

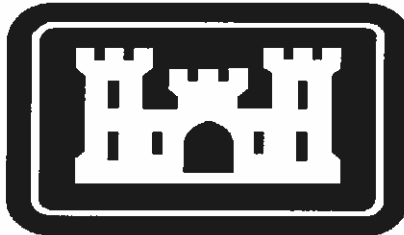
TECHNICAL MEMORANDUM

**AREA OF CONCERN (AOC)-S
GROUNDWATER INVESTIGATION
FORT RUCKER, ALABAMA**

FINAL

**U.S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT**

SEPTEMBER 2008



CH2M HILL

**Contract No. W91278-08-D-0032
Task Order 0005**

**Area of Concern (AOC) – S Groundwater
Investigation, Fort Rucker, Alabama
Contract No. W91278-08-D-0032, Task Order 0005**

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This Technical Memorandum has been prepared for the United States Army Corps of Engineers (USACE), Mobile District, by CH2M HILL, under Contract No. W91278-08-D-0032, Task Order 0005. This Technical Memorandum summarizes the location and proposed depth of eighteen (18) permanent groundwater monitoring wells to be installed within Area of Concern (AOC) – S at Fort Rucker, Alabama and on private property located south of Fort Rucker. The number of wells includes four (4) additional groundwater monitoring wells required by the Alabama Department of Environmental Management (ADEM) as described in ADEM's correspondence dated June 26, 2008.

The location of the proposed permanent groundwater monitoring wells are based on the results of the direct push technology (DPT)-installed temporary groundwater wells and DPT discrete groundwater sampling points performed from May through June, 2007 and April 2008. The locations of the proposed permanent groundwater monitoring wells are presented on the attached figure. The proposed depth and screened interval for each permanent groundwater monitoring well is presented in Table 1.

After installation and development of the eighteen (18) permanent groundwater monitoring wells, a groundwater sample will be collected from each new groundwater well and five (5) existing SWMU 8 monitoring wells and analyzed for the ADEM Appendix I volatile organic compounds (VOCs) and the ADEM Appendix I metals.

All field activities including the installation and sampling of the permanent groundwater monitoring wells will be performed in accordance with the *Final Work Plan for RCRA Facility Investigation at Area of Concern (AOC) – S, Fort Rucker, Alabama* prepared by CH2M HILL, May 2007.

Table 1

**Proposed Monitoring Well Depths and Screen Interval
AOC-S, Fort Rucker, Alabama**

Well	Proposed Well Depth (ft-bgs)	Proposed Screen Interval (ft-bgs)	Estimated Depth to Water (ft-bgs)	Location	Rig	Surface Completion
S-MW1	50	40 to 50	41	On-Post	ATV	Manhole
S-MW2**	50	40 to 50	42	On-Post	ATV	Manhole
S-MW3**	80	70 to 80	45	On-Post	ATV	Manhole
S-MW4	55	45 to 55	45	On-Post	ATV	Manhole
S-MW5	50	40 to 50	41	On-Post	ATV	Manhole
S-MW6**	80	70 to 80	48	On-Post	ATV	Manhole
S-MW7	60	50 to 60	50	On-Post	ATV	Manhole
S-MW8	60	50 to 60	50	On-Post	ATV	Manhole
S-MW9	50	40 to 50	41	On-Post	ATV	Manhole
S-MW10	50	40 to 50	39	On-Post	ATV	Stand Up*
S-MW11**	40	30 to 40	29	On-Post	ATV	Stand Up*
S-MW12	25	15 to 25	14	On-Post	ATV	Stand Up*
S-MW13	20	10 to 20	9	On-Post	ATV	Stand Up*
S-MW14	15	5 to 15	4	On-Post	ATV	Stand Up*
S-MW15	15	5 to 15	5	On-Post	ATV	Stand Up*
S-MW16	20	10 to 20	NA	Off-Post	DPT	Stand Up*
S-MW17	20	10 to 20	NA	Off-Post	DPT	Stand Up*
S-MW18	30	20 to 30	NA	Off-Post	DPT	Stand Up*

Notes:

ft-bgs = feet below ground surface

NA = Not Available

* Stand Up Cover includes Bollards

** Additional Well Required by ADEM