

Table 3-4

**Groundwater Elevations
Range 4A Fog Oil Storage Area, Parcel 123(6)
Fort McClellan, Calhoun County, Alabama**

| Well Location | Date | Depth to Water (ft BTOC) | Top of Casing Elevation (ft above msl) | Ground Elevation (ft above msl) | Groundwater Elevation (ft amsl) |
|----------------------|-------------|-------------------------------------|---|--|--|
| PR-123-MW01 | 7-Jan-02 | 69.77 | 628.26 | 628.51 | 558.49 |
| PR-123-MW02 | 7-Jan-02 | 69.48 | 628.01 | 628.25 | 558.53 |
| PR-123-MW03 | 7-Jan-02 | 63.25 | 627.35 | 627.54 | 564.10 |
| PR-123-MW04 | 7-Jan-02 | 62.72 | 624.73 | 625.10 | 562.01 |
| PR-123-MW05 | 7-Jan-02 | 69.24 | 630.06 | 630.29 | 560.82 |

Elevations referenced to the North American Vertical Datum of 1988.

BTOC - Below top of casing.

ft - Feet.

msl - Mean sea level.

Table 3-5

**Groundwater Sample Designations and QA/QC Samples
Range 4A Fog Oil Storage Area, Parcel 123(6)
Fort McClellan, Calhoun County, Alabama**

| Sample Location | Sample Designation | QA/QC Samples | | Analytical Suite |
|-----------------|---------------------------|--------------------------|------------------------------|---------------------------------|
| | | Field Duplicates | MS/MSD | |
| PR-123-MW01 | PR-123-MW01-GW-HH3001-REG | | PR-123-MW01-GW-HH3001-MS/MSD | TCL VOCs, TCL SVOCs, TAL Metals |
| PR-123-MW02 | PR-123-MW02-GW-HH3002-REG | | | TCL VOCs, TCL SVOCs, TAL Metals |
| PR-123-MW03 | PR-123-MW03-GW-HH3003-REG | PR-123-MW03-GW-HH3004-FD | | TCL VOCs, TCL SVOCs, TAL Metals |
| PR-123-MW04 | PR-123-MW04-GW-HH3005-REG | | | TCL VOCs, TCL SVOCs, TAL Metals |
| PR-123-MW05 | PR-123-MW05-GW-HH3006-REG | | | TCL VOCs, TCL SVOCs, TAL Metals |

FD - Field duplicate.

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.

Table 3-6

Groundwater Field Parameters
Range 4A Fog Oil Storage Area, Parcel 123(6)
Fort McClellan, Calhoun County, Alabama

| Sample Location | Sample Date | Specific Conductivity (mS/cm) | Dissolved Oxygen (mg/L) | ORP (mV) | Temperature (°C) | Turbidity (NTU) | pH (SU) |
|-----------------|-------------|-------------------------------|-------------------------|----------|------------------|-----------------|---------|
| PR-123-MW01 | 9-Jul-01 | 0.031 | 8.30 | 55 | 30.1 | >1000 | 5.66 |
| PR-123-MW02 | 1-Jul-01 | 0.030 | 3.61 | 198 | 24.4 | 117 | 5.27 |
| PR-123-MW03 | 10-Jul-01 | 0.026 | 6.14 | 272 | 23.0 | 258 | 4.87 |
| PR-123-MW04 | 1-Jul-01 | 0.022 | 7.48 | 264 | 29.8 | 8.4 | 4.96 |
| PR-123-MW05 | 2-Jul-01 | 0.022 | 5.95 | 207 | 34.4 | >1000 | 5.41 |

°C - Degrees Celsius.

mg/L - Milligrams per liter.

mS/cm - Millisiemens per centimeter.

mV - Millivolts.

NTU - Nephelometric turbidity units.

ORP - Oxidation-reduction potential.

SU - Standard units.

Table 3-7

Variations to the Site-Specific Field Sampling Plan
 Range 4A Fog Oil Storage Area, Parcel 123(6)
 Fort McClellan, Calhoun County, Alabama

| Variance to the SFSP | Justification for Variance | Impact to Remedial Investigation |
|--|--|---|
| <p>The Final Site-Specific Field Sampling Plan (SFSP) proposed using hollow-stem auger drilling techniques to install residuum monitoring wells PR-123-MW01, PR-123-MW02, PR-123-MW03, PR-123-MW04, and PR-123-MW05. These five wells were installed using air rotary drilling techniques.</p> | <p>The SFSP proposed drilling with hollow-stem auger drilling techniques at permanent monitoring well locations PR-123-MW01, PR-123-MW02, PR-123-MW03, PR-123-MW04, and PR-123-MW05. However, hollow-stem auger refusal was encountered prior to reaching groundwater. Attempts were made to install the five monitoring wells, but all attempts were unsuccessful. The decision was made by the IT Site Manager to install the residuum wells using air rotary drilling techniques.</p> | <p>Groundwater was encountered during air rotary drilling and the wells were successfully installed. This variance will not alter the intent of the Site Investigation for Range 4A Fog Oil Storage Area.</p> |
| <p>The SFSP proposed a surface soil sample, subsurface soil sample and groundwater sample to be collected at PR-123-MW05. The surface soil and groundwater samples were collected, but the subsurface soil was not collected.</p> | <p>The SFSP proposed a subsurface soil sample at sample location PR-123-MW05. The subsurface soil sample was not collected because direct-push refusal was encountered at one foot below ground surface. Three attempts were made to collect a subsurface soil sample, but direct-push refusal was encountered at each location. Therefore, the subsurface soil sample was not collected for chemical analysis.</p> | <p>No subsurface soil sample was collected at PR-123-MW05. This variance will not alter the intent of the Site Investigation for Range 4A Fog Oil Storage Area.</p> |