



August 31, 2006

Shaw-MC-CK10-1033
Project No. 796887

Mr. Lee Coker
U.S. Army Corps of Engineers, Mobile District
Attn: EN-GE/Lee Coker
109 St. Joseph Street
Mobile, Alabama 36602

Contract: DACA21-96-D-0018, Task Order CK10
Fort McClellan, Alabama

**Subject: Letter Work Plan for Monitoring Well Abandonment at the Stump Dump,
Parcel 82(7)**

Dear Mr. Coker:

Shaw Environmental, Inc. (Shaw) is planning to abandon 8 groundwater monitoring wells at the Stump Dump, Parcel 82(7), located within Fort McClellan (FTMC). The wells will be abandoned in accordance with Alabama Department of Environmental Management (ADEM) guidelines and the Installation-Wide Work Plan. Copies of this letter work plan are being provided to ADEM and U.S. Environmental Protection Agency (EPA) Region 4 for their records. Based on the site investigation (SI) previously conducted at this site, ADEM and EPA concurred with a No Further Action recommendation for this site with regard to Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)-related hazardous substances. Therefore, regulatory comments on this work plan are not required.

1.0 Site Description and Background

The Stump Dump is an approximately 10-acre fill area located in the central part of the FTMC Main Post. The Stump Dump was used as a disposal site between 1985 and 1988. The site is currently inactive. The site primarily received storm debris (e.g., tree limbs, branches, stumps, yard waste and flood-washed soil). Some unauthorized dumping of items such as construction debris (e.g., sheet rock and concrete), batteries, tires, paint cans, refrigerators, landscaping trash, and other materials also occurred (Environmental Science and Engineering, Inc., 1998). After its closure, the fill area surface was covered with soil and engineered with terraced decks. Several detention ponds were constructed around the fill area to control the rate of surface water runoff.

The SI at the Stump Dump included fill area definition activities, installation of soil borings in the fill material, a wetland study, landfill gas monitoring and environmental sampling. As part of the SI, eight groundwater monitoring wells were installed at the site. Shaw issued the SI report, *Draft, Site Investigation Report, Stump Dump, Parcel 82(7)*, in November, 2003. The report concluded that no additional investigations or remedial actions under CERCLA were required. The report concluded that certain non-CERCLA actions be conducted to promote reuse of the property and minimize safety concerns as well as decommissioning all existing monitoring wells. All regulatory agencies concurred with the SI report. As a safety precaution, Shaw installed twenty-seven concrete monuments designating the fill area boundaries in 2004.

Based on the results of the SI and previous investigation activities, the U.S Army implemented no further action at the Stump Dump with regard to CERCLA-related hazardous substances in 2006.

2.0 Field Activities

The eight monitoring wells to be abandoned at the Stump Dump are shown on Figure 1 and listed in Table 1. Monitoring well abandonment activities will follow the procedures in Appendix C of the Installation-Wide Sampling and Analysis Plan, *Standard Operating Procedure (SOP) for Monitoring Well Abandonment*. The SOP addresses the supplies and equipment to be used and establishes guidelines and procedures for field personnel to use in the supervision of groundwater monitoring well abandonment activities. The SOP follows the procedures and guidelines established by the ADEM, Ground Water Branch.

All work conducted during this field effort will be performed in accordance with the Installation-Wide Safety and Health Plan and the attached Site-Specific Safety and Health Plan. The presence of unexploded ordnance (UXO) is possible at the site. Therefore, Shaw will conduct UXO avoidance procedures as outlined in Appendix E of the Installation-Wide Sampling and Analysis Plan, Revision 3 (IT, 2002) and the attached form *Evaluating OE/UXO/CWM Hazards in Support of HTRW Activities* prior to conducting field activities.

At your request, I have distributed copies of this work plan as indicated below. If you have questions, or need further information, please contact me at (865) 694-7361.

Sincerely,


Stephen G. Moran, PG
Project Manager

Attachments

Distribution: Lisa Holstein, U.S. Army TF (6 copies, 2 CDs)
Brandi Little, ADEM (2 copies, 1 CD)
Doyle Brittain, EPA (1 copy, 1 CD)
Bill Garland, USFWS (1 copy)
Peter Tuttle, USFWS (2 copies)
Steve Miller, USFWS (2 copies)
Ricky Ingram, USFWS (2 copies)

Table 1

**Monitoring Well Construction Summary
Stump Dump, Parcel 82(7)
Fort McClellan, Calhoun County, Alabama**

| Well Location | Well Type | Northing | Easting | Ground Elevation (ft amsl) | TOC Elevation (ft amsl) | Well Depth (ft bgs) | Screen Length (ft) | Screen Interval (ft bgs) | Well Material |
|---------------|-----------|------------|-----------|----------------------------|-------------------------|---------------------|--------------------|--------------------------|-------------------|
| FTA-82-MW01 | Residuum | 1170705.27 | 677170.47 | 907.26 | 909.76 | 54.5 | 10 | 44.5 - 55 | 4" ID Sch. 80 PVC |
| FTA-82-MW02 | Residuum | 1170193.68 | 677552.22 | 932.10 | 934.59 | 67 | 10 | 51 - 61 | 4" ID Sch. 80 PVC |
| FTA-82-MW03 | Residuum | 1170575.25 | 678209.94 | 973.66 | 976.23 | 52 | 15 | 34 - 49 | 4" ID Sch. 80 PVC |
| FTA-82-MW04 | Residuum | 1171081.09 | 678253.20 | 1012.80 | 1015.38 | 129 | 20 | 106 - 126 | 4" ID Sch. 80 PVC |
| FTA-82-MW05 | Residuum | 1171236.50 | 677806.44 | 1049.14 | 1051.46 | 80.5 | 10 | 70.5 - 81 | 4" ID Sch. 80 PVC |
| FTA-82-MW06 | Residuum | 1171087.92 | 677795.62 | 1064.19 | 1067.13 | 166 | 20 | 141 - 161 | 4" ID Sch. 80 PVC |
| FTA-82-MW07 | Residuum | 1170850.96 | 677755.90 | 1035.73 | 1038.51 | 113 | 15 | 95 - 110 | 4" ID Sch. 80 PVC |
| FTA-82-MW08 | Residuum | 1170891.42 | 677221.99 | 914.48 | 915.86 | 46 | 10 | 33 - 43 | 4" ID Sch. 80 PVC |

Permanent residuum wells installed using a hollow-stem auger and/or air-rotary drilling.

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

Elevations referenced to the North American Vertical Datum of 1988.

4" ID Sch. 80 PVC - 4-inch inside diameter, Schedule 80, polyvinyl chloride.

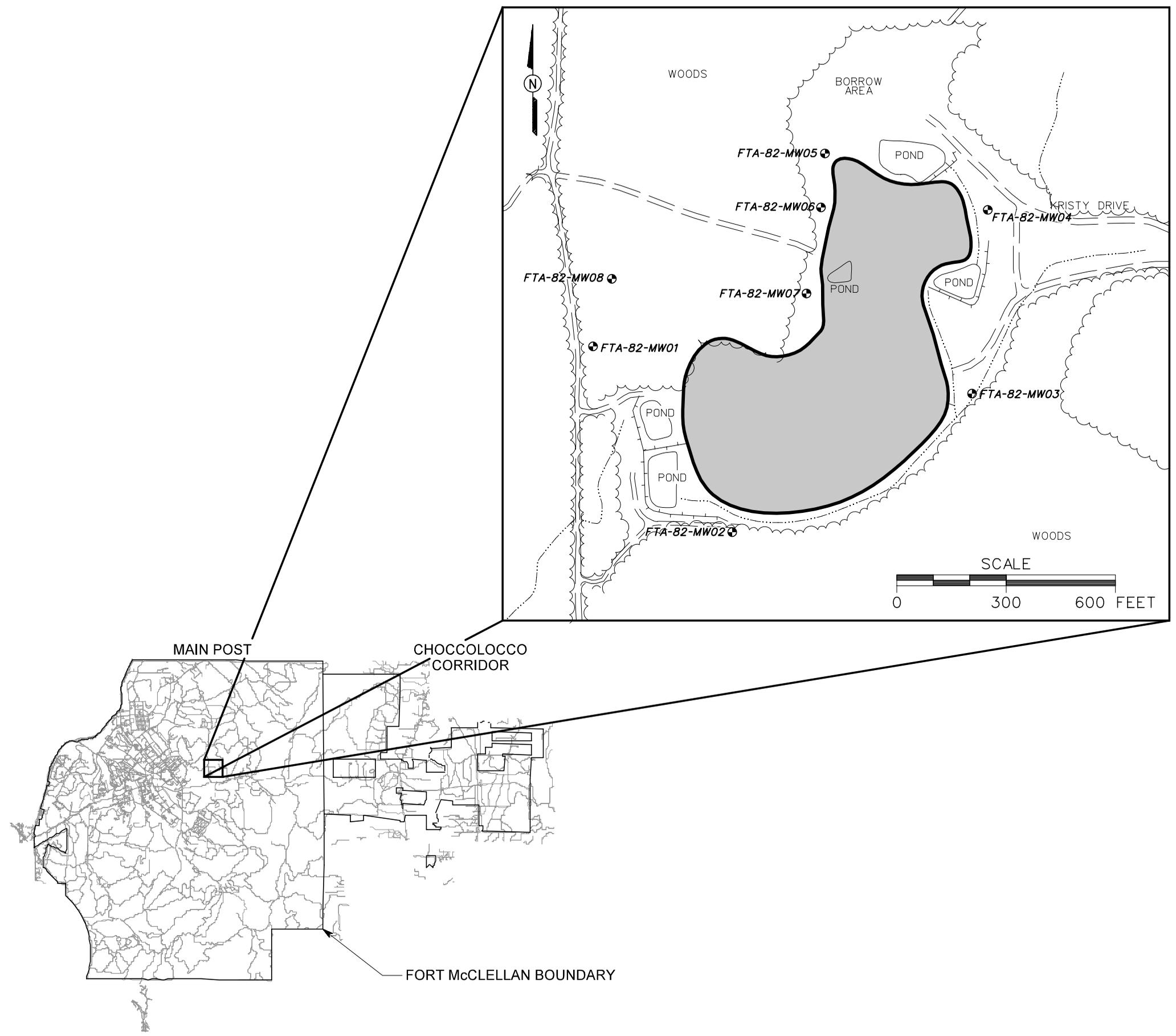
bgs - Below ground surface.

ft - Feet.

amsl - Above mean sea level.

TOC - Top of casing.

DWG. NO.: 796887es.926
 PROJ. NO.: 796887
 INITIATOR: J. TARR
 PROJ. MGR.: S. MORAN
 DRAFT. CHK. BY:
 ENGR. CHK. BY: S. MORAN
 DATE LAST REV.:
 DRAWN BY:
 STARTING DATE: 08/22/06
 DRAWN BY: D. BOMAR
 8/28/2006 9:09:27 AM
 dbomar
 796887es.926



LEGEND

- UNIMPROVED ROADS AND PARKING
- TREES / TREELINE
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- BERM
- MONITORING WELL LOCATION

FIGURE 1
SITE LOCATION MAP
STUMP DUMP, PARCEL 82(7)

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