

**Final  
Site-Specific Field Sampling Plan Attachment  
Site Investigation at the Washrack, Building 351, Parcel  
170(7)**

**Fort McClellan  
Calhoun County, Alabama**

**Prepared for:**

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**Delivery Order CK005  
Contract No. DACA21-96-D-0018  
IT Project No. 774645**

**September 1999**

**Revision 1**

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## **List of Acronyms**

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|        |   |
|--------|---|
| ADEM   | Alabama Department of Environmental Management    |
| bgs    | below ground surface                              |
| CERFA  | Community Environmental Response Facilitation Act |
| CESAS  | Corps of Engineers South Atlantic Savannah        |
| CLP    | Contract Laboratory Procedure                     |
| COPC   | chemical(s) of potential concern                  |
| CSEM   | conceptual site exposure model                    |
| DOD    | U.S. Department of Defense                        |
| DQO    | data quality objective                            |
| EBS    | environmental baseline survey                     |
| EPA    | U.S. Environmental Protection Agency              |
| ESE    | Environmental Sciences and Engineering, Inc.      |
| FTMC   | Fort McClellan                                    |
| GPS    | global positioning system                         |
| IDW    | investigation-derived waste                       |
| IT     | IT Corporation                                    |
| NGVD   | National Geodetic Vertical Datum                  |
| PID    | photoionization detector                          |
| PSSC   | potential site-specific chemical                  |
| PVC    | polyvinyl chloride                                |
| QA/QC  | quality assurance/quality control                 |
| QAP    | installation-wide quality assurance plan          |
| SAP    | installation-wide sampling and analysis plan      |
| SFSP   | site-specific field sampling plan                 |
| SHP    | installation-wide safety and health plan          |
| SSHP   | site-specific safety and health plan              |
| SI     | site investigation                                |
| USACE  | U.S. Army Corps of Engineers                      |
| USDA   | U.S. Department of Agriculture                    |
| Weston | Roy F. Weston, Inc.                               |
| WP     | installation-wide work plan                       |

## ***Executive Summary***

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In accordance with Contract No. DACA21-96-D-0018, Delivery Order CK005, IT Corporation (IT) will conduct site investigation activities at the Washrack, Building 351, Parcel 170(7) at Fort McClellan (FTMC), Calhoun County, Alabama, to determine the presence or absence of potential site-specific chemicals at this site. The purpose of this site-specific field sampling plan (SFSP) is to provide technical guidance for sampling activities at the Washrack, Building 351, Parcel 170(7) site.

The Washrack, Building 351, Parcel 170(7) is located in the north-central area of the Main Post, in the southern corner of the Consolidated Maintenance Facility. The Washrack, Building 351 is a steam-generated washrack used to remove oil and grease from vehicles and was built around 1991. The washrack has a settling basin attached to a coalescing plate oil/water separator that discharges to the sanitary sewer (Environmental Science and Engineering [ESE], 1998).

Building 352 is located southeast and adjacent to the Washrack, Building 351. This building is a temperature-controlled storage area for paints and oils (ESE, 1998). The containers stored in this building are well marked. This building has a drain to the adjacent facility oil/water separator. There have not been any documented releases at this building.

The other buildings and facilities located within the Consolidated Maintenance Facility are being investigated under a separate SI for the Former Fire Training Pit, Parcel 77(7). Sample data obtained from the SI for Parcel 77(7) will be reviewed when the sample data is evaluated for Washrack, Building 351.

Specifically, IT will collect four surface soil samples, four subsurface soil samples, and three groundwater samples at this site. Potential contaminant sources at the Washrack, Building 351, Parcel 170(7) site include petroleum products (e.g., gasoline, diesel, lubricants), paint, solvents, and metals. Chemical analyses of the samples collected during the field program will include volatile organic compounds, semivolatile organic compounds, and metals. Results from these analyses will be compared with site-specific screening levels specified in the installation-wide work plan (WP) and regulatory agency guidelines.

Also, three surface water and sediment samples collected from Parcel 75 and Parcel 77 will be evaluated with the samples proposed at this site.

This SFSP attachment to the installation-wide sampling and analysis plan (SAP) for the Washrack, Building 351, Parcel 170(7) will be used in conjunction with the site-specific safety and health plan (SSHP), the WP, and the installation-wide sampling and analysis plan (SAP). The SAP includes the installation-wide safety and health plan, waste management plan, and quality assurance plan. Site-specific hazard analyses are included in the SSHP.

## **1.0 Project Description**

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### **1.1 Introduction**

The U.S. Army is conducting studies of the environmental impact of suspected contaminants at Fort McClellan (FTMC) in Calhoun County, Alabama, under the management of the U.S. Army Corps of Engineers (USACE)-Mobile District. The USACE has contracted IT Corporation (IT) to provide environmental services for the site investigation (SI) of the Washrack, Building 351, Parcel 170(7), under Delivery Order CK005, Contract No. DACA21-96-D-0018.

This site-specific field sampling plan (SFSP) attachment to the installation-wide sampling and analysis plan (SAP) (IT, 1998a) for FTMC has been prepared to provide technical guidance for sample collection and analysis at the Washrack, Building 351, Parcel 170(7). This SFSP will be used in conjunction with the site-specific safety and health plan (SSHP) developed for the Washrack, Building 351, Parcel 170(7), and the installation-wide work plan (WP) (IT, 1998b) and SAP. The SAP includes the installation-wide safety and health plan (SHP), waste management plan, and quality assurance plan (QAP). Site-specific hazard analyses are included in the SSHP.

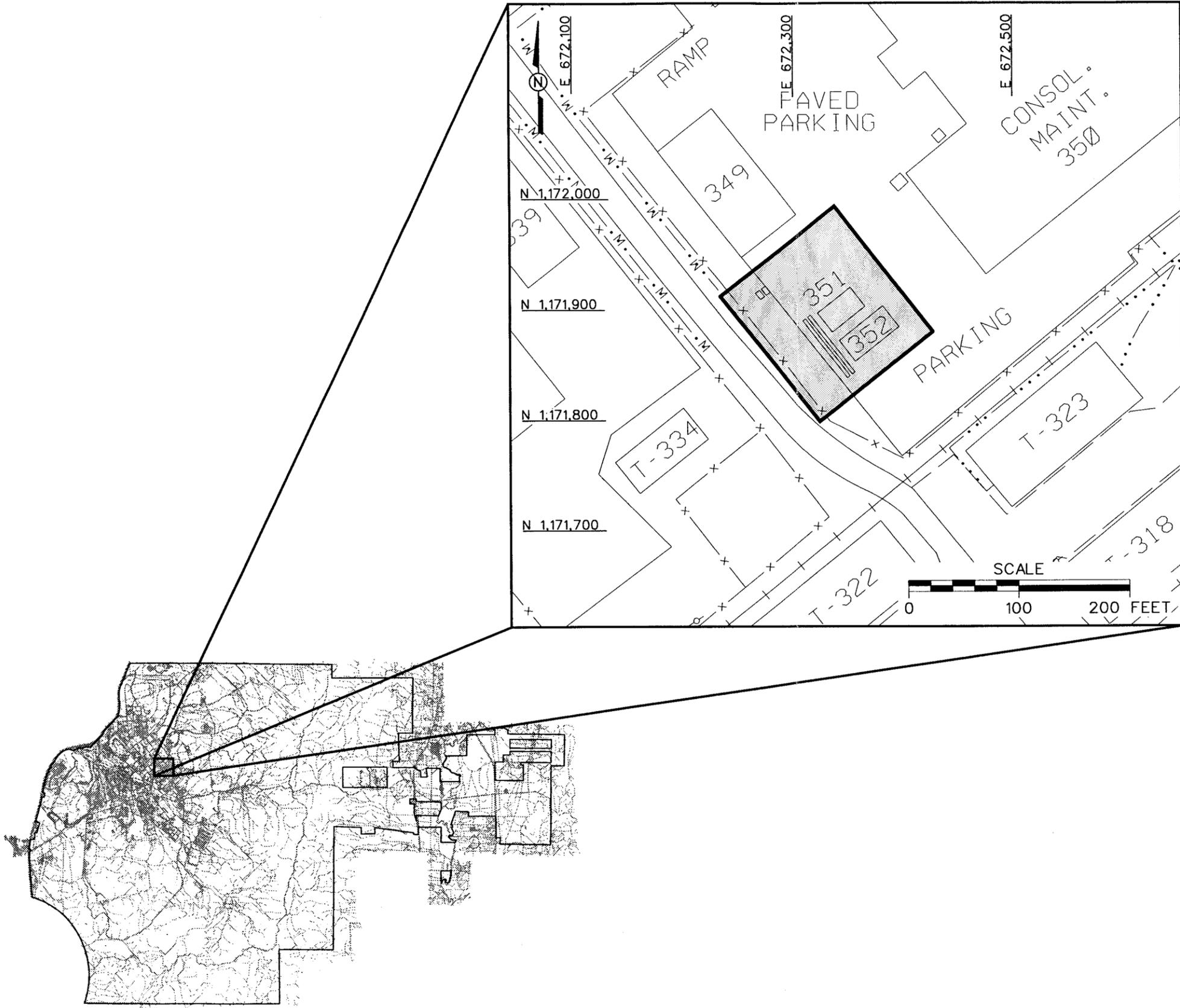
### **1.2 Site Description**

The Washrack, Building 351, Parcel 170(7) is located in the north-central area of the Main Post (Figure 1-1), in the southern corner of the Consolidated Maintenance Facility (Figure 1-2). The Washrack, Building 351 is a steam-generated washrack used to remove oil and grease from vehicles and was built around 1991. The washrack has a settling basin attached to a coalescing plate oil/water separator that discharges to the sanitary sewer (Environmental Science and Engineering [ESE], 1998).

Building 352 is located southeast and adjacent to the Washrack, Building 351. This building is a temperature-controlled storage area for paints and oils (ESE, 1998). The containers stored in this building are well marked. This building has a drain to the adjacent facility oil/water separator. There have not been any documented releases at this building.

The other buildings and facilities located within the Consolidated Maintenance Facility are being investigated under a separate SI for the Former Fire Training Pit, Parcel 77(7). Sample data obtained from the SI for Parcel 77(7) will be reviewed when the sample data is evaluated for Washrack, Building 351.

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 PROJ. MGR.: J. YACOUB  
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- LEGEND**
- UNIMPROVED ROADS AND PARKING
  - PAVED ROADS AND PARKING
  - BUILDING
  - TREES / TREELINE
  - PARCEL BOUNDARY
  - SURFACE DRAINAGE / CREEK
  - MANMADE SURFACE DRAINAGE FEATURE
  - FENCE
  - RAILROAD
  - UTILITY POLE

**FIGURE 1-1**  
**SITE LOCATION MAP**  
**WASHRACK AT BUILDING 351**  
**PARCEL 170(7)**

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



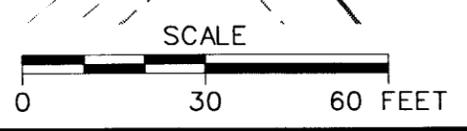
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- LEGEND**
- UNIMPROVED ROADS AND PARKING
  - PAVED ROADS AND PARKING
  - BUILDING
  - TOPOGRAPHIC CONTOURS
  - PARCEL BOUNDARY
  - MANMADE SURFACE DRAINAGE FEATURE
  - FENCE
  - RAILROAD
  - UTILITY POLE
  - SANITARY SEWER LINE

**FIGURE 1-2**  
**SITE MAP**  
**WASHRACK AT BUILDING 351**  
**PARCEL 170(7)**

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



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The elevation at the site is approximately 780 feet (National Geodetic Vertical Datum [NGVD] of 1929). Local shallow groundwater direction at the site is to the northwest.

The soils on the site are composed of the Rarden series soils (U.S. Department of Agriculture [USDA], 1961). This series consists of moderately well-drained, strongly acid to very strongly acid soils. These soils generally occur in large areas on wide shale ridges having slopes of 2 to 10 percent. These soils have developed from the residuum of shale and fine-grained, platy sandstone or limestone. In eroded areas, the surface soil is brown silt loam. The subsoil is yellowish-red clay or silty clay mottled with strong brown color. Concretions and fragments of sandstone, up to one-half-inch diameter, are common on the surface and in the soil; however, the surface of some areas have sandstone gravel 3 inches in diameter.

Soils at this site fall into the Rarden silty clay loams (ReB3) (USDA, 1961). This mapping unit consists of severely eroded soils that have 2 to 6 percent slopes and a thin solum. The color of these surface soils (2- to 4-inch layer) is yellowish-red or dark-brown silty clay loam. The depth to bedrock at the site is approximately 10 to 15 feet below ground surface (bgs). The depth to the water table at the site is 6 to 10 feet bgs.

### **1.3 Scope of Work**

The scope of work for activities associated with the site investigation at the Washrack, Building 351, Parcel 170(7) site, as specified by the statement of work (USACE, 1999), includes the following tasks:

- Develop the SFSP attachment.
- Develop the SSHP attachment.
- Collect four surface soil samples, four subsurface soil samples, and three groundwater samples to determine whether potential site-specific chemicals (PSSC) are present at the Washrack, Building 351, Parcel 170(7) site and to provide data useful for supporting any future planned corrective measures and closure activities. Also, surface water samples and sediment samples collected from Parcel 75 and Parcel 77 will be evaluated for this site.
- Samples will be analyzed for the parameters listed in Section 4.5.

At completion of the field activities and sample analyses, draft and final SI summary reports will be prepared to evaluate the absence or presence of PSSCs at this site, and to recommend further actions, if appropriate.

## ***2.0 Summary of Existing Environmental Studies***

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An environmental baseline survey (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 U.S. Department of Defense (DOD) guidance for fast track cleanup at closing installations. The EBS also provides a baseline picture of FTMC properties by identifying and categorizing the properties by seven criteria.

1. Areas where no storage, release, or disposal (including migration) has occurred.
2. Areas where only storage has occurred.
3. Areas of contamination below action levels.
4. Areas where all necessary remedial actions have been taken.
5. Areas of known contamination with removal and/or remedial action underway.
6. Areas of known contamination where required response actions have not been taken.
7. Areas that are not evaluated or require further evaluation.

The EBS was conducted in accordance with the Community Environmental Response Facilitation Act (CERFA) (CERFA-Public Law 102-426) protocols and DOD policy regarding contamination assessment. Record searches and reviews were performed on all reasonably available documents from FTMC, Alabama Department of Environmental Management (ADEM), 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 Washrack, Building 351, Parcel 170(7) was identified as a Category 7 CERFA site. This CERFA site is a parcel where PSSCs were stored, and possibly released onto the site or to the environment, and/or were disposed of on site property. There have not been any investigations

recorded at the Washrack, Building 351, Parcel 170(7). The Washrack, Building 351, Parcel 170(7) lacks adequate documentation and, therefore, requires additional evaluation to determine the environmental condition of the parcel.

The other buildings and facilities located within the Consolidated Maintenance Facility are being investigated under a separate SI for the Former Fire Training Pit, Parcel 77(7). Sample data obtained from the SI for Parcel 77(7) will be reviewed when the sample data is evaluated for the Washrack, Building 351.

## **3.0 Site-Specific Data Quality Objectives**

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### **3.1 Overview**

The data quality objective (DQO) process is followed to establish data requirements. This process ensures that the proper quantity and quality of data are generated to support the decision-making process associated with the action selection for the Washrack, Building 351, Parcel 170(7). This section incorporates the components of the DQO process described in the publication EPA 540-R-93-071 *Data Quality Objectives Process for Superfund* (EPA, 1993). The DQO process as applied to the Washrack, Building 351, Parcel 170(7) site is described in more detail in Section 4.3 of the WP. Table 3-1 provides a summary of the factors used to determine the appropriate quantity of samples, and the procedures necessary to meet the objectives of the SI and establish a basis for future action at this site.

The samples will be analyzed using EPA SW-846 methods, including Update III Methods where applicable, as presented in Chapter 4.0 in this SSFP and Table 6-1 in the QAP. Data will be reported and evaluated in accordance with Corps of Engineers South Atlantic Savannah (CESAS) Level B criteria (USACE, 1994) and the stipulated requirements for the generation of definitive data (Section 3.1.2 of the QAP). Chemical data will be reported via hard copy data packages by the laboratory using Contract Laboratory Program (CLP)-like forms. These packages will be validated in accordance with EPA National Functional Guidelines by Level III criteria.

### **3.2 Data Users and Available Data**

The available data, presented in Table 3-1, related to the SI at the Washrack, Building 351, Parcel 170(7) site have been used to formulate a site-specific conceptual model. This conceptual model was developed to support the development of this SFSP, which is necessary to meet the objectives of these activities and to establish a basis for future action at the site. The data users for the data and information generated during field activities are primarily the EPA, USACE, ADEM, and FTMC, and the USACE supporting contractors. This SFSP, along with the necessary companion documents, has been designed to provide the regulatory agencies with sufficient detail to reach a determination as to the adequacy of the scope of work. The program has also been designed to provide the level of defensible data and information required to confirm or rule out the existence of residual chemical contamination in site media.

Table 3-1

**Summary of Data Quality Objectives  
Site Investigation  
Washrack, Building 351, Parcel 170(7)  
Fort McClellan, Calhoun County, Alabama**

| Potential Data Users   | Available Data   | Conceptual Site Model  | Media of Concern        | Data Uses and Objectives   | Data Types  | Analytical Level   | Data Quantity  |                                 |
|--|--|--|-------------------------|--|---|--|--|---------------------------------|
| EPA, ADEM<br>USACE, DOD<br>FTMC, IT Corporation<br>Other contractors, and<br>possible future land<br>users | None   | <u>Contaminant Source</u><br>Washrack, Building 351<br><br><u>Migration Pathways</u><br>Infiltration to subsurface soil,<br>infiltration and leaching to<br>groundwater, dust emissions and<br>volatilization to ambient air, and<br>surface water runoff and erosion to<br>surface water and sediment<br><br><u>Potential Receptors</u><br>Groundskeepers (current and future)<br>construction workers (future),<br>and residents (future)<br><br><u>PSSC</u><br>Petroleum products (e.g., gasoline,<br>diesel, lubricants), paint, solvents,<br>and metals | <u>Surface soil</u>     | SI to confirm the presence or<br>absence of contamination in<br>the site media | <u>Surface soil</u><br>TCL VOCs, TCL SVOCs, TAL Metals,         | Definitive data in<br>CESAS Level B<br>data packages       | 4 direct-push soil samples + QC                      |                                 |
|  |  |  | <u>Subsurface Soil</u>  |  |   |  |  |                                 |
|  |  |  | <u>Groundwater</u>      | Definitive quality data for<br>future decision-making                          | <u>Surface Water</u>  | <u>Subsurface Soil</u><br>TCL VOCs, TCL SVOCs, TAL Metals, | Definitive data in<br>CESAS Level B<br>data packages | 4 direct-push soil samples + QC |
|  |  |  | <u>Sediment</u>         |  |   |  |  |                                 |
|  |  |  |                         |  | <u>Groundwater</u><br>TCL VOCs, TCL SVOCs, TAL Metals,          | Definitive data in<br>CESAS Level B<br>data packages       | 3 groundwater samples + QC                           |                                 |
|  |  |  |                         |  | <u>Surface water</u><br>(Collected for Parcel 77 and Parcel 75) |  |  |                                 |
|  | <u>Sediment</u><br>(Collected for Parcel 77 and Parcel 75) | Definitive data in<br>CESAS Level B<br>data packages   | 3 sediment samples + QC |  |   |  |  |                                 |

ADEM - Alabama Department of Environmental Management.  
CESAS - Corps of Engineers South Atlantic Savannah.  
DOD - U.S. Department of Defense.  
EPA - U.S. Environmental Protection Agency.  
FTMC - Fort McClellan.

PSSC - Potential site-specific chemical.  
QC - Quality control.  
SI - Site inspection.  
SVOC - Semivolatile organic compound.  
TAL - Target analyte list.

TCL - Target Compound list.  
TOC - Total organic carbon.  
USACE - U.S. Army Corps of Engineers.  
VOC - Volatile organic compound.

### **3.3 Conceptual Site Exposure Model**

The conceptual site exposure model (CSEM) provides the basis for identifying and evaluating potential risks to human health in the risk assessment. The CSEM includes all receptors and potential exposure pathways appropriate to all plausible scenarios. The CSEM facilitates consistent and comprehensive evaluation of risk to human health through graphically presenting all possible exposure pathways, including all sources, release and transport pathways, and exposure routes. In addition, the CSEM helps to ensure that potential pathways are not overlooked. The elements of a complete exposure pathway and CSEM are:

- Source (i.e., contaminated environmental) media
- Contaminant release mechanisms
- Contaminant transport pathways
- Receptors
- Exposure pathways.

Contaminant release mechanisms and transport pathways are not relevant for direct receptor contact scenarios with a contaminated source medium.

Primary contaminant releases were probably limited to leaks and spills that entered surface soil. Significant potential contaminant transport pathways include infiltration to subsurface soil, infiltration and leaching to groundwater, dust emissions and volatilization to ambient air and surface water runoff and erosion to surface water and sediment.

Future land use in this area will probably be industrial (FTMC, 1997). Plausible human health receptor scenarios addressed in the CSEM include:

- The resident scenario, although unlikely, is considered for future purposes only, because there are currently no residents present at the site and likely future use is indicated to be industrial.
- The groundskeeper scenario is considered for both current future purposes, as the area is currently maintained, and will probably be maintained in the future.
- The construction worker scenario is considered for future purposes only, because the site is currently not under construction, but could undergo construction in preparing for, or during, future use(s) under the anticipated industrial site usage.

Human health receptor scenarios excluded from the CSEM include:

- The recreational site-user scenario is excluded because the area is currently an industrial area that is not used for recreational purposes, and is expected to continue as such into the foreseeable future.
- The venison and fish consumption scenarios are excluded because this area is not large enough to support substantive hunting activities and the seasonal tributary would not support fishing activities.

A summary of relevant contaminant release and transport mechanisms, source and exposure media, and receptors and exposure pathways for this site is provided in Table 3-1 and Figure 3-1.

### **3.4 Decision-Making Process, Data Uses, and Needs**

The decision-making process consists of a seven-step process that is presented in detail in Section 4.3 of the WP and will be followed during the SI at the Washrack, Building 351, Parcel 170(7) site. Data uses and needs are summarized in Table 3-1.

#### **3.4.1 Risk Evaluation**

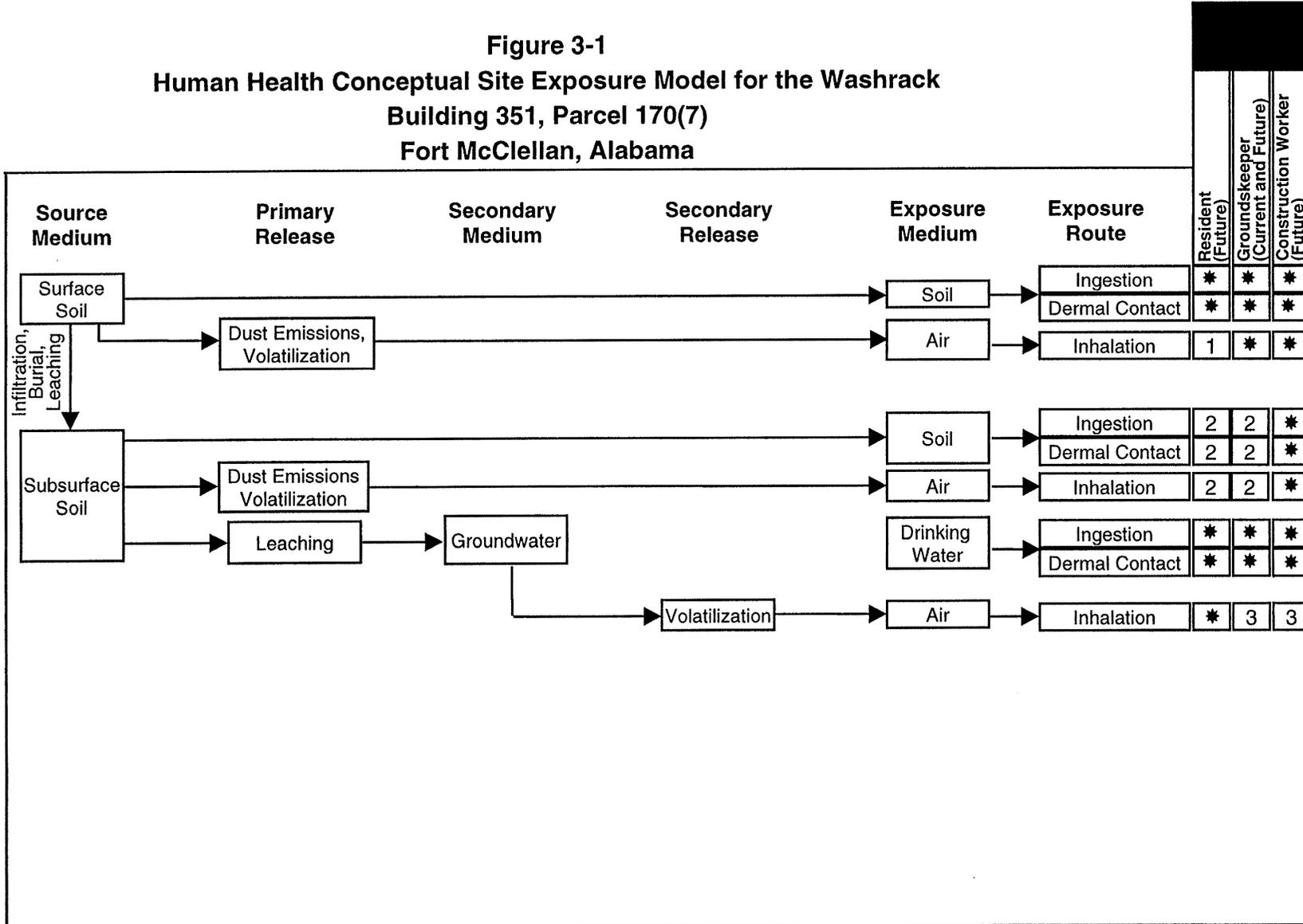
Confirmation of contamination at the Washrack, Building 351, Parcel 170(7) will be based on comparing detected site chemicals of potential concern (COPC) to site-specific screening levels developed in the WP. EPA definitive data with CESAS Level B data packages will be used to achieve detection limits sufficient to determine whether or not the established guidance criteria are exceeded in site media. Definitive data will be adequate for confirming the presence of site contamination and for supporting a feasibility study and risk assessment. Human risk assessment will be performed in accordance with the streamlined risk assessment presented in Section 5.0 of the WP, which includes screening values.

Assessment of potential ecological risk associated with sites or parcels (e.g., surface water and sediment sampling, specific ecological assessment methods, etc.) will be addressed in accordance with the procedures outlined in the WP.

#### **3.4.2 Data Types and Quality**

Surface and subsurface soil, and groundwater will be sampled and analyzed to meet the objectives of the SI at the Washrack, Building 351, Parcel 170(7). Quality assurance/ quality control (QA/QC) samples will be collected for all sample types as described in Chapter 4.0 of this SFSP. Samples will be analyzed by EPA-approved SW-846 methods Update III, where available; comply with EPA definitive data requirements; and be reported using hard copy data

**Figure 3-1  
Human Health Conceptual Site Exposure Model for the Washrack  
Building 351, Parcel 170(7)  
Fort McClellan, Alabama**



\* = Complete exposure pathway quantified in SSSL development.

1 = Volatilization from undisturbed surface soil deemed insignificant; soil is likely to be paved or vegetated, reducing dust emissions to insignificant levels; inhalation pathway not quantified.

2 = Incomplete exposure pathway.

3 = Although theoretically complete, this pathway is judged to be insignificant.

packages. In addition to meeting the quality needs of this SI, data analyzed at this level of quality are appropriate for all phases of site characterization, remedial investigation, and risk assessment.

### **3.4.3 Precision, Accuracy, and Completeness**

Laboratory requirements of precision, accuracy, and completeness for this SI are provided in Chapter 9.0 of the QAP.

## **4.0 Field Activities**

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### **4.1 Utility Clearances**

Prior to performing any intrusive sampling, a utility clearance will be performed at all locations where soil and groundwater samples will be collected, using the procedure outlined in Section 4.2.6 of the SAP. The site manager will mark the proposed locations with stakes, coordinate with the installation to clear the proposed locations for utilities, and obtain digging permits. Once the locations are cleared, the stakes will be labeled as cleared.

### **4.2 Environmental Sampling**

The environmental sampling program at the Washrack, Building 351, Parcel 170(7) site includes the collection of surface soil, subsurface soil, and groundwater samples for chemical analyses. These samples will be collected and analyzed to provide data for characterizing the site to determine the environmental condition of the site and any further action to be conducted at the site.

#### **4.2.1 Surface Soil Sampling**

Surface soil samples will be collected from four soil locations at the Washrack, Building 351, Parcel 170(7) site.

##### **4.2.1.1 Sample Locations and Rationale**

The surface soil sampling rationale is listed in Table 4-1. Proposed sampling locations are shown in Figure 4-1. Surface soil sample designations and required QA/QC sample requirements are summarized in Table 4-2. The final soil boring sampling locations will be determined in the field by the on-site geologist based on actual field conditions.

##### **4.2.1.2 Sample Collection**

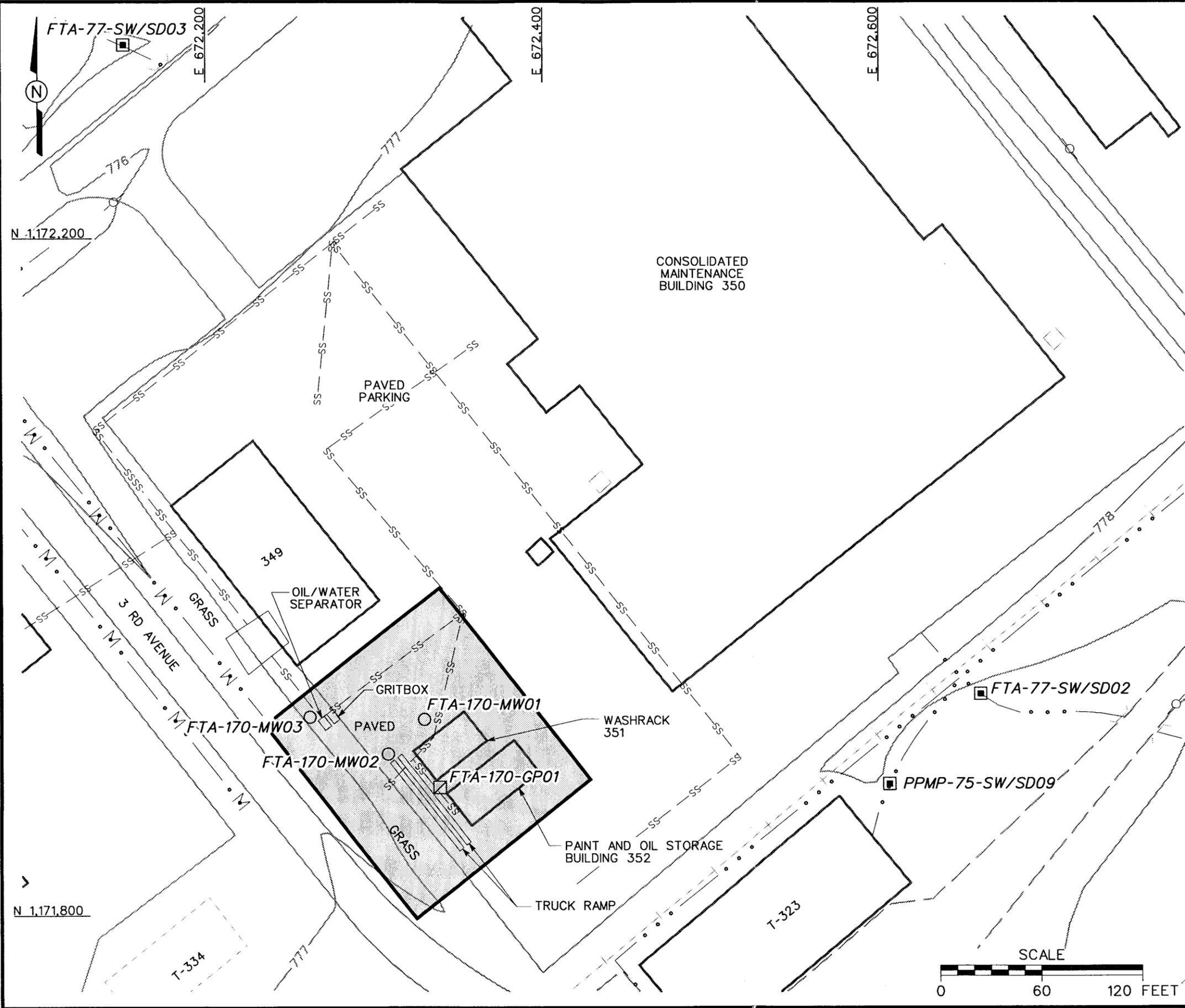
Surface soil samples will be collected from the upper 1 foot of soil by direct-push methodology as specified in Section 4.7.1.1 of the SAP. Collected soil samples will be screened using a photoionization detector (PID) in accordance with Section 4.15 of the SAP. Surface soil samples will be screened for information purposes only, and not to select samples for analysis. Sample containers, sample volumes, preservatives and holding times for the analyses required in this SFSP are listed in Section 5.0, Table 5-1, of the QAP. Sample documentation and chain-of-custody will be recorded as specified in Section 4.13 of the SAP. The samples will be analyzed for the parameters listed in Section 4.5 of this SFSP.

**Table 4-1**

**Sample Locations and Rationale  
Washrack, Building 351, Parcel 170(7)  
Fort McClellan, Calhoun County, Alabama**

| Sample Location  | Sample Media                                   | Sample Location Rationale  |
|------------------|--|--|
| FTA-170-MW01     | Surface soil, subsurface soil, and groundwater | Soil boring for surface soil, subsurface soil and groundwater samples to be placed north corner of the Washrack, Building 351. Sample data will indicate if contaminant releases into the environment have occurred from use of this washrack and if contaminated soil exists at this site. The monitoring well location will be used to establish a local groundwater flow direction and site-specific geology, and provide information on groundwater quality in the residuum aquifer.   |
| FTA-170-MW02     | Surface soil, subsurface soil, and groundwater | Soil boring for surface soil, subsurface soil, and groundwater samples to be placed at the north end of the steam cleaning ramp near the Washrack, Building 351. Sample data will indicate if contaminant releases into the environment have occurred from use of this steam-cleaning ramp and the washrack and if contaminated soil exists at this site. The monitoring well location will be used to establish a local groundwater flow direction and site-specific geology, and provide information on groundwater quality in the residuum aquifer. |
| FTA-170-MW03     | Surface soil, subsurface soil, and groundwater | Soil boring for surface soil, subsurface soil, and groundwater samples to be placed northwest of the oil/water separator near the Washrack, Building 351. Sample data will indicate if contaminant releases into the environment have occurred from use of this washrack and if contaminated soil exists at this site. The monitoring well location will be used to establish a local groundwater flow direction and site-specific geology, and provide information on groundwater quality in the residuum aquifer.                                    |
| FTA-170-GP01     | Surface soil and subsurface soil               | Soil boring for surface soil and subsurface soil to be placed at the northwest corner of Building 352 next to the sanitary sewer from the building. Sample data will indicate if contaminant releases into the environment have occurred from use of the building and if contaminated soil exists at this site.  |
| FTP-77-SW/SD02   | Surface water and sediment                     | Collected for Parcel 77.   |
| FTP-77-SW/SD03   | Surface water and sediment                     | Collected for Parcel 77.   |
| PPMP-75-SW/SD-09 | Surface water and sediment                     | Collected for Parcel 75.   |

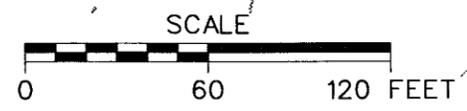
DWG. NO.: \774645es.282  
 PROJ. NO.: 774645  
 INITIATOR: J. RAGSDALE  
 PROJ. MGR.: J. YACOUB  
 DRAFT. CHK. BY:  
 ENGR. CHK. BY: J. RAGSDALE  
 STARTING DATE: 05/12/99  
 DATE LAST REV.:  
 DRAWN BY:  
 21 SEP 1999  
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- LEGEND**
- UNIMPROVED ROADS AND PARKING
  - PAVED ROADS AND PARKING
  - BUILDING
  - TOPOGRAPHIC CONTOURS
  - PARCEL BOUNDARY
  - MANMADE SURFACE DRAINAGE FEATURE
  - FENCE
  - RAILROAD
  - UTILITY POLE
  - SANITARY SEWER LINE
  - EXISTING SURFACE WATER/SEDIMENT SAMPLE LOCATION
  - PROPOSED RESIDUUM MONITORING WELL
  - PROPOSED SURFACE AND SUBSURFACE SOIL SAMPLE LOCATION

**FIGURE 4-1**  
**SAMPLE LOCATION MAP**  
**WASHRACK AT BUILDING 351**  
**PARCEL 170(7)**

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



**Table 4-2  
Surface Soil and Subsurface Soil Sample Designations and QA/QC Sample Quantities  
Washrack, Building 351, Parcel 170(7)  
Fort McClellan, Calhoun County, Alabama**

| Sample Location | Sample Designation         | Sample Depth (ft) | QA/QC Samples    |              |   | Analytical Suite                 |
|-----------------|----------------------------|-------------------|------------------|--------------|---|----------------------------------|
|                 |                            |                   | Field Duplicates | Field Splits | MS/MSD  |                                  |
| FTA-170-MW01    | FTA-170-MW01-SS-CE0001-REG | 0-1               |                  |              | FTA-170-MW01-SS-CE0001-MS<br>FTA-170-MW01-SS-CE0001-MSD | TCL VOCs, TCL SVOCs, TAL Metals, |
|                 | FTA-170-MW01-DS-CE0002-REG | a                 |                  |              |   |                                  |
| FTA-170-MW02    | FTA-170-MW02-SS-CE0003-REG | 0-1               |                  |              | FTA-170-MW02-DS-CE0005-FD<br>FTA-170-MW02-DS-CE0006-FS  | TCL VOCs, TCL SVOCs, TAL Metals, |
|                 | FTA-170-MW02-DS-CE0004-REG | a                 |                  |              |   |                                  |
| FTA-170-MW03    | FTA-170-MW03-SS-CE0007-REG | 0-1               |                  |              |   | TCL VOCs, TCL SVOCs, TAL Metals, |
|                 | FTA-170-MW03-DS-CE0008-REG | a                 |                  |              |   |                                  |
| FTA-170-GP01    | FTA-170-GP01-SS-CE0009-REG | 0-1               |                  |              |   | TCL VOCs, TCL SVOCs, TAL Metals, |
|                 | FTA-170-GP01-DS-CE0010-REG | a                 |                  |              |   |                                  |

<sup>a</sup> Actual sample depth selected for analysis will be at the discretion of the site geologist and will be based on field observation.

QA/QC - Quality assurance/quality control.  
VOC - Volatile organic compound.  
SVOC - Semivolatile organic compound.  
TAL - Target analyte list.  
TCL - Target compound list.  
REG - Field sample.  
FD - Field duplicate.  
FS - Field split.  
MS/MSD - Matrix spike/matrix spike duplicate.

## **4.2.2 Subsurface Soil Sampling**

Subsurface soil samples will be collected from the four soil borings installed at the Washrack, Building 351, Parcel 170(7).

### **4.2.2.1 Sample Locations and Rationale**

Subsurface soil samples will be collected from the soil borings proposed on Figure 4-1. The subsurface soil sampling rationale is listed in Table 4-1. Subsurface soil samples to be collected are listed in Table 4-2. The final soil boring sampling locations will be determined in the field by the on-site geologist, based on actual field observations and utility clearance results.

### **4.2.2.2 Sample Collection**

Subsurface soil samples will be collected from soil borings at a depth greater than 1 foot bgs in the unsaturated zone. The soil borings will be advanced and soil samples collected using the direct-push sampling procedures specified in Section 4.7.1.1 of the SAP (IT, 1998a).

Soil samples will be collected continuously for the first 12 feet or until either groundwater or refusal is reached. A detailed lithological log will be recorded by the on-site geologist for each borehole. At least one subsurface sample from each borehole will be selected for analyses. The collected subsurface soil samples will be field-screened using a PID in accordance with Section 4.15 of the SAP to measure samples exhibiting elevated readings exceeding background (readings in ambient air). Typically, the subsurface soil sample showing the highest reading (above background) will be selected and sent to the laboratory for analysis. If none of the samples indicate readings exceeding background using the PID, the deepest interval from the soil boring will be sampled and submitted to the laboratory for analyses. Subsurface soil samples will be selected for analyses from any depth interval if the on-site geologist suspects PSSCs at the interval. Site conditions such as lithology may also determine the actual sample depth interval submitted for analyses. More than one subsurface soil sample will be collected if field measurements and observations indicate a possible layer of PSSCs and/or additional sample data would provide insight to the existence of any PSSCs.

Sample documentation and chain of custody will be recorded as specified in Section 4.13 of the SAP. Sample containers, sample volumes, preservatives, and holding times for the analyses required in this SFSP are listed in Section 5.0, Table 5-1 of the QAP. The samples will be analyzed for the parameters listed in Section 4.5 of this SFSP.

### **4.2.3 Permanent Residuum Monitoring Wells**

Three permanent residuum monitoring wells will be installed at the Washrack, Building 351, Parcel 170(7) site. The permanent residuum monitoring well locations are shown on Figure 4-1. The rationale for the monitoring well locations are presented in Table 4-1. The monitoring well boreholes will be drilled to the top of bedrock using a truck-mounted hollow-stem auger drill rig. Depth to bedrock is approximately 10 to 20 feet bgs at the site. The monitoring well casing will consist of new 2-inch inside-diameter, Schedule 40, threaded, flush-joint, polyvinyl chloride (PVC) pipe. Attached to the bottom of the well casing will be a section of new threaded, flush-joint, 0.010-inch continuous wrap PVC well screen, approximately 10 feet long.

Soil samples for analysis will be collected as described in Section 4.2.2.2. The samples will be collected for lithology using a 24-inch-long, 2-inch-or-larger-diameter, split-spoon sampler. All soil borings will be logged in accordance with American Standard for Testing and Materials Method D 2488 using the Unified Soil Classification System. All soil samples will be screened in the field using a PID. The permanent residuum monitoring wells will be drilled and installed as specified in Section 4.8 and Appendix C of the SAP. The exact monitoring well locations will be determined in the field by the on-site geologist, based on actual field conditions.

### **4.2.4 Groundwater Sampling**

Three groundwater samples will be collected from the three permanent residuum monitoring wells completed at the Washrack, Building 351, Parcel 170(7) site as presented in Section 4.2.3.

#### **4.2.4.1 Sample Locations and Rationale**

Groundwater samples will be collected from the permanent residuum monitoring well locations shown on Figure 4-1. The groundwater sampling rationale is listed in Table 4-1. The groundwater sample designations, depths, and required QA/QC sample quantities are listed in Table 4-3.

#### **4.2.4.2 Sample Collection**

Prior to sampling monitoring wells, static water levels will be measured from each of the three monitoring wells installed at the site to define the groundwater flow in the residuum aquifer. Water level measurements will be performed as outlined in Section 4.18 of the SAP (IT, 1998a). Groundwater samples will be collected in accordance with the procedures outlined in Section 4.9.1.4 of the SAP.

Table 4-3

**Groundwater Sample Designations and QA/QC Sample Quantities  
Washrack, Building 351, Parcel 170(7)  
Fort McClellan, Calhoun County, Alabama**

| Sample Location | Sample Designation         | Sample Matrix | Sample Depth (ft) | QA/QC Samples             |                           |   | Analytical Suite                |
|-----------------|----------------------------|---------------|-------------------|---------------------------|---------------------------|---|---------------------------------|
|                 |                            |               |                   | Field Duplicates          | Field Splits              | MS/MSD  |                                 |
| FTA-170-MW01    | FTA-170-MW01-GW-CE3001-REG | Groundwater   | a                 | FTA-170-MW01-GW-CE3002-FD | FTA-170-MW01-GW-CE3003-FS |   | TCL VOCs, TCL SVOCs, TAL Metals |
| FTA-170-MW02    | FTA-170-MW02-GW-CE3004-REG | Groundwater   | a                 |                           |                           | FTA-170-MW02-GW-CE3004-MS<br>FTA-170-MW02-GW-CE3004-MSD | TCL VOCs, TCL SVOCs, TAL Metals |
| FTA-170-MW03    | FTA-170-MW03-GW-CE3005-REG | Groundwater   | a                 |                           |                           |   | TCL VOCs, TCL SVOCs, TAL Metals |

<sup>a</sup>Sample depth will depend on where sufficient first water is encountered to collect a water sample.

- QA/QC - Quality assurance/quality control.
- VOC - Volatile organic compound.
- SVOC - Semivolatile organic compound.
- TAL - Target analyte list.
- TCL - Target compound list.
- REG - Field sample.
- FD - Field duplicate.
- FS - Field split.
- MS/MSD - Matrix spike/matrix spike duplicate.

Sample documentation and chain of custody will be recorded as specified in Section 4.13 of the SAP. Sample containers, sample volumes, preservatives, and holding times for the analyses required in this SFSP are listed in Section 5.0, Table 5-1 of the QAP (IT, 1998a). The samples will be analyzed for the parameters listed in Section 4.5 of this SFSP.

### **4.3 Decontamination Requirements**

Decontamination will be performed on sampling and nonsampling equipment to prevent cross-contamination between sampling locations. Decontamination of sampling equipment will be performed in accordance with the requirements presented in Section 4.10.1.1 of the SAP.

Decontamination of nonsampling equipment will be performed in accordance with the requirements presented in Section 4.10.1.2 of the SAP.

### **4.4 Surveying of Sample Locations**

Sampling locations will be marked with pin flags, stakes, and/or flagging and will be surveyed using either global positioning system (GPS) or conventional civil survey techniques, as necessary to obtain the required level of accuracy. Horizontal coordinates will be referenced to the U.S. State Plane Coordinate System, Alabama East Zone, North American Datum (NAD83), 1983. Elevations will be referenced to the NGVD of 1929 or the North American Vertical Datum of 1988 (soon to be established on site).

Horizontal coordinates for soil sample locations will be recorded using a GPS to provide accuracy within 1 meter. Because of the need to use permanent residuum monitoring wells to determine water levels, a higher level of accuracy is required. Monitoring wells will be surveyed to an accuracy of 0.1 foot for horizontal coordinates and 0.01 foot for elevations, using survey-grade GPS techniques and/or conventional civil survey techniques, as required. Procedures to be used for GPS surveying are described in Section 4.3 of the SAP. Conventional land survey requirements are presented in Section 4.19 of the SAP.

### **4.5 Analytical Program**

Samples collected at locations specified in this chapter of this SFSP will be analyzed for the specific suites of chemicals and elements based the history of site usage, as well as EPA, ADEM, FTMC, and USACE requirements. Target analyses for samples collected from the Washrack, Building 351, Parcel 170(7) site consist of the following list of analytical suites:

- Target Compound List Volatile Organic Compounds - Method 5035/8260B
- Target Compound List Semivolatile Organic Compounds - Method 8270C
- Target Analyte List Metals - Method 6010B/7000

The samples will be analyzed using EPA SW-846 methods, including Update III Methods where applicable, as presented in Table 4-4 in this SFSP and Table 6-1 in the QAP. Data will be reported and evaluated in accordance with CESAS Level B criteria (USACE, 1994) and the stipulated requirements for the generation of definitive data (Section 3.1.2 of the QAP). Chemical data will be reported via hard copy data packages by the laboratory using CLP-like forms. These packages will be validated in accordance with EPA National Functional Guidelines by Level III criteria.

#### **4.6 Sample Preservation, Packaging, and Shipping**

Sample preservation, packaging, and shipping will follow the procedures specified in Section 4.13.2 of the SAP (IT, 1998a). Completed analysis request/chain-of-custody records will be secured and included with each shipment of coolers to:

Sample Receiving  
Attn: John Reynolds  
Quanterra Environmental Services  
5815 Middlebrook Pike  
Knoxville, Tennessee 37921  
Telephone: (423) 588-6401.

QA split samples collected for the USACE laboratory will be shipped to the following address:

U.S. Army Engineer District, Savannah  
Environmental & Materials Unit  
Attn: Sample Receiving  
200 North Cobb Parkway  
Building 400, Suite 404  
Marietta, Georgia 30062  
Telephone: (678) 354-0310.

#### **4.7 Investigation-Derived Waste Management**

Management and disposal of the investigation-derived wastes (IDW) will follow procedures and requirements as described in Appendix D of the SAP. The IDW expected to be generated at the Washrack, Building 351, Parcel 170(7) site will include decontamination fluids and disposable

Table 4-4

**Analytical Samples  
Site Investigation  
Washrack, Building 351, Parcel 170(7)  
Fort McClellan, Calhoun County, Alabama**

| Parameters   | Analysis Method | Sample Matrix | TAT Needed | Field Samples        |               |                      | QA/QC Samples <sup>a</sup> |                       |             |                     |                         | Quanterra          | QA Lab             |
|--|-----------------|---------------|------------|----------------------|---------------|----------------------|----------------------------|-----------------------|-------------|---------------------|-------------------------|--------------------|--------------------|
|  |                 |               |            | No. of Sample Points | No. of Events | No. of Field Samples | Field Dups (10%)           | Splits w/ QA Lab (5%) | MS/MSD (5%) | Trip Blank (1/ship) | Eq. Rinse (1/wk/matrix) | Total No. Analysis | Total No. Analysis |
| <b>Washrack, Building 351: 3 water matrix samples (3 groundwater samples); 8 soil matrix samples (4 surface soil samples, 4 subsurface soil samples)</b> |                 |               |            |                      |               |                      |                            |                       |             |                     |                         |                    |                    |
| TCL VOCs   | 8260B           | water         | normal     | 3                    | 1             | 3                    | 1                          | 1                     | 1           | 1                   | 1                       | 8                  | 1                  |
| TCL SVOCs  | 8270C           | water         | normal     | 3                    | 1             | 3                    | 1                          | 1                     | 1           |                     | 1                       | 7                  | 1                  |
| Tot TAL Metals   | 6010B/7000      | water         | normal     | 3                    | 1             | 3                    | 1                          | 1                     | 1           |                     | 1                       | 7                  | 1                  |
| TCL VOCs   | 8260B           | soil          | normal     | 8                    | 1             | 8                    | 1                          | 1                     | 1           |                     | 1                       | 12                 | 1                  |
| TCL SVOCs  | 8270C           | soil          | normal     | 8                    | 1             | 8                    | 1                          | 1                     | 1           |                     | 1                       | 12                 | 1                  |
| TAL Metals   | 6010B/7000      | soil          | normal     | 8                    | 1             | 8                    | 1                          | 1                     | 1           |                     | 1                       | 12                 | 1                  |
| <b>Washrack, Building 351 Subtotal:</b>  |                 |               |            | 33                   |               |                      | 6                          | 6                     | 6           | 1                   | 6                       | 58                 | 6                  |

<sup>a</sup>Field duplicate, QA split, and MS/MSD samples were calculated as a percentage of the field samples collected per site and were rounded to the nearest whole number. Trip blank samples will be collected in association with water matrix samples for VOC analysis only. Assumed four field samples per day to estimate trip blanks. Equipment blanks will be collected once per event whenever sampling equipment is field decontaminated and re-used. They will be repeated weekly for sampling events that are anticipated to last more than 1 week. Assumed 20 field samples will be collected per week to estimate number of equipment blanks.

Ship samples to:

Quanterra Environmental Services  
5815 Middlebrook Pike  
Knoxville, Tennessee 37921  
Attn: John Reynolds  
Tel: 423-588-6401  
Fax: 423-584-4315

USACE Laboratory split samples  
are shipped to:

U.S. Army Engineer District, Savannah  
Environmental & Materials District  
Attn: Sample Receiving  
200 North Cobb Parkway  
Building 400, Suite 404  
Marietta, Georgia 30062  
Tel: 678-354-0310

QA/QC - Quality assurance/quality control.  
MS/MSD - Matrix spike/matrix spike duplicate.  
VOC - Volatile organic compound.  
SVOC - Semivolatile organic compound.  
TAL - Target analyte list.  
TCL - Target compound list.

personal protective equipment. The IDW will be staged in the fenced area surrounding Buildings 335 and 336 while awaiting final disposal.

#### **4.8 Site-Specific Safety and Health**

Health and safety requirements for this SI are provided in the SSHP attachment for the Washrack, Building 351, Parcel 170(7) site. The SSHP attachment will be used in conjunction with the installation-wide SHP.

## **5.0 Project Schedule**

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The project schedule for the SI activities will be provided by the IT project manager to the Base Realignment and Closure Cleanup Team and will be in accordance with the WP.

## 6.0 References

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Environmental Science and Engineering, Inc. (ESE), 1998, *Final Environmental Baseline Survey, Fort McClellan, Alabama*, prepared for U.S. Army Environmental Center, Aberdeen Proving Ground, Maryland, January.

Fort McClellan (FTMC), 1997, *Fort McClellan Comprehensive Reuse Plan*, Fort McClellan Reuse and Redevelopment Authority of Alabama, prepared under contract to the Calhoun County Commission, November.

IT Corporation (IT), 1998a, *Final Installation-Wide Sampling and Analysis Plan, Fort McClellan, Calhoun County, Alabama*, August.

IT Corporation (IT), 1998b, *Final Installation-Wide Work Plan, Fort McClellan, Calhoun County, Alabama*, August.

U.S. Army Corps of Engineers (USACE), 1999, *Statement of Work for Task Order CK05, Modification No. 0005, Site Investigations at Fort McClellan, Alabama*, January.

U.S. Army Corps of Engineers (USACE), 1994, *Requirements for the Preparation of Sampling and Analysis Plan*, Engineer Manual EM 200-1-3, September 1.

U.S. Department of Agriculture (USDA), 1961, *Soil Survey, Calhoun County, Alabama*, Soil Conservation Service, Series 1958, No. 9, September 1961.

U.S. Environmental Protection Agency (EPA), 1993, *Data Quality Objectives Process for Superfund, Interim Final Guidance*, EPA 540-R-93-071, September.

Weston, Roy F., Inc. (Weston), 1990, *Final USATHAMA Task Order 11, Enhanced Preliminary Assessment, Fort McCellan, Anniston, Alabama*, prepared for U.S. Army Toxic and Hazardous Materials Agency, Aberdeen Proving Ground, Maryland, December.

## ***Site-Specific Safety and Health Plan***

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Ammunition Supply Point and Building 4416, Parcel 197(7) and Parcel 199(7)  
Washrack, Building 351, Parcel 170(7)