	inorganic clays of high plasticity
CHPPM	U.S. Army Center for Health Promotion and Preventive Maintenance
CK	carbonyl 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
DANC	decontamination agent, non-corrosive
°C	degrees Celsius
°F	degrees Fahrenheit
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
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
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
OSHA	Occupational Safety and Health Administration
OWS	oil/water separator
oz	ounce
PAH	polynuclear aromatic hydrocarbon
Pb	lead
PCB	polychlorinated biphenyl
PCE	perchloroethene
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
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
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
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
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 compounds
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
UJ	not detected above reporting limit; result should be estimated
USACE	U.S. Army Corps of Engineers
USACHPPM	U.S. Army Center for Health Promotion and Preventive Maintenance
USAEC	U.S. Army Environmental Center
USAEHA	U.S. Army Environmental Hygiene Agency
USAMCLS	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- [diisoproplaminoethyl]-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

APPENDIX A

SAMPLE COLLECTION LOGS

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: _____

Site: **Printing Plant, Building 3183 (Parcel 162)**
Location Code: **PPMP-162-GP01**
Sample Number: **KG0001**
Sample Name: **PPMP-162-GP01-SS-KG0001-REG**
Sampling Method: **HA**

Collection Date: 1.14.99
Collection Time: 1415

Start Depth: Ø
End Depth: 1

Sample Team: Messer, Allen

Containers

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

Comments: COLLECTED w/ STAINLESS STEEL HAND AUGER, NOT ON ASPHALT

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: **Printing Plant, Building 3183 (Parcel 162)**

Location Code: **PPMP-162-GP01**

Sample Number: **KG0001-MS**

Sample Name: **PPMP-162-GP01-SS-KG0001-MS**

Sampling Method: **HA**

Collection Date: 1-14-99

Collection Time: 1415

Start Depth: Ø

End Depth: 1

Sample Team: Messer, Allen

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	5	g	EnCore
CYANIDE	N	B	1	8	oz	CWM
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: **Printing Plant, Building 3183 (Parcel 162)**
Location Code: **PPMP-162-GP01**
Sample Number: **KG0001-MSD**
Sample Name: **PPMP-162-GP01-SS-KG0001-MSD**
Sampling Method: **HA**

Collection Date: 1-14-99
Collection Time: 1415

Start Depth: Ø
End Depth: 1

Sample Team: Messer, Allen

Analytical Suite	Flt	Frtn	Containers Qty	Size	Units	Type
VOLATILES_3	N	A	3	5	g	EnCore
CYANIDE	N	B	1	8	oz	CWM
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: **Printing Plant, Building 3183 (Parcel 162)**
Location Code: **PPMP-162-GP01**
Sample Number: **KG0002**
Sample Name: **PPMP-162-GP01-DS-KG0002-REG**
Sampling Method: **DP**

Collection Date: 1-14-97
Collection Time: 1500

Start Depth: 9
End Depth: 12

Sample Team: Messer, Allen

Containers

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

ENTERED 4/8/99 by SM

Sample Collection Log

Project: 774645 Fort McClellan

Manager: Jeanie Yacoub

RFA / COC Number: _____

Site: **Printing Plant, Building 3183 (Parcel 162)**
Location Code: **PPMP-162-GP01**
Sample Number: **KG3001**
Sample Name: **PPMP-162-GP01-GW-KG3001-REG**
Sampling Method: **PP**

Collection Date: 2/3/99
Collection Time: 1340

Start Depth: -0
End Depth: -0

Sample Team: G. Ward, T. Mullins

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	40	mL	VOA Vial
SEMIVOLATILES_	N	B	1	1	L	Amb. Glass
METALS-W	N	C	1	1	L	HDPE
CYANIDE	N	D	1	1	L	HDPE

PID - 4.5 (Background 0.0) Volatiles + Metals pH<2

PURGE RECORD:

Initial	Time(24hr)	DepthtoWater (ft)	Eh (mV)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	DissOxygen (ppm)	Temperature (C)	Purge Volume (gal)
	1319	9.13	34	6.56	484.3	0.0	0.75	32.40	1.0
	1323	9.56	-48	6.54	525.1	0.0	0.38	32.49	2.0
	1328	10.10	-38	6.50	485.3	0.0	0.87	32.24	3.0
	1332	10.78	27	6.46	441.3	0.0	1.99	31.86	4.0
	1336	11.63	162	6.50	409.6	0.6	2.82	30.99	5.0
Sample:									

Logged BY / Date: JW 2/3/99

Reviewed BY / Date: _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan

Manager: Jeanie Yacoub

RFA / COC Number: _____

Site: **Printing Plant, Building 3183 (Parcel 162)**
Location Code: **PPMP-162-GP01**
Sample Number: **KG3002**
Sample Name: **PPMP-162-GP01-GW-KG3002-FD**
Sampling Method: **PP**

Collection Date: 2/3/99
Collection Time: 1340

Start Depth: ~~0~~
End Depth: ~~0~~

Sample Team: G. Ward
T. Mullins

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	40	mL	VOA Vial
SEMIVOLATILES_	N	B	1	1	L	Amb. Glass
METALS-W	N	C	1	1	L	HDPE
CYANIDE	N	D	1	1	L	HDPE

PURGE RECORD:

Initial	Time(24hr)	DepthtoWater (ft)	Eh (mV)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	DissOxygen (ppm)	Temperature (C)	Purge Volume (gal)
		See Log PPMP-162-GP01-GW-KG3001-Reg							
Sample:									

Logged BY / Date: Jw 2/3/99

Reviewed BY / Date: _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: _____

Site: Printing Plant, Building 3183 (Parcel 162)
Location Code: PPMP-162-GP01
Sample Number: KG3003
Sample Name: PPMP-162-GP01-GW-KG3003-FS
Sampling Method: PP

Collection Date: 2/3/99
Collection Time: 1340

Start Depth: ~~0~~
End Depth: ~~0~~

Sample Team: G. Ward, T. Mullins

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	40	mL	VOA Vial
SEMIVOLATILES_	N	B	1	1	L	Amb. Glass
METALS-W	N	C	1	1	L	HDPE
CYANIDE	N	D	1	1	L	HDPE

PURGE RECORD:

Initial	Time(24hr)	DepthtoWater (ft)	Eh (mV)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	DissOxygen (ppm)	Temperature (C)	Purge Volume (gal)
		See log PPMP-162-GP01-GW-KG3001-Reg							
Sample:									

Logged BY / Date: JL 2/3/99 *Reviewed BY / Date:* _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan

Manager: Jeanie Yacoub

RFA / COC Number: _____

Site: **Printing Plant, Building 3183 (Parcel 162)**

Location Code: **PPMP-162-GP02**

Sample Number: **KG0003**

Sample Name: **PPMP-162-GP02-SS-KG0003-REG**

Sampling Method: **HA**

Collection Date: 1-14-99

Collection Time: 1315

Start Depth: Ø

End Depth: 1

Sample Team: MESSER, Allen

Containers

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

Comments: COLLECTED W/ SS HAND Auger NOT ON asphalt

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: **Printing Plant, Building 3183 (Parcel 162)**
Location Code: **PPMP-162-GP02**
Sample Number: **KG0004**
Sample Name: **PPMP-162-GP02-DS-KG0004-REG**
Sampling Method: **DP**

Collection Date: 1-14-99
Collection Time: 1340

Start Depth: 9
End Depth: 12

Sample Team: Messer, Allen

Containers

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

ENTERED 3/20/99

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: _____

Site: Printing Plant, Building 3183 (Parcel 162)
Location Code: PPMP-162-GP02
Sample Number: KG3004
Sample Name: PPMP-162-GP02-GW-KG3004-REG
Sampling Method: PP

Collection Date: 1/29/99
Collection Time: 11:35

Start Depth: _____
End Depth: _____

Sample Team: Kevin Arnold, Tim Mathis

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	40	mL	VOA Vial
SEMIVOLATILES_	N	B	1	1	L	Amb. Glass
METALS-W	N	C	1	1	L	HDPE
CYANIDE	N	D	1	1	L	HDPE

PURGE RECORD:

Initial	Time(24hr)	DepthtoWater (ft)	Eh (mV)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	DissOxygen (ppm)	Temperature (C)	Purge Volume (gal)
✓	11:07	16.84	148	6.93	348.0	0.0	5.74	21.38	0
	11:10	KA 16.95	149	6.99	341.6	0.0	5.54	21.68	.20
	11:15	17.18	153	6.92	332.6	0.0	5.67	22.14	.40
	11:21	17.45	156	6.62	327.7	0.0	5.44	22.63	.60
Sample:									

Ph was less than 2 for 40ml VOA
Ph was less than 2 for metals preserved sample

Logged BY / Date: [signature] / 1/29/99 *Reviewed BY / Date:* _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: _____

Site: Printing Plant, Building 3183 (Parcel 162)
Location Code: PPMP-162-GP03
Sample Number: KG0005
Sample Name: PPMP-162-GP03-SS-KG0005-REG
Sampling Method: HA

Collection Date: 1-14-99
Collection Time: 1225

Start Depth: Ø
End Depth: 1

Sample Team: Messer, Allen

Containers

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

Comments: SS Auger under Asphalt

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: **Printing Plant, Building 3183 (Parcel 162)**

Location Code: **PPMP-162-GP03**

Sample Number: **KG0006**

Sample Name: **PPMP-162-GP03-DS-KG0006-REG**

Sampling Method: **DP**

Collection Date: 1-14-99

Collection Time: 1250

Start Depth: 6

End Depth: 9

Sample Team: Messer, Allen

Containers

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

ENTERED 3/26/99

Sample Collection Log

Project: 774645 Fort McClellan

Manager: Jeanie Yacoub

RFA / COC Number: _____

Site: **Printing Plant, Building 3183 (Parcel 162)**

Location Code: **PPMP-162-GP03**

Sample Number: **KG3005**

Sample Name: **PPMP-162-GP03-GW-KG3005-REG**

Sampling Method: **PP**

Collection Date: 1/29/99

Collection Time: 10:20

Start Depth: _____

End Depth: _____

Sample Team: Kevin Arnold, Tim Mathis

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	40	mL	VOA Vial
SEMIVOLATILES_	N	B	1	1	L	Amb. Glass
METALS-W	N	C	1	1	L	HDPE
CYANIDE	N	D	1	1	L	HDPE

PURGE RECORD:

Initial	Time(24hr)	DepthtoWater (ft)	Eh (mV)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	DissOxygen (ppm)	Temperature (C)	Purge Volume (gal)
9:09	✓	7.66	121	7.63	517.0	141.9	1.06	20.12	initial
	9:16	7.00	78	7.53	520.5	128.0	.42	20.18	1.2
	9:29	7.44	46	7.41	523.1	86.7	.56	20.19	2.4
	9:37	7.71	42	7.39	526.0	47.1	.77	20.15	3.6
	9:48	7.92	42	7.33	522.5	25.2	.72	20.25	4.8
Sample:									

Ph was less than 2 from metals sample
Ph was less than 2 from VOA as well

Logged BY / Date: Kevin Arnold 1/29/99 *Reviewed BY / Date:* _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan

Manager: Jeanie Yacoub

RFA / COC Number:

Site: **Printing Plant, Building 3183 (Parcel 162)**

Location Code: **PPMP-162-GP03**

Sample Number: **KG3005-MS**

Sample Name: **PPMP-162-GP03-GW-KG3005-MS**

Sampling Method: **PP**

Collection Date: 1/29/99

Collection Time: 10:20

Start Depth:

End Depth:

Sample Team: Kevin Arnold, Tim Mathis

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	40	mL	VOA Vial
SEMIVOLATILES_	N	B	1	1	L	Amb. Glass
METALS-W	N	C	1	1	L	HDPE
CYANIDE	N	D	1	1	L	HDPE

PURGE RECORD:

Initial	Time(24hr)	DepthtoWater (ft)	Eh (mV)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	DissOxygen (ppm)	Temperature (C)	Purge Volume (gal)
		See PPMP-162-GP03 REG							
Sample:									

Logged BY / Date: [signature] 1/29/99 *Reviewed BY / Date:*

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan

Manager: Jeanie Yacoub

RFA / COC Number:

Site: **Printing Plant, Building 3183 (Parcel 162)**
Location Code: **PPMP-162-GP03**
Sample Number: **KG3005-MSD**
Sample Name: **PPMP-162-GP03-GW-KG3005-MSD**
Sampling Method: **PP**

Collection Date: 1/29/99
Collection Time: 10:20

Start Depth:
End Depth:

Sample Team: Kevin Arnold
Tim Mathis

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	40	mL	VOA Vial
SEMIVOLATILES_	N	B	1	1	L	Amb. Glass
METALS-W	N	C	1	1	L	HDPE
CYANIDE	N	D	1	1	L	HDPE

PURGE RECORD:

Initial	Time(24hr)	DepthtoWater (ft)	Eh (mV)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	DissOxygen (ppm)	Temperature (C)	Purge Volume (gal)
			See	PPMP-162-		GP03-	REG		
Sample:									

Logged BY / Date: 1/29/99 *Reviewed BY / Date:*

INTERNATIONAL TECHNOLOGY CORPORATION

Parcel
Soil Sample Collection Log

Fort McClellan,Alabama
PROJECT: 774645 COST CODE:01020300 DELIVERY ORDER 14

LOCATION ID: PPMP-162-GP04 SAMPLE #: KG0007

LOG DATE: 01/18/99 LOG TIME: 0935 (HHMM)

CONTAINERS:

QTY	SIZE	TYPE/Preservation	PARAMETER	METHOD
3	5 grams	Encore	Volatiles -	8260B
1	8 oz	Clear Wide Mouth	~~Cl Pesticides~~	~~8150B~~
			Metals -	6010B
			~~PCB~~ CYANIDE	~~8082~~
			Semivolatiles -	8270C
~~1~~	~~8 oz~~	~~Clear Wide Mouth~~	~~Cl Herbicides~~	~~8150B~~
			~~OP Pesticide~~	~~8141A~~

COMMENTS: COLLECTED w/ SS hand auger under ASPHALT

LOG CODE: ITC LOCATION CLASS: MATRIX: Soil SAMPLING METHOD: HA DP NA

QA/QC samples (list below)

Matrix Spike (MS): _____ Matrix Spike Dup (SD): _____ Field Dup(FD): _____

Trip Blank (TB): _____ Equipment Blank (EB): _____

LOT CONTROL #: ☐☐☐☐ (Ambient Blank # - EquipBlank # - Trip Blank # - Cooler #)

SAMPLER(S): _____ PREPARED BY : John W. Andrew

PURPOSE: _____ CHAIN OF CUSTODY: _____

SHIP DATE: ___/___/98 Tracking: Quantity Express Couirer

INTERNATIONAL TECHNOLOGY CORPORATION

FD

Parcel
Soil Sample Collection Log

Fort McClellan,Alabama
PROJECT: 774645 COST CODE:01020300 DELIVERY ORDER 14

LOCATION ID: PPMP-162-GP04 SAMPLE #: X60008 FD

LOG DATE: 01/18/99 LOG TIME: 0935 (HHMM)

CONTAINERS:

QTY	SIZE	TYPE/Preservation	PARAMETER	METHOD
3	5 grams	Encore	Volatiles	8260B
1	8 oz	Clear Wide Mouth	~~Cl Pesticides~~ Metals Cyanide ~~PCB~~ Semivolatiles	~~8150B~~ 6010B ~~8082~~ 8270C
~~1~~	~~8 oz~~	~~Clear Wide Mouth~~	~~Cl Herbicides~~ ~~OP Pesticide~~	~~8150B~~ ~~8141A~~

COMMENTS: _____

LOG CODE: ITC LOCATION CLASS: MATRIX: Soil SAMPLING METHOD: HA DP NA

QA/QC samples (list below)

Matrix Spike (MS): _____ Matrix Spike Dup (SD): _____ Field Dup(FD): ✓

Trip Blank (TB): _____ Equipment Blank (EB): _____

LOT CONTROL #: ____ (Ambient Blank # - EquipBlank # - Trip Blank # - Cooler #)

SAMPLER(S): _____ PREPARED BY : John W. Andrew

PURPOSE: _____ CHAIN OF CUSTODY: _____

SHIP DATE: ___/___/98 Tracking: Quantity Express Couirer

INTERNATIONAL TECHNOLOGY CORPORATION

Parcel
Soil Sample Collection Log

Fort McClellan,Alabama
PROJECT: 774645 COST CODE:01020300 DELIVERY ORDER 14

LOCATION ID: PPMP-162-GP04 SAMPLE #: KG0009 FS

LOG DATE: 01/18/99 LOG TIME: 0935 (HHMM)

CONTAINERS:

QTY	SIZE	TYPE/Preservation	PARAMETER	METHOD
3	5 grams	Encore	Volatiles	8260B
1	8 oz	Clear Wide Mouth	~~Cl Pesticides~~ Metals cyiride ~~PCB~~ Semivolatiles	~~8150B~~ 6010B ~~8082~~ 8270C
~~1~~	~~8 oz~~	~~Clear Wide Mouth~~	~~Cl Herbicides~~ ~~OP Pesticide~~	~~8150B~~ ~~8141A~~

COMMENTS: _____

LOG CODE: ITC LOCATION CLASS: MATRIX: Soil SAMPLING METHOD: HA DP NA

QA/QC samples (list below)

Matrix Spike (MS): _____ Matrix Spike Dup (SD): _____ Field Dup(FD): _____

Trip Blank (TB): _____ Equipment Blank (EB): _____ Field Split ✓

LOT CONTROL #: ☐☐☐☐ (Ambient Blank # - EquipBlank # - Trip Blank # - Cooler #)

SAMPLER(S): _____ PREPARED BY : John W. Andrew

PURPOSE: _____ CHAIN OF CUSTODY: _____

SHIP DATE: ___/___/98 Tracking: Quantity Express Couirer

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: _____

Site: Printing Plant, Building 3183 (Parcel 162)
Location Code: PPMP-162-GP04
Sample Number: KG0010
Sample Name: PPMP-162-GP04-DS-KG0010-REG
Sampling Method: DP

Collection Date: 1-15-99
Collection Time: 0810

Start Depth: 9
End Depth: 12

Sample Team: Messer, Aller

Containers

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

Comments:

Sketch Location:

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

CHAIN OF CUSTODY FORMS

H9A150172

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE DOCUMENT NO.: 162-011499-OSK

PAGE 1 OF 3

Bill To: Duane Nielsen
IT Corporation

Report To: Duane Nielsen
IT Corporation

Project Name/No: Fort McClellan/774645
Sample Team Member: MR
Profit Center: N/A
Project Manager: USACE-Mobile (E. Pope)
Purchase Order No.: N/A
Required Report Date: Normal

Sample Shipment Date: 01/15/99
Laboratory Destination: Quanterra Laboratory - Knoxville
Laboratory Contact: Blaise Willis
Project Contact/Phone: John Andrew, IT (256-848-3499)
Carrier Waybill No.: ~~FEDEX~~ Quality Express QB

Sample Number	Sample Type/ Description	Date/Time Collected	Container Type	Sample Volume	Pre-servative	Requested Testing Program	Condition on Receipt	Disposal Record
KG001	PPMP-162-GP01-SS-KG0001-REG	01/14/99 1415	3x5g EnCore	3x5g	4 deg C	VOCs 8260B		
			8 oz. CWM	1x8 oz.	4 deg C	SVOC 8270C		
			8 oz. CWM	1x8 oz	4 deg C	CYANIDE		
			8 oz. CWM	1x8 oz.	4 deg C	METALS		
KG0001-MS	PPMP-162-GP01-SS-KG0001-MS	01/14/99 1415	3x5g EnCore	3x5g	4 deg C	VOCs 8260B		
			8 oz. CWM	1x8 oz.	4 deg C	SVOC 8270C		
			8 oz. CWM	1x8 oz	4 deg C	CYANIDE		
			8 oz. CWM	1x8 oz.	4 deg C	METALS		
KG0001-MSD	PPMP-162-GP01-SS-KG0001-MSD	01/14/99 1415	3x5g EnCore	3x5g	4 deg C	VOCs 8260B		
			8 oz. CWM	1x8 oz.	4 deg C	SVOC 8270C		
			8 oz. CWM	1x8 oz	4 deg C	CYANIDE		
			8 oz. CWM	1x8 oz.	4 deg C	METALS	Rec'd at 2°C	
KG0002	PPMP-162-GP01-~~SS~~ DS-KG0002-REG QB	01/14/99 1500	3x5g EnCore	3x5g	4 deg C	VOCs 8260B	Custody Seals Intact	
			8 oz. CWM	1x8 oz.	4 deg C	SVOC 8270C	JW 1-15-99	
			8 oz. CWM	1x8 oz	4 deg C	CYANIDE		
			8 oz. CWM	1x8 oz.	4 deg C	METALS		

Special Instructions: NONE

Possible Hazard Identification:
Non-haz: ___ Flammable: ___ Poison B: ___ Unknown: ✓

Sample Disposal:
Return to Client: ___ Disposal by Lab: ✓ Archive: ___

Turnaround Time:
Normal: ✓ Rush: ___

Level of QC Required:
I. ___ II. ___ III. ___ Project Specific: ___

1. Relinquished by: [signature]	Date: 01/15/99 Time: 0830	1. Received by: [signature]	Date: 1 15 99 Time: 0830
2. Relinquished by: [signature]	Date: 1 15 99 Time: 1415	2. Received by: [signature]	Date: 1-15-99 Time: 14:15
3. Relinquished by:	Date: Time:	2. Received by:	Date: Time:

[illegible] 423-600-3211 John Andrew at 256-848-3400 immediately

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H9A150172

File K.5

INTERNATIONAL TECHNOLOGY CORPORATION

REFERENCE DOCUMENT NO.: 162-011499-OSK

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD (Cont.)

Project Name/No.: 774645 Laboratory Destination: Q-Knoxville Shipment Date: 01/15/99

Sample Number	Sample Type/ Description	Date/Time Collected	Container Type	Sample Volume	Pre-servative	Requested Testing Program	Condition on Receipt	Disposal Record
KG0003	PPMP-162-GP02-SS-KG0003-REG	1315 01/14/99	EnCore	3 X 5 g	4°C	VOC by Method 8260B		
			CWM	1 X 8OZ. mL	4°C	SEMIVOLATILES by 8270C		
			CWM	1 X 8OZ. mL	4°C	METALS by 6010B/7471A		
			CWM	1 X 8OZ. mL	4°C	CYANIDE		
KG0004	PPMP-162-GP02-DS-KG0004-REG	1340 01/14/99	EnCore	3 X 5 g	4°C	VOC by Method 8260B		
			CWM	1 X 8OZ. mL	4°C	SEMIVOLATILES by 8270C		
			CWM	1 X 8OZ. mL	4°C	METALS by 6010B/7471A		
			CWM	1 X 8OZ. mL	4°C	CYANIDE		
KG0005	PPMP-162-GP03-SS-KG0005-REG	1225 01/14/99	EnCore	3 X 5 g	4°C	VOC by Method 8260B		
			CWM	1 X 8OZ. mL	4°C	SEMIVOLATILES by 8270C		
			CWM	1 X 8OZ. mL	4°C	METALS by 6010B/7471A		
			CWM	1 X 8OZ. mL	4°C	CYANIDE		

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H9A150172

INTERNATIONAL TECHNOLOGY CORPORATION

REFERENCE DOCUMENT NO.: 162-011499

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD (Cont.)

Project Name/No.: 774615 Laboratory Destination: Q-Knoxville Shipment Date: _____

Sample Number	Sample Type/ Description	Date/Time Collected	Container Type	Sample Volume	Pre-servative	Requested Testing Program	Condition on Receipt
KG0005	PPMP-162-GP03-SS-KG0005-REG	1225 01/14/99	~~EnCore~~	~~3 X 5 g~~	4°C	~~VOC by Method 8260B~~	
			CWM	~~1 X 8OZ. mL~~	4°C	~~SEMIVOLATILES by 8270C~~	
			CWM	~~1 X 8OZ. mL~~	4°C	~~METALS by 6010B/7471A~~	
			CWM	~~1 X 8OZ. mL~~	4°C	~~CYANIDE~~	
KG0006	PPMP-162-GP03-DS-KG0006-REG	1250 01/14/99	EnCore	3 X 5 g	4°C	VOC by Method 8260B	
			CWM	1 X 8OZ. mL	4°C	SEMIVOLATILES by 8270C	
			CWM	1 X 8OZ. mL	4°C	METALS by 6010B/7471A	
			CWM	1 X 8OZ. mL	4°C	CYANIDE	

QB KG0005 Duplicated by error. acc. QB

Quote # 25476

H9A160140

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE DOCUMENT NO.: 162-011599-OSK

Bill To: Duane Nielsen
IT Corporation

Project Name/No: Fort McClellan/774645
Sample Team Member: MR
Profit Center: N/A
Project Manager: Jeanie Yacoub
Purchase Order No.: N/A
Required Report Date: Normal

Sample Shipment Date: 01/15/99
Laboratory Destination: Quanterra Laboratory - Knoxville
Laboratory Contact: Blaise Willis
Project Contact/Phone: John Andrew, IT (256-848-3499)
Carrier Waybill No.: ~~IT courier~~ 8090 3946 9567 PK121621

Report To: Duane Nielsen
IT Corporation

Sample Number	Sample Type/ Description	Date/Time Collected	Container Type	Sample Volume	Pre-servative	Requested Testing Program	Condition on Receipt	Disposal Record
KG010	PPMP-162-GP04-DS-KG0010-REG	01/15/99	3x5g EnCore	3x5g	4 deg C	VOLATILES by 8260B	Rec'd @ 2°C w/custody seals intact BPB 1/16/99	
		0810	8 oz. CWM	1x8 oz.	4 deg C	METALS by 6010B/7000; SEMIVOLATILES by 8270C; CYANIDE by 9010B		

Special Instructions:

Possible Hazard Identification:
Non-haz: ____ Flammable: ____ Poison B: ____ Unknown: X

Sample Disposal:
Return to Client: ____ Disposal by Lab: X Archive: ____

Turnaround Time:
Normal: X Rush: ____

Level of QC Required:
I. ____ II. ____ III. X Project Specific: ____

1. Relinquished by: IT Corp — Date: 1/15/99 Time: 2100
2. Relinquished by: Date: Time:
3. Relinquished by: Date: Time:

1. Received by: Date: Time:
2. Received by: Date: Time:
2. Received by: Bryan Blomquist — Date: 1/16/99 Time: 1010

Comments: *If samples not received in good condition contact Duane Nielson, 423-6[illegible] IT or John Andrew at 256-848-3499 immediately.*

Quote# 25476

H9A190154

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 162-011899-QSK

Project Number: 774645

Project Name: Fort McClellan

Sample Coordinator: John W. Andrew

Turnaround Time: Normal

Samples Shipment Date: 19-JAN-99

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: NONE

Possible Hazard Indentification:
Non-hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [X]

Sample Disposal:
Return to Client [ ] Disposal by Lab [X] Archive (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 01/19/99 Time: 0830	1. Received By (Signature/Affiliation)	Date: 1 19 99 Time: 0830
2. Relinquished By (Signature/Affiliation)	Date: 1 19 99 Time: 1320	2. Received By (Signature/Affiliation)	Date: 1-19-99 Time: 13:20
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: NONE

Recd at 2°C
Custody Seals Intact
JW 1-19-99

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
KG0007	PPMP-162-GP04-SS-KG0007-REG	18-JAN-99	09:35	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
KG0007	PPMP-162-GP04-SS-KG0007-REG	18-JAN-99	09:35	8 oz CWM	1	None except cool to 4 C	CYANIDE BY 9010B, TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		
KG0008	PPMP-162-GP04-SS-KG0008-FD	18-JAN-99	09:35	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
KG0008	PPMP-162-GP04-SS-KG0008-FD	18-JAN-99	09:35	8 oz CWM	1	None except cool to 4 C	CYANIDE BY 9010B, TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		

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Quote #25476

H9A300144

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 162-012999-QSK

Project Number: 774645

Project Name: Fort McClellan

Sample Coordinator: John W. Andrew

Turnaround Time: NORMAL

Samples Shipment Date: 29-JAN-99

Lab Destination: Quanterra Environmental Services - Knoxville

Lab Contact: John Reynolds

Project Contact: Randy McBride

Carrier/Waybill No.: Hand Delivered/Adrian Gonzalez PK121623 GD

Bill To: Duane Nielsen, 312 Directors Drive, Knoxville TN 37923

Report To: Duane Nielsen, 312 Directors Drive, Knoxville TN 37923

Special Instructions: NONE

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) IT Corp	Date: 01/29/99 Time: 1630	1. Received By (Signature/Affiliation) Adrian M Gonzalez IT	Date: 1/29/99 Time: 1630
2. Relinquished By (Signature/Affiliation) Adrian M Gonzalez IT	Date: 1/30/99 Time: 0940	2. Received By (Signature/Affiliation) Bryan Blanchard	Date: 1/30/99 Time: 0940
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: NONE

Rec'd at 2°C
Custody Seals Intact
JWA 1-30-99

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
012999-ER	FIELDQC-BW-012999-ER-ER	29-JAN-99	13:00	1 L Amb. Glass	1	None except cool to 4 C	Semivolatiles by 8270C ✓	N		
012999-ER	FIELDQC-BW-012999-ER-ER	29-JAN-99	13:00	1 L HDPE	1	HNO3<pH 2	TAL Metals by 6010B/7470A - Water ✓	N		PHK2
012999-ER	FIELDQC-BW-012999-ER-ER	29-JAN-99	13:00	1 L Amb. Glass	1	None except cool to 4 C	Cl Pesticides by 8081A, PCBs by 8082 ✓	N		
012999-ER	FIELDQC-BW-012999-ER-ER	29-JAN-99	13:00	1 L Amb. Glass	1	None except cool to 4 C	Cl Herbicides by 8151A ✓	N		
012999-ER	FIELDQC-BW-012999-ER-ER	29-JAN-99	13:00	1 L Amb. Glass	1	None except cool to 4 C	OP Pesticides by 8141A ✓	N		
012999-ER	FIELDQC-BW-012999-ER-ER	29-JAN-99	13:00	40 ml VOA Vial	3	HCl<pH 2	Volatiles by 8260B ✓	N		
012999-ER2	FIELDQC-BW-012999-ER2-ER	29-JAN-99	13:00	40 ml VOA Vial	3	HCl<pH 2	Volatiles by 8260B	N		
012999-ER2	FIELDQC-BW-012999-ER2-ER	29-JAN-99	13:00	1 L Amb. Glass	1	None except cool to 4 C	Semivolatiles by 8270C	N		

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H9A300144

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 162-012999-QSK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
012999-ER2	FIELDQC-BW-012999-ER2-ER	29-JAN-99	13:00	1 L Amb. Glass	1	None except cool to 4 C	OP Pesticides by 8141A	N		
012999-ER2	FIELDQC-BW-012999-ER2-ER	29-JAN-99	13:00	1 L HDPE	1	HNO3<pH 2	TAL Metals by 6010B/7470A - Water	N		pH<2
012999-ER2	FIELDQC-BW-012999-ER2-ER	29-JAN-99	13:00	1 L Amb. Glass	1	None except cool to 4 C	Cl Pesticides by 8081A, PCBs by 8082	N		
012999-ER2	FIELDQC-BW-012999-ER2-ER	29-JAN-99	13:00	1 L Amb. Glass	1	None except cool to 4 C	Cl Herbicides by 8151A	N		
012999-TB	FIELDQC-BW-012999-TB-TB	29-JAN-99	07:00	40 ml VOA Vial	3	HCl<pH 2	Volatiles by 8260B	N		
KG3004	PPMP-162-GP02-GW-KG3004-REG	29-JAN-99	11:35	40 mL VOA Vial	3	HCl<pH 2	Volatiles by 8260B	N		
KG3004	PPMP-162-GP02-GW-KG3004-REG	29-JAN-99	11:35	1 L HDPE	1	HNO3<pH 2	TAL Metals by 6010B/7470A - Water	N		pH<2
KG3005	PPMP-162-GP03-GW-KG3005-REG	29-JAN-99	10:20	40 mL VOA Vial	3	HCl<pH 2	Volatiles by 8260B	N		
KG3005	PPMP-162-GP03-GW-KG3005-REG	29-JAN-99	10:20	1 L HDPE	1	NaOH>pH 12	CYANIDE BY 9010B	N		pH>12
KG3005	PPMP-162-GP03-GW-KG3005-REG	29-JAN-99	10:20	1 L HDPE	1	HNO3<pH 2	TAL Metals by 6010B/7470A - Water	N		pH<2
KG3005	PPMP-162-GP03-GW-KG3005-REG	29-JAN-99	10:20	1 L Amb. Glass	1	None except cool to 4 C	Semivolatiles by 8270C	N		
KG3005-MS	PPMP-162-GP03-GW-KG3005-MS-MS	29-JAN-99	10:20	40 mL VOA Vial	3	HCl<pH 2	Volatiles by 8260B	N		
KG3005-MS	PPMP-162-GP03-GW-KG3005-MS-MS	29-JAN-99	10:20	1 L HDPE	1	HNO3<pH 2	TAL Metals by 6010B/7470A - Water	N		pH<2
KG3005-MS	PPMP-162-GP03-GW-KG3005-MS-MS	29-JAN-99	10:20	1 L Amb. Glass	1	None except cool to 4 C	Semivolatiles by 8270C	N		
KG3005-MS	PPMP-162-GP03-GW-KG3005-MS-MS	29-JAN-99	10:20	1 L HDPE	1	NaOH>pH 12	CYANIDE BY 9010B	N		pH>12
KG3005-MS	PPMP-162-GP03-GW-KG3005-MSD-MS	29-JAN-99	10:20	40 mL VOA Vial	3	HCl<pH 2	Volatiles by 8260B	N		
KG3005-MS	PPMP-162-GP03-GW-KG3005-MSD-MS	29-JAN-99	10:20	1 L Amb. Glass	1	None except cool to 4 C	Semivolatiles by 8270C	N		
KG3005-MS	PPMP-162-GP03-GW-KG3005-MSD-MS	29-JAN-99	10:20	1 L HDPE	1	HNO3<pH 2	TAL Metals by 6010B/7470A - Water	N		pH<2
KG3005-MS	PPMP-162-GP03-GW-KG3005-MSD-MS	29-JAN-99	10:20	1 L HDPE	1	NaOH>pH 12	CYANIDE BY 9010B	N		pH>12

011

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INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 162-020399-QSK

Project Number: 774645

Project Name: Fort McClellan

Sample Coordinator: John W. Andrew

Turnaround Time: Normal

Samples Shipment Date: 04-FEB-99

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: 2/4/99 Time: 0830	1. Received By (Signature/Affiliation)	Date: 2-4-99 Time: 0830
2. Relinquished By (Signature/Affiliation)	Date: 2-4-99 Time: 1320	2. Received By (Signature/Affiliation)	Date: 2-4-99 Time: 13:20
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments:

Rec'd at 2°C, Custody Seals Intact
JW 2-4-99

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
020399-TB	FIELDQC-BW-020399-TB-TB	03-FEB-99	07:00	40 ml VOA Vial	3	HCl<pH 2	Volatiles by 8260B	N		
KG3001	PPMP-162-GP01-GW-KG3001-REG	03-FEB-99	13:40	40 mL VOA Vial	3	HCl<pH 2	Volatiles by 8260B	N		
KG3001	PPMP-162-GP01-GW-KG3001-REG	03-FEB-99	13:40	1 L Amb. Glass	1	None except cool to 4 C	Semivolatiles by 8270C	N		
KG3001	PPMP-162-GP01-GW-KG3001-REG	03-FEB-99	13:40	1 L HDPE	1	NaOH>pH 12	CYANIDE BY 9010B	N		pH>12
KG3001	PPMP-162-GP01-GW-KG3001-REG	03-FEB-99	13:40	1 L HDPE	1	HNO3<pH 2	TAL Metals by 6010B/7470A - Water	N		pH<2
KG3002	PPMP-162-GP01-GW-KG3002-FD	03-FEB-99	13:40	40 mL VOA Vial	3	HCl<pH 2	Volatiles by 8260B	N		
KG3002	PPMP-162-GP01-GW-KG3002-FD	03-FEB-99	13:40	1 L Amb. Glass	1	None except cool to 4 C	Semivolatiles by 8270C	N		
KG3002	PPMP-162-GP01-GW-KG3002-FD	03-FEB-99	13:40	1 L HDPE	1	HNO3<pH 2	TAL Metals by 6010B/7470A - Water	N		pH<2

0123

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 162-020399-QSK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program		Fil	CID	Condition On Receipt
KG3002	PPMP-162-GP01-GW-KG3002-FD	03-FEB-99	13:40	1 L HDPE	1	NaOH>pH 12	CYANIDE BY 9010B	pH>12	N		

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INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 162-011899-SADL
Page 1 of 1

Project Number: 77465
Project Name: Fort McClellan
Sample Coordinator: John W. Andrew
Turnaround Time: Normal

Samples Shipment Date: 18-JAN-99
Lab Destination: USACE South Atlantic Division Laboratory
Lab Contact: Blaise Willis
Project Contact: Randy McBride
Carrier/Waybill No.: Fed Ex/ 7916 7207 5998

Bill To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Report To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Special Instructions: None

Possible Hazard Identification:
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☑

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

1. Relinquished By (Signature/Affiliation) IT Corp	Date: 01/18/99 Time: 1430	1. Received By (Signature/Affiliation)	Date: Time:
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: None

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
KG0009	PPMP-162-GPC4-SS-KG0009-FS	18-JAN-99	09:35	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
KG0009	PPMP-162-GPC4-SS-KG0009-FS	18-JAN-99	09:35	8 oz CWM	1	None except cool to 4 C	CYANIDE BY 9010B, TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 162-020399-SADL

Project Number: 774645

Project Name: Fort McClellan

Sample Coordinator: John W. Andrew

Turnaround Time: NORMAL

Samples Shipment Date: 04-FEB-99

Lab Destination: USACE South Atlantic Division Laboratory

Lab Contact: Blaise Willis

Project Contact: Randy McBride

Carrier/Waybill No.: Fed Ex/7902 0020 4405

Bill To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Report To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Special Instructions: NONE

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) IT Corp	Date: 02/04/99 Time: 1430	1. Received By (Signature/Affiliation)	Date: Time:
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: NONE

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
020399-TB3	FIELDQC-BW-020399-TB3-TB	03-FEB-99	07:00	40 ml VOA Vial	3	HCl<pH 2	Volatiles by 8260B	N		
KG3003	PPMP-162-GP01-GW-KG3003-FS	03-FEB-99	13:40	40 mL VOA Vial	3	HCl<pH 2	Volatiles by 8260B	N		
KG3003	PPMP-162-GP01-GW-KG3003-FS	03-FEB-99	13:40	1 L Amb. Glass	1	None except cool to 4 C	Semivolatiles by 8270C	N		
KG3003	PPMP-162-GP01-GW-KG3003-FS	03-FEB-99	13:40	1 L HDPE	1	HNO3<pH 2	TAL Metals by 6010B/7470A - Water	N		
KG3003	PPMP-162-GP01-GW-KG3003-FS	03-FEB-99	13:40	1 L HDPE	1	NaOH>pH 12	CYANIDE BY 9010B	N		

APPENDIX B

BORING LOGS AND WELL LOGS

HTRW DRILLING LOG

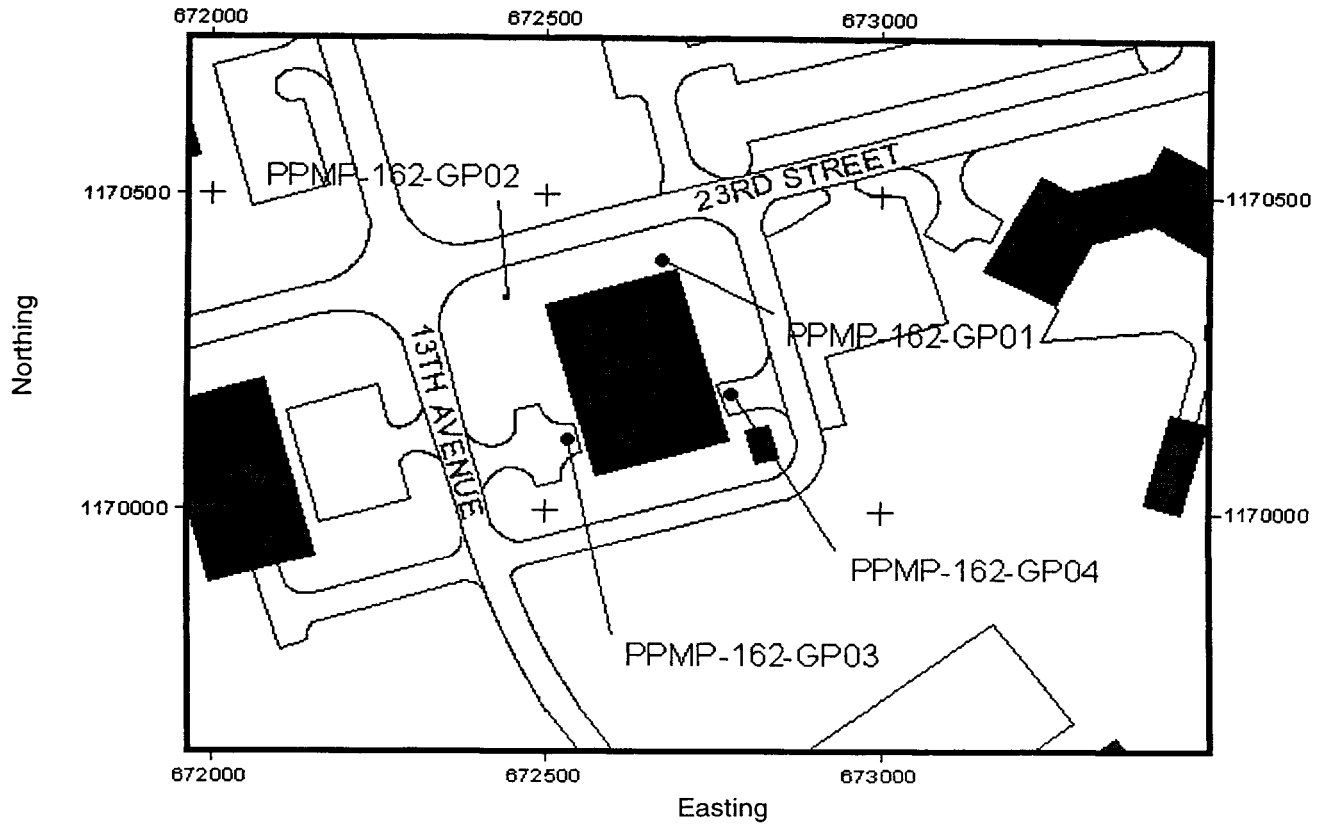
HOLE NUMBER PPMP-162-GP01

1. Company name: IT Corporation	2. Drill Subcontractor: TEG/ MILLER	Sheet 1 of 3 sheets

3. Project: Fort McClellan	4. Location: Printing Plant Building 3183
5. Name of driller: Sammy McDaniels/Ken Gobell	6. Mfr designation of drill: Geoprobe/CME-550
7. Sizes and types of drilling and sampling equipment: Direct Push, Hollow Stem Auger DP- 4' x 2" acetate-lined sampler HSA- 5' x 8.5"od augers, 2' x 2" steel split spoons	8. Hole location PPMP-162-GP01 9. Surface elevation: 806.36 10. Date started: 01/14/99 — 11. Date completed: 01/15/99
12. Overburden thickness: >15	15. Depth groundwater encountered: 10 Ft
13. Depth drilled into rock:	16. Depth to water and elapsed time after drilling completed:
14. Total depth of hole: 15	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	Cyanide		N/A
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	23. Signature of inspector:		
		Temp. well				

LOCATION SKETCH/COMMENTS:



HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: PPMP-162-GP01

Project: Fort McClellan | Geologist: J. MESSER, C. SHORT | Sheet 2 of 3 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: Brownish red, CLAY, some Silt, some Gravel, turning more red, decreasing medium grained Gravel at approximately 2.5'.			Organic Vapor = 0ppm		KG0001		rec 12"
805	1				Organic Vapor = 0ppm				rec 24"
	2								
	3				Organic Vapor = 0ppm				rec 21"
	4		cl						
	5								
800	6				Organic Vapor = 0ppm				rec 18"
	7								
		cl: CLAY, turning reddish gray with increasing Gravel.							
	8								
	9				Organic Vapor				rec 18"

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: PPMP-162-GP01

Project: Fort McClellan | Geologist: J. MESSER, C. SHORT | Sheet 3 of 3 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)
			cl		= 0ppm				
	10						KG0002		
	11								
795		cl: Cherty, CLAY, some Silt, wet.	cl						
	12	cl: CLAY, soft to stiff, wet, little Sand, coarse to fine, yellowish brown, mottled black, yellowish red, gray, plastic.							Direct push boring terminated at 12.0'.
	13								
			cl						
	14								
	15								Set well at 15.0'.

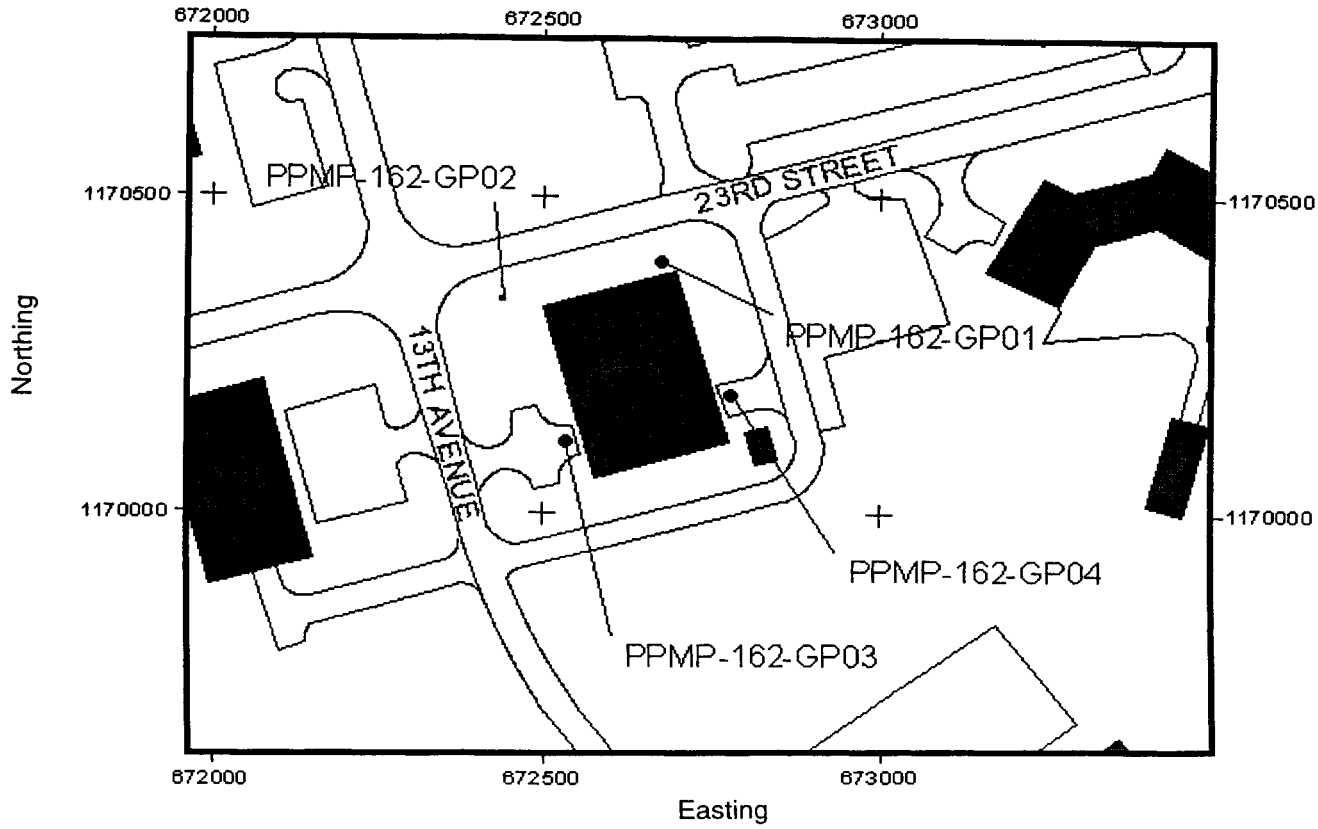
HTRW DRILLING LOG

HOLE NUMBER PPMP-162-GP02

1. Company name: IT Corporation	2. Drill Subcontractor: TEG/ MILLER	Sheet 1 of 3 sheets
3. Project: Fort McClellan	4. Location: Printing Plant building 3183	
5. Name of driller: Sammy McDaniels/Ken Gobell	6. Mfr designation of drill: Geoprobe/CME-550	
7. Sizes and types of drilling and sampling equipment: Direct Push, Hollow Stem Auger DP- 4' x 2" acetate-lined sampler HSA- 5'x8.5"od augers, 2' x 2" steel split spoons.	8. Hole location PPMP-162-GP02 9. Surface elevation: 804.27 10. Date started: 01/14/99	11. Date completed: 01/14/99
12. Overburden thickness: >15	15. Depth groundwater encountered:	
13. Depth drilled into rock:	16. Depth to water and elapsed time after drilling completed:	
14. Total depth of hole: 15	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	Cyanide		N/A
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	23. Signature of inspector:		
		Temp. well				

LOCATION SKETCH/COMMENTS:



HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: PPMP-162-GP02

Project: Fort McClellan | Geologist: J. MESSER, C. SHORT | Sheet 2 of 3 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: Red, CLAY, some Silt, turning mottled at approximately 7.5'.			Organic Vapor = 0ppm		KG0003		rec 12"
	1				Organic Vapor = 0ppm				rec 18"
	2								
	3				Organic Vapor = 0ppm				rec 28"
	4								
800									
	5								
	6		cl		Organic Vapor = 0ppm				rec 27"
	7								
	8								
	9				Organic Vapor				rec 34"
795									

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: PPMP-162-GP02

Project: Fort McClellan | Geologist: J. MESSER, C. SHORT | Sheet 3 of 3 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)
	10				= 1.1ppm		KG0004		
	11								
	12	cl: CLAY, stiff, moist, mottled yellowish brown reddish yellow, yellowish gray, traces dark red.	cl						Direct push boring terminated at 12.0'.
	13								
	14								
790	15								Augered to 15.0', set well at 15.0'.

HTRW DRILLING LOG

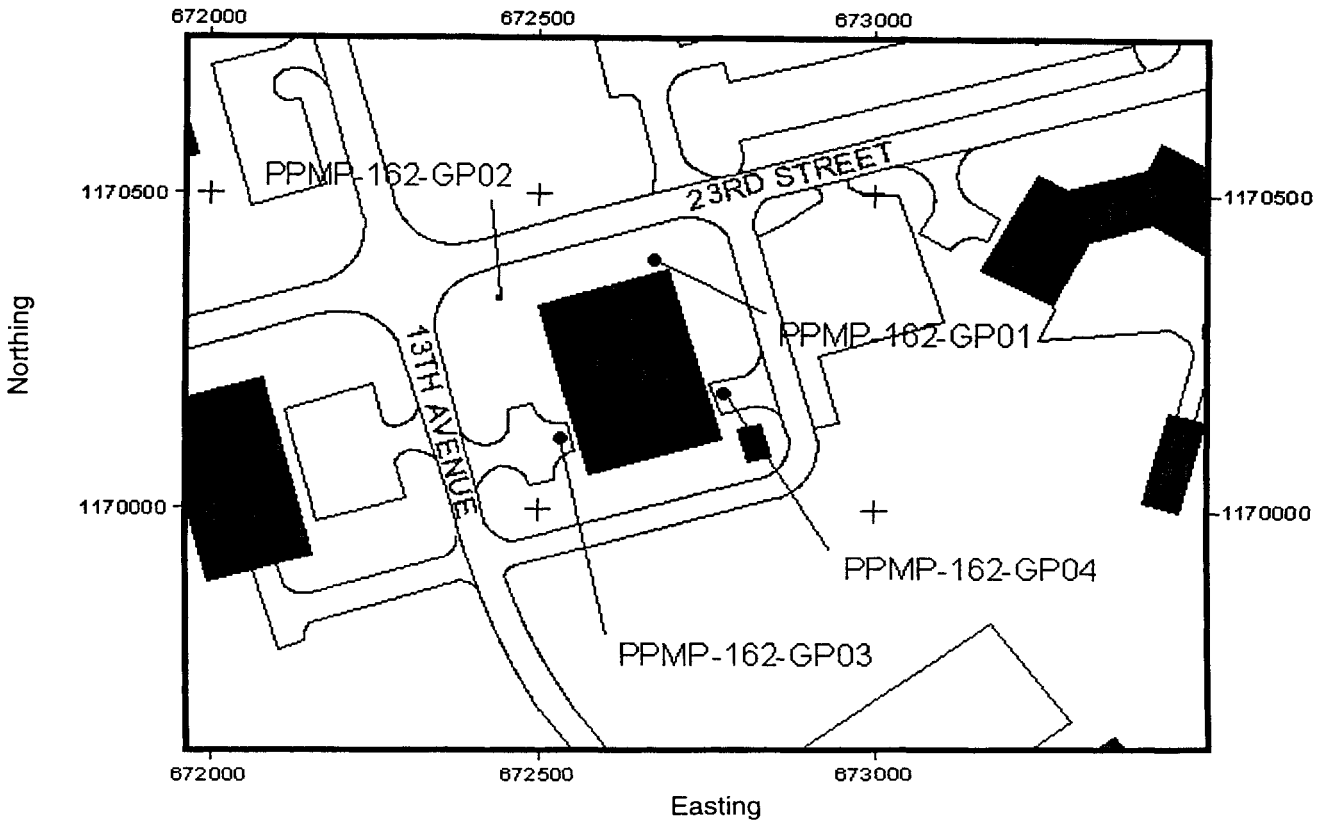
HOLE NUMBER PPMP-162-GP03

1. Company name: IT Corporation	2. Drill Subcontractor: TEG/ MILLER	Sheet 1 of 3 sheets

3. Project: Fort McClellan	4. Location: Printing Plant building 3183
5. Name of driller: Sammy McDaniels/Doug Bishop	6. Mfr designation of drill: Geoprobe/CME-75
7. Sizes and types of drilling and sampling equipment: Direct Push, Hollow Stem Auger DP- 4' x 2" acetate-lined sampler HSA- 5' x 8.5"od augers, 2'x2" steel split spoons.	8. Hole location PPMP-162-GP03 9. Surface elevation: 804.42 10. Date started: 01/14/99 — 11. Date completed: 01/14/99
12. Overburden thickness: 15.5	15. Depth groundwater encountered: 15.5 Ft
13. Depth drilled into rock: 0	16. Depth to water and elapsed time after drilling completed:
14. Total depth of hole: 15.5	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	Cyanide		N/A
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	23. Signature of inspector:		
		Temp. well				

LOCATION SKETCH/COMMENTS:



HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: PPMP-162-GP03

Project: Fort McClellan | Geologist: J. MESSER, S. HSU | Sheet 2 of 3 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: ASPHALT, roadbase.	cl		Organic Vapor = 0ppm				rec 12"
		cl: Red, CLAY, some Silt.					KG0005		
	1				Organic Vapor = 0ppm				rec 18"
	2								
	3				Organic Vapor = 0ppm				rec 30"
	4								
800									
	5								
	6		cl		Organic Vapor = 27.1ppm				rec 28"
	7						KG0006		
	8								
	9				Organic Vapor				

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: PPMP-162-GP03

Project: Fort McClellan | Geologist: J. MESSER, S. HSU | Sheet 3 of 3 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)
795					= 0ppm				
	10								10
	11								11
	12	ch: Orange CLAY, high plasticity, soft, some black mottled Clay, Chert bedrock was located directly below.							Direct push refusal at 12.0'. 12
	13								13
			ch						
	14								14
790									
	15								blow 15/2 rec 6", Bottom of borehole at 15.5' (auger refusal). 15

HTRW DRILLING LOG

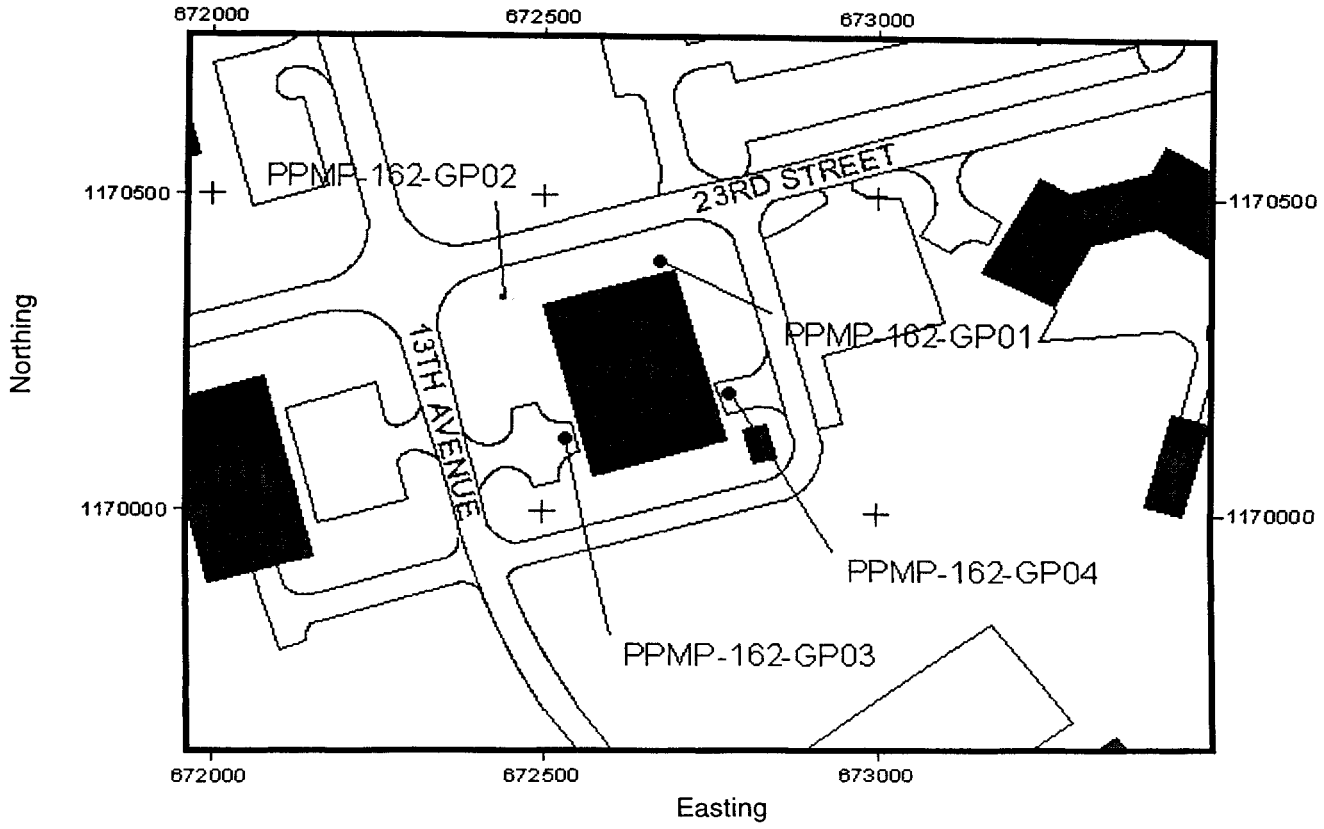
HOLE NUMBER PPMP-162-GP04

1. Company name: IT Corporation	2. Drill Subcontractor: TEG	Sheet 1 of 3 sheets

3. Project: Fort McClellan	4. Location: Printing Plant building 3183.
5. Name of driller: Sammy McDaniels	6. Mfr designation of drill: geoprobe.
7. Sizes and types of drilling and sampling equipment: Direct Push 4' x 2" acetate-lined sampler.	8. Hole location PPMP-162-GP04 9. Surface elevation: 805.11 10. Date started: 01/15/99 11. Date completed: 01/15/99
12. Overburden thickness: >12	15. Depth groundwater encountered:
13. Depth drilled into rock:	16. Depth to water and elapsed time after drilling completed:
14. Total depth of hole: 12	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	Cyanide		N/A
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	23. Signature of inspector:		
		Temp. well				

LOCATION SKETCH/COMMENTS:



HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: PPMP-162-GP04

Project: Fort McClellan | Geologist: J. MESSER | Sheet 2 of 3 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)
805	0	sp: Gray, SAND, some Gravel, some Silt.	sp		Organic Vapor = 98.5ppm		KG0007		rec 12"
	1				Organic Vapor = 0ppm				rec 23"
		cl: Brownish red CLAY, some Gravel, some Silt, turning red with decrease in Gravel.	cl						
	2								
	3				Organic Vapor = 0ppm				rec 28"
	4								
800	5								
	6				Organic Vapor = 0ppm				rec 30"
	7								
		cl: Reddish gray,CLAY, some Silt.							
	8								
	9				Organic Vapor				rec 24"

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: PPMP-162-GP04

Project: Fort McClellan

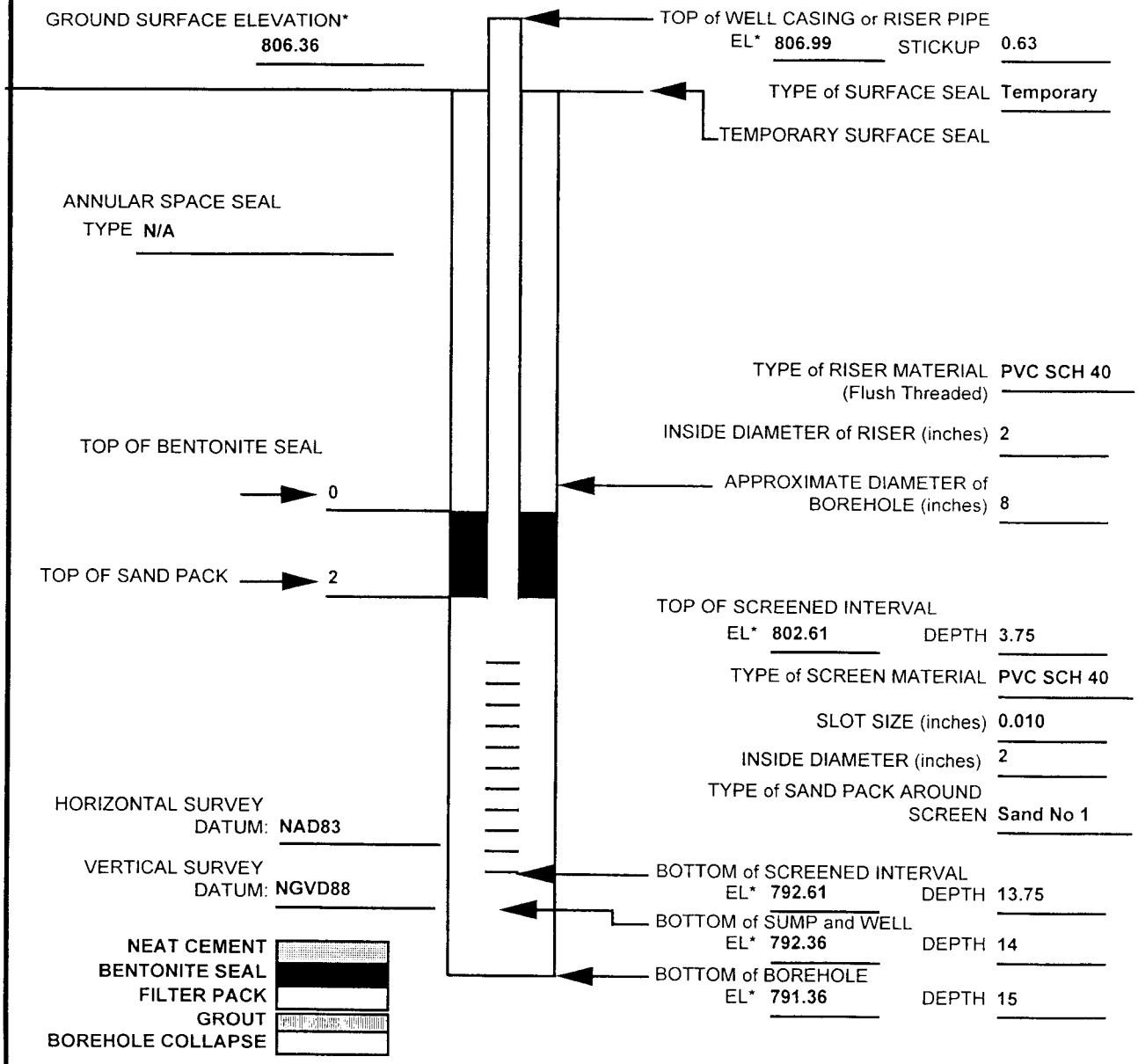
Geologist: J. MESSER

Sheet 3 of 3 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)
					= 0ppm				
			cl						
795	10								10
							KG0010		
	11								11
									Bottom of direct push borehole at 12.0'.
	12								12

MONITORING WELL INSTALLATION DETAIL

PROJECT: Fort McClellan, SAD TERC	WELL NO: PPMP-162-GP01
LOCATION Anniston, AL	DRILLING METHOD: Hollow Stem Auger
CLIENT: USACE Mobile District	INSTALLATION DATE 01/15/99
CONTRACTOR TEG / MILLER DRILLING	NORTHING: 1167263.09
DRILLER: K. GOBBLE	EASTING: 668098.45
IT FIELD REPRESENTATIVE: J. MESSER, C. SHORT	JOB NO: 774645A

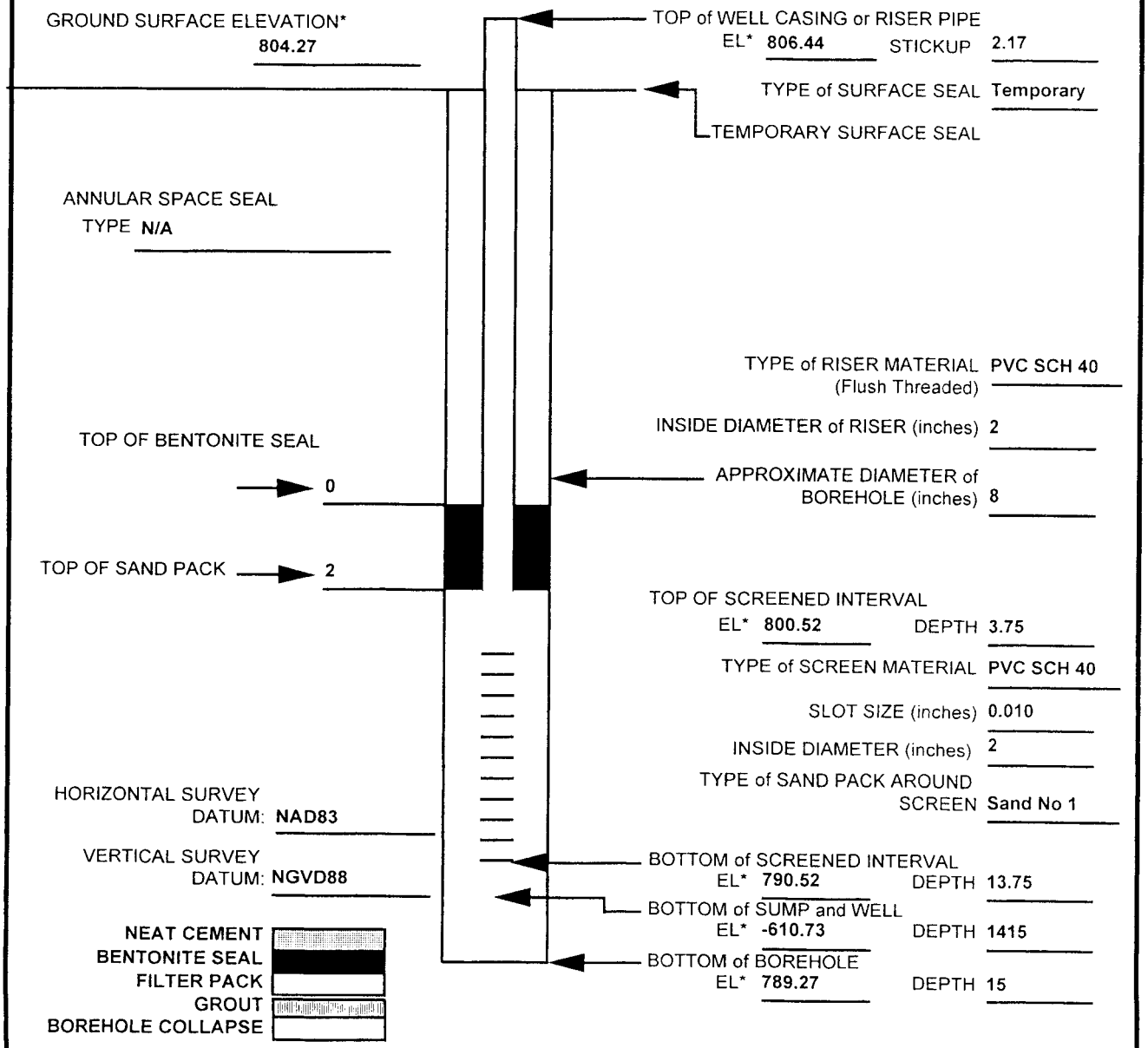


*All elevations (EL) are referenced to MSL.

All depths and heights are given in feet and are referenced to the ground surface.

MONITORING WELL INSTALLATION DETAIL

PROJECT: Fort McClellan, SAD TERC	WELL NO: PPMP-162-GP02
LOCATION Anniston, AL	DRILLING METHOD: Hollow Stem Auger
CLIENT: USACE Mobile District	INSTALLATION DATE 01/14/99
CONTRACTOR TEG / MILLER DRILLING	NORTHING: 1167231.97
DRILLER: K. GOBBLE	EASTING: 667980.68
IT FIELD REPRESENTATIVE: J. MESSER, C. SHORT	JOB NO: 774645A

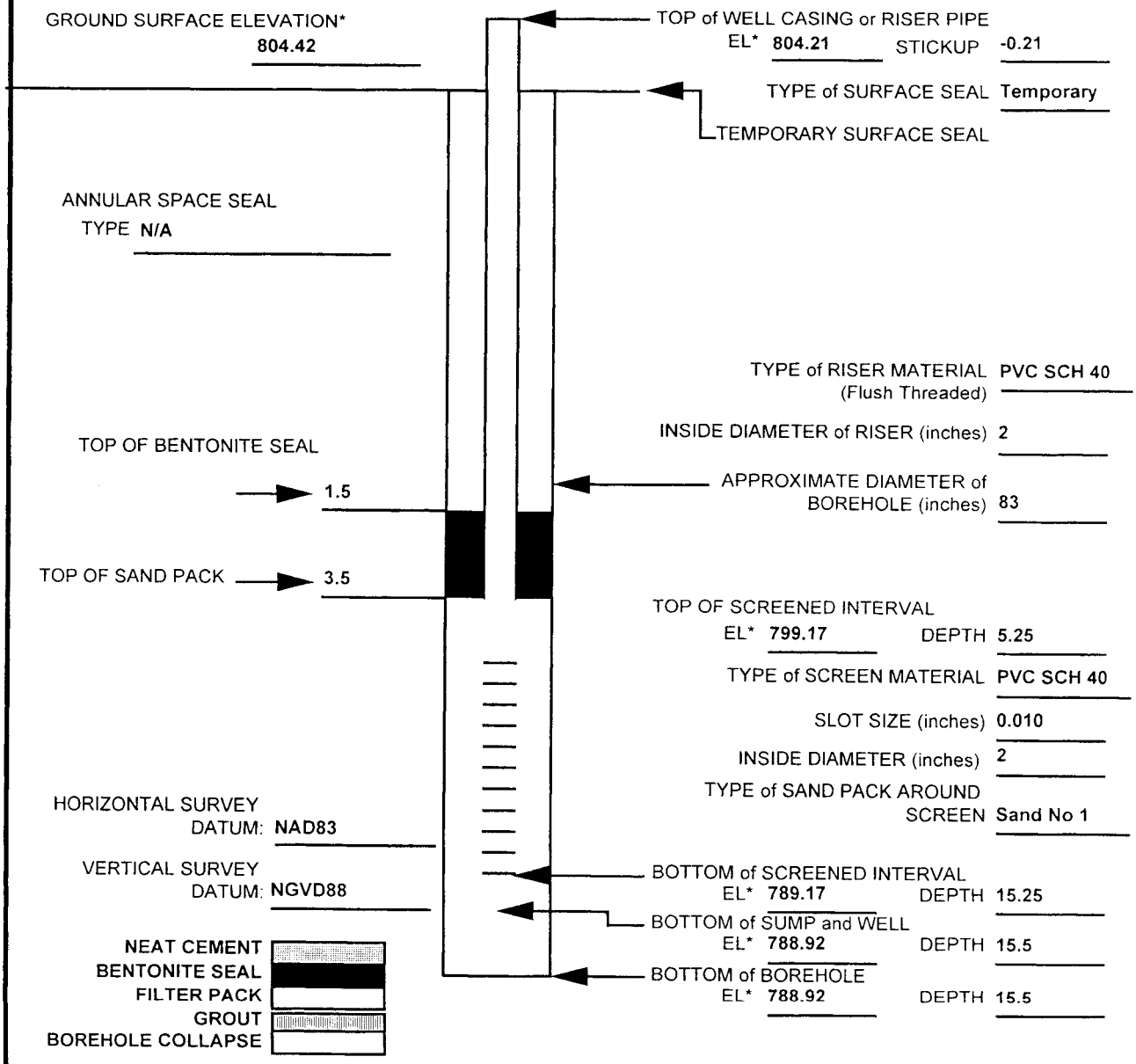


*All elevations (EL) are referenced to MSL.

All depths and heights are given in feet and are referenced to the ground surface.

MONITORING WELL INSTALLATION DETAIL

PROJECT: Fort McClellan, SAD TERC	WELL NO: PPMP-162-GP03
LOCATION Anniston, AL	DRILLING METHOD: Hollow Stem Auger
CLIENT: USACE Mobile District	INSTALLATION DATE 01/14/99
CONTRACTOR TEG / MILLER DRILLING	NORTHING: 1167118.66
DRILLER: D. BISHOP, E. LEE	EASTING: 668026.14
IT FIELD REPRESENTATIVE: J. mESSER, S. HSU	JOB NO: 774645A



*All elevations (EL) are referenced to MSL.

All depths and heights are given in feet and are referenced to the ground surface.

APPENDIX C

WELL DEVELOPMENT LOGS

Parcel 162
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: 774645 COST CODE: 01020300 DELIVERY ORDER CK05

SITE ID: LOCATION ID: PPMP 162-GP01 (Well Number) Static Water Level: 8.7 ft

Target Purge Volume: ____ gal WELL DEPTH: 15.2? (ft from TOC) Well Casing Diameter: (opt) 2" Recovery Depth: ____

Date 1998 1999	Time 24hr 1800	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mmhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
26 Jan	13:05	1.5	13.4	7.5	23.5	7.71	.325	999	3.07	N/A	W. Allen	Brown, muddy
	13:10	1.5	13.9	12.5	30.7	7.21	.357	999	1.85			" "
	13:15	1.5	Below pump	17.5	32.7	7.08	.398	999	4.89			" "
	13:17	1.5	Below pump	19.5	—	—	—	—	—			Stopped (well dry)
	14:40	.3	9.1	19.5	—	—	—	—	—			Restarted
	14:45	.3	9.44	21.0	30.8	7.08	.447	999	3.22			tan, cloudy
	14:48	.3	9.48	24.5	Stopped		pump	Clogged				
	15:00	.3	9.5	24.5	—	—	—	—	—			Restarted
	15:05	.3	10.25	26.0	32.4	7.24	.423	999	5.65			Brown, muddy
	15:10	.3	10.2	27.5	31.5	7.07	.431	999	6.05			" "
	15:15	.3	10.8	29	33.3	7.01	.453	999	3.70			" "

TOTAL H_2O Removed 49 gal

TOTAL Time: 4 hrs

Parcel 162
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: 774645 COST CODE: 01020300 DELIVERY ORDER CK05

SITE ID: LOCATION ID: PPMP-162-GP01 (Well Number) Static Water Level: 8.7 ft

Target Purge Volume: ____ gal WELL DEPTH: 15.2 (ft from TOC) Well Casing Diameter: (opt) 2" Recovery Depth: _____

Date 1998 1999	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
26 Jan	15:25	.3	Below pump	32	32.6	6.98	.409	999	2.63	N/A	W. Allen	tan, muddy
	15:26	.3	Below pump	32	—	—	—	—	—			stopped / well dry
	:											
	:											
	:											
	:											
	:											
	:											
	:											
	:											
	:											

3 = 4

Par... 162

Groundwater Well Development Log

Fort McClellan, Alabama

PROJECT: 774645 COST CODE: 01020300 DELIVERY ORDER CK05

SITE ID: LOCATION ID: PPMP-162-GP01 (Well Number) Static Water Level: 8.7 ft

Target Purge Volume: ____ gal WELL DEPTH: 15.4? (ft from TOC) Well Casing Diameter: (opt) 2" Recovery Depth: ____

Date 1998 1999	Time 24hr 0815	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
27 Jan	08:20	.3	10.5	1.5	29.7	10.00	.459	243	3.96	N/A	W. Allen	cloudy
	08:25	.3	10.72	3.0	—	—	—	—	—			change pumps
	08:30	1.0	resume	pumping	with	tubale	pump					restarted
	08:33	no	sample	taken.	well	dry						stopped / well dry
	09:25	new	pump	method	don't	waste,	sending	for			grundfos	restarted / stopped
	15:30	.2	8.7	6.0	—	—	—	—	—		—	restarted
	15:35	.2	10.2	7.0	32.5	8.91	.446	156	4.03			clearing
	15:40	.2	10.5	8.0	33.2	8.99	.443	150	6.54			" "
	15:45	.2	10.8	9.0	32.6	9.17	.433	114	9.07			" "
	15:55	.2	10.92	11	31.0	8.97	.421	118	6.51			" "
	16:05	.2	10.65	13	34.3	9.17	.432	197	5.61	—		" "

Parcel 162
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: 774645 COST CODE: 01020300 DELIVERY ORDER CK05

SITE ID: LOCATION ID: PPMP-162-GP01 (Well Number) Static Water Level: 8.7 ft

Target Purge Volume: ____ gal WELL DEPTH: 15.4 (ft from TOC) Well Casing Diameter: (opt) 2" Recovery Depth: _____

Date 1998 1999	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
22 Jan.	16:15	.2	11.65	15	34.7	9.13	.436	127	5.57	NA	W. Allen	clearing
	16:25	.2	11.22	17	31.9	9.20	.421	80	6.45			" "
	:											
	:											
	:											
	:											
	:											
	:											
	:											
	:											
	:											

Parcel 162
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: 774645 COST CODE: 01020300 DELIVERY ORDER CK05

SITE ID: **LOCATION ID:** PPMP-162-GP02 (Well Number) **Static Water Level:** 14.8 ft

Target Purge Volume: ____ gal WELL DEPTH: 18.4 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** _____

Date ~~1998~~ 1999	Time 24hr 0840	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
28 Jan.	09:45	1.0	Below pump	2.0	—	—	—	—	—	N/A	W Allen	Stopped / well dry
	09:50	1.0	15.8	2.0	—	—	—	—	—			restarted
	09:51	1.0	Below pump	3.0	—	—	—	—	—			Stopped / well dry
	11:30	—	16.8	3.0	only 2 ft. of recharge							
	:											
	:											
	:											
	:											
	:											
	:											
	:											

Parcel 162
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: 774645 COST CODE: 01020300 DELIVERY ORDER CK05

SITE ID: LOCATION ID: PPMP-162-GP03 (Well Number) Static Water Level: 3.9 ft

Target Purge Volume: ____ gal WELL DEPTH: 15.1 (ft from TOC) Well Casing Diameter: (opt) 2" Recovery Depth: _____

Date ~~1998~~ 1999	Time 24hr 1305	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
28 Jan	13:10	1.0	12.4	5	21.6	6.96	.761	999	1.94	N/A	W. Allen	orange, muddy
	13:13	1.0	Below pump	8	—	—	—	—	—			stopped/well dry
	14:55	.2	6.4	8	—	—	—	—	—			restarted
	15:00	.2	6.1	9	23.0	6.88	.572	999	0.94			orange, muddy
	15:05	.2	6.3	10	22.8	6.63	.571	986	9.67			orange, cloudy
	15:10	.2	6.15	11	23.3	6.30	.580	999	1.58			" "
	15:20	.2	6.4	13	25.5	6.02	.591	999	0.86			" "
	15:30	.2	7.0	15	25.6	6.51	.586	999	1.17			" "
	15:40	.3	8.55	18	25.5	6.37	.600	999	9.18			" "
	15:50	.3	8.75	21	23.6	6.28	.593	999	9.96			" "
	16:00	.3	8.5	24	24.1	6.69	.572	230	1.60	—		Cloudy

Parcel 162

Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: 774645 COST CODE: 01020300 DELIVERY ORDER CK05

SITE ID: **LOCATION ID:** PPMP-162-GP03 (Well Number) **Static Water Level:** 3.9 ft

Target Purge Volume: ____ gal WELL DEPTH: 15.1 (ft from TOC) Well Casing Diameter: (opt) 2" Recovery Depth: _____

Date ~~1996~~ 1999	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
28 Jan	16:10	.3	8.5	27	26.0	6.88	.575	107.5	8.46	N/A	W. Allen	cloudy
	16:20	.3	8.52	30	25.7	7.19	.579	79.1	8.53			" "
	16:30	.3	8.5	33	25.7	7.33	.582	77.3	8.38			" "
	:											
	:											
	:											
	:											
	:											
	:											
	:											
	:											

Parcel 162

Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: 774645 COST CODE: 01020300 DELIVERY ORDER CK05

SITE ID: LOCATION ID: PPMP-142-GP03 (Well Number) Static Water Level: 6.65 ft

Target Purge Volume: ____ gal WELL DEPTH: 15.1 (ft from TOC) Well Casing Diameter: (opt) 2" Recovery Depth: _____

Date ~~1998~~ 1999	Time 24hr 0730	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
29 Jan.	07:35	.3	8.49	1.5	20.2	6.97	.631	999	7.51	N/A	W. Allen	tan, cloudy
	07:40	.3	9.45	3.0	21.3	7.05	.633	999	6.90			" "
	07:45	.3	9.7	4.5	22.8	7.32	.627	760	7.03			" "
	07:50	.3	9.92	6.0	23.3	7.47	.621	423	7.01			cloudy
	08:00	.3	10.35	9	23.7	7.76	.601	145.2	7.12			clearing
	08:10	.3	10.35	12	23.8	8.11	.594	90.6	7.13			" "
	08:20	.3	10.35	15	23.8	8.35	.590	44.4	7.25			" "
	08:30	.3	10.27	18	24.7	8.75	.579	9.40	7.15			clear
	:											
	:											
	:											

TOTAL Volume 41 GAL

TOTAL Time: 4 hrs

APPENDIX D

SURVEY DATA

Appendix D

Survey Data
Printing Plant, Building 3183, Parcel 162(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Northing	Easting	Ground Elevation (ft msl)	Top of Casing Elevation (ft msl)
PPMP-162-GP01	1167263.09	668098.45	806.36	806.99
PPMP-162-GP02	1167231.97	667980.68	804.27	806.44
PPMP-162-GP03	1167118.66	668026.14	804.42	804.21
PPMP-162-GP04	1167154.66	668149.40	805.11	NA

Horizontal coordinates 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 sea level.
NA - Not available, temporary well not installed.

APPENDIX E

SUMMARY OF VALIDATED ANALYTICAL DATA

Summary of Valid[illegible] Surface Soil Data
Printing Plant, Building 3183 (Parcel 162)
Fort McClellan, Alabama

Report Date: 04/11/00

	Location Code:	PPMP-162-GP01			PPMP-162-GP02			PPMP-162-GP03			PPMP-162-GP04		
	Associated Site:	PPMP-162			PPMP-162			PPMP-162			PPMP-162		
	Sample No:	KG0001			KG0003			KG0005			KG0007		
	Sample Date:	14-JAN-99			14-JAN-99			14-JAN-99			18-JAN-99		
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*
CYANIDE													
SW9010_S													
Cyanide	mg/kg	0.60	U	U	0.61	U	U	0.62	U	U	0.59	U	U
METALS-S													
SW6010_S													
Aluminum	mg/kg	10100			13600			14000			3960		
Antimony	mg/kg	7.2	U	UJ	7.3	U	UJ	7.5	U	UJ	7.1	U	U
Arsenic	mg/kg	10.3			26.5			17.0			2.0		
Barium	mg/kg	50.7			41.9			39.9			19.0	B	J
Beryllium	mg/kg	0.80			0.70			1.1			0.14	B	B
Cadmium	mg/kg	0.60	U	U	0.61	U	U	0.40	B	J	0.59	U	U
Calcium	mg/kg	2700			1460			4120			9080		
Chromium	mg/kg	19.2		J	30.0		J	32.9		J	18.9		
Cobalt	mg/kg	6.0	U	UJ	6.1	U	UJ	6.3		J	3.6	B	J
Copper	mg/kg	22.4			23.0			32.8			6.3		
Iron	mg/kg	29300			49900			37000			7220		
Lead	mg/kg	19.0			26.3			24.6			108		J
Magnesium	mg/kg	985			855			2360			3360		
Manganese	mg/kg	172		J	560		J	160		J	60.1		
Nickel	mg/kg	13.2			14.7			39.9		J	6.3		J
Potassium	mg/kg	422	B	J	488	B	J	669			215	B	J
Selenium	mg/kg	1.3			2.8			1.2			0.59	U	U
Silver	mg/kg	1.6			3.1			2.6			1.2	U	U
Sodium	mg/kg	55.7	B	B	66.5	B	B	85.9	B	B	41.2	B	B
Thallium	mg/kg	1.2	U	U	1.2	U	U	0.94	B	J	1.2	U	U
Vanadium	mg/kg	15.4			23.0			22.1			11.0		
Zinc	mg/kg	47.6		J	51.3		J	78.3		J	29.9		
SW7471_S													
Mercury	mg/kg	0.082			0.081			0.27			0.054		

Summary of Validated Surface Soil Data
Printing Plant, Building 3183 (Parcel 162)
Fort McClellan, Alabama

Report Date: 04/11/00

Location Code:	PPMP-162-GP04			
Associated Site:	PPMP-162			
Sample No:	KG0008			
Sample Date:	18-JAN-99			
Sample Depth:	0 - 1			
User Test Group / Lab Method / Parameter	*Units*	*Result*	*Qual*	*VQual*
CYANIDE				
SW9010_S				
Cyanide	mg/kg	0.60	U	U
METALS-S				
SW6010_S				
Aluminum	mg/kg	4290		
Antimony	mg/kg	7.2	U	U
Arsenic	mg/kg	1.9		
Barium	mg/kg	16.6	B	J
Beryllium	mg/kg	0.12	B	B
Cadmium	mg/kg	0.60	U	U
Calcium	mg/kg	6900		
Chromium	mg/kg	11.6		
Cobalt	mg/kg	3.6	B	J
Copper	mg/kg	5.4		
Iron	mg/kg	7250		
Lead	mg/kg	21.1		J
Magnesium	mg/kg	2320		
Manganese	mg/kg	49.9		
Nickel	mg/kg	2.4	B	J
Potassium	mg/kg	218	B	J
Selenium	mg/kg	0.60	U	U
Silver	mg/kg	0.68	B	J
Sodium	mg/kg	33.6	B	B
Thallium	mg/kg	1.2	U	U
Vanadium	mg/kg	11.3		
Zinc	mg/kg	23.1		
SW7471_S				
Mercury	mg/kg	0.034	B	J

	Location Code:	PPMP-162-GP01			PPMP-162-GP02			PPMP-162-GP03			PPMP-162-GP04		
	Associated Site:	PPMP-162			PPMP-162			PPMP-162			PPMP-162		
	Sample No:	KG0001			KG0003			KG0005			KG0007		
	Sample Date:	14-JAN-99			14-JAN-99			14-JAN-99			18-JAN-99		
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*
MOISTURE													
D2216_S													
% Moisture													
SEMIVOLATILES													
SW8270_S													
1,2,4-Trichlorobenzene	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
1,2-Dichlorobenzene	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
1,3-Dichlorobenzene	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
1,4-Dichlorobenzene	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
2,4,5-Trichlorophenol	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
2,4,6-Trichlorophenol	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
2,4-Dichlorophenol	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
2,4-Dimethylphenol	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
2,4-Dinitrophenol	mg/kg	1.9	U	UJ	2	U	UJ	2	U	U	7.6	U	UJ
2,4-Dinitrotoluene	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
2,6-Dinitrotoluene	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
2-Chloronaphthalene	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
2-Chlorophenol	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
2-Methylnaphthalene	mg/kg	.4	U	U	.4	U	U	.68			.3	J	J
2-Methylphenol	mg/kg	.4	U	UJ	.4	U	UJ	.41	U	U	1.6	U	U
2-Nitroaniline	mg/kg	1.9	U	U	2	U	U	2	U	U	7.6	U	U
2-Nitrophenol	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
3,3'-Dichlorobenzidine	mg/kg	1.9	U	U	2	U	U	2	U	U	7.6	U	U
3-Nitroaniline	mg/kg	1.9	U	U	2	U	U	2	U	U	7.6	U	U
4,6-Dinitro-2-methylphenol	mg/kg	1.9	U	U	2	U	U	2	U	U	7.6	U	UJ
4-Bromophenyl phenyl ether	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
4-Chloro-3-methylphenol	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
4-Chloroaniline	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
4-Chlorophenyl phenyl ether	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
4-Methylphenol	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
4-Nitroaniline	mg/kg	1.9	U	U	2	U	U	2	U	U	7.6	U	U
4-Nitrophenol	mg/kg	1.9	U	U	2	U	U	2	U	U	7.6	U	U

Location Code:	PPMP-162-GP04			
Associated Site:	PPMP-162			
Sample No:	KG0008			
Sample Date:	18-JAN-99			
Sample Depth:	0 - 1			
User Test Group / Lab Method / Parameter	*Units*	*Result*	*Qual*	*VQual*
MOISTURE				
D2216_S				
% Moisture				
SEMIVOLATILES				
SW8270_S				
1,2,4-Trichlorobenzene	mg/kg	1.6	U	U
1,2-Dichlorobenzene	mg/kg	1.6	U	U
1,3-Dichlorobenzene	mg/kg	1.6	U	U
1,4-Dichlorobenzene	mg/kg	1.6	U	U
2,4,5-Trichlorophenol	mg/kg	1.6	U	U
2,4,6-Trichlorophenol	mg/kg	1.6	U	U
2,4-Dichlorophenol	mg/kg	1.6	U	U
2,4-Dimethylphenol	mg/kg	1.6	U	U
2,4-Dinitrophenol	mg/kg	7.7	U	UJ
2,4-Dinitrotoluene	mg/kg	1.6	U	U
2,6-Dinitrotoluene	mg/kg	1.6	U	U
2-Chloronaphthalene	mg/kg	1.6	U	U
2-Chlorophenol	mg/kg	1.6	U	U
2-Methylnaphthalene	mg/kg	.49	J	J
2-Methylphenol	mg/kg	1.6	U	U
2-Nitroaniline	mg/kg	7.7	U	U
2-Nitrophenol	mg/kg	1.6	U	U
3,3'-Dichlorobenzidine	mg/kg	7.7	U	U
3-Nitroaniline	mg/kg	7.7	U	U
4,6-Dinitro-2-methylphenol	mg/kg	7.7	U	UJ
4-Bromophenyl phenyl ether	mg/kg	1.6	U	U
4-Chloro-3-methylphenol	mg/kg	1.6	U	U
4-Chloroaniline	mg/kg	1.6	U	U
4-Chlorophenyl phenyl ether	mg/kg	1.6	U	U
4-Methylphenol	mg/kg	1.6	U	U
4-Nitroaniline	mg/kg	7.7	U	U
4-Nitrophenol	mg/kg	7.7	U	U

Summary of Validated Surface Soil Data
Printing Plant, Building 3183 (Parcel 162)
Fort McClellan, Alabama

Report Date: 04/11/00

	Location Code:	PPMP-162-GP01			PPMP-162-GP02			PPMP-162-GP03			PPMP-162-GP04		
	Associated Site:	PPMP-162			PPMP-162			PPMP-162			PPMP-162		
	Sample No:	KG0001			KG0003			KG0005			KG0007		
	Sample Date:	14-JAN-99			14-JAN-99			14-JAN-99			18-JAN-99		
User Test Group / Lab Method	Sample Depth:	0 - 1			0 - 1			0 - 1			0 - 1		
Parameter	Units	Result	Qual	VQual	Result	Qual	VQual	Result	Qual	VQual	Result	Qual	VQual
SEMIVOLATILES													
SW8270_S													
Acenaphthene	mg/kg	.4	U	U	.4	U	U	.36	J	J	1.6	U	U
Acenaphthylene	mg/kg	.4	U	U	.4	U	U	.28	J	J	1.6	U	U
Anthracene	mg/kg	.044	J	J	.041	J	J	.89			1.6	U	U
Benzo(a)anthracene	mg/kg	.11	J	J	.11	J	J	.7			1.6	U	U
Benzo(a)pyrene	mg/kg	.084	J	J	.11	J	J	.5			1.6	U	U
Benzo(b)fluoranthene	mg/kg	.1	J	J	.13	J	J	.4	J	J	.23	J	J
Benzo(ghi)perylene	mg/kg	.049	J	J	.059	J	J	.26	J	J	1.6	U	U
Benzo(k)fluoranthene	mg/kg	.069	J	J	.096	J	J	.43			1.6	U	U
Butyl benzyl phthalate	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
Carbazole	mg/kg	.4	U	U	.041	J	J	.24	J	J	1.6	U	U
Chrysene	mg/kg	.11	J	J	.12	J	J	.63			.19	J	J
Di-n-butyl phthalate	mg/kg	.09	J B	B	.083	J B	B	.076	J B	B	1.6	U	U
Di-n-octyl phthalate	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
Dibenz(a,h)anthracene	mg/kg	.4	U	U	.4	U	U	.13	J	J	1.6	U	U
Dibenzofuran	mg/kg	.4	U	U	.4	U	U	.46			1.6	U	U
Diethyl phthalate	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
Dimethyl phthalate	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
Fluoranthene	mg/kg	.26	J	J	.28	J	J	1.8			.36	J	J
Fluorene	mg/kg	.4	U	U	.4	U	U	1			1.6	U	U
Hexachlorobenzene	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
Hexachlorobutadiene	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
Hexachlorocyclopentadiene	mg/kg	1.9	U	UJ	2	U	UJ	2	U	UJ	7.6	U	U
Hexachloroethane	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
Indeno(1,2,3-cd)pyrene	mg/kg	.047	J	J	.058	J	J	.24	J	J	1.6	U	U
Isophorone	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
Naphthalene	mg/kg	.4	U	U	.4	U	U	.27	J	J	1.2	J	J
Nitrobenzene	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
Pentachlorophenol	mg/kg	1.9	U	U	2	U	U	2	U	U	1.6	U	U
Phenanthrene	mg/kg	.21	J	J	.18	J	J	3.4			1.6	U	U
Phenol	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
Pyrene	mg/kg	.23	J	J	.23	J	J	1.6			.4	J	J

Summary of Validated Surface Soil Data
Printing Plant, Building 3183 (Parcel 162)
Fort McClellan, Alabama

Report Date: 04/11/00

Location Code:	PPMP-162-GP04			
Associated Site:	PPMP-162			
Sample No:	KG0008			
Sample Date:	18-JAN-99			
Sample Depth:	0 - 1			
User Test Group / *Lab Method* / *Parameter*	*Units*	*Result*	*Qual*	*VQual*
SEMIVOLATILES				
SW8270_S				
Acenaphthene	mg/kg	1.6	U	U
Acenaphthylene	mg/kg	1.6	U	U
Anthracene	mg/kg	1.6	U	U
Benzo(a)anthracene	mg/kg	.22	J	J
Benzo(a)pyrene	mg/kg	1.6	U	U
Benzo(b)fluoranthene	mg/kg	1.6	U	U
Benzo(ghi)perylene	mg/kg	1.6	U	U
Benzo(k)fluoranthene	mg/kg	1.6	U	U
Butyl benzyl phthalate	mg/kg	1.6	U	U
Carbazole	mg/kg	1.6	U	U
Chrysene	mg/kg	.3	J	J
Di-n-butyl phthalate	mg/kg	1.6	U	U
Di-n-octyl phthalate	mg/kg	1.6	U	U
Dibenz(a,h)anthracene	mg/kg	1.6	U	U
Dibenzofuran	mg/kg	1.6	U	U
Diethyl phthalate	mg/kg	1.6	U	U
Dimethyl phthalate	mg/kg	1.6	U	U
Fluoranthene	mg/kg	.62	J	J
Fluorene	mg/kg	1.6	U	U
Hexachlorobenzene	mg/kg	1.6	U	U
Hexachlorobutadiene	mg/kg	1.6	U	U
Hexachlorocyclopentadiene	mg/kg	7.7	U	U
Hexachloroethane	mg/kg	1.6	U	U
Indeno(1,2,3-cd)pyrene	mg/kg	1.6	U	U
Isophorone	mg/kg	1.6	U	U
Naphthalene	mg/kg	1.9		
Nitrobenzene	mg/kg	1.6	U	U
Pentachlorophenol	mg/kg	1.6	U	U
Phenanthrene	mg/kg	.2	J	J
Phenol	mg/kg	1.6	U	U
Pyrene	mg/kg	.59	J	J

	Location Code:	PPMP-162-GP01			PPMP-162-GP02			PPMP-162-GP03			PPMP-162-GP04		
	Associated Site:	PPMP-162			PPMP-162			PPMP-162			PPMP-162		
	Sample No:	KG0001			KG0003			KG0005			KG0007		
	Sample Date:	14-JAN-99			14-JAN-99			14-JAN-99			18-JAN-99		
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													
bis(2-Chloroethoxy)methane	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
bis(2-Chloroethyl)ether	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
bis(2-Chloroisopropyl)ether	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
bis(2-Ethylhexyl)phthalate	mg/kg	.083	J B	B	.067	J B	B	.074	J B	B	1.6	U	U
n-Nitroso-di-n-propylamine	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
n-Nitrosodiphenylamine	mg/kg	.4	U	U	.4	U	U	.41	U	U	1.6	U	U
VOLATILES													
SW8260_S													
1,1,1,2-Tetrachloroethane	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U
1,1,1-Trichloroethane	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U
1,1,2,2-Tetrachloroethane	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U
1,1,2-Trichloroethane	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U
1,1-Dichloroethane	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U
1,1-Dichloroethene	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U
1,1-Dichloropropene	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U
1,2,3-Trichlorobenzene	mg/kg	.006	U	UJ	.0061	U	UJ	.0062	U	UJ	.0059	U	UJ
1,2,3-Trichloropropane	mg/kg	.006	U	U	.0061	U	UJ	.0062	U	U	.0059	U	U
1,2,4-Trichlorobenzene	mg/kg	.006	U	UJ	.0061	U	UJ	.0062	U	UJ	.0059	U	UJ
1,2,4-Trimethylbenzene	mg/kg	.006	U	U	.0061	U	UJ	.0062	U	U	.14		J
1,2-Dibromo-3-Chloropropane	mg/kg	.012	U	R	.012	U	R	.012	U	R	.012	U	R
1,2-Dibromoethane	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U
1,2-Dichlorobenzene	mg/kg	.006	U	U	.0061	U	UJ	.0062	U	U	.0059	U	U
1,2-Dichloroethane	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U
1,2-Dichloropropane	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U
1,2-Dimethylbenzene	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U
1,3,5-Trimethylbenzene	mg/kg	.006	U	U	.0061	U	UJ	.0062	U	U	.0059	U	U
1,3-Dichlorobenzene	mg/kg	.006	U	U	.0061	U	UJ	.0062	U	U	.0059	U	U
1,3-Dichloropropane	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U
1,4-Dichlorobenzene	mg/kg	.006	U	U	.0061	U	UJ	.0062	U	U	.0059	U	U
2-Butanone	mg/kg	.024	U	R	.024	U	R	.025	U	R	.0077	J	J

Location Code:	PPMP-162-GP04			
Associated Site:	PPMP-162			
Sample No:	KG0008			
Sample Date:	18-JAN-99			
Sample Depth:	0 - 1			
User Test Group / Lab Method / Parameter	*Units*	*Result*	*Qual*	*VQual*
SEMIVOLATILES				
SW8270_S				
bis(2-Chloroethoxy)methane	mg/kg	1.6	U	U
bis(2-Chloroethyl)ether	mg/kg	1.6	U	U
bis(2-Chloroisopropyl)ether	mg/kg	1.6	U	U
bis(2-Ethylhexyl)phthalate	mg/kg	1.6	U	U
n-Nitroso-di-n-propylamine	mg/kg	1.6	U	U
n-Nitrosodiphenylamine	mg/kg	1.6	U	U
VOLATILES				
SW8260_S				
1,1,1,2-Tetrachloroethane	mg/kg	.006	U	U
1,1,1-Trichloroethane	mg/kg	.006	U	U
1,1,2,2-Tetrachloroethane	mg/kg	.006	U	U
1,1,2-Trichloroethane	mg/kg	.006	U	U
1,1-Dichloroethane	mg/kg	.006	U	U
1,1-Dichloroethene	mg/kg	.006	U	U
1,1-Dichloropropene	mg/kg	.006	U	U
1,2,3-Trichlorobenzene	mg/kg	.006	U	UJ
1,2,3-Trichloropropane	mg/kg	.006	U	U
1,2,4-Trichlorobenzene	mg/kg	.006	U	UJ
1,2,4-Trimethylbenzene	mg/kg	4.6	D	
1,2-Dibromo-3-Chloropropane	mg/kg	.012	U	R
1,2-Dibromoethane	mg/kg	.006	U	U
1,2-Dichlorobenzene	mg/kg	.006	U	U
1,2-Dichloroethane	mg/kg	.006	U	U
1,2-Dichloropropane	mg/kg	.006	U	U
1,2-Dimethylbenzene	mg/kg	.006	U	U
1,3,5-Trimethylbenzene	mg/kg	.006	U	U
1,3-Dichlorobenzene	mg/kg	.006	U	U
1,3-Dichloropropane	mg/kg	.006	U	U
1,4-Dichlorobenzene	mg/kg	.006	U	U
2-[illegible]anone	mg/kg	.0055	J	

	Location Code:	PPMP-162-GP01			PPMP-162-GP02			PPMP-162-GP03			PPMP-162-GP04		
	Associated Site:	PPMP-162			PPMP-162			PPMP-162			PPMP-162		
	Sample No:	KG0001			KG0003			KG0005			KG0007		
	Sample Date:	14-JAN-99			14-JAN-99			14-JAN-99			18-JAN-99		
User Test Group / Lab Method	Sample Depth:	0 - 1			0 - 1			0 - 1			0 - 1		
Parameter	Units	Result	Qual	VQual	Result	Qual	VQual	Result	Qual	VQual	Result	Qual	VQual
VOLATILES													
SW8260_S													
2-Hexanone	mg/kg	.024	U	U	.024	U	U	.025	U	U	.024	U	U
4-Methyl-2-pentanone	mg/kg	.024	U	U	.024	U	U	.025	U	U	.024	U	U
Acetone	mg/kg	.0083	J B	B	.019	J B	B	.0089	J	B	.064	B	B
Benzene	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.02		J
Bromobenzene	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U
Bromochloromethane	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U
Bromodichloromethane	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U
Bromoform	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U
Bromomethane	mg/kg	.005	J B	B	.0038	J B	B	.0016	J B	B	.0021	J B	B
Carbon disulfide	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U
Carbon tetrachloride	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U
Chlorobenzene	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U
Chloroethane	mg/kg	.012	U	U	.012	U	U	.012	U	U	.012	U	U
Chloroform	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U
Chloromethane	mg/kg	.012	U	U	.012	U	U	.012	U	U	.012	U	U
Cumene	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.02		J
Dibromochloromethane	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U
Dibromomethane	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U
Dichlorodifluoromethane	mg/kg	.012	U	U	.012	U	U	.012	U	U	.012	U	UJ
Ethylbenzene	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.032		J
Hexachlorobutadiene	mg/kg	.006	U	U	.0061	U	UJ	.0062	U	U	.0059	U	U
Methylene chloride	mg/kg	.0041	J B	B	.0034	J B	B	.0033	J B	B	.0048	J B	B
Naphthalene	mg/kg	.006	U	UJ	.0061	U	UJ	.019		J	.18		J
Styrene	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U
Tetrachloroethene	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U
Toluene	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U
Trichloroethene	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U
Trichlorofluoromethane	mg/kg	.0032	J	J	.012	U	U	.012	U	U	.012	U	U
Vinyl chloride	mg/kg	.012	U	U	.012	U	U	.012	U	U	.012	U	U
cis-1,2-Dichloroethene	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U
cis-1,3-Dichloropropene	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U

Location Code:	PPMP-162-GP04			
Associated Site:	PPMP-162			
Sample No:	KG0008			
Sample Date:	18-JAN-99			
Sample Depth:	0 - 1			
User Test Group / Lab Method / Parameter	*Units*	*Result*	*Qual*	*VQual*
VOLATILES				
SW8260_S				
2-Hexanone	mg/kg	.024	U	U
4-Methyl-2-pentanone	mg/kg	.024	U	U
Acetone	mg/kg	.068	B	J
Benzene	mg/kg	.024		J
Bromobenzene	mg/kg	.006	U	U
Bromochloromethane	mg/kg	.006	U	U
Bromodichloromethane	mg/kg	.006	U	U
Bromoform	mg/kg	.006	U	U
Bromomethane	mg/kg	.0018	J B	B
Carbon disulfide	mg/kg	.006	U	U
Carbon tetrachloride	mg/kg	.006	U	U
Chlorobenzene	mg/kg	.006	U	U
Chloroethane	mg/kg	.012	U	U
Chloroform	mg/kg	.006	U	U
Chloromethane	mg/kg	.012	U	U
Cumene	mg/kg	.037		J
Dibromochloromethane	mg/kg	.006	U	U
Dibromomethane	mg/kg	.006	U	U
Dichlorodifluoromethane	mg/kg	.012	U	UJ
Ethylbenzene	mg/kg	.054		J
Hexachlorobutadiene	mg/kg	.006	U	U
Methylene chloride	mg/kg	.0043	J B	B
Naphthalene	mg/kg	4.7	D	J
Styrene	mg/kg	.006	U	U
Tetrachloroethene	mg/kg	.006	U	U
Toluene	mg/kg	.006	U	U
Trichloroethene	mg/kg	.006	U	U
Trichlorofluoromethane	mg/kg	.012	U	U
Vinyl chloride	mg/kg	.012	U	U
cis-1,2-Dichloroethene	mg/kg	.006	U	U
cis-1,3-Dichloropropene	mg/kg	.006	U	U

	Location Code:	PPMP-162-GP01			PPMP-162-GP02			PPMP-162-GP03			PPMP-162-GP04		
	Associated Site:	PPMP-162			PPMP-162			PPMP-162			PPMP-162		
	Sample No:	KG0001			KG0003			KG0005			KG0007		
	Sample Date:	14-JAN-99			14-JAN-99			14-JAN-99			18-JAN-99		
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													
m,p-Xylenes	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0047	J	J
n-Butylbenzene	mg/kg	.006	U	U	.0061	U	UJ	.0062	U	U	.032		J
n-Propylbenzene	mg/kg	.006	U	U	.0061	U	UJ	.0062	U	U	.046		J
o-Chlorotoluene	mg/kg	.006	U	U	.0061	U	UJ	.0062	U	U	.0059	U	U
p-Chlorotoluene	mg/kg	.006	U	U	.0061	U	UJ	.0062	U	U	.0059	U	U
p-Cymene	mg/kg	.006	U	U	.0061	U	UJ	.0062	U	U	.024		J
sec-Butylbenzene	mg/kg	.006	U	U	.0061	U	UJ	.0062	U	U	.035		J
sec-Dichloropropane	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U
tert-Butylbenzene	mg/kg	.006	U	U	.0061	U	UJ	.0062	U	U	.0059	U	U
trans-1,2-Dichloroethene	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U
trans-1,3-Dichloropropene	mg/kg	.006	U	U	.0061	U	U	.0062	U	U	.0059	U	U

Location Code:	PPMP-162-GP04			
Associated Site:	PPMP-162			
Sample No:	KG0008			
Sample Date:	18-JAN-99			
Sample Depth:	0 - 1			
User Test Group / Lab Method / Parameter	*Units*	*Result*	*Qual*	*VQual*
VOLATILES				
SW8260_S				
m,p-Xylenes	mg/kg	.0098		J
n-Butylbenzene	mg/kg	.091		J
n-Propylbenzene	mg/kg	.099		J
o-Chlorotoluene	mg/kg	.006	U	U
p-Chlorotoluene	mg/kg	.006	U	U
p-Cymene	mg/kg	.07		J
sec-Butylbenzene	mg/kg	.082		J
sec-Dichloropropane	mg/kg	.006	U	U
tert-Butylbenzene	mg/kg	.006	U	U
trans-1,2-Dichloroethene	mg/kg	.006	U	U
trans-1,3-Dichloropropene	mg/kg	.006	U	U

Summary of Valida. Subsurface Soil Data
Printing Plant, Building 3183 (Parcel 162)
Fort McClellan, Alabama

Report Date: 04/11/00

	Location Code:	PPMP-162-GP01			PPMP-162-GP02			PPMP-162-GP03			PPMP-162-GP04		
	Associated Site:	PPMP-162			PPMP-162			PPMP-162			PPMP-162		
	Sample No:	KG0002			KG0004			KG0006			KG0010		
	Sample Date:	14-JAN-99			14-JAN-99			14-JAN-99			15-JAN-99		
User Test Group	*Sample Depth:*	9 - 12			9 - 12			6 - 9			9 - 12		
Lab Method / *Parameter*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
CYANIDE													
SW9010_S													
Cyanide	mg/kg	0.59	U	U	0.66	U	U	0.63	U	U	0.64	U	U
METALS-S													
SW6010_S													
Aluminum	mg/kg	9680			19000			16300			12800		
Antimony	mg/kg	7.1	U	UJ	7.9	U	UJ	7.6	U	UJ	7.6	U	UJ
Arsenic	mg/kg	10.0			36.5			31.8			31.0		
Barium	mg/kg	78.6			60.5			57.4			89.0		
Beryllium	mg/kg	1.2			2.3			2.4			6.5		
Cadmium	mg/kg	0.38	B	J	0.66	U	U	0.63	U	U	0.49	B	J
Calcium	mg/kg	1770			2540			1200			2120		
Chromium	mg/kg	18.1		J	42.7		J	28.2		J	24.1		J
Cobalt	mg/kg	9.9		J	6.6	U	UJ	16.6		J	6.4	U	UJ
Copper	mg/kg	21.6			73.2			48.5			43.1		
Iron	mg/kg	31000			76800			56700			56200		
Lead	mg/kg	27.7			29.7			30.6			21.5		
Magnesium	mg/kg	568	B	J	990			1490			1180		
Manganese	mg/kg	586		J	122		J	357		J	341		J
Nickel	mg/kg	23.7			56.4			80.6			70.2		
Potassium	mg/kg	290	B	J	464	B	J	752			404	B	J
Selenium	mg/kg	1.5			2.1			1.6			1.4		
Silver	mg/kg	2.0			4.5			3.5			3.6		
Sodium	mg/kg	67.5	B	B	86.4	B	B	72.8	B	B	68.6	B	B
Thallium	mg/kg	1.2	U	U	1.3	U	U	0.80	B	J	1.3	U	U
Vanadium	mg/kg	15.3			25.3			25.3			30.9		
Zinc	mg/kg	77.0		J	143		J	206		J	130		J
SW7471_S													
Mercury	mg/kg	0.075			0.15			0.27			0.11		

Summary of Validated Subsurface Soil Data
Printing Plant, Building 3183 (Parcel 162)
Fort McClellan, Alabama

Report Date: 04/11/00

	Location Code:	PPMP-162-GP01			PPMP-162-GP02			PPMP-162-GP03			PPMP-162-GP04		
	Associated Site:	PPMP-162			PPMP-162			PPMP-162			PPMP-162		
	Sample No:	KG0002			KG0004			KG0006			KG0010		
	Sample Date:	14-JAN-99			14-JAN-99			14-JAN-99			15-JAN-99		
User Test Group	*Sample Depth:*	9 - 12			9 - 12			6 - 9			9 - 12		
Lab Method *Parameter*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
MOISTURE													
D2216_S													
% Moisture													
SEMIVOLATILES													
SW8270_S													
1,2,4-Trichlorobenzene	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
1,2-Dichlorobenzene	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
1,3-Dichlorobenzene	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
1,4-Dichlorobenzene	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
2,4,5-Trichlorophenol	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
2,4,6-Trichlorophenol	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
2,4-Dichlorophenol	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
2,4-Dimethylphenol	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
2,4-Dinitrophenol	mg/kg	1.9	U	UJ	2.1	U	U	2	U	U	2	U	U
2,4-Dinitrotoluene	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
2,6-Dinitrotoluene	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
2-Chloronaphthalene	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
2-Chlorophenol	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
2-Methylnaphthalene	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
2-Methylphenol	mg/kg	.39	U	UJ	.43	U	U	.42	U	U	.42	U	U
2-Nitroaniline	mg/kg	1.9	U	U	2.1	U	U	2	U	U	2	U	U
2-Nitrophenol	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
3,3'-Dichlorobenzidine	mg/kg	1.9	U	U	2.1	U	U	2	U	U	2	U	U
3-Nitroaniline	mg/kg	1.9	U	U	2.1	U	U	2	U	U	2	U	U
4,6-Dinitro-2-methylphenol	mg/kg	1.9	U	U	2.1	U	U	2	U	U	2	U	U
4-Bromophenyl phenyl ether	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
4-Chloro-3-methylphenol	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
4-Chloroaniline	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
4-Chlorophenyl phenyl ether	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
4-Methylphenol	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
4-Nitroaniline	mg/kg	1.9	U	U	2.1	U	U	2	U	U	2	U	U
4-Nitrophenol	mg/kg	1.9	U	U	2.1	U	U	2	U	U	[illegible]	U	U

Summary of Validated Subsurface Soil Data
Printing Plant, Building 3183 (Parcel 162)
Fort McClellan, Alabama

Report Date: 04/11/00

	Location Code:	PPMP-162-GP01			PPMP-162-GP02			PPMP-162-GP03			PPMP-162-GP04		
	Associated Site:	PPMP-162			PPMP-162			PPMP-162			PPMP-162		
	Sample No:	KG0002			KG0004			KG0006			KG0010		
	Sample Date:	14-JAN-99			14-JAN-99			14-JAN-99			15-JAN-99		
User Test Group	*Sample Depth:*	9 - 12			9 - 12			6 - 9			9 - 12		
Lab Method													
Parameter	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
SEMIVOLATILES													
SW8270_S													
Acenaphthene	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
Acenaphthylene	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
Anthracene	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
Benzo(a)anthracene	mg/kg	.075	J	J	.43	U	U	.42	U	U	.42	U	U
Benzo(a)pyrene	mg/kg	.086	J	J	.43	U	U	.42	U	U	.42	U	U
Benzo(b)fluoranthene	mg/kg	.099	J	J	.43	U	UJ	.42	U	U	.42	U	UJ
Benzo(ghi)perylene	mg/kg	.061	J	J	.43	U	U	.42	U	U	.42	U	U
Benzo(k)fluoranthene	mg/kg	.087	J	J	.43	U	U	.42	U	U	.42	U	U
Butyl benzyl phthalate	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
Carbazole	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
Chrysene	mg/kg	.091	J	J	.43	U	U	.42	U	U	.42	U	U
Di-n-butyl phthalate	mg/kg	.1	J B	B	.12	J B	B	.11	J B	B	.078	J B	B
Di-n-octyl phthalate	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
Dibenz(a,h)anthracene	mg/kg	.39	U	U	.43	U	UJ	.42	U	U	.42	U	UJ
Dibenzofuran	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
Diethyl phthalate	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
Dimethyl phthalate	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
Fluoranthene	mg/kg	.17	J	J	.43	U	U	.42	U	U	.42	U	U
Fluorene	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
Hexachlorobenzene	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
Hexachlorobutadiene	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
Hexachlorocyclopentadiene	mg/kg	1.9	U	UJ	2.1	U	UJ	2	U	UJ	2	U	UJ
Hexachloroethane	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
Indeno(1,2,3-cd)pyrene	mg/kg	.052	J	J	.43	U	UJ	.42	U	U	.42	U	UJ
Isophorone	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
Naphthalene	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
Nitrobenzene	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
Pentachlorophenol	mg/kg	1.9	U	U	2.1	U	U	2	U	U	2	U	U
Phenanthrene	mg/kg	.079	J	J	.43	U	U	.42	U	U	.42	U	U
Phenol	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
Pyrene	mg/kg	.14	J	J	.43	U	U	.42	U	U	.42	U	U

Summary of Validated Subsurface Soil Data
Printing Plant, Building 3183 (Parcel 162)
Fort McClellan, Alabama

Report Date: 04/11/00

	Location Code:	PPMP-162-GP01			PPMP-162-GP02			PPMP-162-GP03			PPMP-162-GP04		
	Associated Site:	PPMP-162			PPMP-162			PPMP-162			PPMP-162		
	Sample No:	KG0002			KG0004			KG0006			KG0010		
	Sample Date:	14-JAN-99			14-JAN-99			14-JAN-99			15-JAN-99		
User Test Group	*Sample Depth:*	9 - 12			9 - 12			6 - 9			9 - 12		
Lab Method													
Parameter	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
SEMIVOLATILES													
SW8270_S													
bis(2-Chloroethoxy)methane	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
bis(2-Chloroethyl)ether	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
bis(2-Chloroisopropyl)ether	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
bis(2-Ethylhexyl)phthalate	mg/kg	.084	J B	B	.1	J B	B	.093	J B	B	.076	J B	B
n-Nitroso-di-n-propylamine	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
n-Nitrosodiphenylamine	mg/kg	.39	U	U	.43	U	U	.42	U	U	.42	U	U
VOLATILES													
SW8260_S													
1,1,1,2-Tetrachloroethane	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U
1,1,1-Trichloroethane	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U
1,1,2,2-Tetrachloroethane	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U
1,1,2-Trichloroethane	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U
1,1-Dichloroethane	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U
1,1-Dichloroethene	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U
1,1-Dichloropropene	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U
1,2,3-Trichlorobenzene	mg/kg	.0059	U	UJ	.0066	U	UJ	.0063	U	UJ	.0064	U	UJ
1,2,3-Trichloropropane	mg/kg	.0059	U	UJ	.0066	U	UJ	.0063	U	UJ	.0064	U	U
1,2,4-Trichlorobenzene	mg/kg	.0059	U	UJ	.0066	U	UJ	.0063	U	UJ	.0064	U	UJ
1,2,4-Trimethylbenzene	mg/kg	.0059	U	UJ	.0066	U	UJ	.0063	U	UJ	.0064	U	U
1,2-Dibromo-3-Chloropropane	mg/kg	.012	U	R	.013	U	R	.013	U	R	.013	U	R
1,2-Dibromoethane	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U
1,2-Dichlorobenzene	mg/kg	.0059	U	UJ	.0066	U	UJ	.0063	U	UJ	.0064	U	U
1,2-Dichloroethane	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U
1,2-Dichloropropane	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U
1,2-Dimethylbenzene	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U
1,3,5-Trimethylbenzene	mg/kg	.0059	U	UJ	.0066	U	UJ	.0063	U	UJ	.0064	U	U
1,3-Dichlorobenzene	mg/kg	.0059	U	UJ	.0066	U	UJ	.0063	U	UJ	.0064	U	U
1,3-Dichloropropane	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U
1,4-Dichlorobenzene	mg/kg	.0059	U	UJ	.0066	U	UJ	.0063	U	UJ	.0064	U	U
2-[illegible]anone	mg/kg	.024	U	R	.026	U	R	.0069	J	J	.0[illegible]	U	R

Summary of Validated Subsurface Soil Data
Printing Plant, Building 3183 (Parcel 162)
Fort McClellan, Alabama

Report Date: 04/11/00

	Location Code:	PPMP-162-GP01			PPMP-162-GP02			PPMP-162-GP03			PPMP-162-GP04		
	Associated Site:	PPMP-162			PPMP-162			PPMP-162			PPMP-162		
	Sample No:	KG0002			KG0004			KG0006			KG0010		
	Sample Date:	14-JAN-99			14-JAN-99			14-JAN-99			15-JAN-99		
User Test Group	*Sample Depth:*	9 - 12			9 - 12			6 - 9			9 - 12		
Lab Method													
Parameter	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
VOLATILES													
SW8260_S													
2-Hexanone	mg/kg	.024	U	U	.026	U	U	.025	U	U	.025	U	U
4-Methyl-2-pentanone	mg/kg	.024	U	U	.026	U	U	.025	U	U	.025	U	U
Acetone	mg/kg	.082	B	J	10	D B	J	.3	B	J	.0065	J B	B
Benzene	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U
Bromobenzene	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U
Bromochloromethane	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U
Bromodichloromethane	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U
Bromoform	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U
Bromomethane	mg/kg	.0041	J B	B	.0039	J B	B	.0032	J B	B	.0017	J B	B
Carbon disulfide	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U
Carbon tetrachloride	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.018		
Chlorobenzene	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U
Chloroethane	mg/kg	.012	U	U	.013	U	U	.013	U	U	.013	U	UJ
Chloroform	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0023	J	J
Chloromethane	mg/kg	.012	U	U	.013	U	U	.013	U	U	.013	U	U
Cumene	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U
Dibromochloromethane	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U
Dibromomethane	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U
Dichlorodifluoromethane	mg/kg	.012	U	U	.013	U	U	.013	U	U	.013	U	U
Ethylbenzene	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U
Hexachlorobutadiene	mg/kg	.0059	U	UJ	.0066	U	UJ	.0063	U	UJ	.0064	U	U
Methylene chloride	mg/kg	.0034	J B	B	.0037	J B	B	.0037	J B	B	.0034	J B	B
Naphthalene	mg/kg	.0059	U	UJ	.0066	U	UJ	.0082		J	.0064	U	UJ
Styrene	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U
Tetrachloroethene	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0066		
Toluene	mg/kg	.0059	U	U	.039			.0037	J	J	.0064	U	U
Trichloroethene	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U
Trichlorofluoromethane	mg/kg	.012	U	U	.013	U	U	.013	U	U	.013	U	U
Vinyl chloride	mg/kg	.012	U	U	.013	U	U	.013	U	U	.013	U	U
cis-1,2-Dichloroethene	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U
cis-1,3-Dichloropropene	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U

Summary of Validated Subsurface Soil Data
Printing Plant, Building 3183 (Parcel 162)
Fort McClellan, Alabama

Report Date: 04/11/00

	Location Code:	PPMP-162-GP01			PPMP-162-GP02			PPMP-162-GP03			PPMP-162-GP04		
	Associated Site:	PPMP-162			PPMP-162			PPMP-162			PPMP-162		
	Sample No:	KG0002			KG0004			KG0006			KG0010		
	Sample Date:	14-JAN-99			14-JAN-99			14-JAN-99			15-JAN-99		
User Test Group	*Sample Depth:*	9 - 12			9 - 12			6 - 9			9 - 12		
Lab Method / *Parameter*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
VOLATILES													
SW8260_S													
m,p-Xylenes	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U
n-Butylbenzene	mg/kg	.0059	U	UJ	.0066	U	UJ	.0063	U	UJ	.0064	U	U
n-Propylbenzene	mg/kg	.0059	U	UJ	.0066	U	UJ	.0063	U	UJ	.0064	U	U
o-Chlorotoluene	mg/kg	.0059	U	UJ	.0066	U	UJ	.0063	U	UJ	.0064	U	U
p-Chlorotoluene	mg/kg	.0059	U	UJ	.0066	U	UJ	.0063	U	UJ	.0064	U	U
p-Cymene	mg/kg	.0059	U	UJ	.0066	U	UJ	.0063	U	UJ	.0064	U	U
sec-Butylbenzene	mg/kg	.0059	U	UJ	.0066	U	UJ	.0063	U	UJ	.0064	U	U
sec-Dichloropropane	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U
tert-Butylbenzene	mg/kg	.0059	U	UJ	.0066	U	UJ	.0063	U	UJ	.0064	U	U
trans-1,2-Dichloroethene	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U
trans-1,3-Dichloropropene	mg/kg	.0059	U	U	.0066	U	U	.0063	U	U	.0064	U	U

Summary of Validated Groundwater Data
Printing Plant, Building 3183 (Parcel 162)
Fort McClellan, Alabama

Report Date: 04/11/00

	Location Code:			PPMP-162-GP01			PPMP-162-GP01			PPMP-162-GP02			PPMP-162-GP03		
	Associated Site:			PPMP-162			PPMP-162			PPMP-162			PPMP-162		
	Sample No:			KG3001			KG3002			KG3004			KG3005		
	Sample Date:			03-FEB-99			03-FEB-99			29-JAN-99			29-JAN-99		
User Test Group / *Lab Method* / *Parameter*	*Flt*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
CYANIDE														
SW9010_W														
Cyanide		mg/L	0.010	U	U	0.010	U	U				0.010	U	U
METALS-W														
SW6010_W														
Aluminum		mg/L	1.6		J	.448		J	.146	B	B	.52		J
Antimony		mg/L	.06	U	U	.06	U	U	.06	U	U	.06	U	U
Arsenic		mg/L	.01	U	U	.01	U	U	.01	U	U	.0037	B	J
Barium		mg/L	.137	B	J	.206		J	.0273	B	J	.0663	B	J
Beryllium		mg/L	.005	U	U	.005	U	U	.005	U	U	.005	U	U
Cadmium		mg/L	.005	U	U	.005	U	U	.005	U	U	.005	U	U
Calcium		mg/L	50.5		J	60.4		J	31		J	67.5		J
Chromium		mg/L	.01	U	U	.01	U	U	.01	U	U	.01	U	U
Cobalt		mg/L	.05	U	U	.05	U	U	.05	U	U	.05	U	U
Copper		mg/L	.025	U	U	.025	U	U	.025	U	U	.025	U	U
Iron		mg/L	1.96		J	.484		J	.106			.635		
Lead		mg/L	.003	U	U	.003	U	U	.003	U	U	.003	U	U
Magnesium		mg/L	9.09		J	9.72		J	4.01	B	J	21.6		J
Manganese		mg/L	.39		J	.88		J	.0017	B	J	.0869		
Nickel		mg/L	.04	U	U	.04	U	U	.04	U	U	.04	U	U
Potassium		mg/L	1.75	B	J	2.84	B	J	5	U	U	5	U	U
Selenium		mg/L	.005	U	U	.005	U	U	.005	U	U	.005	U	U
Silver		mg/L	.01	U	U	.01	U	U	.01	U	U	.01	U	U
Sodium		mg/L	8.58		J	3.69	B	J	32.6		J	12		J
Thallium		mg/L	.01	U	U	.005	B	B	.01	U	U	.0044	B	B
Vanadium		mg/L	.05	U	U	.05	U	U	.05	U	U	.05	U	U
Zinc		mg/L	.0104	B	J	.02	U	U	.02	U	U	.02	U	U
SW7470_W														
Mercury		mg/L	.0002	U	U	.0002	U	U	.0002	U	U	.0002	U	U

Summary of Validated Groundwater Data
Printing Plant, Building 3183 (Parcel 162)
Fort McClellan, Alabama

Report Date: 04/11/00

		Location Code:	PPMP-162-GP01			PPMP-162-GP01			PPMP-162-GP02			PPMP-162-GP03		
		Associated Site:	PPMP-162			PPMP-162			PPMP-162			PPMP-162		
		Sample No:	KG3001			KG3002			KG3004			KG3005		
		Sample Date:	03-FEB-99			03-FEB-99			29-JAN-99			29-JAN-99		
User Test Group / *Lab Method* / *Parameter*	*Flt*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
SEMIVOLATILES														
SW8270_W														
1,2,4-Trichlorobenzene		mg/L	.01	U	U	.01	U	U				.01	U	U
1,2-Dichlorobenzene		mg/L	.01	U	U	.01	U	U				.01	U	U
1,3-Dichlorobenzene		mg/L	.01	U	U	.01	U	U				.01	U	U
1,4-Dichlorobenzene		mg/L	.01	U	U	.01	U	U				.01	U	U
2,4,5-Trichlorophenol		mg/L	.01	U	U	.01	U	U				.01	U	U
2,4,6-Trichlorophenol		mg/L	.01	U	U	.01	U	U				.01	U	U
2,4-Dichlorophenol		mg/L	.01	U	U	.01	U	U				.01	U	U
2,4-Dimethylphenol		mg/L	.01	U	U	.01	U	U				.01	U	U
2,4-Dinitrophenol		mg/L	.05	U	U	.05	U	U				.05	U	U
2,4-Dinitrotoluene		mg/L	.01	U	U	.01	U	U				.01	U	U
2,6-Dinitrotoluene		mg/L	.01	U	U	.01	U	U				.01	U	U
2-Chloronaphthalene		mg/L	.01	U	U	.01	U	U				.01	U	U
2-Chlorophenol		mg/L	.01	U	U	.01	U	U				.01	U	U
2-Methylnaphthalene		mg/L	.01	U	U	.01	U	U				.01	U	U
2-Methylphenol		mg/L	.01	U	U	.01	U	U				.01	U	U
2-Nitroaniline		mg/L	.05	U	U	.05	U	U				.05	U	U
2-Nitrophenol		mg/L	.01	U	U	.01	U	U				.01	U	U
3,3'-Dichlorobenzidine		mg/L	.05	U	U	.05	U	U				.05	U	U
3-Nitroaniline		mg/L	.05	U	U	.05	U	U				.05	U	U
4,6-Dinitro-2-methylphenol		mg/L	.05	U	U	.05	U	U				.05	U	U
4-Bromophenyl phenyl ether		mg/L	.01	U	U	.01	U	U				.01	U	U
4-Chloro-3-methylphenol		mg/L	.01	U	U	.01	U	U				.01	U	U
4-Chloroaniline		mg/L	.01	U	U	.01	U	U				.01	U	U
4-Chlorophenyl phenyl ether		mg/L	.01	U	U	.01	U	U				.01	U	U
4-Methylphenol		mg/L	.01	U	U	.01	U	U				.01	U	U
4-Nitroaniline		mg/L	.05	U	U	.05	U	U				.05	U	U
4-Nitrophenol		mg/L	.05	U	UJ	.05	U	UJ				.05	U	U
Acenaphthene		mg/L	.0033	J	J	.0059	J	J				.01	U	U
Acenaphthylene		mg/L	.01	U	U	.01	U	U				.01	U	U
Anthracene		mg/L	.01	U	U	.01	U	U				.01	U	U
B[illegible]'a)anthracene		mg/L	.01	U	[illegible]	.01	U	U				[illegible]	U	U

	Location Code:		PPMP-162-GP01			PPMP-162-GP01			PPMP-162-GP02			PPMP-162-GP03		
	Associated Site:		PPMP-162			PPMP-162			PPMP-162			PPMP-162		
	Sample No:		KG3001			KG3002			KG3004			KG3005		
	Sample Date:		03-FEB-99			03-FEB-99			29-JAN-99			29-JAN-99		
User Test Group / *Lab Method* / *Parameter*	*Flt*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
SEMIVOLATILES														
SW8270_W														
Benzo(a)pyrene		mg/L	.01	U	U	.01	U	U				.01	U	U
Benzo(b)fluoranthene		mg/L	.01	U	U	.01	U	U				.01	U	U
Benzo(ghi)perylene		mg/L	.01	U	U	.01	U	U				.01	U	U
Benzo(k)fluoranthene		mg/L	.01	U	U	.01	U	U				.01	U	U
Butyl benzyl phthalate		mg/L	.01	U	U	.01	U	U				.01	U	U
Carbazole		mg/L	.007	J	J	.012		J				.01	U	U
Chrysene		mg/L	.01	U	U	.01	U	U				.01	U	U
Di-n-butyl phthalate		mg/L	.01	U	U	.01	U	U				.01	U	U
Di-n-octyl phthalate		mg/L	.01	U	U	.01	U	U				.01	U	U
Dibenz(a,h)anthracene		mg/L	.01	U	U	.01	U	U				.01	U	U
Dibenzofuran		mg/L	.01	U	U	.0012	J	J				.01	U	U
Diethyl phthalate		mg/L	.01	U	U	.01	U	U				.01	U	U
Dimethyl phthalate		mg/L	.01	U	U	.01	U	U				.01	U	U
Fluoranthene		mg/L	.01	U	U	.01	U	U				.01	U	U
Fluorene		mg/L	.0012	J	J	.0021	J	J				.01	U	U
Hexachlorobenzene		mg/L	.01	U	U	.01	U	U				.01	U	U
Hexachlorobutadiene		mg/L	.01	U	U	.01	U	U				.01	U	U
Hexachlorocyclopentadiene		mg/L	.05	U	U	.05	U	U				.05	U	U
Hexachloroethane		mg/L	.01	U	U	.01	U	U				.01	U	U
Indeno(1,2,3-cd)pyrene		mg/L	.01	U	U	.01	U	U				.01	U	U
Isophorone		mg/L	.01	U	U	.01	U	U				.01	U	U
Naphthalene		mg/L	.01	U	U	.01	U	U				.01	U	U
Nitrobenzene		mg/L	.01	U	U	.01	U	U				.01	U	U
Pentachlorophenol		mg/L	.05	U	U	.05	U	U				.05	U	U
Phenanthrene		mg/L	.01	U	U	.0017	J	J				.01	U	U
Phenol		mg/L	.01	U	U	.01	U	U				.01	U	U
Pyrene		mg/L	.01	U	U	.01	U	U				.01	U	U
bis(2-Chloroethoxy)methane		mg/L	.01	U	U	.01	U	U				.01	U	U
bis(2-Chloroethyl)ether		mg/L	.01	U	U	.01	U	U				.01	U	U
bis(2-Chloroisopropyl)ether		mg/L	.01	U	U	.01	U	U				.01	U	U
bis(2-Ethylhexyl)phthalate		mg/L	.0011	J	J	.01	U	U				.01	U	U

Summary of Validated Groundwater Data
Printing Plant, Building 3183 (Parcel 162)
Fort McClellan, Alabama

Report Date: 04/11/00

	Location Code:		PPMP-162-GP01			PPMP-162-GP01			PPMP-162-GP02			PPMP-162-GP03		
	Associated Site:		PPMP-162			PPMP-162			PPMP-162			PPMP-162		
	Sample No:		KG3001			KG3002			KG3004			KG3005		
	Sample Date:		03-FEB-99			03-FEB-99			29-JAN-99			29-JAN-99		
User Test Group / *Lab Method* / *Parameter*	*Flt*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
SEMIVOLATILES														
SW8270_W														
n-Nitroso-di-n-propylamine		mg/L	.01	U	U	.01	U	U				.01	U	U
n-Nitrosodiphenylamine		mg/L	.01	U	U	.01	U	U				.01	U	U
VOLATILES														
SW8260_W														
1,1,1,2-Tetrachloroethane		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
1,1,1-Trichloroethane		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
1,1,2,2-Tetrachloroethane		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
1,1,2-Trichloroethane		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
1,1-Dichloroethane		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
1,1-Dichloroethene		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
1,1-Dichloropropene		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
1,2,3-Trichlorobenzene		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
1,2,3-Trichloropropane		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
1,2,4-Trichlorobenzene		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
1,2,4-Trimethylbenzene		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
1,2-Dibromo-3-Chloropropane		mg/L	.002	U	R	.002	U	R	.002	U	R	.002	U	R
1,2-Dibromoethane		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
1,2-Dichlorobenzene		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
1,2-Dichloroethane		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
1,2-Dichloropropane		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
1,2-Dimethylbenzene		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
1,3,5-Trimethylbenzene		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
1,3-Dichlorobenzene		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
1,3-Dichloropropane		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
1,4-Dichlorobenzene		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
2-Butanone		mg/L	.005	U	R	.005	U	R	.005	U	R	.005	U	R
2-Hexanone		mg/L	.005	U	U	.005	U	U	.005	U	U	.005	U	U
4-Methyl-2-pentanone		mg/L	.005	U	U	.005	U	U	.005	U	U	.005	U	U
Acetone		mg/L	.0036	J	B	.0047	J	B	.01	U	R	.01	U	R
Be[illegible]ne		mg/L	.001	U	U	.001	U	U	.001	U	U	.0[illegible]	U	U

Summary of Validated Groundwater Data
Printing Plant, Building 3183 (Parcel 162)
Fort McClellan, Alabama

Report Date: 04/11/00

		Location Code:	PPMP-162-GP01			PPMP-162-GP01			PPMP-162-GP02			PPMP-162-GP03		
		Associated Site:	PPMP-162			PPMP-162			PPMP-162			PPMP-162		
		Sample No:	KG3001			KG3002			KG3004			KG3005		
		Sample Date:	03-FEB-99			03-FEB-99			29-JAN-99			29-JAN-99		
User Test Group / *Lab Method*	*Parameter*	*Flt*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
VOLATILES															
SW8260_W															
	Bromobenzene		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
	Bromochloromethane		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
	Bromodichloromethane		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
	Bromoform		mg/L	.001	U	UJ	.001	U	UJ	.001	U	UJ	.001	U	UJ
	Bromomethane		mg/L	.002	U	U	.002	U	U	.002	U	U	.002	U	U
	Carbon disulfide		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
	Carbon tetrachloride		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
	Chlorobenzene		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
	Chloroethane		mg/L	.002	U	U	.002	U	U	.002	U	U	.002	U	U
	Chloroform		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
	Chloromethane		mg/L	.002	U	U	.002	U	U	.002	U	U	.002	U	U
	Cumene		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
	Dibromochloromethane		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
	Dibromomethane		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
	Dichlorodifluoromethane		mg/L	.002	U	U	.002	U	U	.002	U	U	.002	U	U
	Ethylbenzene		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
	Hexachlorobutadiene		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
	Methylene chloride		mg/L	.001	B	B	.0011	B	B	.001	B	B	.0016	B	B
	Naphthalene		mg/L	.00039	J	J	.001	U	U	.001	U	U	.00053	J	J
	Styrene		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
	Tetrachloroethene		mg/L	.001	U	U	.001	U	U	.001	U	U	.00022	J	J
	Toluene		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
	Trichloroethene		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
	Trichlorofluoromethane		mg/L	.002	U	U	.002	U	U	.002	U	U	.002	U	U
	Vinyl chloride		mg/L	.002	U	U	.002	U	U	.002	U	U	.002	U	U
	cis-1,2-Dichloroethene		mg/L	.00014	J	J	.00017	J	J	.001	U	U	.001	U	U
	cis-1,3-Dichloropropene		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
	m,p-Xylenes		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
	n-Butylbenzene		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
	n-Propylbenzene		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
	o-Chlorotoluene		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U

Summary of Validated Groundwater Data
Printing Plant, Building 3183 (Parcel 162)
Fort McClellan, Alabama

Report Date: 04/11/00

	Location Code:			PPMP-162-GP01			PPMP-162-GP01			PPMP-162-GP02			PPMP-162-GP03		
	Associated Site:			PPMP-162			PPMP-162			PPMP-162			PPMP-162		
	Sample No:			KG3001			KG3002			KG3004			KG3005		
	Sample Date:			03-FEB-99			03-FEB-99			29-JAN-99			29-JAN-99		
User Test Group / *Lab Method* / *Parameter*	*Flt*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
VOLATILES														
SW8260_W														
p-Chlorotoluene		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
p-Cymene		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
sec-Butylbenzene		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
sec-Dichloropropane		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
tert-Butylbenzene		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
trans-1,2-Dichloroethene		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U
trans-1,3-Dichloropropene		mg/L	.001	U	U	.001	U	U	.001	U	U	.001	U	U

APPENDIX F

DATA VALIDATION SUMMARY REPORT

Data Validation Summary Report for the Site Investigation Performed at the Printing Plant Building 3183 (Parcel PPMP-162) Fort McClellan, Calhoun County, Alabama

1.0 Introduction

Level III data validation was performed on 100 percent of the environmental samples collected at Parcel PPMP-162. The analytical data consisted of three sample delivery groups (SDGs), PK121621, PK121622, and PK121623, which were analyzed by Quanterra Incorporated. Both soil and water matrices were validated. In addition, an evaluation of the field split (FS) data, which was analyzed by the U.S. Army Corps of Engineers-South Atlantic Division (USACE-SAD) laboratory is included in this report. The chemical parameters for which the samples were analyzed, are identified below:

Parameter (Method)
Target Compound List Volatile Organics by Gas Chromatography (GC)/Mass Spectrometry SW-846 8260B
TCL Semivolatiles by GC/Mass Spectrometry SW-846 8270C
Metals by SW-846 6010B and 7471A/7470A
Wet Chemistry -Total Cyanide by SW-846-9010

2.0 Procedures

The sample data were validated following the logic identified in the U.S. Environmental Protection Agency (EPA), 1994 *Contract Laboratory Program National Functional Guidelines For Inorganic Data Review* and *USEPA Contract Laboratory Program National Functional Guidelines For Organic Review* 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) were applied to all sample results. As the result of the use of Update III SW-846 test

methods for the analytical data and the application of the Contract Laboratory Program (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 chromatography (GC) and GC/mass spectrometry 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 SW-846 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. SW-846, Code of Federal Regulations, SOPs, QAP) 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, and samples that were reanalyzed and have more than one result reported.

Individual validation reports have been prepared for each parameter in each SDG 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 PPMP-162 sites. 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/Mass Spectometry SW-846-8260B

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:

Holding Times

Technical holding time criteria were met for all samples.

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 demonstrated relative response factor (RRF) 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
PK121621	KG0001, KG0002, KG0003, KG0004, KG0005, KG0006, KG0010	Acetone, 2-Butanone, 1,2-Dibromo-3-chloropropane	*B/**R/J
PK121622	KG0007, KG0008	Acetone, 2-Butanone, 1,2-Dibromo-3-chloropropane	*B/**R/J
PK121623	KG3001, KG3002, KG3004, KG3005	Acetone, 2-Butanone, 1,2-Dibromo-3-chloropropane	*B/**R

* '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.

- 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
PK121621	KG0001, KG0002, KG0003, KG0004, KG0005, KG0006, KG0010	Bromomethane, 1,2,3 -Trichlorobenzene, 1,2,4 -Trichlorobenzene, Naphthalene	*B/UJ/J
PK121621	KG0001, KG0002, KG0003, KG0005, KG0006, KG0010	Acetone	*B/J
PK121621	KG0010	Chloroethane	UJ
PK121622	KG0007, KG0008	Acetone, Bromomethane, Dichlorodifluoromethane, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene	*B/UJ/J
PK121622	KG0007	Naphthalene	J
PK121623	KG3001, KG3002, KG3004, KG3005	1,2-Dibromo-3-chloropropane, Bromoform, Methylene Chloride	*B/**R/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
PK121621	KG0001, KG0003, KG0005, KG0010	Acetone	Method/ER

SDG	Samples Affected	Analyte/Analytes	Associated Blank Contamination
PK121621	KG0001, KG0002, KG0003, KG0004, KG0005, KG0006, KG0010	Bromomethane, Methylene Chloride	Method/ER
PK121622	KG0007	Acetone, Bromomethane, Methylene Chloride	Method/ER
PK121622	KG0008	Bromomethane, Methylene Chloride	Method/ER
PK121623	KG3001, KG3002	Acetone	ER
PK121623	KG3001, KG3002, KG3004, KG3005	Methylene Chloride	Method/TB

* '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 limits, with the exception of the following:

SDG	Samples Affected	Analyte/Analytes	Validation Qualifier
PK121621	KG0003	Acetone, Bromomethane	*B
PK121622	KG0007	1,2,4-Trimethylbenzene, Naphthalene	J
PK121622	KG0007, KG0008	2-Butanone, Bromomethane, Methylene Chloride, Acetone, p-Isopropyltoluene, n-Propylbenzene, Benzene, n-Butylbenzene, Ethylbenzene, sec-Butylbenzene, Isopropylbenzene, m-Xylene & p-Xylene	*B/J

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

Matrix Spike/Matrix Spike Duplicate

Matrix spike (MS)/matrix spike duplicate (MSD) and laboratory control sample (LCS) was performed for the project samples and all QC criteria were met.

Field Duplicates

Original and field duplicate (FD) results were evaluated and no problems were noted, with the exception of the following:

Note: Soil-50 percent criteria applied. Water-35 percent criteria applied.

SDG	Samples Affected	Analyte/Analytes	Validation Qualifier
PK121622	KG0007 (original), KG0008 (duplicate)	Naphthalene, n-Propylbenzene, n-Butylbenzene, Ethylbenzene, p-Isopropyltoluene, sec-Butylbenzene,Isopropylbenzene, m-Xylene & p-Xylene	J

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

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
PK121621	KG0002, KG0003, KG0004, KG0006	1,4-Dichlorobenzene-d4	UJ/J

Quantitation

Results quantified between the method detection limit (MDL) and the reporting limit (RL), which the lab qualified as "J," were qualified as estimated 'J' unless blank contamination was present or the results were rejected.

4.2 Target Compound List Semivolatiles by GC/Mass Spectometry 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 for all samples.

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
PK121621	KG0001, KG0002, KG0003, KG0004, KG0005, KG0006, KG0010	Hexachlorocyclopentadiene	UJ
PK121621	KG0001, KG0002, KG0003	2,4-Dinitrophenol, 2-Methylphenol	UJ
PK121621	KG0004, KG0010	Benzo(b)fluoranthene, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene	UJ
PK121622	KG0007, KG0008	2,4-Dinitrophenol, 4,6 -Dinitro-2-methylphenol	UJ
PK121623	KG3001, KG3002	4-Nitrophenol	UJ

Blanks

The 5X/10X rule for contaminants found in the associated equipment rinses 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
PK121621	KG0001, KG0002, KG0003, KG0004, KG0005, KG0006, KG0010	Bis(2-ethylhexyl)phthalate, Di-n-butyl phthalate	Method

* '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 met QC criteria.

Matrix Spike/Matrix Spike Duplicate

MS/MSD and LCS were evaluated and no problems were noted and all QC criteria were met.

Field Duplicates

Original and FD results were evaluated and no problems were noted, with the exception of the following:

Note: Soil-50 percent criteria applied. Water-35 percent criteria applied.

SDG	Samples Affected	Analyte/Analytes	Validation Qualifier
PK121622	KG0007 (original), KG0008 (duplicate)	Fluoranthene	J
PK121623	KG3001 (original), KG3002 (duplicate)	Fluorene, Carbazole, Acenaphthene	J

Internal Standards

All internal standards met QC criteria.

Quantitation

Results quantified 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.

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:

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

SDG	Samples Affected	Element/Elements	Associated Blank Contamination
PK121621	KG0001, KG0002, KG0003, KG0004, KG0005, KG0006, KG0010	Sodium	Method
PK121622	KG0007, KG0008	Beryllium, Sodium	Calibration/ER
PK121623	KG3004	Aluminum	ER
PK121623	KG3002, KG3005	Thallium	Method/Calibration

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

Matrix Spike/Matrix Spike Duplicate

Batch QC was performed for the project samples and all QC criteria were met, with the following exceptions:

SDG	Samples Affected	Element/Elements	Validation Qualifier
PK121621	KG0001, KG0002, KG0003, KG0004, KG0005, KG0006, KG0010	Antimony, Chromium, Manganese, Zinc, Cobalt	UJ/J
PK121621	KG0005	Nickel	J
PK121623	KG3001, KG3002	Potassium	J
PK121623	KG3001, KG3002, KG3004, KG3005	Aluminum, Calcium, Magnesium, Sodium	*B/J

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

Laboratory Control Sample

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

Interference Check Sample

All ICS percent recoveries, where applicable, were acceptable.

Inductively-Coupled Plasma Serial Dilutions

All QC criteria were met with the following exceptions:

SDG	Samples Affected	Element/Elements	Validation Qualifier
PK121623	KG3001, KG3002, KG3004, KG3005	Aluminum	*B/J

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

Field Duplicates

Original and FD results were evaluated and no problems were noted, with the exception of the following:

Note: Soil-50 percent criteria applied. Water-35 percent criteria applied.

SDG	Samples Affected	Analyte/Analytes	Validation Qualifier
PK121622	KG0007 (original), KG0008 (duplicate)	Lead, Nickel	J
PK121623	KG3001 (original), KG3002 (duplicate)	Aluminum, Potassium, Iron, Sodium, Barium, Manganese	J

Sample Quantitation

Results quantified between the instrument detection limit (IDL) and the RL ("B' flagged by the laboratory) were qualified as estimated (J).

4.4 Wet Chemistry - Total Cyanide by SW-846-9010

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 Calibration

All initial and continuing calibrations associated with the project samples met QC criteria.

Blanks

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

Matrix Spike/Matrix Spike Duplicate

MS/MSD was performed for the project samples and all QC criteria were met.

Laboratory Control Sample

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

Field Duplicates

Original and FD results were evaluated and no problems were noted.

Quantitation

Results quantified 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. Results rejected in favor of a preferred result (e.g., due to dilution or reanalysis) were qualified as rejected 'R'.

5.0 Quality Assurance Field Split Sample Data Evaluation

Data from the quality assurance split samples supplied to IT Corporation by the USACE were reviewed for comparability to the original and FD results. RPDs were calculated and the results are summarized in this section.

Field split data for SDG PK121622

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

Original Sample ID	Field Duplicate ID	Field Split ID
KG0007	KG0008	KG0009

Comments:

- Metals: Majority of the same metals detected in all three samples. Several elements (Al, Pb, Ba, Ca, Cr, Cu, Fe, Mg, Mn, Ni, K, and Na) had RPD values above the QC limit (50 percent) for soils. High RPDs attributed to non-homogeneity within the soil samples.

- Volatiles: Acetone, methylene chloride, toluene, and 2-butanone, common laboratory contaminants, were detected in the original and the FD. Other volatile compounds were detected at or below the RL for the original and FD and not detected in the FS. Ethyl benzene, isopropylbenzene, naphthalene, 1,2,4-trimethylbenzene, xylene, and benzene were detected in all three samples. Some RPDs exceeded the 50 percent QC limits, differences attributed to non-homogeneity within the soil samples and/or the FS lab not reporting results below the RL.

- Semivolatiles: No semivolatiles were detected in the FS. Crysene, fluoranthene, 2-methylnapthalene, naphthalene, and pyrene were detected in the original and FD; RPDs were acceptable for these compounds. Benz(a)anthracene and phenanthrene were detected in the FD. Benzo(b)fluoranthene was detected in the original sample only. Differences attributed to nonhomogeneity within the soil samples.

Field split data for SDG PK121623

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

Original Sample ID	Field Duplicate ID	Field Split ID
KG3001	KG3002	KG3003

Comments:

- Metals: A majority of the same metals above the RL were found in all three samples. Manganese, aluminum, barium, iron, potassium, and sodium had RPD values above the QC limit for waters. Differences attributed to field activities and sampling sequence of water samples.

- Volatiles: No volatiles were detected in the FS sample. Acetone and methylene chloride, both common laboratory contaminants, were detected at or below the RL in the original and FD. Differences attributed to sample homogeneity and/or FS lab not reporting results below the RL.

- Semivolatiles: Carbazole was detected in all three samples. Carbazole's high RPD possibility due to field activities and sampling sequence of well waters. All other semivolatiles detected in the original and FD were detected below the RL. Differences attributed to sample homogeneity and/or FS lab not reporting results below the RL.

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: December 13, 2000

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:
KG0001	D2216	NONE	N	0	1	PERCENT MOISTURE				Y	Y	P						CQ0XHS	00:00
	SW6010	SW3050	N	0	1	ALUMINUM	10100	mg/kg		Y	Y	P						CQ0XHS	19:40
						ANTIMONY	7.2	mg/kg	U	N	Y	U	UJ	08A				CQ0XHS	19:40
						BARIUM	50.7	mg/kg		Y	Y	P						CQ0XHS	19:40
						BERYLLIUM	0.80	mg/kg		Y	Y	P						CQ0XHS	19:40
						CADMIUM	0.60	mg/kg	U	N	Y	U	U					CQ0XHS	19:40
						CALCIUM	2700	mg/kg		Y	Y	P						CQ0XHS	19:40
						CHROMIUM	19.2	mg/kg		Y	Y	P	J	08A				CQ0XHS	19:40
						COBALT	6.0	mg/kg	U	N	Y	U	UJ	08A				CQ0XHS	19:40
						COPPER	22.4	mg/kg		Y	Y	P						CQ0XHS	19:40
						IRON	29300	mg/kg		Y	Y	P						CQ0XHS	19:40
						MAGNESIUM	985	mg/kg		Y	Y	P						CQ0XHS	19:40
						MANGANESE	172	mg/kg		Y	Y	P	J	08A				CQ0XHS	19:40
						NICKEL	13.2	mg/kg		Y	Y	P						CQ0XHS	19:40
						SILVER	1.6	mg/kg		Y	Y	P						CQ0XHS	19:40
						VANADIUM	15.4	mg/kg		Y	Y	P						CQ0XHS	19:40
						ZINC	47.6	mg/kg		Y	Y	P	J	08A				CQ0XHS	19:40
	SW6010	SW3050	N	1	1	POTASSIUM	422	mg/kg	B	Y	Y	P	J	15				CQ0XHS	13:52
						SODIUM	55.7	mg/kg	B	Y	Y	F	B	06A	15			CQ0XHS	13:52
	SW6010	SW3050	N	2	1	ARSENIC	10.3	mg/kg		Y	Y	P						CQ0XHS	20:46
						LEAD	19.0	mg/kg		Y	Y	P						CQ0XHS	20:46
						SELENIUM	1.3	mg/kg		Y	Y	P						CQ0XHS	20:46
						THALLIUM	1.2	mg/kg	U	N	Y	U	U					CQ0XHS	20:46
	SW7471	TOTAL	N	0	1	MERCURY	0.082	mg/kg		Y	Y	P						CQ0XHS	15:57
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						1,1,1-TRICHLOROETHANE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						1,1,2,2-TETRACHLOROETHANE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						1,1,2-TRICHLOROETHANE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						1,1-DICHLOROETHANE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						1,1-DICHLOROETHENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						1,1-DICHLOROPROPENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						1,2,3-TRICHLOROBENZENE	.006	mg/kg	U	N	Y	U	UJ	04B				CQ0XHS	23:53
						1,2,3-TRICHLOROPROPANE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						1,2,4-TRICHLOROBENZENE	.006	mg/kg	U	N	Y	U	UJ	04B				CQ0XHS	23:53
						1,2,4-TRIMETHYLBENZENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						1,2-DIBROMO-3-CHLOROPROPANE	.012	mg/kg	U	N	Y	U	R	04A	05A			CQ0XHS	23:53
						1,2-DIBROMOETHANE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						1,2-DICHLOROBENZENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						1,2-DICHLOROETHANE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						1,2-DICHLOROPROPANE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						1,3,5-TRIMETHYLBENZENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						1,3-DICHLOROBENZENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						1,3-DICHLOROPROPANE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53

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:
KG0001	SW8260	SW5030	N	0	1	1,4-DICHLOROBENZENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						2,2-DICHLOROPROPANE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						2-BUTANONE	.024	mg/kg	U	N	Y	U	R	04A	05A			CQ0XHS	23:53
						2-CHLOROTOLUENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						2-HEXANONE	.024	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						4-CHLOROTOLUENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						4-METHYL-2-PENTANONE	.024	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						ACETONE	.0083	mg/kg	J B	Y	Y	F	B	04	05A	06A	06C	CQ0XHS	23:53
						BENZENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						BROMOBENZENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						BROMOCHLOROMETHANE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						BROMODICHLOROMETHANE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						BROMOFORM	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						BROMOMETHANE	.005	mg/kg	J B	Y	Y	F	B	04B	06A	15		CQ0XHS	23:53
						CARBON DISULFIDE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						CARBON TETRACHLORIDE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						CHLOROBENZENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						CHLORODIBROMOMETHANE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						CHLOROETHANE	.012	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						CHLOROFORM	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						CHLOROMETHANE	.012	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						CIS-1,2-DICHLOROETHENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						CIS-1,3-DICHLOROPROPENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						DIBROMOMETHANE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						DICHLORODIFLUOROMETHANE	.012	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						ETHYLBENZENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						HEXACHLOROBUTADIENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						ISOPROPYLBENZENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						M-XYLENE & P-XYLENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						METHYLENE CHLORIDE	.0041	mg/kg	J B	Y	Y	F	B	06A	15			CQ0XHS	23:53
						N-BUTYLBENZENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						N-PROPYLBENZENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						NAPHTHALENE	.006	mg/kg	U	N	Y	U	UJ	04B				CQ0XHS	23:53
						O-XYLENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						P-ISOPROPYLTOLUENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						SEC-BUTYLBENZENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						STYRENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						TERT-BUTYLBENZENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						TETRACHLOROETHENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						TOLUENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						TRANS-1,2-DICHLOROETHENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						TRANS-1,3-DICHLOROPROPENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						TRICHLOROETHENE	.006	mg/kg	U	N	Y	U	U					CQ0XHS	23:53
						TRICHLOROFLUOROMETHANE	.032	mg/kg	J	Y	Y	P	J	15				CQ0X[illegible]	23:53

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:
KG0001	SW8260	SW5030	N 0 1	VINYL CHLORIDE	.012	mg/kg	U	N Y U	U					CQ0XHS	23:53
	SW8270	SW3550	N 0 1	1,2,4-TRICHLOROBENZENE	.4	mg/kg	U	N Y U	U					CQ0XHS	09:10
				1,2-DICHLOROBENZENE	.4	mg/kg	U	N Y U	U					CQ0XHS	09:10
				1,3-DICHLOROBENZENE	.4	mg/kg	U	N Y U	U					CQ0XHS	09:10
				1,4-DICHLOROBENZENE	.4	mg/kg	U	N Y U	U					CQ0XHS	09:10
				2,2'-OXYBIS(1-CHLOROPROPANE)	.4	mg/kg	U	N Y U	U					CQ0XHS	09:10
				2,4,5-TRICHLOROPHENOL	.4	mg/kg	U	N Y U	U					CQ0XHS	09:10
				2,4,6-TRICHLOROPHENOL	.4	mg/kg	U	N Y U	U					CQ0XHS	09:10
				2,4-DICHLOROPHENOL	.4	mg/kg	U	N Y U	U					CQ0XHS	09:10
				2,4-DIMETHYLPHENOL	.4	mg/kg	U	N Y U	U					CQ0XHS	09:10
				2,4-DINITROPHENOL	1.9	mg/kg	U	N Y U	UJ	05B				CQ0XHS	09:10
				2,4-DINITROTOLUENE	.4	mg/kg	U	N Y U	U					CQ0XHS	09:10
				2,6-DINITROTOLUENE	.4	mg/kg	U	N Y U	U					CQ0XHS	09:10
				2-CHLORONAPHTHALENE	.4	mg/kg	U	N Y U	U					CQ0XHS	09:10
				2-CHLOROPHENOL	.4	mg/kg	U	N Y U	U					CQ0XHS	09:10
				2-METHYLNAPHTHALENE	.4	mg/kg	U	N Y U	U					CQ0XHS	09:10
				2-METHYLPHENOL	.4	mg/kg	U	N Y U	UJ	05B				CQ0XHS	09:10
				2-NITROANILINE	1.9	mg/kg	U	N Y U	U					CQ0XHS	09:10
				2-NITROPHENOL	.4	mg/kg	U	N Y U	U					CQ0XHS	09:10
				3,3'-DICHLOROBENZIDINE	1.9	mg/kg	U	N Y U	U					CQ0XHS	09:10
				3-NITROANILINE	1.9	mg/kg	U	N Y U	U					CQ0XHS	09:10
				4,6-DINITRO-2-METHYLPHENOL	1.9	mg/kg	U	N Y U	U					CQ0XHS	09:10
				4-BROMOPHENYL PHENYL ETHER	.4	mg/kg	U	N Y U	U					CQ0XHS	09:10
				4-CHLORO-3-METHYLPHENOL	.4	mg/kg	U	N Y U	U					CQ0XHS	09:10
				4-CHLOROANILINE	.4	mg/kg	U	N Y U	U					CQ0XHS	09:10
				4-CHLOROPHENYL PHENYL ETHER	.4	mg/kg	U	N Y U	U					CQ0XHS	09:10
				4-METHYLPHENOL	.4	mg/kg	U	N Y U	U					CQ0XHS	09:10
				4-NITROANILINE	1.9	mg/kg	U	N Y U	U					CQ0XHS	09:10
				4-NITROPHENOL	1.9	mg/kg	U	N Y U	U					CQ0XHS	09:10
				ACENAPHTHENE	.4	mg/kg	U	N Y U	U					CQ0XHS	09:10
				ACENAPHTHYLENE	.4	mg/kg	U	N Y U	U					CQ0XHS	09:10
				ANTHRACENE	.044	mg/kg	J	Y Y P	J	15				CQ0XHS	09:10
				BENZ(A)ANTHRACENE	.11	mg/kg	J	Y Y P	J	15				CQ0XHS	09:10
				BENZO(A)PYRENE	.084	mg/kg	J	Y Y P	J	15				CQ0XHS	09:10
				BENZO(B)FLUORANTHENE	.1	mg/kg	J	Y Y P	J	15				CQ0XHS	09:10
				BENZO(GHI)PERYLENE	.049	mg/kg	J	Y Y P	J	15				CQ0XHS	09:10
				BENZO(K)FLUORANTHENE	.069	mg/kg	J	Y Y P	J	15				CQ0XHS	09:10
				BIS(2-CHLOROETHOXY)METHANE	.4	mg/kg	U	N Y U	U					CQ0XHS	09:10
				BIS(2-CHLOROETHYL) ETHER	.4	mg/kg	U	N Y U	U					CQ0XHS	09:10
				BIS(2-ETHYLHEXYL) PHTHALATE	.083	mg/kg	J B	Y Y F	B	06A	15			CQ0XHS	09:10
				BUTYL BENZYL PHTHALATE	.4	mg/kg	U	N Y U	U					CQ0XHS	09:10
				CARBAZOLE	.4	mg/kg	U	N Y U	U					CQ0XHS	09:10
				CHRYSENE	.11	mg/kg	J	Y Y P	J	15				CQ0XHS	09:10

Validation Qualifier Data Entry Verification

Fort McClellan

Run Date: December 13, 2000

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:
KG0001	SW8270	SW3550	N	0	1	DI-N-BUTYL PHTHALATE	.09	mg/kg	J B	Y	Y	F	B	06A	15			CQ0XHS	09:10
						DI-N-OCTYL PHTHALATE	.4	mg/kg	U	N	Y	U	U					CQ0XHS	09:10
						DIBENZ(A,H)ANTHRACENE	.4	mg/kg	U	N	Y	U	U					CQ0XHS	09:10
						DIBENZOFURAN	.4	mg/kg	U	N	Y	U	U					CQ0XHS	09:10
						DIETHYL PHTHALATE	.4	mg/kg	U	N	Y	U	U					CQ0XHS	09:10
						DIMETHYL PHTHALATE	.4	mg/kg	U	N	Y	U	U					CQ0XHS	09:10
						FLUORANTHENE	.26	mg/kg	J	Y	Y	P	J	15				CQ0XHS	09:10
						FLUORENE	.4	mg/kg	U	N	Y	U	U					CQ0XHS	09:10
						HEXACHLOROBENZENE	.4	mg/kg	U	N	Y	U	U					CQ0XHS	09:10
						HEXACHLOROBUTADIENE	.4	mg/kg	U	N	Y	U	U					CQ0XHS	09:10
						HEXACHLOROCYCLOPENTADIENE	1.9	mg/kg	U	N	Y	U	UJ	04B				CQ0XHS	09:10
						HEXACHLOROETHANE	.4	mg/kg	U	N	Y	U	U					CQ0XHS	09:10
						INDENO(1,2,3-CD)PYRENE	.047	mg/kg	J	Y	Y	P	J	15				CQ0XHS	09:10
						ISOPHORONE	.4	mg/kg	U	N	Y	U	U					CQ0XHS	09:10
						N-NITROSODI-N-PROPYLAMINE	.4	mg/kg	U	N	Y	U	U					CQ0XHS	09:10
						N-NITROSODIPHENYLAMINE	.4	mg/kg	U	N	Y	U	U					CQ0XHS	09:10
						NAPHTHALENE	.4	mg/kg	U	N	Y	U	U					CQ0XHS	09:10
						NITROBENZENE	.4	mg/kg	U	N	Y	U	U					CQ0XHS	09:10
						PENTACHLOROPHENOL	1.9	mg/kg	U	N	Y	U	U					CQ0XHS	09:10
						PHENANTHRENE	.21	mg/kg	J	Y	Y	P	J	15				CQ0XHS	09:10
						PHENOL	.4	mg/kg	U	N	Y	U	U					CQ0XHS	09:10
						PYRENE	.23	mg/kg	J	Y	Y	P	J	15				CQ0XHS	09:10
	SW9010	METHOD	N	0	1	TOTAL CYANIDE	0.60	mg/kg	U	N	Y	U	U					CQ0XHS	00:00
KG0002	D2216	NONE	N	0	1	PERCENT MOISTURE				Y	Y	P						CQ0XNS	00:00
	SW6010	SW3050	N	0	1	ALUMINUM	9680	mg/kg		Y	Y	P						CQ0XNS	19:59
						ANTIMONY	7.1	mg/kg	U	N	Y	U	UJ	08A				CQ0XNS	19:59
						BARIUM	78.6	mg/kg		Y	Y	P						CQ0XNS	19:59
						BERYLLIUM	1.2	mg/kg		Y	Y	P						CQ0XNS	19:59
						CADMIUM	0.38	mg/kg	B	Y	Y	P	J	15				CQ0XNS	19:59
						CALCIUM	1770	mg/kg		Y	Y	P						CQ0XNS	19:59
						CHROMIUM	18.1	mg/kg		Y	Y	P	J	08A				CQ0XNS	19:59
						COBALT	9.9	mg/kg		Y	Y	P	J	08A				CQ0XNS	19:59
						COPPER	21.6	mg/kg		Y	Y	P						CQ0XNS	19:59
						IRON	31000	mg/kg		Y	Y	P						CQ0XNS	19:59
						MAGNESIUM	568	mg/kg	B	Y	Y	P	J	15				CQ0XNS	19:59
						MANGANESE	586	mg/kg		Y	Y	P	J	08A				CQ0XNS	19:59
						NICKEL	23.7	mg/kg		Y	Y	P						CQ0XNS	19:59
						SILVER	2.0	mg/kg		Y	Y	P						CQ0XNS	19:59
						VANADIUM	15.3	mg/kg		Y	Y	P						CQ0XNS	19:59
						ZINC	77.0	mg/kg		Y	Y	P	J	08A				CQ0XNS	19:59
	SW6010	SW3050	N	1	1	POTASSIUM	290	mg/kg	B	Y	Y	P	J	15				CQ0XNS	14:11
						SODIUM	67.5	mg/kg	B	Y	Y	F	B	06A	15			CQ0XNS	14:11
	S[illegible]0	SW3050	N	2	1	ARSENIC	[illegible]0.0	mg/kg		Y	Y	P						CQ0X[illegible]	21:07

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:
KG0002	SW6010	SW3050	N	2	1	LEAD	27.7	mg/kg		Y	Y	P						CQ0XNS	21:07
						SELENIUM	1.5	mg/kg		Y	Y	P						CQ0XNS	21:07
						THALLIUM	1.2	mg/kg	U	N	Y	U	U					CQ0XNS	21:07
	SW7471	TOTAL	N	0	1	MERCURY	0.075	mg/kg		Y	Y	P						CQ0XNS	16:09
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						1,1,1-TRICHLOROETHANE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						1,1,2,2-TETRACHLOROETHANE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						1,1,2-TRICHLOROETHANE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						1,1-DICHLOROETHANE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						1,1-DICHLOROETHENE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						1,1-DICHLOROPROPENE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						1,2,3-TRICHLOROBENZENE	.0059	mg/kg	U	N	Y	U	UJ	04B	10A			CQ0XNS	00:18
						1,2,3-TRICHLOROPROPANE	.0059	mg/kg	U	N	Y	U	UJ	10A				CQ0XNS	00:18
						1,2,4-TRICHLOROBENZENE	.0059	mg/kg	U	N	Y	U	UJ	04B	10A			CQ0XNS	00:18
						1,2,4-TRIMETHYLBENZENE	.0059	mg/kg	U	N	Y	U	UJ	10A				CQ0XNS	00:18
						1,2-DIBROMO-3-CHLOROPROPANE	.012	mg/kg	U	N	Y	U	R	04A	05A	10A		CQ0XNS	00:18
						1,2-DIBROMOETHANE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						1,2-DICHLOROBENZENE	.0059	mg/kg	U	N	Y	U	UJ	10A				CQ0XNS	00:18
						1,2-DICHLOROETHANE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						1,2-DICHLOROPROPANE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						1,3,5-TRIMETHYLBENZENE	.0059	mg/kg	U	N	Y	U	UJ	10A				CQ0XNS	00:18
						1,3-DICHLOROBENZENE	.0059	mg/kg	U	N	Y	U	UJ	10A				CQ0XNS	00:18
						1,3-DICHLOROPROPANE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						1,4-DICHLOROBENZENE	.0059	mg/kg	U	N	Y	U	UJ	10A				CQ0XNS	00:18
						2,2-DICHLOROPROPANE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						2-BUTANONE	.024	mg/kg	U	N	Y	U	R	04A	05A			CQ0XNS	00:18
						2-CHLOROTOLUENE	.0059	mg/kg	U	N	Y	U	UJ	10A				CQ0XNS	00:18
						2-HEXANONE	.024	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						4-CHLOROTOLUENE	.0059	mg/kg	U	N	Y	U	UJ	10A				CQ0XNS	00:18
						4-METHYL-2-PENTANONE	.024	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						ACETONE	.082	mg/kg	B	Y	Y	P	J	04A	04B	05A		CQ0XNS	00:18
						BENZENE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						BROMOBENZENE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						BROMOCHLOROMETHANE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						BROMODICHLOROMETHANE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						BROMOFORM	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						BROMOMETHANE	.0041	mg/kg	J B	Y	Y	F	B	04B	06A	15		CQ0XNS	00:18
						CARBON DISULFIDE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						CARBON TETRACHLORIDE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						CHLOROBENZENE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						CHLORODIBROMOMETHANE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						CHLOROETHANE	.012	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						CHLOROFORM	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18

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:
KG0002	SW8260	SW5030	N	0	1	CHLOROMETHANE	.012	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						CIS-1,2-DICHLOROETHENE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						CIS-1,3-DICHLOROPROPENE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						DIBROMOMETHANE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						DICHLORODIFLUOROMETHANE	.012	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						ETHYLBENZENE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						HEXACHLOROBUTADIENE	.0059	mg/kg	U	N	Y	U	UJ	10A				CQ0XNS	00:18
						ISOPROPYLBENZENE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						M-XYLENE & P-XYLENE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						METHYLENE CHLORIDE	.0034	mg/kg	J B	Y	Y	F	B	06A	15			CQ0XNS	00:18
						N-BUTYLBENZENE	.0059	mg/kg	U	N	Y	U	UJ	10A				CQ0XNS	00:18
						N-PROPYLBENZENE	.0059	mg/kg	U	N	Y	U	UJ	10A				CQ0XNS	00:18
						NAPHTHALENE	.0059	mg/kg	U	N	Y	U	UJ	04B	10A			CQ0XNS	00:18
						O-XYLENE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						P-ISOPROPYLTOLUENE	.0059	mg/kg	U	N	Y	U	UJ	10A				CQ0XNS	00:18
						SEC-BUTYLBENZENE	.0059	mg/kg	U	N	Y	U	UJ	10A				CQ0XNS	00:18
						STYRENE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						TERT-BUTYLBENZENE	.0059	mg/kg	U	N	Y	U	UJ	10A				CQ0XNS	00:18
						TETRACHLOROETHENE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						TOLUENE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						TRANS-1,2-DICHLOROETHENE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						TRANS-1,3-DICHLOROPROPENE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						TRICHLOROETHENE	.0059	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						TRICHLOROFLUOROMETHANE	.012	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
						VINYL CHLORIDE	.012	mg/kg	U	N	Y	U	U					CQ0XNS	00:18
	SW8270	SW3550	N	0	1	1,2,4-TRICHLOROBENZENE	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
						1,2-DICHLOROBENZENE	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
						1,3-DICHLOROBENZENE	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
						1,4-DICHLOROBENZENE	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
						2,2'-OXYBIS(1-CHLOROPROPANE)	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
						2,4,5-TRICHLOROPHENOL	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
						2,4,6-TRICHLOROPHENOL	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
						2,4-DICHLOROPHENOL	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
						2,4-DIMETHYLPHENOL	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
						2,4-DINITROPHENOL	1.9	mg/kg	U	N	Y	U	UJ	05B				CQ0XNS	12:05
						2,4-DINITROTOLUENE	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
						2,6-DINITROTOLUENE	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
						2-CHLORONAPHTHALENE	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
						2-CHLOROPHENOL	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
						2-METHYLNAPHTHALENE	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
						2-METHYLPHENOL	.39	mg/kg	U	N	Y	U	UJ	05B				CQ0XNS	12:05
						2-NITROANILINE	1.9	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
						2-NITROPHENOL	[illegible]	mg/kg	U	N	Y	U	U					CQ0XN[illegible]	12:05

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:
KG0002	SW8270	SW3550	N 0 1	3,3'-DICHLOROBENZIDINE	1.9	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				3-NITROANILINE	1.9	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				4,6-DINITRO-2-METHYLPHENOL	1.9	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				4-BROMOPHENYL PHENYL ETHER	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				4-CHLORO-3-METHYLPHENOL	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				4-CHLOROANILINE	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				4-CHLOROPHENYL PHENYL ETHER	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				4-METHYLPHENOL	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				4-NITROANILINE	1.9	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				4-NITROPHENOL	1.9	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				ACENAPHTHENE	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				ACENAPHTHYLENE	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				ANTHRACENE	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				BENZ(A)ANTHRACENE	.075	mg/kg	J	Y	Y	P	J	15				CQ0XNS	12:05
				BENZO(A)PYRENE	.086	mg/kg	J	Y	Y	P	J	15				CQ0XNS	12:05
				BENZO(B)FLUORANTHENE	.099	mg/kg	J	Y	Y	P	J	15				CQ0XNS	12:05
				BENZO(GHI)PERYLENE	.061	mg/kg	J	Y	Y	P	J	15				CQ0XNS	12:05
				BENZO(K)FLUORANTHENE	.087	mg/kg	J	Y	Y	P	J	15				CQ0XNS	12:05
				BIS(2-CHLOROETHOXY)METHANE	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				BIS(2-CHLOROETHYL) ETHER	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				BIS(2-ETHYLHEXYL) PHTHALATE	.084	mg/kg	J B	Y	Y	F	B	06A	15			CQ0XNS	12:05
				BUTYL BENZYL PHTHALATE	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				CARBAZOLE	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				CHRYSENE	.091	mg/kg	J	Y	Y	P	J	15				CQ0XNS	12:05
				DI-N-BUTYL PHTHALATE	.1	mg/kg	J B	Y	Y	F	B	06A	15			CQ0XNS	12:05
				DI-N-OCTYL PHTHALATE	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				DIBENZ(A,H)ANTHRACENE	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				DIBENZOFURAN	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				DIETHYL PHTHALATE	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				DIMETHYL PHTHALATE	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				FLUORANTHENE	.17	mg/kg	J	Y	Y	P	J	15				CQ0XNS	12:05
				FLUORENE	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				HEXACHLOROBENZENE	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				HEXACHLOROBUTADIENE	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				HEXACHLOROCYCLOPENTADIENE	1.9	mg/kg	U	N	Y	U	UJ	04B				CQ0XNS	12:05
				HEXACHLOROETHANE	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				INDENO(1,2,3-CD)PYRENE	.052	mg/kg	J	Y	Y	P	J	15				CQ0XNS	12:05
				ISOPHORONE	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				N-NITROSODI-N-PROPYLAMINE	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				N-NITROSODIPHENYLAMINE	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				NAPHTHALENE	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				NITROBENZENE	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				PENTACHLOROPHENOL	1.9	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
				PHENANTHRENE	.079	mg/kg	J	Y	Y	P	J	15				CQ0XNS	12:05

Validation Qualifier Data Entry Verification

Fort McClellan

Run Date: December 13, 2000

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:
KG0002	SW8270	SW3550	N	0	1	PHENOL	.39	mg/kg	U	N	Y	U	U					CQ0XNS	12:05
						PYRENE	.14	mg/kg	J	Y	Y	P	J	15				CQ0XNS	12:05
	SW9010	METHOD	N	0	1	TOTAL CYANIDE	0.59	mg/kg	U	N	Y	U	U					CQ0XNS	00:00
KG0003	D2216	NONE	N	0	1	PERCENT MOISTURE				Y	Y	P						CQ0XRS	00:00
	SW6010	SW3050	N	0	1	ALUMINUM	13600	mg/kg		Y	Y	P						CQ0XRS	20:04
						ANTIMONY	7.3	mg/kg	U	N	Y	U	UJ	08A				CQ0XRS	20:04
						BARIUM	41.9	mg/kg		Y	Y	P						CQ0XRS	20:04
						BERYLLIUM	0.70	mg/kg		Y	Y	P						CQ0XRS	20:04
						CADMIUM	0.61	mg/kg	U	N	Y	U	U					CQ0XRS	20:04
						CALCIUM	1460	mg/kg		Y	Y	P						CQ0XRS	20:04
						CHROMIUM	30.0	mg/kg		Y	Y	P	J	08A				CQ0XRS	20:04
						COBALT	6.1	mg/kg	U	N	Y	U	UJ	08A				CQ0XRS	20:04
						COPPER	23.0	mg/kg		Y	Y	P						CQ0XRS	20:04
						IRON	49900	mg/kg		Y	Y	P						CQ0XRS	20:04
						MAGNESIUM	855	mg/kg		Y	Y	P						CQ0XRS	20:04
						MANGANESE	560	mg/kg		Y	Y	P	J	08A				CQ0XRS	20:04
						NICKEL	14.7	mg/kg		Y	Y	P						CQ0XRS	20:04
						SILVER	3.1	mg/kg		Y	Y	P						CQ0XRS	20:04
						VANADIUM	23.0	mg/kg		Y	Y	P						CQ0XRS	20:04
						ZINC	51.3	mg/kg		Y	Y	P	J	08A				CQ0XRS	20:04
	SW6010	SW3050	N	1	1	POTASSIUM	488	mg/kg	B	Y	Y	P	J	15				CQ0XRS	14:16
						SODIUM	66.5	mg/kg	B	Y	Y	F	B	06A	15			CQ0XRS	14:16
	SW6010	SW3050	N	2	1	ARSENIC	26.5	mg/kg		Y	Y	P						CQ0XRS	21:13
						LEAD	26.3	mg/kg		Y	Y	P						CQ0XRS	21:13
						SELENIUM	2.8	mg/kg		Y	Y	P						CQ0XRS	21:13
						THALLIUM	1.2	mg/kg	U	N	Y	U	U					CQ0XRS	21:13
	SW7471	TOTAL	N	0	1	MERCURY	0.081	mg/kg		Y	Y	P						CQ0XRS	16:11
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.0061	mg/kg	U	N	Y	U	U					CQ0XRS	00:42
						1,1,1-TRICHLOROETHANE	.0061	mg/kg	U	N	Y	U	U					CQ0XRS	00:42
						1,1,2,2-TETRACHLOROETHANE	.0061	mg/kg	U	N	Y	U	U					CQ0XRS	00:42
						1,1,2-TRICHLOROETHANE	.0061	mg/kg	U	N	Y	U	U					CQ0XRS	00:42
						1,1-DICHLOROETHANE	.0061	mg/kg	U	N	Y	U	U					CQ0XRS	00:42
						1,1-DICHLOROETHENE	.0061	mg/kg	U	N	Y	U	U					CQ0XRS	00:42
						1,1-DICHLOROPROPENE	.0061	mg/kg	U	N	Y	U	U					CQ0XRS	00:42
						1,2,3-TRICHLOROBENZENE	.0061	mg/kg	U	N	Y	U	UJ	04B	10A			CQ0XRS	00:42
						1,2,3-TRICHLOROPROPANE	.0061	mg/kg	U	N	Y	U	UJ	10A				CQ0XRS	00:42
						1,2,4-TRICHLOROBENZENE	.0061	mg/kg	U	N	Y	U	UJ	04B	10A			CQ0XRS	00:42
						1,2,4-TRIMETHYLBENZENE	.0061	mg/kg	U	N	Y	U	UJ	10A				CQ0XRS	00:42
						1,2-DIBROMO-3-CHLOROPROPANE	.012	mg/kg	U	N	Y	U	R	04A	05A	10A		CQ0XRS	00:42
						1,2-DIBROMOETHANE	.0061	mg/kg	U	N	Y	U	U					CQ0XRS	00:42
						1,2-DICHLOROBENZENE	.0061	mg/kg	U	N	Y	U	UJ	10A				CQ0XRS	00:42
						1,2-DICHLOROETHANE	[illegible]61	mg/kg	U	N	Y	U	U					CQ0XR[illegible]	00:42

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:
KG0003	SW8260	SW5030	N 0 1	1,2-DICHLOROPROPANE	.0061	mg/kg	U	N Y U	U					CQ0XRS	00:42
				1,3,5-TRIMETHYLBENZENE	.0061	mg/kg	U	N Y U	UJ	10A				CQ0XRS	00:42
				1,3-DICHLOROBENZENE	.0061	mg/kg	U	N Y U	UJ	10A				CQ0XRS	00:42
				1,3-DICHLOROPROPANE	.0061	mg/kg	U	N Y U	U					CQ0XRS	00:42
				1,4-DICHLOROBENZENE	.0061	mg/kg	U	N Y U	UJ	10A				CQ0XRS	00:42
				2,2-DICHLOROPROPANE	.0061	mg/kg	U	N Y U	U					CQ0XRS	00:42
				2-BUTANONE	.024	mg/kg	U	N Y U	R	04A	05A			CQ0XRS	00:42
				2-CHLOROTOLUENE	.0061	mg/kg	U	N Y U	UJ	10A				CQ0XRS	00:42
				2-HEXANONE	.024	mg/kg	U	N Y U	U					CQ0XRS	00:42
				4-CHLOROTOLUENE	.0061	mg/kg	U	N Y U	UJ	10A				CQ0XRS	00:42
				4-METHYL-2-PENTANONE	.024	mg/kg	U	N Y U	U					CQ0XRS	00:42
				ACETONE	.019	mg/kg	J B	Y Y F	B	04	05A	06A	07A	CQ0XRS	00:42
				BENZENE	.0061	mg/kg	U	N Y U	U					CQ0XRS	00:42
				BROMOBENZENE	.0061	mg/kg	U	N Y U	U					CQ0XRS	00:42
				BROMOCHLOROMETHANE	.0061	mg/kg	U	N Y U	U					CQ0XRS	00:42
				BROMODICHLOROMETHANE	.0061	mg/kg	U	N Y U	U					CQ0XRS	00:42
				BROMOFORM	.0061	mg/kg	U	N Y U	U					CQ0XRS	00:42
				BROMOMETHANE	.0038	mg/kg	J B	Y Y F	B	04B	06A	07A	15	CQ0XRS	00:42
				CARBON DISULFIDE	.0061	mg/kg	U	N Y U	U					CQ0XRS	00:42
				CARBON TETRACHLORIDE	.0061	mg/kg	U	N Y U	U					CQ0XRS	00:42
				CHLOROBENZENE	.0061	mg/kg	U	N Y U	U					CQ0XRS	00:42
				CHLORODIBROMOMETHANE	.0061	mg/kg	U	N Y U	U					CQ0XRS	00:42
				CHLOROETHANE	.012	mg/kg	U	N Y U	U					CQ0XRS	00:42
				CHLOROFORM	.0061	mg/kg	U	N Y U	U					CQ0XRS	00:42
				CHLOROMETHANE	.012	mg/kg	U	N Y U	U					CQ0XRS	00:42
				CIS-1,2-DICHLOROETHENE	.0061	mg/kg	U	N Y U	U					CQ0XRS	00:42
				CIS-1,3-DICHLOROPROPENE	.0061	mg/kg	U	N Y U	U					CQ0XRS	00:42
				DIBROMOMETHANE	.0061	mg/kg	U	N Y U	U					CQ0XRS	00:42
				DICHLORODIFLUOROMETHANE	.012	mg/kg	U	N Y U	U					CQ0XRS	00:42
				ETHYLBENZENE	.0061	mg/kg	U	N Y U	U					CQ0XRS	00:42
				HEXACHLOROBUTADIENE	.0061	mg/kg	U	N Y U	UJ	10A				CQ0XRS	00:42
				ISOPROPYLBENZENE	.0061	mg/kg	U	N Y U	U					CQ0XRS	00:42
				M-XYLENE & P-XYLENE	.0061	mg/kg	U	N Y U	U					CQ0XRS	00:42
				METHYLENE CHLORIDE	.0034	mg/kg	J B	Y Y F	B	06A	15			CQ0XRS	00:42
				N-BUTYLBENZENE	.0061	mg/kg	U	N Y U	UJ	10A				CQ0XRS	00:42
				N-PROPYLBENZENE	.0061	mg/kg	U	N Y U	UJ	10A				CQ0XRS	00:42
				NAPHTHALENE	.0061	mg/kg	U	N Y U	UJ	04B	10A			CQ0XRS	00:42
				O-XYLENE	.0061	mg/kg	U	N Y U	U					CQ0XRS	00:42
				P-ISOPROPYLTOLUENE	.0061	mg/kg	U	N Y U	UJ	10A				CQ0XRS	00:42
				SEC-BUTYLBENZENE	.0061	mg/kg	U	N Y U	UJ	10A				CQ0XRS	00:42
				STYRENE	.0061	mg/kg	U	N Y U	U					CQ0XRS	00:42
				TERT-BUTYLBENZENE	.0061	mg/kg	U	N Y U	UJ	10A				CQ0XRS	00:42
				TETRACHLOROETHENE	.0061	mg/kg	U	N Y U	U					CQ0XRS	00:42
				TOLUENE	.0061	mg/kg	U	N Y U	U					CQ0XRS	00:42

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:
KG0003	SW8260	SW5030	N	0	1	TRANS-1,2-DICHLOROETHENE	.0061	mg/kg	U	N	Y	U	U					CQ0XRS	00:42
						TRANS-1,3-DICHLOROPROPENE	.0061	mg/kg	U	N	Y	U	U					CQ0XRS	00:42
						TRICHLOROETHENE	.0061	mg/kg	U	N	Y	U	U					CQ0XRS	00:42
						TRICHLOROFLUOROMETHANE	.012	mg/kg	U	N	Y	U	U					CQ0XRS	00:42
						VINYL CHLORIDE	.012	mg/kg	U	N	Y	U	U					CQ0XRS	00:42
	SW8270	SW3550	N	0	1	1,2,4-TRICHLOROBENZENE	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						1,2-DICHLOROBENZENE	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						1,3-DICHLOROBENZENE	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						1,4-DICHLOROBENZENE	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						2,2'-OXYBIS(1-CHLOROPROPANE)	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						2,4,5-TRICHLOROPHENOL	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						2,4,6-TRICHLOROPHENOL	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						2,4-DICHLOROPHENOL	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						2,4-DIMETHYLPHENOL	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						2,4-DINITROPHENOL	2	mg/kg	U	N	Y	U	UJ	05B				CQ0XRS	12:45
						2,4-DINITROTOLUENE	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						2,6-DINITROTOLUENE	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						2-CHLORONAPHTHALENE	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						2-CHLOROPHENOL	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						2-METHYLNAPHTHALENE	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						2-METHYLPHENOL	.4	mg/kg	U	N	Y	U	UJ	05B				CQ0XRS	12:45
						2-NITROANILINE	2	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						2-NITROPHENOL	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						3,3'-DICHLOROBENZIDINE	2	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						3-NITROANILINE	2	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						4,6-DINITRO-2-METHYLPHENOL	2	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						4-BROMOPHENYL PHENYL ETHER	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						4-CHLORO-3-METHYLPHENOL	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						4-CHLOROANILINE	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						4-CHLOROPHENYL PHENYL ETHER	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						4-METHYLPHENOL	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						4-NITROANILINE	2	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						4-NITROPHENOL	2	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						ACENAPHTHENE	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						ACENAPHTHYLENE	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						ANTHRACENE	.041	mg/kg	J	Y	Y	P	J	15				CQ0XRS	12:45
						BENZ(A)ANTHRACENE	.11	mg/kg	J	Y	Y	P	J	15				CQ0XRS	12:45
						BENZO(A)PYRENE	.11	mg/kg	J	Y	Y	P	J	15				CQ0XRS	12:45
						BENZO(B)FLUORANTHENE	.13	mg/kg	J	Y	Y	P	J	15				CQ0XRS	12:45
						BENZO(GHI)PERYLENE	.059	mg/kg	J	Y	Y	P	J	15				CQ0XRS	12:45
						BENZO(K)FLUORANTHENE	.096	mg/kg	J	Y	Y	P	J	15				CQ0XRS	12:45
						BIS(2-CHLOROETHOXY)METHANE	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						BIS(2-CHLOROETHYL) ETHER	[illegible]	mg/kg	U	N	Y	U	U					CQ0XR	12:45

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:
KG0003	SW8270	SW3550	N	0	1	BIS(2-ETHYLHEXYL) PHTHALATE	.067	mg/kg	J B	Y	Y	F	B	06A	15			CQ0XRS	12:45
						BUTYL BENZYL PHTHALATE	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						CARBAZOLE	.041	mg/kg	J	Y	Y	P	J	15				CQ0XRS	12:45
						CHRYSENE	.12	mg/kg	J	Y	Y	P	J	15				CQ0XRS	12:45
						DI-N-BUTYL PHTHALATE	.083	mg/kg	J B	Y	Y	F	B	06A	15			CQ0XRS	12:45
						DI-N-OCTYL PHTHALATE	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						DIBENZ(A,H)ANTHRACENE	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						DIBENZOFURAN	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						DIETHYL PHTHALATE	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						DIMETHYL PHTHALATE	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						FLUORANTHENE	.28	mg/kg	J	Y	Y	P	J	15				CQ0XRS	12:45
						FLUORENE	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						HEXACHLOROBENZENE	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						HEXACHLOROBUTADIENE	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						HEXACHLOROCYCLOPENTADIENE	2	mg/kg	U	N	Y	U	UJ	04B				CQ0XRS	12:45
						HEXACHLOROETHANE	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						INDENO(1,2,3-CD)PYRENE	.058	mg/kg	J	Y	Y	P	J	15				CQ0XRS	12:45
						ISOPHORONE	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						N-NITROSODI-N-PROPYLAMINE	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						N-NITROSODIPHENYLAMINE	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						NAPHTHALENE	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						NITROBENZENE	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						PENTACHLOROPHENOL	2	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						PHENANTHRENE	.18	mg/kg	J	Y	Y	P	J	15				CQ0XRS	12:45
						PHENOL	.4	mg/kg	U	N	Y	U	U					CQ0XRS	12:45
						PYRENE	.23	mg/kg	J	Y	Y	P	J	15				CQ0XRS	12:45
	SW9010	METHOD	N	0	1	TOTAL CYANIDE	0.61	mg/kg	U	N	Y	U	U					CQ0XRS	00:00
KG0004	D2216	NONE	N	0	1	PERCENT MOISTURE				Y	Y	P						CQ0XXS	00:00
	SW6010	SW3050	N	0	1	ALUMINUM	19000	mg/kg		Y	Y	P						CQ0XXS	20:09
						ANTIMONY	7.9	mg/kg	U	N	Y	U	UJ	08A				CQ0XXS	20:09
						BARIUM	60.5	mg/kg		Y	Y	P						CQ0XXS	20:09
						BERYLLIUM	2.3	mg/kg		Y	Y	P						CQ0XXS	20:09
						CADMIUM	0.66	mg/kg	U	N	Y	U	U					CQ0XXS	20:09
						CALCIUM	2540	mg/kg		Y	Y	P						CQ0XXS	20:09
						CHROMIUM	42.7	mg/kg		Y	Y	P	J	08A				CQ0XXS	20:09
						COBALT	6.6	mg/kg	U	N	Y	U	UJ	08A				CQ0XXS	20:09
						COPPER	73.2	mg/kg		Y	Y	P						CQ0XXS	20:09
						MAGNESIUM	990	mg/kg		Y	Y	P						CQ0XXS	20:09
						MANGANESE	122	mg/kg		Y	Y	P	J	08A				CQ0XXS	20:09
						NICKEL	56.4	mg/kg		Y	Y	P						CQ0XXS	20:09
						SILVER	4.5	mg/kg		Y	Y	P						CQ0XXS	20:09
						VANADIUM	25.3	mg/kg		Y	Y	P						CQ0XXS	20:09
						ZINC	143	mg/kg		Y	Y	P	J	08A				CQ0XXS	20:09

Validation Qualifier Data Entry Verification

Run Date: December 13, 2000

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:
KG0004	SW6010	SW3050	N	1	1	POTASSIUM	464	mg/kg	B	Y	Y	P	J	15				CQ0XXS	14:21
						SODIUM	86.4	mg/kg	B	Y	Y	F	B	06A	15			CQ0XXS	14:21
	SW6010	SW3050	N	2	1	ARSENIC	36.5	mg/kg		Y	Y	P						CQ0XXS	21:18
						LEAD	29.7	mg/kg		Y	Y	P						CQ0XXS	21:18
						SELENIUM	2.1	mg/kg		Y	Y	P						CQ0XXS	21:18
						THALLIUM	1.3	mg/kg	U	N	Y	U	U					CQ0XXS	21:18
	SW6010	SW3050	N	3	2	IRON	76800	mg/kg		Y	Y	P						CQ0XXS	13:37
	SW7471	TOTAL	N	0	1	MERCURY	0.15	mg/kg		Y	Y	P						CQ0XXS	16:14
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						1,1,1-TRICHLOROETHANE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						1,1,2,2-TETRACHLOROETHANE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						1,1,2-TRICHLOROETHANE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						1,1-DICHLOROETHANE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						1,1-DICHLOROETHENE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						1,1-DICHLOROPROPENE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						1,2,3-TRICHLOROBENZENE	.0066	mg/kg	U	N	Y	U	UJ	04B	10A			CQ0XXS	01:07
						1,2,3-TRICHLOROPROPANE	.0066	mg/kg	U	N	Y	U	UJ	10A				CQ0XXS	01:07
						1,2,4-TRICHLOROBENZENE	.0066	mg/kg	U	N	Y	U	UJ	04B	10A			CQ0XXS	01:07
						1,2,4-TRIMETHYLBENZENE	.0066	mg/kg	U	N	Y	U	UJ	10A				CQ0XXS	01:07
						1,2-DIBROMO-3-CHLOROPROPANE	.013	mg/kg	U	N	Y	U	R	04A	05A	10A		CQ0XXS	01:07
						1,2-DIBROMOETHANE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						1,2-DICHLOROBENZENE	.0066	mg/kg	U	N	Y	U	UJ	10A				CQ0XXS	01:07
						1,2-DICHLOROETHANE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						1,2-DICHLOROPROPANE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						1,3,5-TRIMETHYLBENZENE	.0066	mg/kg	U	N	Y	U	UJ	10A				CQ0XXS	01:07
						1,3-DICHLOROBENZENE	.0066	mg/kg	U	N	Y	U	UJ	10A				CQ0XXS	01:07
						1,3-DICHLOROPROPANE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						1,4-DICHLOROBENZENE	.0066	mg/kg	U	N	Y	U	UJ	10A				CQ0XXS	01:07
						2,2-DICHLOROPROPANE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						2-BUTANONE	.026	mg/kg	U	N	Y	U	R	04A	05A			CQ0XXS	01:07
						2-CHLOROTOLUENE	.0066	mg/kg	U	N	Y	U	UJ	10A				CQ0XXS	01:07
						2-HEXANONE	.026	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						4-CHLOROTOLUENE	.0066	mg/kg	U	N	Y	U	UJ	10A				CQ0XXS	01:07
						4-METHYL-2-PENTANONE	.026	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						ACETONE	6.8	mg/kg	B E	Y	N	F	R	16				CQ0XXS	01:07
						BENZENE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						BROMOBENZENE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						BROMOCHLOROMETHANE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						BROMODICHLOROMETHANE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						BROMOFORM	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						BROMOMETHANE	.0039	mg/kg	J B	Y	Y	F	B	04B	06A			CQ0XXS	01:07
						CARBON DISULFIDE	0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						CARBON TETRACHLORIDE	66	mg/kg	U	N	Y	U	U					CQ0XX	01:07

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:
KG0004	SW8260	SW5030	N	0	1	CHLOROBENZENE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						CHLORODIBROMOMETHANE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						CHLOROETHANE	.013	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						CHLOROFORM	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						CHLOROMETHANE	.013	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						CIS-1,2-DICHLOROETHENE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						CIS-1,3-DICHLOROPROPENE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						DIBROMOMETHANE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						DICHLORODIFLUOROMETHANE	.013	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						ETHYLBENZENE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						HEXACHLOROBUTADIENE	.0066	mg/kg	U	N	Y	U	UJ	10A				CQ0XXS	01:07
						ISOPROPYLBENZENE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						M-XYLENE & P-XYLENE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						METHYLENE CHLORIDE	.0037	mg/kg	J B	Y	Y	F	B	06A	15			CQ0XXS	01:07
						N-BUTYLBENZENE	.0066	mg/kg	U	N	Y	U	UJ	10A				CQ0XXS	01:07
						N-PROPYLBENZENE	.0066	mg/kg	U	N	Y	U	UJ	10A				CQ0XXS	01:07
						NAPHTHALENE	.0066	mg/kg	U	N	Y	U	UJ	04B	10A			CQ0XXS	01:07
						O-XYLENE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						P-ISOPROPYLTOLUENE	.0066	mg/kg	U	N	Y	U	UJ	10A				CQ0XXS	01:07
						SEC-BUTYLBENZENE	.0066	mg/kg	U	N	Y	U	UJ	10A				CQ0XXS	01:07
						STYRENE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						TERT-BUTYLBENZENE	.0066	mg/kg	U	N	Y	U	UJ	10A				CQ0XXS	01:07
						TETRACHLOROETHENE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						TOLUENE	.039	mg/kg		Y	Y	P						CQ0XXS	01:07
						TRANS-1,2-DICHLOROETHENE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						TRANS-1,3-DICHLOROPROPENE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						TRICHLOROETHENE	.0066	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						TRICHLOROFLUOROMETHANE	.013	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
						VINYL CHLORIDE	.013	mg/kg	U	N	Y	U	U					CQ0XXS	01:07
	SW8260	SW5030	N	1	1	ACETONE	10	mg/kg	D B	Y	Y	P	J	04A	05A			CQ0XXS	20:56
	SW8270	SW3550	N	0	1	1,2,4-TRICHLOROBENZENE	.43	mg/kg	U	N	Y	U	U					CQ0XXS	20:01
						1,2-DICHLOROBENZENE	.43	mg/kg	U	N	Y	U	U					CQ0XXS	20:01
						1,3-DICHLOROBENZENE	.43	mg/kg	U	N	Y	U	U					CQ0XXS	20:01
						1,4-DICHLOROBENZENE	.43	mg/kg	U	N	Y	U	U					CQ0XXS	20:01
						2,2'-OXYBIS(1-CHLOROPROPANE)	.43	mg/kg	U	N	Y	U	U					CQ0XXS	20:01
						2,4,5-TRICHLOROPHENOL	.43	mg/kg	U	N	Y	U	U					CQ0XXS	20:01
						2,4,6-TRICHLOROPHENOL	.43	mg/kg	U	N	Y	U	U					CQ0XXS	20:01
						2,4-DICHLOROPHENOL	.43	mg/kg	U	N	Y	U	U					CQ0XXS	20:01
						2,4-DIMETHYLPHENOL	.43	mg/kg	U	N	Y	U	U					CQ0XXS	20:01
						2,4-DINITROPHENOL	2.1	mg/kg	U	N	Y	U	U					CQ0XXS	20:01
						2,4-DINITROTOLUENE	.43	mg/kg	U	N	Y	U	U					CQ0XXS	20:01
						2,6-DINITROTOLUENE	.43	mg/kg	U	N	Y	U	U					CQ0XXS	20:01
						2-CHLORONAPHTHALENE	.43	mg/kg	U	N	Y	U	U					CQ0XXS	20:01

Validation Qualifier Data Entry Verification

Run Date: December 13, 2000

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:
KG0004	SW8270	SW3550	N 0 1	2-CHLOROPHENOL	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				2-METHYLNAPHTHALENE	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				2-METHYLPHENOL	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				2-NITROANILINE	2.1	mg/kg	U	N Y U	U					CQ0XXS	20:01
				2-NITROPHENOL	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				3,3'-DICHLOROBENZIDINE	2.1	mg/kg	U	N Y U	U					CQ0XXS	20:01
				3-NITROANILINE	2.1	mg/kg	U	N Y U	U					CQ0XXS	20:01
				4,6-DINITRO-2-METHYLPHENOL	2.1	mg/kg	U	N Y U	U					CQ0XXS	20:01
				4-BROMOPHENYL PHENYL ETHER	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				4-CHLORO-3-METHYLPHENOL	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				4-CHLOROANILINE	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				4-CHLOROPHENYL PHENYL ETHER	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				4-METHYLPHENOL	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				4-NITROANILINE	2.1	mg/kg	U	N Y U	U					CQ0XXS	20:01
				4-NITROPHENOL	2.1	mg/kg	U	N Y U	U					CQ0XXS	20:01
				ACENAPHTHENE	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				ACENAPHTHYLENE	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				ANTHRACENE	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				BENZ(A)ANTHRACENE	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				BENZO(A)PYRENE	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				BENZO(B)FLUORANTHENE	.43	mg/kg	U	N Y U	UJ	05B				CQ0XXS	20:01
				BENZO(GHI)PERYLENE	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				BENZO(K)FLUORANTHENE	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				BIS(2-CHLOROETHOXY)METHANE	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				BIS(2-CHLOROETHYL) ETHER	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				BIS(2-ETHYLHEXYL) PHTHALATE	.1	mg/kg	J B	Y Y F	B	06A	15			CQ0XXS	20:01
				BUTYL BENZYL PHTHALATE	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				CARBAZOLE	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				CHRYSENE	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				DI-N-BUTYL PHTHALATE	.12	mg/kg	J B	Y Y F	B	06A	15			CQ0XXS	20:01
				DI-N-OCTYL PHTHALATE	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				DIBENZ(A,H)ANTHRACENE	.43	mg/kg	U	N Y U	UJ	05B				CQ0XXS	20:01
				DIBENZOFURAN	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				DIETHYL PHTHALATE	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				DIMETHYL PHTHALATE	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				FLUORANTHENE	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				FLUORENE	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				HEXACHLOROBENZENE	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				HEXACHLOROBUTADIENE	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				HEXACHLOROCYCLOPENTADIENE	2.1	mg/kg	U	N Y U	UJ	04B	05B			CQ0XXS	20:01
				HEXACHLOROETHANE	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				INDENO(1,2,3-CD)PYRENE	.43	mg/kg	U	N Y U	UJ	05B				CQ0XXS	20:01
				ISOPHORONE	.43	mg/kg	U	N Y U	U					CQ0XXS	20:01
				N-NITROSODI-N-PROPYLAMINE	3	mg/kg	U	N Y U	U					CQ0X[illegible]	20:01

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:
KG0004	SW8270	SW3550	N	0	1	N-NITROSODIPHENYLAMINE	.43	mg/kg	U	N	Y	U	U					CQ0XXS	20:01
						NAPHTHALENE	.43	mg/kg	U	N	Y	U	U					CQ0XXS	20:01
						NITROBENZENE	.43	mg/kg	U	N	Y	U	U					CQ0XXS	20:01
						PENTACHLOROPHENOL	2.1	mg/kg	U	N	Y	U	U					CQ0XXS	20:01
						PHENANTHRENE	.43	mg/kg	U	N	Y	U	U					CQ0XXS	20:01
						PHENOL	.43	mg/kg	U	N	Y	U	U					CQ0XXS	20:01
						PYRENE	.43	mg/kg	U	N	Y	U	U					CQ0XXS	20:01
	SW9010	METHOD	N	0	1	TOTAL CYANIDE	0.66	mg/kg	U	N	Y	U	U					CQ0XXS	00:00
KG0005	D2216	NONE	N	0	1	PERCENT MOISTURE				Y	Y	P						CQ100S	00:00
	SW6010	SW3050	N	0	1	ALUMINUM	14000	mg/kg		Y	Y	P						CQ100S	20:14
						ANTIMONY	7.5	mg/kg	U	N	Y	U	UJ	08A				CQ100S	20:14
						BARIUM	39.9	mg/kg		Y	Y	P						CQ100S	20:14
						BERYLLIUM	1.1	mg/kg		Y	Y	P						CQ100S	20:14
						CADMIUM	0.40	mg/kg	B	Y	Y	P	J	15				CQ100S	20:14
						CALCIUM	4120	mg/kg		Y	Y	P						CQ100S	20:14
						CHROMIUM	32.9	mg/kg		Y	Y	P	J	08A				CQ100S	20:14
						COBALT	6.3	mg/kg		Y	Y	P	J	08A				CQ100S	20:14
						COPPER	32.8	mg/kg		Y	Y	P						CQ100S	20:14
						IRON	37000	mg/kg		Y	Y	P						CQ100S	20:14
						MAGNESIUM	2360	mg/kg		Y	Y	P						CQ100S	20:14
						MANGANESE	160	mg/kg		Y	Y	P	J	08A				CQ100S	20:14
						NICKEL	39.9	mg/kg		Y	Y	P	J	08A				CQ100S	20:14
						SILVER	2.6	mg/kg		Y	Y	P						CQ100S	20:14
						VANADIUM	22.1	mg/kg		Y	Y	P						CQ100S	20:14
						ZINC	78.3	mg/kg		Y	Y	P	J	08A				CQ100S	20:14
	SW6010	SW3050	N	1	1	POTASSIUM	669	mg/kg		Y	Y	P						CQ100S	14:26
						SODIUM	85.9	mg/kg	B	Y	Y	F	B	06A	15			CQ100S	14:26
	SW6010	SW3050	N	2	1	ARSENIC	17.0	mg/kg		Y	Y	P						CQ100S	21:23
						LEAD	24.6	mg/kg		Y	Y	P						CQ100S	21:23
						SELENIUM	1.2	mg/kg		Y	Y	P						CQ100S	21:23
						THALLIUM	0.94	mg/kg	B	Y	Y	P	J	15				CQ100S	21:23
	SW7471	TOTAL	N	0	1	MERCURY	0.27	mg/kg		Y	Y	P						CQ100S	16:16
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.0062	mg/kg	U	N	Y	U	U					CQ100S	18:07
						1,1,1-TRICHLOROETHANE	.0062	mg/kg	U	N	Y	U	U					CQ100S	18:07
						1,1,2,2-TETRACHLOROETHANE	.0062	mg/kg	U	N	Y	U	U					CQ100S	18:07
						1,1,2-TRICHLOROETHANE	.0062	mg/kg	U	N	Y	U	U					CQ100S	18:07
						1,1-DICHLOROETHANE	.0062	mg/kg	U	N	Y	U	U					CQ100S	18:07
						1,1-DICHLOROETHENE	.0062	mg/kg	U	N	Y	U	U					CQ100S	18:07
						1,1-DICHLOROPROPENE	.0062	mg/kg	U	N	Y	U	U					CQ100S	18:07
						1,2,3-TRICHLOROBENZENE	.0062	mg/kg	U	N	Y	U	UJ	04B				CQ100S	18:07
						1,2,3-TRICHLOROPROPANE	.0062	mg/kg	U	N	Y	U	U					CQ100S	18:07
						1,2,4-TRICHLOROBENZENE	.0062	mg/kg	U	N	Y	U	UJ	04B				CQ100S	18:07

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:
KG0005	SW8260	SW5030	N 0 1	1,2,4-TRIMETHYLBENZENE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				1,2-DIBROMO-3-CHLOROPROPANE	.012	mg/kg	U	N Y U	R	04A	05A			CQ100S	18:07
				1,2-DIBROMOETHANE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				1,2-DICHLOROBENZENE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				1,2-DICHLOROETHANE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				1,2-DICHLOROPROPANE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				1,3,5-TRIMETHYLBENZENE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				1,3-DICHLOROBENZENE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				1,3-DICHLOROPROPANE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				1,4-DICHLOROBENZENE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				2,2-DICHLOROPROPANE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				2-BUTANONE	.025	mg/kg	U	N Y U	R	04A	05A			CQ100S	18:07
				2-CHLOROTOLUENE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				2-HEXANONE	.025	mg/kg	U	N Y U	U					CQ100S	18:07
				4-CHLOROTOLUENE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				4-METHYL-2-PENTANONE	.025	mg/kg	U	N Y U	U					CQ100S	18:07
				ACETONE	.0089	mg/kg	J	Y Y F	B	04A	04B	05A	06C	CQ100S	18:07
				BENZENE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				BROMOBENZENE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				BROMOCHLOROMETHANE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				BROMODICHLOROMETHANE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				BROMOFORM	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				BROMOMETHANE	.0016	mg/kg	J B	Y Y F	B	04B	05B	06A		CQ100S	18:07
				CARBON DISULFIDE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				CARBON TETRACHLORIDE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				CHLOROBENZENE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				CHLORODIBROMOMETHANE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				CHLOROETHANE	.012	mg/kg	U	N Y U	U					CQ100S	18:07
				CHLOROFORM	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				CHLOROMETHANE	.012	mg/kg	U	N Y U	U					CQ100S	18:07
				CIS-1,2-DICHLOROETHENE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				CIS-1,3-DICHLOROPROPENE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				DIBROMOMETHANE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				DICHLORODIFLUOROMETHANE	.012	mg/kg	U	N Y U	U					CQ100S	18:07
				ETHYLBENZENE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				HEXACHLOROBUTADIENE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				ISOPROPYLBENZENE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				M-XYLENE & P-XYLENE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				METHYLENE CHLORIDE	.0033	mg/kg	J B	Y Y F	B	06A	15			CQ100S	18:07
				N-BUTYLBENZENE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				N-PROPYLBENZENE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				NAPHTHALENE	.019	mg/kg		Y Y P	J	04B	05B			CQ100S	18:07
				O-XYLENE	.0062	mg/kg	U	N Y U	U					CQ100S	18:07
				P-ISOPROPYLTOLUENE	062	mg/kg	U	N Y U	U					CQ100	18:07

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:
KG0005	SW8260	SW5030	N 0 1	SEC-BUTYLBENZENE	.0062	mg/kg	U	N Y U	U		CQ100S	18:07
				STYRENE	.0062	mg/kg	U	N Y U	U		CQ100S	18:07
				TERT-BUTYLBENZENE	.0062	mg/kg	U	N Y U	U		CQ100S	18:07
				TETRACHLOROETHENE	.0062	mg/kg	U	N Y U	U		CQ100S	18:07
				TOLUENE	.0062	mg/kg	U	N Y U	U		CQ100S	18:07
				TRANS-1,2-DICHLOROETHENE	.0062	mg/kg	U	N Y U	U		CQ100S	18:07
				TRANS-1,3-DICHLOROPROPENE	.0062	mg/kg	U	N Y U	U		CQ100S	18:07
				TRICHLOROETHENE	.0062	mg/kg	U	N Y U	U		CQ100S	18:07
				TRICHLOROFLUOROMETHANE	.012	mg/kg	U	N Y U	U		CQ100S	18:07
				VINYL CHLORIDE	.012	mg/kg	U	N Y U	U		CQ100S	18:07
	SW8270	SW3550	N 0 1	1,2,4-TRICHLOROBENZENE	.41	mg/kg	U	N Y U	U		CQ100S	17:29
				1,2-DICHLOROBENZENE	.41	mg/kg	U	N Y U	U		CQ100S	17:29
				1,3-DICHLOROBENZENE	.41	mg/kg	U	N Y U	U		CQ100S	17:29
				1,4-DICHLOROBENZENE	.41	mg/kg	U	N Y U	U		CQ100S	17:29
				2,2'-OXYBIS(1-CHLOROPROPANE)	.41	mg/kg	U	N Y U	U		CQ100S	17:29
				2,4,5-TRICHLOROPHENOL	.41	mg/kg	U	N Y U	U		CQ100S	17:29
				2,4,6-TRICHLOROPHENOL	.41	mg/kg	U	N Y U	U		CQ100S	17:29
				2,4-DICHLOROPHENOL	.41	mg/kg	U	N Y U	U		CQ100S	17:29
				2,4-DIMETHYLPHENOL	.41	mg/kg	U	N Y U	U		CQ100S	17:29
				2,4-DINITROPHENOL	2	mg/kg	U	N Y U	U		CQ100S	17:29
				2,4-DINITROTOLUENE	.41	mg/kg	U	N Y U	U		CQ100S	17:29
				2,6-DINITROTOLUENE	.41	mg/kg	U	N Y U	U		CQ100S	17:29
				2-CHLORONAPHTHALENE	.41	mg/kg	U	N Y U	U		CQ100S	17:29
				2-CHLOROPHENOL	.41	mg/kg	U	N Y U	U		CQ100S	17:29
				2-METHYLNAPHTHALENE	.68	mg/kg		Y Y P			CQ100S	17:29
				2-METHYLPHENOL	.41	mg/kg	U	N Y U	U		CQ100S	17:29
				2-NITROANILINE	2	mg/kg	U	N Y U	U		CQ100S	17:29
				2-NITROPHENOL	.41	mg/kg	U	N Y U	U		CQ100S	17:29
				3,3'-DICHLOROBENZIDINE	2	mg/kg	U	N Y U	U		CQ100S	17:29
				3-NITROANILINE	2	mg/kg	U	N Y U	U		CQ100S	17:29
				4,6-DINITRO-2-METHYLPHENOL	2	mg/kg	U	N Y U	U		CQ100S	17:29
				4-BROMOPHENYL PHENYL ETHER	.41	mg/kg	U	N Y U	U		CQ100S	17:29
				4-CHLORO-3-METHYLPHENOL	.41	mg/kg	U	N Y U	U		CQ100S	17:29
				4-CHLOROANILINE	.41	mg/kg	U	N Y U	U		CQ100S	17:29
				4-CHLOROPHENYL PHENYL ETHER	.41	mg/kg	U	N Y U	U		CQ100S	17:29
				4-METHYLPHENOL	.41	mg/kg	U	N Y U	U		CQ100S	17:29
				4-NITROANILINE	2	mg/kg	U	N Y U	U		CQ100S	17:29
				4-NITROPHENOL	2	mg/kg	U	N Y U	U		CQ100S	17:29
				ACENAPHTHENE	.36	mg/kg	J	Y Y P	J	15	CQ100S	17:29
				ACENAPHTHYLENE	.28	mg/kg	J	Y Y P	J	15	CQ100S	17:29
				ANTHRACENE	.89	mg/kg		Y Y P			CQ100S	17:29
				BENZ(A)ANTHRACENE	.7	mg/kg		Y Y P			CQ100S	17:29
				BENZO(A)PYRENE	.5	mg/kg		Y Y P			CQ100S	17:29

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:
KG0005	SW8270	SW3550	N	0	1	BENZO(B)FLUORANTHENE	.4	mg/kg	J	Y	Y	P	J	15				CQ100S	17:29
						BENZO(GHI)PERYLENE	.26	mg/kg	J	Y	Y	P	J	15				CQ100S	17:29
						BENZO(K)FLUORANTHENE	.43	mg/kg		Y	Y	P						CQ100S	17:29
						BIS(2-CHLOROETHOXY)METHANE	.41	mg/kg	U	N	Y	U	U					CQ100S	17:29
						BIS(2-CHLOROETHYL) ETHER	.41	mg/kg	U	N	Y	U	U					CQ100S	17:29
						BIS(2-ETHYLHEXYL) PHTHALATE	.074	mg/kg	J B	Y	Y	F	B	06A	15			CQ100S	17:29
						BUTYL BENZYL PHTHALATE	.41	mg/kg	U	N	Y	U	U					CQ100S	17:29
						CARBAZOLE	.24	mg/kg	J	Y	Y	P	J	15				CQ100S	17:29
						CHRYSENE	.63	mg/kg		Y	Y	P						CQ100S	17:29
						DI-N-BUTYL PHTHALATE	.076	mg/kg	J B	Y	Y	F	B	06A	15			CQ100S	17:29
						DI-N-OCTYL PHTHALATE	.41	mg/kg	U	N	Y	U	U					CQ100S	17:29
						DIBENZ(A,H)ANTHRACENE	.13	mg/kg	J	Y	Y	P	J	15				CQ100S	17:29
						DIBENZOFURAN	.46	mg/kg		Y	Y	P						CQ100S	17:29
						DIETHYL PHTHALATE	.41	mg/kg	U	N	Y	U	U					CQ100S	17:29
						DIMETHYL PHTHALATE	.41	mg/kg	U	N	Y	U	U					CQ100S	17:29
						FLUORANTHENE	1.8	mg/kg		Y	Y	P						CQ100S	17:29
						FLUORENE	1	mg/kg		Y	Y	P						CQ100S	17:29
						HEXACHLOROBENZENE	.41	mg/kg	U	N	Y	U	U					CQ100S	17:29
						HEXACHLOROBUTADIENE	.41	mg/kg	U	N	Y	U	U					CQ100S	17:29
						HEXACHLOROCYCLOPENTADIENE	2	mg/kg	U	N	Y	U	UJ	04B	05B			CQ100S	17:29
						HEXACHLOROETHANE	.41	mg/kg	U	N	Y	U	U					CQ100S	17:29
						INDENO(1,2,3-CD)PYRENE	.24	mg/kg	J	Y	Y	P	J	15				CQ100S	17:29
						ISOPHORONE	.41	mg/kg	U	N	Y	U	U					CQ100S	17:29
						N-NITROSODI-N-PROPYLAMINE	.41	mg/kg	U	N	Y	U	U					CQ100S	17:29
						N-NITROSODIPHENYLAMINE	.41	mg/kg	U	N	Y	U	U					CQ100S	17:29
						NAPHTHALENE	.27	mg/kg	J	Y	Y	P	J	15				CQ100S	17:29
						NITROBENZENE	.41	mg/kg	U	N	Y	U	U					CQ100S	17:29
						PENTACHLOROPHENOL	2	mg/kg	U	N	Y	U	U					CQ100S	17:29
						PHENANTHRENE	3.4	mg/kg		Y	Y	P						CQ100S	17:29
						PHENOL	.41	mg/kg	U	N	Y	U	U					CQ100S	17:29
						PYRENE	1.6	mg/kg		Y	Y	P						CQ100S	17:29
	SW9010	METHOD	N	0	1	TOTAL CYANIDE	0.62	mg/kg	U	N	Y	U	U					CQ100S	00:00
KG0006	D2216	NONE	N	0	1	PERCENT MOISTURE				Y	Y	P						CQ103S	00:00
	SW6010	SW3050	N	0	1	ALUMINUM	16300	mg/kg		Y	Y	P						CQ103S	20:28
						ANTIMONY	7.6	mg/kg	U	N	Y	U	UJ	08A				CQ103S	20:28
						BARIUM	57.4	mg/kg		Y	Y	P						CQ103S	20:28
						BERYLLIUM	2.4	mg/kg		Y	Y	P						CQ103S	20:28
						CADMIUM	0.63	mg/kg	U	N	Y	U	U					CQ103S	20:28
						CALCIUM	1200	mg/kg		Y	Y	P						CQ103S	20:28
						CHROMIUM	28.2	mg/kg		Y	Y	P	J	08A				CQ103S	20:28
						COBALT	16.6	mg/kg		Y	Y	P	J	08A				CQ103S	20:28
						COPPER	48.5	mg/kg		Y	Y	P						CQ103S	20:28
						IRON	56700	mg/kg		Y	Y	P						CQ103S	20:28

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:
KG0006	SW6010	SW3050	N 0 1	MAGNESIUM	1490	mg/kg		Y Y P						CQ103S	20:28
				MANGANESE	357	mg/kg		Y Y P	J	08A				CQ103S	20:28
				NICKEL	80.6	mg/kg		Y Y P						CQ103S	20:28
				SILVER	3.5	mg/kg		Y Y P						CQ103S	20:28
				VANADIUM	25.3	mg/kg		Y Y P						CQ103S	20:28
				ZINC	206	mg/kg		Y Y P	J	08A				CQ103S	20:28
	SW6010	SW3050	N 1 1	POTASSIUM	752	mg/kg		Y Y P						CQ103S	14:30
				SODIUM	72.8	mg/kg	B	Y Y F	B	06A	15			CQ103S	14:30
	SW6010	SW3050	N 2 1	ARSENIC	31.8	mg/kg		Y Y P						CQ103S	17:24
				LEAD	30.6	mg/kg		Y Y P						CQ103S	17:24
				SELENIUM	1.6	mg/kg		Y Y P						CQ103S	17:24
				THALLIUM	0.80	mg/kg	B	Y Y P	J	15				CQ103S	17:24
	SW7471	TOTAL	N 0 1	MERCURY	0.27	mg/kg		Y Y P						CQ103S	16:18
	SW8260	SW5030	N 0 1	1,1,1,2-TETRACHLOROETHANE	.0063	mg/kg	U	N Y U	U					CQ103S	01:57
				1,1,1-TRICHLOROETHANE	.0063	mg/kg	U	N Y U	U					CQ103S	01:57
				1,1,2,2-TETRACHLOROETHANE	.0063	mg/kg	U	N Y U	U					CQ103S	01:57
				1,1,2-TRICHLOROETHANE	.0063	mg/kg	U	N Y U	U					CQ103S	01:57
				1,1-DICHLOROETHANE	.0063	mg/kg	U	N Y U	U					CQ103S	01:57
				1,1-DICHLOROETHENE	.0063	mg/kg	U	N Y U	U					CQ103S	01:57
				1,1-DICHLOROPROPENE	.0063	mg/kg	U	N Y U	U					CQ103S	01:57
				1,2,3-TRICHLOROBENZENE	.0063	mg/kg	U	N Y U	UJ	04B	10A			CQ103S	01:57
				1,2,3-TRICHLOROPROPANE	.0063	mg/kg	U	N Y U	UJ	10A				CQ103S	01:57
				1,2,4-TRICHLOROBENZENE	.0063	mg/kg	U	N Y U	UJ	04B	10A			CQ103S	01:57
				1,2,4-TRIMETHYLBENZENE	.0063	mg/kg	U	N Y U	UJ	10A				CQ103S	01:57
				1,2-DIBROMO-3-CHLOROPROPANE	.013	mg/kg	U	N Y U	R	04A	05A	10A		CQ103S	01:57
				1,2-DIBROMOETHANE	.0063	mg/kg	U	N Y U	U					CQ103S	01:57
				1,2-DICHLOROBENZENE	.0063	mg/kg	U	N Y U	UJ	10A				CQ103S	01:57
				1,2-DICHLOROETHANE	.0063	mg/kg	U	N Y U	U					CQ103S	01:57
				1,2-DICHLOROPROPANE	.0063	mg/kg	U	N Y U	U					CQ103S	01:57
				1,3,5-TRIMETHYLBENZENE	.0063	mg/kg	U	N Y U	UJ	10A				CQ103S	01:57
				1,3-DICHLOROBENZENE	.0063	mg/kg	U	N Y U	UJ	10A				CQ103S	01:57
				1,3-DICHLOROPROPANE	.0063	mg/kg	U	N Y U	U					CQ103S	01:57
				1,4-DICHLOROBENZENE	.0063	mg/kg	U	N Y U	UJ	10A				CQ103S	01:57
				2,2-DICHLOROPROPANE	.0063	mg/kg	U	N Y U	U					CQ103S	01:57
				2-BUTANONE	.0069	mg/kg	J	Y Y P	J	04A	05A	15		CQ103S	01:57
				2-CHLOROTOLUENE	.0063	mg/kg	U	N Y U	UJ	10A				CQ103S	01:57
				2-HEXANONE	.025	mg/kg	U	N Y U	U					CQ103S	01:57
				4-CHLOROTOLUENE	.0063	mg/kg	U	N Y U	UJ	10A				CQ103S	01:57
				4-METHYL-2-PENTANONE	.025	mg/kg	U	N Y U	U					CQ103S	01:57
				ACETONE	.3	mg/kg	B	Y Y P	J	04A	04B	05B		CQ103S	01:57
				BENZENE	.0063	mg/kg	U	N Y U	U					CQ103S	01:57
				BROMOBENZENE	.0063	mg/kg	U	N Y U	U					CQ103S	01:57
				BROMOCHLOROMETHANE	.0063	mg/kg	U	N Y U	U					CQ103S	01:57

Validation Qualifier Data Entry Verification

Run Date: December 13, 2000

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:
KG0006	SW8260	SW5030	N 0 1	BROMODICHLOROMETHANE	.0063	mg/kg	U	N	Y	U	U					CQ103S	01:57
				BROMOFORM	.0063	mg/kg	U	N	Y	U	U					CQ103S	01:57
				BROMOMETHANE	.0032	mg/kg	J B	Y	Y	F	B	04B	06A	15		CQ103S	01:57
				CARBON DISULFIDE	.0063	mg/kg	U	N	Y	U	U					CQ103S	01:57
				CARBON TETRACHLORIDE	.0063	mg/kg	U	N	Y	U	U					CQ103S	01:57
				CHLOROBENZENE	.0063	mg/kg	U	N	Y	U	U					CQ103S	01:57
				CHLORODIBROMOMETHANE	.0063	mg/kg	U	N	Y	U	U					CQ103S	01:57
				CHLOROETHANE	.013	mg/kg	U	N	Y	U	U					CQ103S	01:57
				CHLOROFORM	.0063	mg/kg	U	N	Y	U	U					CQ103S	01:57
				CHLOROMETHANE	.013	mg/kg	U	N	Y	U	U					CQ103S	01:57
				CIS-1,2-DICHLOROETHENE	.0063	mg/kg	U	N	Y	U	U					CQ103S	01:57
				CIS-1,3-DICHLOROPROPENE	.0063	mg/kg	U	N	Y	U	U					CQ103S	01:57
				DIBROMOMETHANE	.0063	mg/kg	U	N	Y	U	U					CQ103S	01:57
				DICHLORODIFLUOROMETHANE	.013	mg/kg	U	N	Y	U	U					CQ103S	01:57
				ETHYLBENZENE	.0063	mg/kg	U	N	Y	U	U					CQ103S	01:57
				HEXACHLOROBUTADIENE	.0063	mg/kg	U	N	Y	U	UJ	10A				CQ103S	01:57
				ISOPROPYLBENZENE	.0063	mg/kg	U	N	Y	U	U					CQ103S	01:57
				M-XYLENE & P-XYLENE	.0063	mg/kg	U	N	Y	U	U					CQ103S	01:57
				METHYLENE CHLORIDE	.0037	mg/kg	J B	Y	Y	F	B	06A	15			CQ103S	01:57
				N-BUTYLBENZENE	.0063	mg/kg	U	N	Y	U	UJ	10A				CQ103S	01:57
				N-PROPYLBENZENE	.0063	mg/kg	U	N	Y	U	UJ	10A				CQ103S	01:57
				NAPHTHALENE	.0082	mg/kg		Y	Y	P	J	04B	15			CQ103S	01:57
				O-XYLENE	.0063	mg/kg	U	N	Y	U	U					CQ103S	01:57
				P-ISOPROPYLTOLUENE	.0063	mg/kg	U	N	Y	U	UJ	10A				CQ103S	01:57
				SEC-BUTYLBENZENE	.0063	mg/kg	U	N	Y	U	UJ	10A				CQ103S	01:57
				STYRENE	.0063	mg/kg	U	N	Y	U	U					CQ103S	01:57
				TERT-BUTYLBENZENE	.0063	mg/kg	U	N	Y	U	UJ	10A				CQ103S	01:57
				TETRACHLOROETHENE	.0063	mg/kg	U	N	Y	U	U					CQ103S	01:57
				TOLUENE	.0037	mg/kg	J	Y	Y	P	J	15				CQ103S	01:57
				TRANS-1,2-DICHLOROETHENE	.0063	mg/kg	U	N	Y	U	U					CQ103S	01:57
				TRANS-1,3-DICHLOROPROPENE	.0063	mg/kg	U	N	Y	U	U					CQ103S	01:57
				TRICHLOROETHENE	.0063	mg/kg	U	N	Y	U	U					CQ103S	01:57
				TRICHLOROFLUOROMETHANE	.013	mg/kg	U	N	Y	U	U					CQ103S	01:57
				VINYL CHLORIDE	.013	mg/kg	U	N	Y	U	U					CQ103S	01:57
	SW8270	SW3550	N 0 1	1,2,4-TRICHLOROBENZENE	.42	mg/kg	U	N	Y	U	U					CQ103S	18:09
				1,2-DICHLOROBENZENE	.42	mg/kg	U	N	Y	U	U					CQ103S	18:09
				1,3-DICHLOROBENZENE	.42	mg/kg	U	N	Y	U	U					CQ103S	18:09
				1,4-DICHLOROBENZENE	.42	mg/kg	U	N	Y	U	U					CQ103S	18:09
				2,2'-OXYBIS(1-CHLOROPROPANE)	.42	mg/kg	U	N	Y	U	U					CQ103S	18:09
				2,4,5-TRICHLOROPHENOL	.42	mg/kg	U	N	Y	U	U					CQ103S	18:09
				2,4,6-TRICHLOROPHENOL	.42	mg/kg	U	N	Y	U	U					CQ103S	18:09
				2,4-DICHLOROPHENOL	.42	mg/kg	U	N	Y	U	U					CQ103S	18:09
				2,4-DIMETHYLPHENOL	?	mg/kg	U	N	Y	U	U					CQ103S	18:09

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:
KG0006	SW8270	SW3550	N 0 1	2,4-DINITROPHENOL	2	mg/kg	U	N Y U	U		CQ103S	18:09
				2,4-DINITROTOLUENE	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				2,6-DINITROTOLUENE	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				2-CHLORONAPHTHALENE	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				2-CHLOROPHENOL	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				2-METHYLNAPHTHALENE	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				2-METHYLPHENOL	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				2-NITROANILINE	2	mg/kg	U	N Y U	U		CQ103S	18:09
				2-NITROPHENOL	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				3,3'-DICHLOROBENZIDINE	2	mg/kg	U	N Y U	U		CQ103S	18:09
				3-NITROANILINE	2	mg/kg	U	N Y U	U		CQ103S	18:09
				4,6-DINITRO-2-METHYLPHENOL	2	mg/kg	U	N Y U	U		CQ103S	18:09
				4-BROMOPHENYL PHENYL ETHER	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				4-CHLORO-3-METHYLPHENOL	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				4-CHLOROANILINE	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				4-CHLOROPHENYL PHENYL ETHER	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				4-METHYLPHENOL	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				4-NITROANILINE	2	mg/kg	U	N Y U	U		CQ103S	18:09
				4-NITROPHENOL	2	mg/kg	U	N Y U	U		CQ103S	18:09
				ACENAPHTHENE	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				ACENAPHTHYLENE	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				ANTHRACENE	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				BENZ(A)ANTHRACENE	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				BENZO(A)PYRENE	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				BENZO(B)FLUORANTHENE	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				BENZO(GHI)PERYLENE	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				BENZO(K)FLUORANTHENE	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				BIS(2-CHLOROETHOXY)METHANE	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				BIS(2-CHLOROETHYL) ETHER	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				BIS(2-ETHYLHEXYL) PHTHALATE	.093	mg/kg	J B	Y Y F	B	06A 15	CQ103S	18:09
				BUTYL BENZYL PHTHALATE	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				CARBAZOLE	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				CHRYSENE	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				DI-N-BUTYL PHTHALATE	.11	mg/kg	J B	Y Y F	B	06A 15	CQ103S	18:09
				DI-N-OCTYL PHTHALATE	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				DIBENZ(A,H)ANTHRACENE	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				DIBENZOFURAN	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				DIETHYL PHTHALATE	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				DIMETHYL PHTHALATE	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				FLUORANTHENE	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				FLUORENE	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				HEXACHLOROBENZENE	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				HEXACHLOROBUTADIENE	.42	mg/kg	U	N Y U	U		CQ103S	18:09
				HEXACHLOROCYCLOPENTADIENE	2	mg/kg	U	N Y U	UJ	04B 05B	CQ103S	18:09

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:
KG0006	SW8270	SW3550	N	0	1	HEXACHLOROETHANE	.42	mg/kg	U	N	Y	U	U					CQ103S	18:09
						INDENO(1,2,3-CD)PYRENE	.42	mg/kg	U	N	Y	U	U					CQ103S	18:09
						ISOPHORONE	.42	mg/kg	U	N	Y	U	U					CQ103S	18:09
						N-NITROSODI-N-PROPYLAMINE	.42	mg/kg	U	N	Y	U	U					CQ103S	18:09
						N-NITROSODIPHENYLAMINE	.42	mg/kg	U	N	Y	U	U					CQ103S	18:09
						NAPHTHALENE	.42	mg/kg	U	N	Y	U	U					CQ103S	18:09
						NITROBENZENE	.42	mg/kg	U	N	Y	U	U					CQ103S	18:09
						PENTACHLOROPHENOL	2	mg/kg	U	N	Y	U	U					CQ103S	18:09
						PHENANTHRENE	.42	mg/kg	U	N	Y	U	U					CQ103S	18:09
						PHENOL	.42	mg/kg	U	N	Y	U	U					CQ103S	18:09
						PYRENE	.42	mg/kg	U	N	Y	U	U					CQ103S	18:09
	SW9010	METHOD	N	0	1	TOTAL CYANIDE	0.63	mg/kg	U	N	Y	U	U					CQ103S	00:00
KG0007	D2216	NONE	N	0	1	PERCENT MOISTURE				Y	Y	P						CQ2QAS	00:00
	SW6010	SW3050	N	0	1	ALUMINUM	3960	mg/kg		Y	Y	P						CQ2QAS	12:42
						BARIUM	19.0	mg/kg	B	Y	Y	P	J	15				CQ2QAS	12:42
						BERYLLIUM	0.14	mg/kg	B	Y	Y	F	B	06B				CQ2QAS	12:42
						CALCIUM	9080	mg/kg		Y	Y	P						CQ2QAS	12:42
						CHROMIUM	18.9	mg/kg		Y	Y	P						CQ2QAS	12:42
						COBALT	3.6	mg/kg	B	Y	Y	P	J	15				CQ2QAS	12:42
						COPPER	6.3	mg/kg		Y	Y	P						CQ2QAS	12:42
						IRON	7220	mg/kg		Y	Y	P						CQ2QAS	12:42
						MAGNESIUM	3360	mg/kg		Y	Y	P						CQ2QAS	12:42
						MANGANESE	60.1	mg/kg		Y	Y	P						CQ2QAS	12:42
						NICKEL	6.3	mg/kg		Y	Y	P	J	17				CQ2QAS	12:42
						POTASSIUM	215	mg/kg	B	Y	Y	P	J	15				CQ2QAS	12:42
						SILVER	1.2	mg/kg	U	N	Y	U	U					CQ2QAS	12:42
						SODIUM	41.2	mg/kg	B	Y	Y	F	B	06C				CQ2QAS	12:42
						VANADIUM	11.0	mg/kg		Y	Y	P						CQ2QAS	12:42
						ZINC	29.9	mg/kg		Y	Y	P						CQ2QAS	12:42
	SW6010	SW3050	N	1	1	ANTIMONY	7.1	mg/kg	U	N	Y	U	U					CQ2QAS	19:22
						ARSENIC	2.0	mg/kg		Y	Y	P						CQ2QAS	19:22
						CADMIUM	0.59	mg/kg	U	N	Y	U	U					CQ2QAS	19:22
						LEAD	108	mg/kg		Y	Y	P	J	17				CQ2QAS	19:22
						SELENIUM	0.59	mg/kg	U	N	Y	U	U					CQ2QAS	19:22
						THALLIUM	1.2	mg/kg	U	N	Y	U	U					CQ2QAS	19:22
	SW7471	TOTAL	N	0	1	MERCURY	0.054	mg/kg		Y	Y	P						CQ2QAS	16:30
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
						1,1,1-TRICHLOROETHANE	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
						1,1,2,2-TETRACHLOROETHANE	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
						1,1,2-TRICHLOROETHANE	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
						1,1-DICHLOROETHANE	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
						1,1-DICHLOROETHENE	.0059	mg/kg	U	N	Y	U	U					CQ2QA[illegible]	15:31
						1,1-DICHLOROPROPENE	.59	mg/kg	U	N	Y	U	U					CQ2QA[illegible]	15:31

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:
KG0007	SW8260	SW5030	N 0 1	1,2,3-TRICHLOROBENZENE	.0059	mg/kg	U	N	Y	U	UJ	04B	05B			CQ2QAS	15:31
				1,2,3-TRICHLOROPROPANE	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
				1,2,4-TRICHLOROBENZENE	.0059	mg/kg	U	N	Y	U	UJ	04B				CQ2QAS	15:31
				1,2,4-TRIMETHYLBENZENE	.14	mg/kg		Y	Y	P	J	07A				CQ2QAS	15:31
				1,2-DIBROMO-3-CHLOROPROPANE	.012	mg/kg	U	N	Y	U	R	04A	05A			CQ2QAS	15:31
				1,2-DIBROMOETHANE	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
				1,2-DICHLOROBENZENE	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
				1,2-DICHLOROETHANE	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
				1,2-DICHLOROPROPANE	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
				1,3,5-TRIMETHYLBENZENE	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
				1,3-DICHLOROBENZENE	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
				1,3-DICHLOROPROPANE	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
				1,4-DICHLOROBENZENE	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
				2,2-DICHLOROPROPANE	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
				2-BUTANONE	.0077	mg/kg	J	Y	Y	P	J	04A	05A	07A		CQ2QAS	15:31
				2-CHLOROTOLUENE	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
				2-HEXANONE	.024	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
				4-CHLOROTOLUENE	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
				4-METHYL-2-PENTANONE	.024	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
				ACETONE	.064	mg/kg	B	Y	Y	F	B	04A	04B	05A	06A	CQ2QAS	15:31
				BENZENE	.02	mg/kg		Y	Y	P	J	07A				CQ2QAS	15:31
				BROMOBENZENE	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
				BROMOCHLOROMETHANE	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
				BROMODICHLOROMETHANE	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
				BROMOFORM	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
				BROMOMETHANE	.0021	mg/kg	J B	Y	Y	F	B	04B	05B	06A	07A	CQ2QAS	15:31
				CARBON DISULFIDE	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
				CARBON TETRACHLORIDE	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
				CHLOROBENZENE	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
				CHLORODIBROMOMETHANE	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
				CHLOROETHANE	.012	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
				CHLOROFORM	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
				CHLOROMETHANE	.012	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
				CIS-1,2-DICHLOROETHENE	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
				CIS-1,3-DICHLOROPROPENE	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
				DIBROMOMETHANE	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
				DICHLORODIFLUOROMETHANE	.012	mg/kg	U	N	Y	U	UJ	05B				CQ2QAS	15:31
				ETHYLBENZENE	.032	mg/kg		Y	Y	P	J	07A	17			CQ2QAS	15:31
				HEXACHLOROBUTADIENE	.0059	mg/kg	U	N	Y	U	U					CQ2QAS	15:31
				ISOPROPYLBENZENE	.02	mg/kg		Y	Y	P	J	07A	17			CQ2QAS	15:31
				M-XYLENE & P-XYLENE	.0047	mg/kg	J	Y	Y	P	J	07A	17			CQ2QAS	15:31
				METHYLENE CHLORIDE	.0048	mg/kg	J B	Y	Y	F	B	06A	06C	07A		CQ2QAS	15:31
				N-BUTYLBENZENE	.032	mg/kg		Y	Y	P	J	07A	17			CQ2QAS	15:31
				N-PROPYLBENZENE	.046	mg/kg		Y	Y	P	J	07A	17			CQ2QAS	15:31

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:
KG0007	SW8260	SW5030	N 0 1	NAPHTHALENE	.18	mg/kg		Y Y P	J	04B	05B	07A	17	CQ2QAS	15:31
				O-XYLENE	.0059	mg/kg	U	N Y U	U					CQ2QAS	15:31
				P-ISOPROPYLTOLUENE	.024	mg/kg		Y Y P	J	07A	17			CQ2QAS	15:31
				SEC-BUTYLBENZENE	.035	mg/kg		Y Y P	J	07A	17			CQ2QAS	15:31
				STYRENE	.0059	mg/kg	U	N Y U	U					CQ2QAS	15:31
				TERT-BUTYLBENZENE	.0059	mg/kg	U	N Y U	U					CQ2QAS	15:31
				TETRACHLOROETHENE	.0059	mg/kg	U	N Y U	U					CQ2QAS	15:31
				TOLUENE	.0059	mg/kg	U	N Y U	U					CQ2QAS	15:31
				TRANS-1,2-DICHLOROETHENE	.0059	mg/kg	U	N Y U	U					CQ2QAS	15:31
				TRANS-1,3-DICHLOROPROPENE	.0059	mg/kg	U	N Y U	U					CQ2QAS	15:31
				TRICHLOROETHENE	.0059	mg/kg	U	N Y U	U					CQ2QAS	15:31
				TRICHLOROFLUOROMETHANE	.012	mg/kg	U	N Y U	U					CQ2QAS	15:31
				VINYL CHLORIDE	.012	mg/kg	U	N Y U	U					CQ2QAS	15:31
	SW8270	SW3550	N 0 4	1,2,4-TRICHLOROBENZENE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				1,2-DICHLOROBENZENE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				1,3-DICHLOROBENZENE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				1,4-DICHLOROBENZENE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				2,2'-OXYBIS(1-CHLOROPROPANE)	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				2,4,5-TRICHLOROPHENOL	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				2,4,6-TRICHLOROPHENOL	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				2,4-DICHLOROPHENOL	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				2,4-DIMETHYLPHENOL	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				2,4-DINITROPHENOL	7.6	mg/kg	U	N Y U	UJ	05B				CQ2QAS	11:45
				2,4-DINITROTOLUENE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				2,6-DINITROTOLUENE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				2-CHLORONAPHTHALENE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				2-CHLOROPHENOL	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				2-METHYLNAPHTHALENE	.3	mg/kg	J	Y Y P	J	15				CQ2QAS	11:45
				2-METHYLPHENOL	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				2-NITROANILINE	7.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				2-NITROPHENOL	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				3,3'-DICHLOROBENZIDINE	7.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				3-NITROANILINE	7.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				4,6-DINITRO-2-METHYLPHENOL	7.6	mg/kg	U	N Y U	UJ	05B				CQ2QAS	11:45
				4-BROMOPHENYL PHENYL ETHER	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				4-CHLORO-3-METHYLPHENOL	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				4-CHLOROANILINE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				4-CHLOROPHENYL PHENYL ETHER	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				4-METHYLPHENOL	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				4-NITROANILINE	7.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				4-NITROPHENOL	7.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				ACENAPHTHENE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				ACENAPHTHYLENE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45

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:
KG0007	SW8270	SW3550	N 0 4	ANTHRACENE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				BENZ(A)ANTHRACENE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				BENZO(A)PYRENE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				BENZO(B)FLUORANTHENE	.23	mg/kg	J	Y Y P	J	15				CQ2QAS	11:45
				BENZO(GHI)PERYLENE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				BENZO(K)FLUORANTHENE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				BIS(2-CHLOROETHOXY)METHANE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				BIS(2-CHLOROETHYL) ETHER	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				BIS(2-ETHYLHEXYL) PHTHALATE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				BUTYL BENZYL PHTHALATE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				CARBAZOLE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				CHRYSENE	.19	mg/kg	J	Y Y P	J	15				CQ2QAS	11:45
				DI-N-BUTYL PHTHALATE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				DI-N-OCTYL PHTHALATE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				DIBENZ(A,H)ANTHRACENE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				DIBENZOFURAN	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				DIETHYL PHTHALATE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				DIMETHYL PHTHALATE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				FLUORANTHENE	.36	mg/kg	J	Y Y P	J	17				CQ2QAS	11:45
				FLUORENE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				HEXACHLOROBENZENE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				HEXACHLOROBUTADIENE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				HEXACHLOROCYCLOPENTADIENE	7.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				HEXACHLOROETHANE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				INDENO(1,2,3-CD)PYRENE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				ISOPHORONE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				N-NITROSODI-N-PROPYLAMINE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				N-NITROSODIPHENYLAMINE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				NAPHTHALENE	1.2	mg/kg	J	Y Y P	J	15				CQ2QAS	11:45
				NITROBENZENE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				PENTACHLOROPHENOL	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				PHENANTHRENE	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				PHENOL	1.6	mg/kg	U	N Y U	U					CQ2QAS	11:45
				PYRENE	.4	mg/kg	J	Y Y P	J	15				CQ2QAS	11:45
	SW9010	METHOD	N 0 1	TOTAL CYANIDE	0.59	mg/kg	U	N Y U	U					CQ2QAS	00:00
KG0008	D2216	NONE	N 0 1	PERCENT MOISTURE				Y Y						CQ2QVS	00:00
	SW6010	SW3050	N 0 1	ALUMINUM	4290	mg/kg		Y Y						CQ2QVS	13:16
				BARIUM	16.6	mg/kg	B	Y Y	J	15				CQ2QVS	13:16
				BERYLLIUM	0.12	mg/kg	B	Y Y	B	06B				CQ2QVS	13:16
				CALCIUM	6900	mg/kg		Y Y						CQ2QVS	13:16
				CHROMIUM	11.6	mg/kg		Y Y						CQ2QVS	13:16
				COBALT	3.6	mg/kg	B	Y Y	J	15				CQ2QVS	13:16
				COPPER	5.4	mg/kg		Y Y						CQ2QVS	13:16

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:
KG0008	SW6010	SW3050	N	0	1	IRON	7250	mg/kg		Y	Y							CQ2QVS	13:16
						MAGNESIUM	2320	mg/kg		Y	Y							CQ2QVS	13:16
						MANGANESE	49.9	mg/kg		Y	Y							CQ2QVS	13:16
						NICKEL	2.4	mg/kg	B	Y	Y		J	17				CQ2QVS	13:16
						POTASSIUM	218	mg/kg	B	Y	Y		J	15				CQ2QVS	13:16
						SILVER	0.68	mg/kg	B	Y	Y		J	15				CQ2QVS	13:16
						SODIUM	33.6	mg/kg	B	Y	Y		B	06C				CQ2QVS	13:16
						VANADIUM	11.3	mg/kg		Y	Y							CQ2QVS	13:16
						ZINC	23.1	mg/kg		Y	Y							CQ2QVS	13:16
	SW6010	SW3050	N	1	1	ANTIMONY	7.2	mg/kg	U	N	Y		U					CQ2QVS	19:27
						ARSENIC	1.9	mg/kg		Y	Y							CQ2QVS	19:27
						CADMIUM	0.60	mg/kg	U	N	Y		U					CQ2QVS	19:27
						LEAD	21.1	mg/kg		Y	Y		J	17				CQ2QVS	19:27
						SELENIUM	0.60	mg/kg	U	N	Y		U					CQ2QVS	19:27
						THALLIUM	1.2	mg/kg	U	N	Y		U					CQ2QVS	19:27
	SW7471	TOTAL	N	0	1	MERCURY	0.034	mg/kg	B	Y	Y		J	15				CQ2QVS	16:40
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.006	mg/kg	U	N	Y		U					CQ2QVS	15:56
						1,1,1-TRICHLOROETHANE	.006	mg/kg	U	N	Y		U					CQ2QVS	15:56
						1,1,2,2-TETRACHLOROETHANE	.006	mg/kg	U	N	Y		U					CQ2QVS	15:56
						1,1,2-TRICHLOROETHANE	.006	mg/kg	U	N	Y		U					CQ2QVS	15:56
						1,1-DICHLOROETHANE	.006	mg/kg	U	N	Y		U					CQ2QVS	15:56
						1,1-DICHLOROETHENE	.006	mg/kg	U	N	Y		U					CQ2QVS	15:56
						1,1-DICHLOROPROPENE	.006	mg/kg	U	N	Y		U					CQ2QVS	15:56
						1,2,3-TRICHLOROBENZENE	.006	mg/kg	U	N	Y		UJ	04B	05B			CQ2QVS	15:56
						1,2,3-TRICHLOROPROPANE	.006	mg/kg	U	N	Y		U					CQ2QVS	15:56
						1,2,4-TRICHLOROBENZENE	.006	mg/kg	U	N	Y		UJ	04B				CQ2QVS	15:56
						1,2,4-TRIMETHYLBENZENE	.4	mg/kg	E	Y	N		R	16				CQ2QVS	15:56
						1,2-DIBROMO-3-CHLOROPROPANE	.012	mg/kg	U	N	Y		R	04A	05A			CQ2QVS	15:56
						1,2-DIBROMOETHANE	.006	mg/kg	U	N	Y		U					CQ2QVS	15:56
						1,2-DICHLOROBENZENE	.006	mg/kg	U	N	Y		U					CQ2QVS	15:56
						1,2-DICHLOROETHANE	.006	mg/kg	U	N	Y		U					CQ2QVS	15:56
						1,2-DICHLOROPROPANE	.006	mg/kg	U	N	Y		U					CQ2QVS	15:56
						1,3,5-TRIMETHYLBENZENE	.006	mg/kg	U	N	Y		U					CQ2QVS	15:56
						1,3-DICHLOROBENZENE	.006	mg/kg	U	N	Y		U					CQ2QVS	15:56
						1,3-DICHLOROPROPANE	.006	mg/kg	U	N	Y		U					CQ2QVS	15:56
						1,4-DICHLOROBENZENE	.006	mg/kg	U	N	Y		U					CQ2QVS	15:56
						2,2-DICHLOROPROPANE	.006	mg/kg	U	N	Y		U					CQ2QVS	15:56
						2-BUTANONE	.0055	mg/kg	J	Y	Y		J	04A	05A	07A		CQ2QVS	15:56
						2-CHLOROTOLUENE	.006	mg/kg	U	N	Y		U					CQ2QVS	15:56
						2-HEXANONE	.024	mg/kg	U	N	Y		U					CQ2QVS	15:56
						4-CHLOROTOLUENE	.006	mg/kg	U	N	Y		U					CQ2QVS	15:56
						4-METHYL-2-PENTANONE	.024	mg/kg	U	N	Y		U					CQ2QVS	15:56
						ACETONE	58	mg/kg	B	Y	Y		J	04A	04B	05A	07A	CQ2QV	15:56

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:
KG0008	SW8260	SW5030	N 0 1	BENZENE	.024	mg/kg		Y Y	J	07A				CQ2QVS	15:56
				BROMOBENZENE	.006	mg/kg	U	N Y	U					CQ2QVS	15:56
				BROMOCHLOROMETHANE	.006	mg/kg	U	N Y	U					CQ2QVS	15:56
				BROMODICHLOROMETHANE	.006	mg/kg	U	N Y	U					CQ2QVS	15:56
				BROMOFORM	.006	mg/kg	U	N Y	U					CQ2QVS	15:56
				BROMOMETHANE	.0018	mg/kg	J B	Y Y	B	04B	05B	06A	07A	CQ2QVS	15:56
				CARBON DISULFIDE	.006	mg/kg	U	N Y	U					CQ2QVS	15:56
				CARBON TETRACHLORIDE	.006	mg/kg	U	N Y	U					CQ2QVS	15:56
				CHLOROBENZENE	.006	mg/kg	U	N Y	U					CQ2QVS	15:56
				CHLORODIBROMOMETHANE	.006	mg/kg	U	N Y	U					CQ2QVS	15:56
				CHLOROETHANE	.012	mg/kg	U	N Y	U					CQ2QVS	15:56
				CHLOROFORM	.006	mg/kg	U	N Y	U					CQ2QVS	15:56
				CHLOROMETHANE	.012	mg/kg	U	N Y	U					CQ2QVS	15:56
				CIS-1,2-DICHLOROETHENE	.006	mg/kg	U	N Y	U					CQ2QVS	15:56
				CIS-1,3-DICHLOROPROPENE	.006	mg/kg	U	N Y	U					CQ2QVS	15:56
				DIBROMOMETHANE	.006	mg/kg	U	N Y	U					CQ2QVS	15:56
				DICHLORODIFLUOROMETHANE	.012	mg/kg	U	N Y	UJ	05B				CQ2QVS	15:56
				ETHYLBENZENE	.054	mg/kg		Y Y	J	07A	17			CQ2QVS	15:56
				HEXACHLOROBUTADIENE	.006	mg/kg	U	N Y	U					CQ2QVS	15:56
				ISOPROPYLBENZENE	.037	mg/kg		Y Y	J	07A	17			CQ2QVS	15:56
				M-XYLENE & P-XYLENE	.0098	mg/kg		Y Y	J	07A	17			CQ2QVS	15:56
				METHYLENE CHLORIDE	.0043	mg/kg	J B	Y Y	B	06A	06C	07A		CQ2QVS	15:56
				N-BUTYLBENZENE	.091	mg/kg		Y Y	J	07A	17			CQ2QVS	15:56
				N-PROPYLBENZENE	.099	mg/kg		Y Y	J	07A	17			CQ2QVS	15:56
				NAPHTHALENE	.42	mg/kg	E	Y N	R	16				CQ2QVS	15:56
				O-XYLENE	.006	mg/kg	U	N Y	U					CQ2QVS	15:56
				P-ISOPROPYLTOLUENE	.07	mg/kg		Y Y	J	07A	17			CQ2QVS	15:56
				SEC-BUTYLBENZENE	.082	mg/kg		Y Y	J	07A	17			CQ2QVS	15:56
				STYRENE	.006	mg/kg	U	N Y	U					CQ2QVS	15:56
				TERT-BUTYLBENZENE	.006	mg/kg	U	N Y	U					CQ2QVS	15:56
				TETRACHLOROETHENE	.006	mg/kg	U	N Y	U					CQ2QVS	15:56
				TOLUENE	.006	mg/kg	U	N Y	U					CQ2QVS	15:56
				TRANS-1,2-DICHLOROETHENE	.006	mg/kg	U	N Y	U					CQ2QVS	15:56
				TRANS-1,3-DICHLOROPROPENE	.006	mg/kg	U	N Y	U					CQ2QVS	15:56
				TRICHLOROETHENE	.006	mg/kg	U	N Y	U					CQ2QVS	15:56
				TRICHLOROFLUOROMETHANE	.012	mg/kg	U	N Y	U					CQ2QVS	15:56
				VINYL CHLORIDE	.012	mg/kg	U	N Y	U					CQ2QVS	15:56
	SW8260	SW5030	N 1 1	1,2,4-TRIMETHYLBENZENE	4.6	mg/kg	D	Y Y						CQ2QVS	23:49
				NAPHTHALENE	4.7	mg/kg	D	Y Y	J	17				CQ2QVS	23:49
	SW8270	SW3550	N 0 4	1,2,4-TRICHLOROBENZENE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				1,2-DICHLOROBENZENE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				1,3-DICHLOROBENZENE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				1,4-DICHLOROBENZENE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23

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:
KG0008	SW8270	SW3550	N 0 4	2,2'-OXYBIS(1-CHLOROPROPANE)	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				2,4,5-TRICHLOROPHENOL	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				2,4,6-TRICHLOROPHENOL	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				2,4-DICHLOROPHENOL	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				2,4-DIMETHYLPHENOL	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				2,4-DINITROPHENOL	7.7	mg/kg	U	N Y	UJ	05B				CQ2QVS	12:23
				2,4-DINITROTOLUENE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				2,6-DINITROTOLUENE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				2-CHLORONAPHTHALENE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				2-CHLOROPHENOL	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				2-METHYLNAPHTHALENE	.49	mg/kg	J	Y Y	J	15				CQ2QVS	12:23
				2-METHYLPHENOL	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				2-NITROANILINE	7.7	mg/kg	U	N Y	U					CQ2QVS	12:23
				2-NITROPHENOL	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				3,3'-DICHLOROBENZIDINE	7.7	mg/kg	U	N Y	U					CQ2QVS	12:23
				3-NITROANILINE	7.7	mg/kg	U	N Y	U					CQ2QVS	12:23
				4,6-DINITRO-2-METHYLPHENOL	7.7	mg/kg	U	N Y	UJ	05B				CQ2QVS	12:23
				4-BROMOPHENYL PHENYL ETHER	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				4-CHLORO-3-METHYLPHENOL	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				4-CHLOROANILINE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				4-CHLOROPHENYL PHENYL ETHER	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				4-METHYLPHENOL	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				4-NITROANILINE	7.7	mg/kg	U	N Y	U					CQ2QVS	12:23
				4-NITROPHENOL	7.7	mg/kg	U	N Y	U					CQ2QVS	12:23
				ACENAPHTHENE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				ACENAPHTHYLENE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				ANTHRACENE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				BENZ(A)ANTHRACENE	.22	mg/kg	J	Y Y	J	15				CQ2QVS	12:23
				BENZO(A)PYRENE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				BENZO(B)FLUORANTHENE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				BENZO(GHI)PERYLENE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				BENZO(K)FLUORANTHENE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				BIS(2-CHLOROETHOXY)METHANE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				BIS(2-CHLOROETHYL) ETHER	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				BIS(2-ETHYLHEXYL) PHTHALATE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				BUTYL BENZYL PHTHALATE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				CARBAZOLE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				CHRYSENE	.3	mg/kg	J	Y Y	J	15				CQ2QVS	12:23
				DI-N-BUTYL PHTHALATE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				DI-N-OCTYL PHTHALATE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				DIBENZ(A,H)ANTHRACENE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				DIBENZOFURAN	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				DIETHYL PHTHALATE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				DIMETHYL PHTHALATE	.6	mg/kg	U	N Y	U					CQ2Q	12:23

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:
KG0008	SW8270	SW3550	N 0 4	FLUORANTHENE	.62	mg/kg	J	Y Y	J	17				CQ2QVS	12:23
				FLUORENE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				HEXACHLOROBENZENE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				HEXACHLOROBUTADIENE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				HEXACHLOROCYCLOPENTADIENE	7.7	mg/kg	U	N Y	U					CQ2QVS	12:23
				HEXACHLOROETHANE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				INDENO(1,2,3-CD)PYRENE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				ISOPHORONE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				N-NITROSODI-N-PROPYLAMINE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				N-NITROSODIPHENYLAMINE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				NAPHTHALENE	1.9	mg/kg		Y Y						CQ2QVS	12:23
				NITROBENZENE	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				PENTACHLOROPHENOL	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				PHENANTHRENE	.2	mg/kg	J	Y Y	J	15				CQ2QVS	12:23
				PHENOL	1.6	mg/kg	U	N Y	U					CQ2QVS	12:23
				PYRENE	.59	mg/kg	J	Y Y	J	15				CQ2QVS	12:23
	SW9010	METHOD	N 0 1	TOTAL CYANIDE	0.60	mg/kg	U	N Y	U					CQ2QVS	00:00
KG0010	D2216	NONE	N 0 1	PERCENT MOISTURE				Y Y P						CQ1EES	00:00
	SW6010	SW3050	N 0 1	ALUMINUM	12800	mg/kg		Y Y P						CQ1EES	20:33
				ANTIMONY	7.6	mg/kg	U	N Y U	UJ	08A				CQ1EES	20:33
				BARIUM	89.0	mg/kg		Y Y P						CQ1EES	20:33
				BERYLLIUM	6.5	mg/kg		Y Y P						CQ1EES	20:33
				CADMIUM	0.49	mg/kg	B	Y Y P	J	15				CQ1EES	20:33
				CALCIUM	2120	mg/kg		Y Y P						CQ1EES	20:33
				CHROMIUM	24.1	mg/kg		Y Y P	J	08A				CQ1EES	20:33
				COBALT	6.4	mg/kg	U	N Y U	UJ	08A				CQ1EES	20:33
				COPPER	43.1	mg/kg		Y Y P						CQ1EES	20:33
				IRON	56200	mg/kg		Y Y P						CQ1EES	20:33
				MAGNESIUM	1180	mg/kg		Y Y P						CQ1EES	20:33
				MANGANESE	341	mg/kg		Y Y P	J	08A				CQ1EES	20:33
				NICKEL	70.2	mg/kg		Y Y P						CQ1EES	20:33
				SILVER	3.6	mg/kg		Y Y P						CQ1EES	20:33
				VANADIUM	30.9	mg/kg		Y Y P						CQ1EES	20:33
				ZINC	130	mg/kg		Y Y P	J	08A				CQ1EES	20:33
	SW6010	SW3050	N 1 1	POTASSIUM	404	mg/kg	B	Y Y P	J	15				CQ1EES	14:35
				SODIUM	68.6	mg/kg	B	Y Y F	B	06A	15			CQ1EES	14:35
	SW6010	SW3050	N 2 1	ARSENIC	31.0	mg/kg		Y Y P						CQ1EES	17:29
				LEAD	21.5	mg/kg		Y Y P						CQ1EES	17:29
				SELENIUM	1.4	mg/kg		Y Y P						CQ1EES	17:29
				THALLIUM	1.3	mg/kg	U	N Y U	U					CQ1EES	17:29
	SW7471	TOTAL	N 0 1	MERCURY	0.11	mg/kg		Y Y P						CQ1EES	16:21
	SW8260	SW5030	N 0 1	1,1,1,2-TETRACHLOROETHANE	.0064	mg/kg	U	N Y U	U					CQ1EES	16:03

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:
KG0010	SW8260	SW5030	N	0	1	1,1,1-TRICHLOROETHANE	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						1,1,2,2-TETRACHLOROETHANE	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						1,1,2-TRICHLOROETHANE	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						1,1-DICHLOROETHANE	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						1,1-DICHLOROETHENE	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						1,1-DICHLOROPROPENE	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						1,2,3-TRICHLOROBENZENE	.0064	mg/kg	U	N	Y	U	UJ	04B				CQ1EES	16:03
						1,2,3-TRICHLOROPROPANE	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						1,2,4-TRICHLOROBENZENE	.0064	mg/kg	U	N	Y	U	UJ	04B				CQ1EES	16:03
						1,2,4-TRIMETHYLBENZENE	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						1,2-DIBROMO-3-CHLOROPROPANE	.013	mg/kg	U	N	Y	U	R	04A	05A			CQ1EES	16:03
						1,2-DIBROMOETHANE	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						1,2-DICHLOROBENZENE	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						1,2-DICHLOROETHANE	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						1,2-DICHLOROPROPANE	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						1,3,5-TRIMETHYLBENZENE	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						1,3-DICHLOROBENZENE	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						1,3-DICHLOROPROPANE	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						1,4-DICHLOROBENZENE	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						2,2-DICHLOROPROPANE	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						2-BUTANONE	.025	mg/kg	U	N	Y	U	R	04A	05A			CQ1EES	16:03
						2-CHLOROTOLUENE	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						2-HEXANONE	.025	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						4-CHLOROTOLUENE	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						4-METHYL-2-PENTANONE	.025	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						ACETONE	.0065	mg/kg	J B	Y	Y	F	B	04	05A	06A	06C	CQ1EES	16:03
						BENZENE	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						BROMOBENZENE	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						BROMOCHLOROMETHANE	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						BROMODICHLOROMETHANE	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						BROMOFORM	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						BROMOMETHANE	.0017	mg/kg	J B	Y	Y	F	B	04B	05B	06A	15	CQ1EES	16:03
						CARBON DISULFIDE	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						CARBON TETRACHLORIDE	.018	mg/kg		Y	Y	P						CQ1EES	16:03
						CHLOROBENZENE	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						CHLORODIBROMOMETHANE	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						CHLOROETHANE	.013	mg/kg	U	N	Y	U	UJ	05B				CQ1EES	16:03
						CHLOROFORM	.0023	mg/kg	J	Y	Y	P	J	15				CQ1EES	16:03
						CHLOROMETHANE	.013	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						CIS-1,2-DICHLOROETHENE	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						CIS-1,3-DICHLOROPROPENE	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						DIBROMOMETHANE	.0064	mg/kg	U	N	Y	U	U					CQ1EES	16:03
						DICHLORODIFLUOROMETHANE	[illegible]13	mg/kg	U	N	Y	U	U					CQ1EE[illegible]	16:03
						ETHYLBENZENE	[illegible]064	mg/kg	U	N	Y	U	U					CQ1EE[illegible]	16:03

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:
KG0010	SW8260	SW5030	N 0 1	HEXACHLOROBUTADIENE	.0064	mg/kg	U	N Y U	U		CQ1EES	16:03
				ISOPROPYLBENZENE	.0064	mg/kg	U	N Y U	U		CQ1EES	16:03
				M-XYLENE & P-XYLENE	.0064	mg/kg	U	N Y U	U		CQ1EES	16:03
				METHYLENE CHLORIDE	.0034	mg/kg	J B	Y Y F	B	06A 15	CQ1EES	16:03
				N-BUTYLBENZENE	.0064	mg/kg	U	N Y U	U		CQ1EES	16:03
				N-PROPYLBENZENE	.0064	mg/kg	U	N Y U	U		CQ1EES	16:03
				NAPHTHALENE	.0064	mg/kg	U	N Y U	UJ	05B	CQ1EES	16:03
				O-XYLENE	.0064	mg/kg	U	N Y U	U		CQ1EES	16:03
				P-ISOPROPYLTOLUENE	.0064	mg/kg	U	N Y U	U		CQ1EES	16:03
				SEC-BUTYLBENZENE	.0064	mg/kg	U	N Y U	U		CQ1EES	16:03
				STYRENE	.0064	mg/kg	U	N Y U	U		CQ1EES	16:03
				TERT-BUTYLBENZENE	.0064	mg/kg	U	N Y U	U		CQ1EES	16:03
				TETRACHLOROETHENE	.0066	mg/kg		Y Y P			CQ1EES	16:03
				TOLUENE	.0064	mg/kg	U	N Y U	U		CQ1EES	16:03
				TRANS-1,2-DICHLOROETHENE	.0064	mg/kg	U	N Y U	U		CQ1EES	16:03
				TRANS-1,3-DICHLOROPROPENE	.0064	mg/kg	U	N Y U	U		CQ1EES	16:03
				TRICHLOROETHENE	.0064	mg/kg	U	N Y U	U		CQ1EES	16:03
				TRICHLOROFLUOROMETHANE	.013	mg/kg	U	N Y U	U		CQ1EES	16:03
				VINYL CHLORIDE	.013	mg/kg	U	N Y U	U		CQ1EES	16:03
	SW8270	SW3550	N 0 1	1,2,4-TRICHLOROBENZENE	.42	mg/kg	U	N Y U	U		CQ1EES	21:20
				1,2-DICHLOROBENZENE	.42	mg/kg	U	N Y U	U		CQ1EES	21:20
				1,3-DICHLOROBENZENE	.42	mg/kg	U	N Y U	U		CQ1EES	21:20
				1,4-DICHLOROBENZENE	.42	mg/kg	U	N Y U	U		CQ1EES	21:20
				2,2'-OXYBIS(1-CHLOROPROPANE)	.42	mg/kg	U	N Y U	U		CQ1EES	21:20
				2,4,5-TRICHLOROPHENOL	.42	mg/kg	U	N Y U	U		CQ1EES	21:20
				2,4,6-TRICHLOROPHENOL	.42	mg/kg	U	N Y U	U		CQ1EES	21:20
				2,4-DICHLOROPHENOL	.42	mg/kg	U	N Y U	U		CQ1EES	21:20
				2,4-DIMETHYLPHENOL	.42	mg/kg	U	N Y U	U		CQ1EES	21:20
				2,4-DINITROPHENOL	2	mg/kg	U	N Y U	U		CQ1EES	21:20
				2,4-DINITROTOLUENE	.42	mg/kg	U	N Y U	U		CQ1EES	21:20
				2,6-DINITROTOLUENE	.42	mg/kg	U	N Y U	U		CQ1EES	21:20
				2-CHLORONAPHTHALENE	.42	mg/kg	U	N Y U	U		CQ1EES	21:20
				2-CHLOROPHENOL	.42	mg/kg	U	N Y U	U		CQ1EES	21:20
				2-METHYLNAPHTHALENE	.42	mg/kg	U	N Y U	U		CQ1EES	21:20
				2-METHYLPHENOL	.42	mg/kg	U	N Y U	U		CQ1EES	21:20
				2-NITROANILINE	2	mg/kg	U	N Y U	U		CQ1EES	21:20
				2-NITROPHENOL	.42	mg/kg	U	N Y U	U		CQ1EES	21:20
				3,3'-DICHLOROBENZIDINE	2	mg/kg	U	N Y U	U		CQ1EES	21:20
				3-NITROANILINE	2	mg/kg	U	N Y U	U		CQ1EES	21:20
				4,6-DINITRO-2-METHYLPHENOL	2	mg/kg	U	N Y U	U		CQ1EES	21:20
				4-BROMOPHENYL PHENYL ETHER	.42	mg/kg	U	N Y U	U		CQ1EES	21:20
				4-CHLORO-3-METHYLPHENOL	.42	mg/kg	U	N Y U	U		CQ1EES	21:20
				4-CHLOROANILINE	.42	mg/kg	U	N Y U	U		CQ1EES	21:20

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:
KG0010	SW8270	SW3550	N 0 1	4-CHLOROPHENYL PHENYL ETHER	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				4-METHYLPHENOL	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				4-NITROANILINE	2	mg/kg	U	N Y U	U					CQ1EES	21:20
				4-NITROPHENOL	2	mg/kg	U	N Y U	U					CQ1EES	21:20
				ACENAPHTHENE	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				ACENAPHTHYLENE	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				ANTHRACENE	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				BENZ(A)ANTHRACENE	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				BENZO(A)PYRENE	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				BENZO(B)FLUORANTHENE	.42	mg/kg	U	N Y U	UJ	05B				CQ1EES	21:20
				BENZO(GHI)PERYLENE	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				BENZO(K)FLUORANTHENE	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				BIS(2-CHLOROETHOXY)METHANE	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				BIS(2-CHLOROETHYL) ETHER	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				BIS(2-ETHYLHEXYL) PHTHALATE	.076	mg/kg	J B	Y Y F	B	06A	15			CQ1EES	21:20
				BUTYL BENZYL PHTHALATE	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				CARBAZOLE	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				CHRYSENE	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				DI-N-BUTYL PHTHALATE	.078	mg/kg	J B	Y Y F	B	06A	15			CQ1EES	21:20
				DI-N-OCTYL PHTHALATE	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				DIBENZ(A,H)ANTHRACENE	.42	mg/kg	U	N Y U	UJ	05B				CQ1EES	21:20
				DIBENZOFURAN	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				DIETHYL PHTHALATE	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				DIMETHYL PHTHALATE	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				FLUORANTHENE	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				FLUORENE	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				HEXACHLOROBENZENE	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				HEXACHLOROBUTADIENE	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				HEXACHLOROCYCLOPENTADIENE	2	mg/kg	U	N Y U	UJ	04B	05B			CQ1EES	21:20
				HEXACHLOROETHANE	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				INDENO(1,2,3-CD)PYRENE	.42	mg/kg	U	N Y U	UJ	05B				CQ1EES	21:20
				ISOPHORONE	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				N-NITROSODI-N-PROPYLAMINE	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				N-NITROSODIPHENYLAMINE	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				NAPHTHALENE	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				NITROBENZENE	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				PENTACHLOROPHENOL	2	mg/kg	U	N Y U	U					CQ1EES	21:20
				PHENANTHRENE	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				PHENOL	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
				PYRENE	.42	mg/kg	U	N Y U	U					CQ1EES	21:20
	SW9010	METHOD	N 0 1	TOTAL CYANIDE	0.64	mg/kg	U	N Y U	U					CQ1EES	00:00
KG3001	SW6010	SW3005	N 0 1	ALUMINUM	16	mg/L		Y Y P	J	08A	13	17		CQH9M	16:23
				ANTIMONY		mg/L	U	N Y U	U					CQH9M	16:23

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:
KG3001	SW6010	SW3005	N 0 1	BARIUM	.137	mg/L	B	Y Y P	J	15	17			CQH9MW	16:23
				BERYLLIUM	.005	mg/L	U	N Y U	U					CQH9MW	16:23
				CADMIUM	.005	mg/L	U	N Y U	U					CQH9MW	16:23
				CALCIUM	50.5	mg/L		Y Y P	J	08A				CQH9MW	16:23
				CHROMIUM	.01	mg/L	U	N Y U	U					CQH9MW	16:23
				COBALT	.05	mg/L	U	N Y U	U					CQH9MW	16:23
				COPPER	.025	mg/L	U	N Y U	U					CQH9MW	16:23
				IRON	1.96	mg/L		Y Y P	J	17				CQH9MW	16:23
				MAGNESIUM	9.09	mg/L		Y Y P	J	08A				CQH9MW	16:23
				MANGANESE	.39	mg/L		Y Y P	J	17				CQH9MW	16:23
				NICKEL	.04	mg/L	U	N Y U	U					CQH9MW	16:23
				POTASSIUM	1.75	mg/L	B	Y Y P	J	08A	15	17		CQH9MW	16:23
				SILVER	.01	mg/L	U	N Y U	U					CQH9MW	16:23
				SODIUM	8.58	mg/L		Y Y P	J	08A	17			CQH9MW	16:23
				VANADIUM	.05	mg/L	U	N Y U	U					CQH9MW	16:23
				ZINC	.0104	mg/L	B	Y Y P	J	15				CQH9MW	16:23
	SW6010	TOTREC	N 0 1	ARSENIC	.01	mg/L	U	N Y U	U					CQH9MW	16:23
				LEAD	.003	mg/L	U	N Y U	U					CQH9MW	16:23
				SELENIUM	.005	mg/L	U	N Y U	U					CQH9MW	16:23
				THALLIUM	.01	mg/L	U	N Y U	U					CQH9MW	16:23
	SW7470	TOTAL	N 0 1	MERCURY	.0002	mg/L	U	N Y U	U					CQH9MW	11:41
	SW8260	SW5030	N 0 1	1,1,1,2-TETRACHLOROETHANE	.001	mg/L	U	N Y U	U					CQH9MW	19:31
				1,1,1-TRICHLOROETHANE	.001	mg/L	U	N Y U	U					CQH9MW	19:31
				1,1,2,2-TETRACHLOROETHANE	.001	mg/L	U	N Y U	U					CQH9MW	19:31
				1,1,2-TRICHLOROETHANE	.001	mg/L	U	N Y U	U					CQH9MW	19:31
				1,1-DICHLOROETHANE	.001	mg/L	U	N Y U	U					CQH9MW	19:31
				1,1-DICHLOROETHENE	.001	mg/L	U	N Y U	U					CQH9MW	19:31
				1,1-DICHLOROPROPENE	.001	mg/L	U	N Y U	U					CQH9MW	19:31
				1,2,3-TRICHLOROBENZENE	.001	mg/L	U	N Y U	U					CQH9MW	19:31
				1,2,3-TRICHLOROPROPANE	.001	mg/L	U	N Y U	U					CQH9MW	19:31
				1,2,4-TRICHLOROBENZENE	.001	mg/L	U	N Y U	U					CQH9MW	19:31
				1,2,4-TRIMETHYLBENZENE	.001	mg/L	U	N Y U	U					CQH9MW	19:31
				1,2-DIBROMO-3-CHLOROPROPANE	.002	mg/L	U	N Y U	R	04A	05A	05B		CQH9MW	19:31
				1,2-DIBROMOETHANE	.001	mg/L	U	N Y U	U					CQH9MW	19:31
				1,2-DICHLOROBENZENE	.001	mg/L	U	N Y U	U					CQH9MW	19:31
				1,2-DICHLOROETHANE	.001	mg/L	U	N Y U	U					CQH9MW	19:31
				1,2-DICHLOROPROPANE	.001	mg/L	U	N Y U	U					CQH9MW	19:31
				1,3,5-TRIMETHYLBENZENE	.001	mg/L	U	N Y U	U					CQH9MW	19:31
				1,3-DICHLOROBENZENE	.001	mg/L	U	N Y U	U					CQH9MW	19:31
				1,3-DICHLOROPROPANE	.001	mg/L	U	N Y U	U					CQH9MW	19:31
				1,4-DICHLOROBENZENE	.001	mg/L	U	N Y U	U					CQH9MW	19:31
				2,2-DICHLOROPROPANE	.001	mg/L	U	N Y U	U					CQH9MW	19:31
				2-BUTANONE	.005	mg/L	U	N Y U	R	04A	05A			CQH9MW	19:31

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:
KG3001	SW8260	SW5030	N	0	1	2-CHLOROTOLUENE	.001	mg/L	U	N	Y	U	U					CQH9MW	19:31
						2-HEXANONE	.005	mg/L	U	N	Y	U	U					CQH9MW	19:31
						4-CHLOROTOLUENE	.001	mg/L	U	N	Y	U	U					CQH9MW	19:31
						4-METHYL-2-PENTANONE	.005	mg/L	U	N	Y	U	U					CQH9MW	19:31
						ACETONE	.0036	mg/L	J	Y	Y	F	B	04A	05A	06C	15	CQH9MW	19:31
						BENZENE	.001	mg/L	U	N	Y	U	U					CQH9MW	19:31
						BROMOBENZENE	.001	mg/L	U	N	Y	U	U					CQH9MW	19:31
						BROMOCHLOROMETHANE	.001	mg/L	U	N	Y	U	U					CQH9MW	19:31
						BROMODICHLOROMETHANE	.001	mg/L	U	N	Y	U	U					CQH9MW	19:31
						BROMOFORM	.001	mg/L	U	N	Y	U	UJ	05B				CQH9MW	19:31
						BROMOMETHANE	.002	mg/L	U	N	Y	U	U					CQH9MW	19:31
						CARBON DISULFIDE	.001	mg/L	U	N	Y	U	U					CQH9MW	19:31
						CARBON TETRACHLORIDE	.001	mg/L	U	N	Y	U	U					CQH9MW	19:31
						CHLOROBENZENE	.001	mg/L	U	N	Y	U	U					CQH9MW	19:31
						CHLORODIBROMOMETHANE	.001	mg/L	U	N	Y	U	U					CQH9MW	19:31
						CHLOROETHANE	.002	mg/L	U	N	Y	U	U					CQH9MW	19:31
						CHLOROFORM	.001	mg/L	U	N	Y	U	U					CQH9MW	19:31
						CHLOROMETHANE	.002	mg/L	U	N	Y	U	U					CQH9MW	19:31
						CIS-1,2-DICHLOROETHENE	.00014	mg/L	J	Y	Y	P	J	15				CQH9MW	19:31
						CIS-1,3-DICHLOROPROPENE	.001	mg/L	U	N	Y	U	U					CQH9MW	19:31
						DIBROMOMETHANE	.001	mg/L	U	N	Y	U	U					CQH9MW	19:31
						DICHLORODIFLUOROMETHANE	.002	mg/L	U	N	Y	U	U					CQH9MW	19:31
						ETHYLBENZENE	.001	mg/L	U	N	Y	U	U					CQH9MW	19:31
						HEXACHLOROBUTADIENE	.001	mg/L	U	N	Y	U	U					CQH9MW	19:31
						ISOPROPYLBENZENE	.001	mg/L	U	N	Y	U	U					CQH9MW	19:31
						M-XYLENE & P-XYLENE	.001	mg/L	U	N	Y	U	U					CQH9MW	19:31
						METHYLENE CHLORIDE	.001	mg/L	B	Y	Y	F	B	04B	05B	06A	06D	CQH9MW	19:31
						N-BUTYLBENZENE	.001	mg/L	U	N	Y	U	U					CQH9MW	19:31
						N-PROPYLBENZENE	.001	mg/L	U	N	Y	U	U					CQH9MW	19:31
						NAPHTHALENE	.00039	mg/L	J	Y	Y	P	J	15				CQH9MW	19:31
						O-XYLENE	.001	mg/L	U	N	Y	U	U					CQH9MW	19:31
						P-ISOPROPYLTOLUENE	.001	mg/L	U	N	Y	U	U					CQH9MW	19:31
						SEC-BUTYLBENZENE	.001	mg/L	U	N	Y	U	U					CQH9MW	19:31
						STYRENE	.001	mg/L	U	N	Y	U	U					CQH9MW	19:31
						TERT-BUTYLBENZENE	.001	mg/L	U	N	Y	U	U					CQH9MW	19:31
						TETRACHLOROETHENE	.001	mg/L	U	N	Y	U	U					CQH9MW	19:31
						TOLUENE	.001	mg/L	U	N	Y	U	U					CQH9MW	19:31
						TRANS-1,2-DICHLOROETHENE	.001	mg/L	U	N	Y	U	U					CQH9MW	19:31
						TRANS-1,3-DICHLOROPROPENE	.001	mg/L	U	N	Y	U	U					CQH9MW	19:31
						TRICHLOROETHENE	.001	mg/L	U	N	Y	U	U					CQH9MW	19:31
						TRICHLOROFLUOROMETHANE	.002	mg/L	U	N	Y	U	U					CQH9MW	19:31
						VINYL CHLORIDE	.002	mg/L	U	N	Y	U	U					CQH9MW	19:31
	SW8270	SW3520	N	0	1	1,2,4-TRICHLOROBENZENE	01	mg/L	U	N	Y	U	U					CQH9MW	03:25

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:
KG3001	SW8270	SW3520	N 0 1	1,2-DICHLOROBENZENE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				1,3-DICHLOROBENZENE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				1,4-DICHLOROBENZENE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				2,2'-OXYBIS(1-CHLOROPROPANE)	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				2,4,5-TRICHLOROPHENOL	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				2,4,6-TRICHLOROPHENOL	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				2,4-DICHLOROPHENOL	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				2,4-DIMETHYLPHENOL	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				2,4-DINITROPHENOL	.05	mg/L	U	N	Y	U	U					CQH9MW	03:25
				2,4-DINITROTOLUENE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				2,6-DINITROTOLUENE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				2-CHLORONAPHTHALENE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				2-CHLOROPHENOL	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				2-METHYLNAPHTHALENE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				2-METHYLPHENOL	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				2-NITROANILINE	.05	mg/L	U	N	Y	U	U					CQH9MW	03:25
				2-NITROPHENOL	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				3,3'-DICHLOROBENZIDINE	.05	mg/L	U	N	Y	U	U					CQH9MW	03:25
				3-NITROANILINE	.05	mg/L	U	N	Y	U	U					CQH9MW	03:25
				4,6-DINITRO-2-METHYLPHENOL	.05	mg/L	U	N	Y	U	U					CQH9MW	03:25
				4-BROMOPHENYL PHENYL ETHER	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				4-CHLORO-3-METHYLPHENOL	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				4-CHLOROANILINE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				4-CHLOROPHENYL PHENYL ETHER	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				4-METHYLPHENOL	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				4-NITROANILINE	.05	mg/L	U	N	Y	U	U					CQH9MW	03:25
				4-NITROPHENOL	.05	mg/L	U	N	Y	U	UJ	05B				CQH9MW	03:25
				ACENAPHTHENE	.0033	mg/L	J	Y	Y	P	J	15	17			CQH9MW	03:25
				ACENAPHTHYLENE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				ANTHRACENE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				BENZ(A)ANTHRACENE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				BENZO(A)PYRENE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				BENZO(B)FLUORANTHENE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				BENZO(GHI)PERYLENE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				BENZO(K)FLUORANTHENE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				BIS(2-CHLOROETHOXY)METHANE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				BIS(2-CHLOROETHYL) ETHER	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				BIS(2-ETHYLHEXYL) PHTHALATE	.0011	mg/L	J	Y	Y	P	J	15				CQH9MW	03:25
				BUTYL BENZYL PHTHALATE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				CARBAZOLE	.007	mg/L	J	Y	Y	P	J	15	17			CQH9MW	03:25
				CHRYSENE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				DI-N-BUTYL PHTHALATE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				DI-N-OCTYL PHTHALATE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
				DIBENZ(A,H)ANTHRACENE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25

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:
KG3001	SW8270	SW3520	N	0	1	DIBENZOFURAN	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
						DIETHYL PHTHALATE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
						DIMETHYL PHTHALATE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
						FLUORANTHENE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
						FLUORENE	.0012	mg/L	J	Y	Y	P	J	15	17			CQH9MW	03:25
						HEXACHLOROBENZENE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
						HEXACHLOROBUTADIENE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
						HEXACHLOROCYCLOPENTADIENE	.05	mg/L	U	N	Y	U	U					CQH9MW	03:25
						HEXACHLOROETHANE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
						INDENO(1,2,3-CD)PYRENE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
						ISOPHORONE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
						N-NITROSODI-N-PROPYLAMINE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
						N-NITROSODIPHENYLAMINE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
						NAPHTHALENE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
						NITROBENZENE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
						PENTACHLOROPHENOL	.05	mg/L	U	N	Y	U	U					CQH9MW	03:25
						PHENANTHRENE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
						PHENOL	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
						PYRENE	.01	mg/L	U	N	Y	U	U					CQH9MW	03:25
	SW9010	METHOD	N	0	1	TOTAL CYANIDE	0.010	mg/L	U	N	Y	U	U					CQH9MW	00:00
KG3002	SW6010	SW3005	N	0	1	ALUMINUM	.448	mg/L		Y	Y		J	08A	13	17		CQH9VW	16:27
						ANTIMONY	.06	mg/L	U	N	Y		U					CQH9VW	16:27
						BARIUM	.206	mg/L		Y	Y		J	17				CQH9VW	16:27
						BERYLLIUM	.005	mg/L	U	N	Y		U					CQH9VW	16:27
						CADMIUM	.005	mg/L	U	N	Y		U					CQH9VW	16:27
						CALCIUM	60.4	mg/L		Y	Y		J	08A				CQH9VW	16:27
						CHROMIUM	.01	mg/L	U	N	Y		U					CQH9VW	16:27
						COBALT	.05	mg/L	U	N	Y		U					CQH9VW	16:27
						COPPER	.025	mg/L	U	N	Y		U					CQH9VW	16:27
						IRON	.484	mg/L		Y	Y		J	17				CQH9VW	16:27
						MAGNESIUM	9.72	mg/L		Y	Y		J	08A				CQH9VW	16:27
						MANGANESE	.88	mg/L		Y	Y		J	17				CQH9VW	16:27
						NICKEL	.04	mg/L	U	N	Y		U					CQH9VW	16:27
						POTASSIUM	2.84	mg/L	B	Y	Y		J	08A	15	17		CQH9VW	16:27
						SILVER	.01	mg/L	U	N	Y		U					CQH9VW	16:27
						SODIUM	3.69	mg/L	B	Y	Y		J	08A	15	17		CQH9VW	16:27
						VANADIUM	.05	mg/L	U	N	Y		U					CQH9VW	16:27
						ZINC	.02	mg/L	U	N	Y		U					CQH9VW	16:27
	SW6010	TOTREC	N	0	1	ARSENIC	.01	mg/L	U	N	Y		U					CQH9VW	16:27
						LEAD	.003	mg/L	U	N	Y		U					CQH9VW	16:27
						SELENIUM	.005	mg/L	U	N	Y		U					CQH9VW	16:27
						THALLIUM	.005	mg/L	B	Y	Y		B	06A	06B	15		CQH9VW	16:27
	S[illegible]70	TOTAL	N	0	1	MERCURY	[illegible]0002	mg/L	U	N	Y		U					CQH9V[illegible]	11:44

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:
KG3002	SW8260	SW5030	N 0 1	1,1,1,2-TETRACHLOROETHANE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				1,1,1-TRICHLOROETHANE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				1,1,2,2-TETRACHLOROETHANE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				1,1,2-TRICHLOROETHANE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				1,1-DICHLOROETHANE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				1,1-DICHLOROETHENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				1,1-DICHLOROPROPENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				1,2,3-TRICHLOROBENZENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				1,2,3-TRICHLOROPROPANE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				1,2,4-TRICHLOROBENZENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				1,2,4-TRIMETHYLBENZENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				1,2-DIBROMO-3-CHLOROPROPANE	.002	mg/L	U	N Y	R	04A	05A	05B		CQH9VW	19:58
				1,2-DIBROMOETHANE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				1,2-DICHLOROBENZENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				1,2-DICHLOROETHANE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				1,2-DICHLOROPROPANE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				1,3,5-TRIMETHYLBENZENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				1,3-DICHLOROBENZENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				1,3-DICHLOROPROPANE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				1,4-DICHLOROBENZENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				2,2-DICHLOROPROPANE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				2-BUTANONE	.005	mg/L	U	N Y	R	04A	05A			CQH9VW	19:58
				2-CHLOROTOLUENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				2-HEXANONE	.005	mg/L	U	N Y	U					CQH9VW	19:58
				4-CHLOROTOLUENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				4-METHYL-2-PENTANONE	.005	mg/L	U	N Y	U					CQH9VW	19:58
				ACETONE	.0047	mg/L	J	Y Y	B	04A	05A	06C	15	CQH9VW	19:58
				BENZENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				BROMOBENZENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				BROMOCHLOROMETHANE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				BROMODICHLOROMETHANE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				BROMOFORM	.001	mg/L	U	N Y	UJ	05B				CQH9VW	19:58
				BROMOMETHANE	.002	mg/L	U	N Y	U					CQH9VW	19:58
				CARBON DISULFIDE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				CARBON TETRACHLORIDE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				CHLOROBENZENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				CHLORODIBROMOMETHANE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				CHLOROETHANE	.002	mg/L	U	N Y	U					CQH9VW	19:58
				CHLOROFORM	.001	mg/L	U	N Y	U					CQH9VW	19:58
				CHLOROMETHANE	.002	mg/L	U	N Y	U					CQH9VW	19:58
				CIS-1,2-DICHLOROETHENE	.00017	mg/L	J	Y Y	J	15				CQH9VW	19:58
				CIS-1,3-DICHLOROPROPENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				DIBROMOMETHANE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				DICHLORODIFLUOROMETHANE	.002	mg/L	U	N Y	U					CQH9VW	19:58

Validation Qualifier Data Entry Verification

Run Date: December 13, 2000

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:
KG3002	SW8260	SW5030	N 0 1	ETHYLBENZENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				HEXACHLOROBUTADIENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				ISOPROPYLBENZENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				M-XYLENE & P-XYLENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				METHYLENE CHLORIDE	.0011	mg/L	B	Y Y	B	04B	05B	06A	06D	CQH9VW	19:58
				N-BUTYLBENZENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				N-PROPYLBENZENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				NAPHTHALENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				O-XYLENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				P-ISOPROPYLTOLUENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				SEC-BUTYLBENZENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				STYRENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				TERT-BUTYLBENZENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				TETRACHLOROETHENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				TOLUENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				TRANS-1,2-DICHLOROETHENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				TRANS-1,3-DICHLOROPROPENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				TRICHLOROETHENE	.001	mg/L	U	N Y	U					CQH9VW	19:58
				TRICHLOROFLUOROMETHANE	.002	mg/L	U	N Y	U					CQH9VW	19:58
				VINYL CHLORIDE	.002	mg/L	U	N Y	U					CQH9VW	19:58
	SW8270	SW3520	N 0 1	1,2,4-TRICHLOROBENZENE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				1,2-DICHLOROBENZENE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				1,3-DICHLOROBENZENE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				1,4-DICHLOROBENZENE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				2,2'-OXYBIS(1-CHLOROPROPANE)	.01	mg/L	U	N Y	U					CQH9VW	04:04
				2,4,5-TRICHLOROPHENOL	.01	mg/L	U	N Y	U					CQH9VW	04:04
				2,4,6-TRICHLOROPHENOL	.01	mg/L	U	N Y	U					CQH9VW	04:04
				2,4-DICHLOROPHENOL	.01	mg/L	U	N Y	U					CQH9VW	04:04
				2,4-DIMETHYLPHENOL	.01	mg/L	U	N Y	U					CQH9VW	04:04
				2,4-DINITROPHENOL	.05	mg/L	U	N Y	U					CQH9VW	04:04
				2,4-DINITROTOLUENE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				2,6-DINITROTOLUENE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				2-CHLORONAPHTHALENE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				2-CHLOROPHENOL	.01	mg/L	U	N Y	U					CQH9VW	04:04
				2-METHYLNAPHTHALENE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				2-METHYLPHENOL	.01	mg/L	U	N Y	U					CQH9VW	04:04
				2-NITROANILINE	.05	mg/L	U	N Y	U					CQH9VW	04:04
				2-NITROPHENOL	.01	mg/L	U	N Y	U					CQH9VW	04:04
				3,3'-DICHLOROBENZIDINE	.05	mg/L	U	N Y	U					CQH9VW	04:04
				3-NITROANILINE	.05	mg/L	U	N Y	U					CQH9VW	04:04
				4,6-DINITRO-2-METHYLPHENOL	.05	mg/L	U	N Y	U					CQH9VW	04:04
				4-BROMOPHENYL PHENYL ETHER	.01	mg/L	U	N Y	U					CQH9VW	04:04
				4-CHLORO-3-METHYLPHENOL	.01	mg/L	U	N Y	U					CQH9VW	04:04

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:
KG3002	SW8270	SW3520	N 0 1	4-CHLOROANILINE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				4-CHLOROPHENYL PHENYL ETHER	.01	mg/L	U	N Y	U					CQH9VW	04:04
				4-METHYLPHENOL	.01	mg/L	U	N Y	U					CQH9VW	04:04
				4-NITROANILINE	.05	mg/L	U	N Y	U					CQH9VW	04:04
				4-NITROPHENOL	.05	mg/L	U	N Y	UJ	05B				CQH9VW	04:04
				ACENAPHTHENE	.0059	mg/L	J	Y Y	J	15	17			CQH9VW	04:04
				ACENAPHTHYLENE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				ANTHRACENE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				BENZ(A)ANTHRACENE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				BENZO(A)PYRENE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				BENZO(B)FLUORANTHENE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				BENZO(GHI)PERYLENE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				BENZO(K)FLUORANTHENE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				BIS(2-CHLOROETHOXY)METHANE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				BIS(2-CHLOROETHYL) ETHER	.01	mg/L	U	N Y	U					CQH9VW	04:04
				BIS(2-ETHYLHEXYL) PHTHALATE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				BUTYL BENZYL PHTHALATE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				CARBAZOLE	.012	mg/L		Y Y	J	17				CQH9VW	04:04
				CHRYSENE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				DI-N-BUTYL PHTHALATE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				DI-N-OCTYL PHTHALATE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				DIBENZ(A,H)ANTHRACENE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				DIBENZOFURAN	.0012	mg/L	J	Y Y	J	15				CQH9VW	04:04
				DIETHYL PHTHALATE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				DIMETHYL PHTHALATE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				FLUORANTHENE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				FLUORENE	.0021	mg/L	J	Y Y	J	15	17			CQH9VW	04:04
				HEXACHLOROBENZENE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				HEXACHLOROBUTADIENE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				HEXACHLOROCYCLOPENTADIENE	.05	mg/L	U	N Y	U					CQH9VW	04:04
				HEXACHLOROETHANE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				INDENO(1,2,3-CD)PYRENE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				ISOPHORONE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				N-NITROSODI-N-PROPYLAMINE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				N-NITROSODIPHENYLAMINE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				NAPHTHALENE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				NITROBENZENE	.01	mg/L	U	N Y	U					CQH9VW	04:04
				PENTACHLOROPHENOL	.05	mg/L	U	N Y	U					CQH9VW	04:04
				PHENANTHRENE	.0017	mg/L	J	Y Y	J	15				CQH9VW	04:04
				PHENOL	.01	mg/L	U	N Y	U					CQH9VW	04:04
				PYRENE	.01	mg/L	U	N Y	U					CQH9VW	04:04
	SW9010	METHOD	N 0 1	TOTAL CYANIDE	0.010	mg/L	U	N Y	U					CQH9VW	00:00
KG3004	SW6010	SW3005	N 0 1	ALUMINUM	.146	mg/L	B	Y Y F	B	06C	08A	13	15	CQDV1W	15:26

Validation Qualifier Data Entry Verification

Run Date: December 13, 2000

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:
KG3004	SW6010	SW3005	N	0	1	ANTIMONY	.06	mg/L	U	N	Y	U	U					CQDV1W	15:26
						BARIUM	.0273	mg/L	B	Y	Y	P	J	15				CQDV1W	15:26
						BERYLLIUM	.005	mg/L	U	N	Y	U	U					CQDV1W	15:26
						CADMIUM	.005	mg/L	U	N	Y	U	U					CQDV1W	15:26
						CALCIUM	31	mg/L		Y	Y	P	J	08A				CQDV1W	15:26
						CHROMIUM	.01	mg/L	U	N	Y	U	U					CQDV1W	15:26
						COBALT	.05	mg/L	U	N	Y	U	U					CQDV1W	15:26
						COPPER	.025	mg/L	U	N	Y	U	U					CQDV1W	15:26
						IRON	.106	mg/L		Y	Y	P						CQDV1W	15:26
						MAGNESIUM	4.01	mg/L	B	Y	Y	P	J	08A	15			CQDV1W	15:26
						MANGANESE	.0017	mg/L	B	Y	Y	P	J	15				CQDV1W	15:26
						NICKEL	.04	mg/L	U	N	Y	U	U					CQDV1W	15:26
						POTASSIUM	5	mg/L	U	N	Y	U	U					CQDV1W	15:26
						SILVER	.01	mg/L	U	N	Y	U	U					CQDV1W	15:26
						SODIUM	32.6	mg/L		Y	Y	P	J	08A				CQDV1W	15:26
						VANADIUM	.05	mg/L	U	N	Y	U	U					CQDV1W	15:26
						ZINC	.02	mg/L	U	N	Y	U	U					CQDV1W	15:26
	SW6010	TOTREC	N	0	1	ARSENIC	.01	mg/L	U	N	Y	U	U					CQDV1W	15:26
						LEAD	.003	mg/L	U	N	Y	U	U					CQDV1W	15:26
						SELENIUM	.005	mg/L	U	N	Y	U	U					CQDV1W	15:26
						THALLIUM	.01	mg/L	U	N	Y	U	U					CQDV1W	15:26
	SW7470	TOTAL	N	0	1	MERCURY	.0002	mg/L	U	N	Y	U	U					CQDV1W	11:14
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.001	mg/L	U	N	Y	U	U					CQDV1W	18:32
						1,1,1-TRICHLOROETHANE	.001	mg/L	U	N	Y	U	U					CQDV1W	18:32
						1,1,2,2-TETRACHLOROETHANE	.001	mg/L	U	N	Y	U	U					CQDV1W	18:32
						1,1,2-TRICHLOROETHANE	.001	mg/L	U	N	Y	U	U					CQDV1W	18:32
						1,1-DICHLOROETHANE	.001	mg/L	U	N	Y	U	U					CQDV1W	18:32
						1,1-DICHLOROETHENE	.001	mg/L	U	N	Y	U	U					CQDV1W	18:32
						1,1-DICHLOROPROPENE	.001	mg/L	U	N	Y	U	U					CQDV1W	18:32
						1,2,3-TRICHLOROBENZENE	.001	mg/L	U	N	Y	U	U					CQDV1W	18:32
						1,2,3-TRICHLOROPROPANE	.001	mg/L	U	N	Y	U	U					CQDV1W	18:32
						1,2,4-TRICHLOROBENZENE	.001	mg/L	U	N	Y	U	U					CQDV1W	18:32
						1,2,4-TRIMETHYLBENZENE	.001	mg/L	U	N	Y	U	U					CQDV1W	18:32
						1,2-DIBROMO-3-CHLOROPROPANE	.002	mg/L	U	N	Y	U	R	04A	05A	05B		CQDV1W	18:32
						1,2-DIBROMOETHANE	.001	mg/L	U	N	Y	U	U					CQDV1W	18:32
						1,2-DICHLOROBENZENE	.001	mg/L	U	N	Y	U	U					CQDV1W	18:32
						1,2-DICHLOROETHANE	.001	mg/L	U	N	Y	U	U					CQDV1W	18:32
						1,2-DICHLOROPROPANE	.001	mg/L	U	N	Y	U	U					CQDV1W	18:32
						1,3,5-TRIMETHYLBENZENE	.001	mg/L	U	N	Y	U	U					CQDV1W	18:32
						1,3-DICHLOROBENZENE	.001	mg/L	U	N	Y	U	U					CQDV1W	18:32
						1,3-DICHLOROPROPANE	.001	mg/L	U	N	Y	U	U					CQDV1W	18:32
						1,4-DICHLOROBENZENE	.001	mg/L	U	N	Y	U	U					CQDV1W	18:32
						2,2-DICHLOROPROPANE	.001	mg/L	U	N	Y	U	U					CQDV1W	18:32

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:
KG3004	SW8260	SW5030	N 0 1	2-BUTANONE	.005	mg/L	U	N Y U	R	04A	05A			CQDV1W	18:32
				2-CHLOROTOLUENE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				2-HEXANONE	.005	mg/L	U	N Y U	U					CQDV1W	18:32
				4-CHLOROTOLUENE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				4-METHYL-2-PENTANONE	.005	mg/L	U	N Y U	U					CQDV1W	18:32
				ACETONE	.01	mg/L	U	N Y U	R	04A	05A			CQDV1W	18:32
				BENZENE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				BROMOBENZENE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				BROMOCHLOROMETHANE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				BROMODICHLOROMETHANE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				BROMOFORM	.001	mg/L	U	N Y U	UJ	05B				CQDV1W	18:32
				BROMOMETHANE	.002	mg/L	U	N Y U	U					CQDV1W	18:32
				CARBON DISULFIDE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				CARBON TETRACHLORIDE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				CHLOROBENZENE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				CHLORODIBROMOMETHANE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				CHLOROETHANE	.002	mg/L	U	N Y U	U					CQDV1W	18:32
				CHLOROFORM	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				CHLOROMETHANE	.002	mg/L	U	N Y U	U					CQDV1W	18:32
				CIS-1,2-DICHLOROETHENE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				CIS-1,3-DICHLOROPROPENE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				DIBROMOMETHANE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				DICHLORODIFLUOROMETHANE	.002	mg/L	U	N Y U	U					CQDV1W	18:32
				ETHYLBENZENE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				HEXACHLOROBUTADIENE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				ISOPROPYLBENZENE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				M-XYLENE & P-XYLENE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				METHYLENE CHLORIDE	.001	mg/L	B	Y Y F	B	04B	05B	06	15	CQDV1W	18:32
				N-BUTYLBENZENE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				N-PROPYLBENZENE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				NAPHTHALENE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				O-XYLENE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				P-ISOPROPYLTOLUENE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				SEC-BUTYLBENZENE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				STYRENE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				TERT-BUTYLBENZENE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				TETRACHLOROETHENE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				TOLUENE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				TRANS-1,2-DICHLOROETHENE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				TRANS-1,3-DICHLOROPROPENE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				TRICHLOROETHENE	.001	mg/L	U	N Y U	U					CQDV1W	18:32
				TRICHLOROFLUOROMETHANE	.002	mg/L	U	N Y U	U					CQDV1W	18:32
				VINYL CHLORIDE	.002	mg/L	U	N Y U	U					CQDV1W	18:32

Validation Qualifier Data Entry Verification

Run Date: December 13, 2000

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:
KG3005	SW6010	SW3005	N	0	1	ALUMINUM	.52	mg/L		Y	Y	P	J	08A	13			CQDV2W	15:31
						ANTIMONY	.06	mg/L	U	N	Y	U	U					CQDV2W	15:31
						BARIUM	.0663	mg/L	B	Y	Y	P	J	15				CQDV2W	15:31
						BERYLLIUM	.005	mg/L	U	N	Y	U	U					CQDV2W	15:31
						CADMIUM	.005	mg/L	U	N	Y	U	U					CQDV2W	15:31
						CALCIUM	67.5	mg/L		Y	Y	P	J	08A				CQDV2W	15:31
						CHROMIUM	.01	mg/L	U	N	Y	U	U					CQDV2W	15:31
						COBALT	.05	mg/L	U	N	Y	U	U					CQDV2W	15:31
						COPPER	.025	mg/L	U	N	Y	U	U					CQDV2W	15:31
						IRON	.635	mg/L		Y	Y	P						CQDV2W	15:31
						MAGNESIUM	21.6	mg/L		Y	Y	P	J	08A				CQDV2W	15:31
						MANGANESE	.0869	mg/L		Y	Y	P						CQDV2W	15:31
						NICKEL	.04	mg/L	U	N	Y	U	U					CQDV2W	15:31
						POTASSIUM	5	mg/L	U	N	Y	U	U					CQDV2W	15:31
						SILVER	.01	mg/L	U	N	Y	U	U					CQDV2W	15:31
						SODIUM	12	mg/L		Y	Y	P	J	08A				CQDV2W	15:31
						VANADIUM	.05	mg/L	U	N	Y	U	U					CQDV2W	15:31
						ZINC	.02	mg/L	U	N	Y	U	U					CQDV2W	15:31
	SW6010	TOTREC	N	0	1	ARSENIC	.0037	mg/L	B	Y	Y	P	J	15				CQDV2W	15:31
						LEAD	.003	mg/L	U	N	Y	U	U					CQDV2W	15:31
						SELENIUM	.005	mg/L	U	N	Y	U	U					CQDV2W	15:31
						THALLIUM	.0044	mg/L	B	Y	Y	F	B	06A	06B	15		CQDV2W	15:31
	SW7470	TOTAL	N	0	1	MERCURY	.0002	mg/L	U	N	Y	U	U					CQDV2W	11:17
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
						1,1,1-TRICHLOROETHANE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
						1,1,2,2-TETRACHLOROETHANE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
						1,1,2-TRICHLOROETHANE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
						1,1-DICHLOROETHANE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
						1,1-DICHLOROETHENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
						1,1-DICHLOROPROPENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
						1,2,3-TRICHLOROBENZENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
						1,2,3-TRICHLOROPROPANE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
						1,2,4-TRICHLOROBENZENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
						1,2,4-TRIMETHYLBENZENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
						1,2-DIBROMO-3-CHLOROPROPANE	.002	mg/L	U	N	Y	U	R	04A	05A	05B		CQDV2W	16:37
						1,2-DIBROMOETHANE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
						1,2-DICHLOROBENZENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
						1,2-DICHLOROETHANE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
						1,2-DICHLOROPROPANE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
						1,3,5-TRIMETHYLBENZENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
						1,3-DICHLOROBENZENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
						1,3-DICHLOROPROPANE	001	mg/L	U	N	Y	U	U					CQDV2W	16:37
						1,4-DICHLOROBENZENE	1	mg/L	U	N	Y	U	U					CQDV2	16:37

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:
KG3005	SW8260	SW5030	N 0 I	2,2-DICHLOROPROPANE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				2-BUTANONE	.005	mg/L	U	N	Y	U	R	04A	05A			CQDV2W	16:37
				2-CHLOROTOLUENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				2-HEXANONE	.005	mg/L	U	N	Y	U	U					CQDV2W	16:37
				4-CHLOROTOLUENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				4-METHYL-2-PENTANONE	.005	mg/L	U	N	Y	U	U					CQDV2W	16:37
				ACETONE	.01	mg/L	U	N	Y	U	R	04A	05A			CQDV2W	16:37
				BENZENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				BROMOBENZENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				BROMOCHLOROMETHANE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				BROMODICHLOROMETHANE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				BROMOFORM	.001	mg/L	U	N	Y	U	UJ	05B				CQDV2W	16:37
				BROMOMETHANE	.002	mg/L	U	N	Y	U	U					CQDV2W	16:37
				CARBON DISULFIDE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				CARBON TETRACHLORIDE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				CHLOROBENZENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				CHLORODIBROMOMETHANE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				CHLOROETHANE	.002	mg/L	U	N	Y	U	U					CQDV2W	16:37
				CHLOROFORM	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				CHLOROMETHANE	.002	mg/L	U	N	Y	U	U					CQDV2W	16:37
				CIS-1,2-DICHLOROETHENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				CIS-1,3-DICHLOROPROPENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				DIBROMOMETHANE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				DICHLORODIFLUOROMETHANE	.002	mg/L	U	N	Y	U	U					CQDV2W	16:37
				ETHYLBENZENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				HEXACHLOROBUTADIENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				ISOPROPYLBENZENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				M-XYLENE & P-XYLENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				METHYLENE CHLORIDE	.0016	mg/L	B	Y	Y	F	B	04B	05B	06		CQDV2W	16:37
				N-BUTYLBENZENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				N-PROPYLBENZENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				NAPHTHALENE	.00053	mg/L	J	Y	Y	P	J	15				CQDV2W	16:37
				O-XYLENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				P-ISOPROPYLTOLUENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				SEC-BUTYLBENZENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				STYRENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				TERT-BUTYLBENZENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				TETRACHLOROETHENE	.00022	mg/L	J	Y	Y	P	J	15				CQDV2W	16:37
				TOLUENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				TRANS-1,2-DICHLOROETHENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				TRANS-1,3-DICHLOROPROPENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				TRICHLOROETHENE	.001	mg/L	U	N	Y	U	U					CQDV2W	16:37
				TRICHLOROFLUOROMETHANE	.002	mg/L	U	N	Y	U	U					CQDV2W	16:37
				VINYL CHLORIDE	.002	mg/L	U	N	Y	U	U					CQDV2W	16:37

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:
KG3005	SW8270	SW3520	N 0 1	1,2,4-TRICHLOROBENZENE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				1,2-DICHLOROBENZENE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				1,3-DICHLOROBENZENE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				1,4-DICHLOROBENZENE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				2,2'-OXYBIS(1-CHLOROPROPANE)	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				2,4,5-TRICHLOROPHENOL	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				2,4,6-TRICHLOROPHENOL	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				2,4-DICHLOROPHENOL	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				2,4-DIMETHYLPHENOL	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				2,4-DINITROPHENOL	.05	mg/L	U	N Y U	U		CQDV2W	12:09
				2,4-DINITROTOLUENE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				2,6-DINITROTOLUENE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				2-CHLORONAPHTHALENE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				2-CHLOROPHENOL	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				2-METHYLNAPHTHALENE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				2-METHYLPHENOL	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				2-NITROANILINE	.05	mg/L	U	N Y U	U		CQDV2W	12:09
				2-NITROPHENOL	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				3,3'-DICHLOROBENZIDINE	.05	mg/L	U	N Y U	U		CQDV2W	12:09
				3-NITROANILINE	.05	mg/L	U	N Y U	U		CQDV2W	12:09
				4,6-DINITRO-2-METHYLPHENOL	.05	mg/L	U	N Y U	U		CQDV2W	12:09
				4-BROMOPHENYL PHENYL ETHER	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				4-CHLORO-3-METHYLPHENOL	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				4-CHLOROANILINE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				4-CHLOROPHENYL PHENYL ETHER	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				4-METHYLPHENOL	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				4-NITROANILINE	.05	mg/L	U	N Y U	U		CQDV2W	12:09
				4-NITROPHENOL	.05	mg/L	U	N Y U	U		CQDV2W	12:09
				ACENAPHTHENE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				ACENAPHTHYLENE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				ANTHRACENE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				BENZ(A)ANTHRACENE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				BENZO(A)PYRENE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				BENZO(B)FLUORANTHENE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				BENZO(GHI)PERYLENE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				BENZO(K)FLUORANTHENE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				BIS(2-CHLOROETHOXY)METHANE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				BIS(2-CHLOROETHYL) ETHER	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				BIS(2-ETHYLHEXYL) PHTHALATE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				BUTYL BENZYL PHTHALATE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				CARBAZOLE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				CHRYSENE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				DI-N-BUTYL PHTHALATE		mg/L	U	N Y U	U		CQDV2	12:09
				DI-N-OCTYL PHTHALATE		mg/L	U	N Y U	U		CQDV2	12:09

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:
KG3005	SW8270	SW3520	N 0 1	DIBENZ(A,H)ANTHRACENE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				DIBENZOFURAN	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				DIETHYL PHTHALATE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				DIMETHYL PHTHALATE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				FLUORANTHENE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				FLUORENE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				HEXACHLOROBENZENE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				HEXACHLOROBUTADIENE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				HEXACHLOROCYCLOPENTADIENE	.05	mg/L	U	N Y U	U		CQDV2W	12:09
				HEXACHLOROETHANE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				INDENO(1,2,3-CD)PYRENE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				ISOPHORONE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				N-NITROSODI-N-PROPYLAMINE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				N-NITROSODIPHENYLAMINE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				NAPHTHALENE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				NITROBENZENE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				PENTACHLOROPHENOL	.05	mg/L	U	N Y U	U		CQDV2W	12:09
				PHENANTHRENE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				PHENOL	.01	mg/L	U	N Y U	U		CQDV2W	12:09
				PYRENE	.01	mg/L	U	N Y U	U		CQDV2W	12:09
	SW9010	METHOD	N 0 1	TOTAL CYANIDE	0.010	mg/L	U	N Y U	U		CQDV2W	00:00

APPENDIX G

NONCONFORMANCES

INTERNATIONAL TECHNOLOGY CORPORATION	**Variance No:** PARCEL162(7)MAY00.VR1 **Linked w/NC No:** x **Date of Issue:** 5/4/00 **Page _1 of 1__**
Project Name: **Fort McClellan** - CK05	Project Number: 774645.15020300

-Nonconformance Report -

I.Description: (by the person identifying the change)

FINAL SITE-SPECIFIC FIELD SAMPLING PLAN PRINTING PLANT, BUILDING 3183 PARCEL 162(7)

The Final Site-Specific Field Sampling Plan proposed the collection of groundwater samples for chemical analyses from temporary wells PPMP-162-GP01, PPMP-162-GP02 and PPMP-162-GP03. Target analyses for groundwater samples collected from each temporary well was to consist of the following analytical suite:

- TCL VOCs – Method 8260B
- TCL SVOCs – Method 8270C
- TAL Metals – Method 6010B/7000
- Total and Amenable Cyanide – Method 9010B

During purging and groundwater sampling activities, temporary well PPMP-162-GP02 was purged dry after extracting enough groundwater for VOCs and Metals analyses. Due to temporary well PPMP-162-GP02 being purged dry, SVOCs and Cyanide were not collected for analyses.

Identified by: Jeffrey Tarr, PG – IT Site Manager	Date: 5-4-00

II. Recommended Corrective Action:

Groundwater collected from temporary well PPMP-162-GP02 was not analyzed for SVOCs and Cyanide. During purging and groundwater sampling activities, temporary well PPMP-162-GP02 was dry after extracting enough groundwater for VOCs and Metals analyses. However, the only SVOC detected in groundwater that exceeded Site-Specific Screening Levels (SSSLs) was Carbazole. Carbazole was detected at .007 milligrams per Liter (mg\L), which slightly exceeded the SSSL limit of .00276 mg / L. Based upon the SVOC analytical results for groundwater samples collected from temporary wells PPMP-162-GP01 and PPMP-162-GP03, SVOCs appear to have minimal impact on groundwater at the site. Consequently, the lack of SVOC data for the groundwater sample from temporary well PPMP-162-GP02 does not invalidate the results of the groundwater evaluation.

III. Applicable Document/Work Plan: (by the person identifying the change)

Final Site-Specific Field Sampling Plan, Printing Plant Building 3183, Parcel 162(7), December 1998.

Distribution List: 1. Jeanne Yacoub, IT Project Manager 2. Steve Moran, IT Technical Lead 3. Jeffrey Tarr, IT Site Manager 4. Randy McBride, IT QA Officer 5. Mr. Ellis Pope, US Army Corps of Engineers 6. Mr. Ross McCollum, US Army Corps of Engineers	**- Signatures -** Requested by: Jeffrey Tarr, PG - IT Site Manager Date Approved by: Date Project Manager Approval: Date

APPENDIX H

SUMMARY STATISTICS FOR BACKGROUND MEDIA, FORT MCCLELLAN, ALABAMA

Table 4-9. Summary Statistics for Background Groundwater
Fort McClellan, Alabama

Run Time: 4:50:27 PM
Run Date: 7/9/98
Exposure Unit: WD

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]
Alkalinity-phenolphthalein	µg/L	33	2	6%	5,000	5,000	104,000	132,000	9,500.00	28,204	Lognormal	9,763	9,763		19,000
Aluminum	µg/L	57	34	60%	50	141	59	9,600	1,167.66	2,030	Lognormal	19,988	9,600	#	2,335
Antimony	µg/L	57	2	4%	0.60	10.0	0.70	0.80	1.60	1.7	Lognormal	4.4	0.80	#	3.191
Arsenic	µg/L	57	10	18%	1.1	2.5	1.5	224	8.88	41	Lognormal	6.1	6.1		17.764
Barium	µg/L	57	53	93%	6.5	18	5.5	401	63.73	88	Lognormal	144	144		127.458
Beryllium	µg/L	57	15	26%	0.20	5.0	0.20	2.4	0.62	0.74	Lognormal	1.8	1.8		1.247
Bicarbonate	µg/L	33	22	67%	5,000	172,000	9,000	392,000	100,818.18	93,836	Lognormal	831,264	392,000	#	201,636
Bromide	µg/L	33	4	12%	200	200	278	715	138.03	121	Lognormal	171	171		276.06
Cadmium	µg/L	57	22	39%	0.100	5.0	0.100	5.3	1.26	1.2	Lognormal	10	5.3	#	2.51
Calcium	µg/L	57	48	84%	231	33,900	217	452,000	28,246.44	60,264	Lognormal	580,060	452,000	#	56,493
Chloride	µg/L	33	24	73%	923	2,640	1,080	11,000	2,446.06	2,363	Lognormal	4,347	4,347		4,892
Cobalt	µg/L	57	3	5%	20	25	20	25	11.68	2.8	Lognormal	13	13		23.36
Copper	µg/L	57	10	18%	5.0	19	5.3	235	12.74	32	Lognormal	21	21		25.48
Fluoride	µg/L	33	6	18%	200	200	202	646	146.24	124	Lognormal	185	185		292.48
Iron	µg/L	57	44	77%	45	78	2.5	25,800	3,520.25	5,364	Lognormal	590,286	25,800	#	7,040
Lead	µg/L	57	25	44%	0.60	4.5	0.60	27	4.00	6.1	Lognormal	13	13		7.998
Magnesium	µg/L	57	47	82%	100	18,400	176	149,000	10,640.88	19,972	Lognormal	146,372	146,372		21,282
Manganese	µg/L	57	42	74%	5.0	9.7	9.8	5,820	290.25	809	Lognormal	7,221	5,820	#	580.5
Nitrate,Nitrite	µg/L	33	4	12%	10.0	1,110	430	771	141.26	219	Lognormal	1,192	771	#	282.5
Potassium	µg/L	57	43	75%	270	1,240	1.0	68,500	3,597.54	9,508	Lognormal	18,602	18,602		7,195
Silver	µg/L	57	1	2%	0.100	10.0	0.40	0.40	2.00	2.4	Lognormal	141	0.40	#	4.00
Sodium	µg/L	57	52	91%	892	1,180	555	64,700	7,423.18	11,765	Lognormal	23,173	23,173		14,846
Sulfate	µg/L	33	25	76%	1000	3,680	1,650	1.4E+06	51,628.33	242,827	Lognormal	88,195	88,195		103,257
Thallium	µg/L	54	7	13%	0.100	10.0	0.100	5.3	0.73	1.2	Lognormal	5.3	5.3		1.455
Total Alkalinity	µg/L	33	22	67%	5,000	172,000	9,000	392,000	103,424.24	93,707	Lognormal	880,230	392,000	#	206,848
Total Phosphorous	µg/L	33	21	64%	10.0	10.0	10.0	282	44.30	70	Lognormal	140	140		88.594
Vanadium	µg/L	57	2	4%	10.0	28	11	11	8.49	4.3	Lognormal	11	11		16.975
Zinc	µg/L	57	25	44%	18	30	22	1,160	109.98	249	Lognormal	273	273		219.97

[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 4-10. Summary Statistics for Background Surface Water
Fort McClellan, Alabama

Run Time: 5:11:42 PM
Run Date: 7/9/98
Exposure Unit: WS

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	µg/L	67	57	85%	50	141	65	47,800	2,629.59	7,921	Lognormal	17,831	17,831		5,259
Arsenic	µg/L	65	9	14%	1.1	2.4	1.4	11	1.08	1.5	Lognormal	1.5	1.5		2.17
Barium	µg/L	67	67	100%	- -	- -	11	200	37.68	35	Lognormal	55	55		75.36
Beryllium	µg/L	56	9	16%	0.20	0.20	0.20	3.2	0.19	0.43	Lognormal	0.22	0.22		0.39
Bicarbonate	µg/L	56	40	71%	5,000	5,000	6,000	172,000	53,178.57	57,480	Lognormal	449,171	172,000	#	106,357
Cadmium	µg/L	67	10	15%	0.20	6.8	0.20	1.5	0.57	0.91	Lognormal	1.4	1.4		1.13
Calcium	µg/L	67	67	100%	- -	- -	179	64,100	12,583.19	13,701	Lognormal	218,721	64,100	#	25,166
Chloride	µg/L	56	56	100%	- -	- -	467	10,100	1,943.05	1,815	Lognormal	2,656	2,656		3,886
Chromium	µg/L	64	1	2%	6.0	17	14	14	5.56	1.7	Undetermined	6.3	6.3		11.13
Copper	µg/L	56	8	14%	5.0	8.1	7.1	72	6.35	13	Lognormal	8.1	8.1		12.70
Fluoride	µg/L	56	6	11%	100	200	128	579	107.86	85	Lognormal	139	139		215.71
Iron	µg/L	67	64	96%	45	78	74	232,000	9,814.08	37,961	Lognormal	46,205	46,205		19,628
Lead	µg/L	66	34	52%	0.60	4.5	0.60	47	4.33	8.3	Lognormal	19	19		8.67
Magnesium	µg/L	67	67	100%	- -	- -	171	24,400	5,486.16	5,916	Lognormal	34,551	24,400	#	10,972
Manganese	µg/L	67	64	96%	5.0	9.7	5.5	6,060	282.42	840	Lognormal	1,153	1,153		564.85
Nickel	µg/L	67	3	4%	15	34	40	70	11.23	11	Lognormal	14	14		22.46
Nitrate,Nitrite	µg/L	56	44	79%	10.0	10.0	11	838	106.09	181	Lognormal	507	507		212.18
Potassium	µg/L	67	61	91%	1,240	1,240	330	7,120	1,281.85	1,157	Lognormal	1,940	1,940		2,564
Sodium	µg/L	66	66	100%	- -	- -	296	15,200	1,718.44	2,043	Lognormal	2,401	2,401		3,437
Sulfate	µg/L	56	56	100%	- -	- -	1,060	62,400	4,313.57	8,203	Lognormal	5,784	5,784		8,627
Thallium	µg/L	59	1	2%	0.100	125	4.2	4.2	1.24	8.1	Undetermined	0.56	0.56		2.49
Total Alkalinity	µg/L	56	40	71%	5,000	5,000	6,000	172,000	53,178.57	57,480	Lognormal	449,171	172,000	#	106,357
Total Phosphorous	µg/L	56	24	43%	10.0	14	11	655	38.82	99	Lognormal	87	87		77.64
Vanadium	µg/L	63	5	8%	10.0	28	13	36	7.60	5.7	Lognormal	9.8	9.8		15.21
Zinc	µg/L	66	6	9%	18	30	27	182	20.17	26	Lognormal	24	24		40.35

[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 4-11. Summary Statistics for Background Sediment
Fort McClellan, Alabama

Run Time: 5:01:01 PM
Run Date: 7/9/98
Exposure Unit: DS

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	65	65	100%	- -	- -	657	17,400	4,296.32	3,138	Lognormal	6,591	6,590.77		8,593
Antimony	ug/g	59	40	68%	0.11	1.00	0.12	1.2	0.36	0.25	Lognormal	0.77	0.77		0.73
Arsenic	ug/g	58	58	100%	- -	- -	0.21	20	5.67	5.0	Lognormal	13	13.34		11.33
Barium	ug/g	65	65	100%	- -	- -	5.4	272	49.46	44	Lognormal	86	85.64		98.91
Beryllium	ug/g	55	55	100%	- -	- -	0.069	1.2	0.49	0.30	Lognormal	0.83	0.83		0.97
Cadmium	ug/g	65	47	72%	0.020	1.2	0.020	2.4	0.22	0.39	Lognormal	0.67	0.67		0.43
Calcium	ug/g	65	61	94%	60	99	88	2,810	555.76	557	Lognormal	1,370	1,369.94		1,111.51
Chromium	ug/g	65	65	100%	- -	- -	1.1	63	15.57	14	Lognormal	30	29.80		31.15
Cobalt	ug/g	64	59	92%	0.24	2.5	0.40	22	5.51	4.5	Lognormal	15	14.80		11.01
Copper	ug/g	61	60	98%	2.8	2.8	0.73	59	8.56	8.8	Lognormal	16	15.75		17.12
Iron	ug/g	65	65	100%	- -	- -	683	57,500	17,633.26	12,838	Lognormal	36,392	36,391.61		35,267
Lead	ug/g	62	61	98%	7.4	7.4	1.7	110	18.91	20	Lognormal	35	35.40		37.82
Magnesium	ug/g	65	65	100%	- -	- -	30	3,270	452.97	686	Lognormal	952	952.13		905.94
Manganese	ug/g	64	62	97%	4.2	5.0	8.7	2,050	356.15	385	Lognormal	1,735	1,735.37		712.31
Mercury	ug/g	65	37	57%	0.024	0.061	0.047	0.28	0.06	0.042	Lognormal	0.087	0.09		0.11
Nickel	ug/g	65	43	66%	2.1	5.3	2.4	33	6.51	6.9	Lognormal	14	14.02		13.02
Potassium	ug/g	65	46	71%	100	151	118	4,810	506.74	842	Lognormal	1,273	1,272.69		1,013.48
Selenium	ug/g	65	4	6%	0.25	1.2	0.72	1.9	0.36	0.29	Lognormal	0.44	0.44		0.72
Silver	ug/g	65	37	57%	0.018	0.80	0.021	1.1	0.16	0.21	Lognormal	0.73	0.73		0.32
Sodium	ug/g	65	57	88%	39	60	173	738	346.14	152	Lognormal	942	738.00	#	692.29
Thallium	ug/g	56	56	100%	- -	- -	0.012	0.22	0.06	0.047	Lognormal	0.098	0.10		0.13
Vanadium	ug/g	65	65	100%	- -	- -	2.6	67	20.44	13	Lognormal	34	33.66		40.87
Zinc	ug/g	65	58	89%	5.3	6.9	6.0	111	26.37	24	Lognormal	56	55.67		52.74

[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 4-12. 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.