



MACTEC Engineering and Consulting
3200 Town Point Dr, Suite 100
Kennesaw, GA 30144

FIELD BOREHOLE LOG

BOREHOLE NO.: **DR2-3**

TOTAL DEPTH: **116**


PROJECT INFORMATION


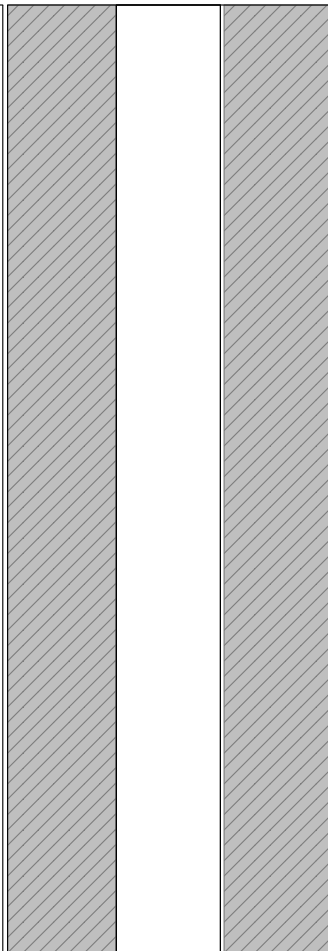




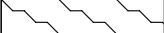
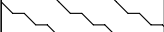
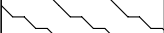
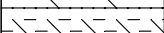
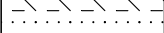
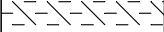
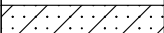
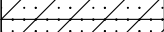



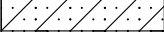
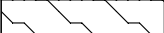
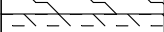
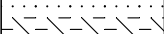

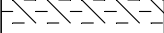
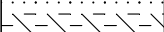
PROJECT: **DDMT**
SITE LOCATION: **Memphis, TN**
JOB NO.: **6301-04-0002**
LOGGED BY: **Amy Callaway**
PROJECT MANAGER: **Tom Holmes**
DATE DRILLED: **5/17/04**

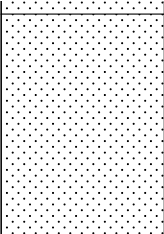





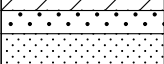
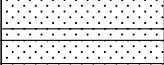

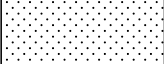
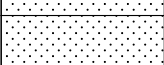
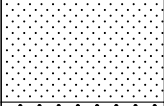
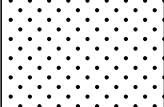
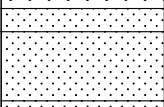
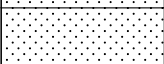
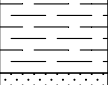
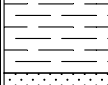
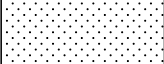
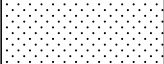

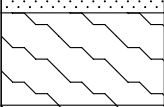

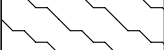
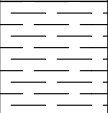
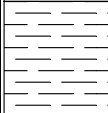
DRILLING INFORMATION

DRILLING CO.: **ProSonic**
DRILLER: **Adam Marshall**
RIG TYPE: **RotoSonic**
TOP OF CASING
ELEVATION: **303.44'**
GROUND SURFACE
ELEVATION: **303.66'**

NOTES:

- 1) Drilling technique: 0 to 116 ft, bgs 6-inch diameter borehole with roto sonic.
- 2) Well construction: 2-inch diameter schedule 40 PVC casing set to 108 ft, bgs with 15 ft of 0.01-inch slot well screen.
- 3) Well screens the fluvial aquifer.
- 4)  Stabilized water level measured on 6/24/04

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION		WELL DESCRIPTION
0		GC	Asphalt	0.0			Grouted Annulus
		ML	light gray (10YR 7/1) slightly clayey GRAVEL, fill				
		ML	dark grayish brown (10YR 4/2) gravelly SILT, dry				
-5		ML	dark yellowish brown (10YR 4/4) SILT, stiff, dry	0.0			
		CH	brown (10YR 4/3) clayey SILT, moist				
		CH	brown stiff fat CLAY				
-10				0.0			
		CL	reddish brown (5YR 4/4) silty CLAY, moist				
-15				0.0			
		SC	red (2.5YR 4/6) clayey very fine SAND				
		SC	red medium grain SAND with some clay				
-20				0.0			
		CH	dark red (10R 3/6) CLAY, stiff with some reddish yellow (7.5YR 6/6)				
-25				0.0			
		CL	dark red (10R 3/6) sandy CLAY, stiff with some reddish yellow (7.5YR 6/7)				
-30				0.0			
		SC-SP	strong brown (7.5YR 5/8) poorly sorted medium grain SAND with some clay				
-35				0.0			
		CL-SP	mottled white (2.5YR 8/1) and dark red (2.5YR 3/6) CLAY				
				0.0			
		SP	brownish yellow (10YR 6/6) fine to medium grain SAND				
-40				0.0			
		SP	red (2.5 YR 4/6) fine to medium grain SAND				

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION		WELL DESCRIPTION
-45		SP	red (2.5YR 4/6), brownish yellow (10YR 6/8) with some white (10YR 8/1) fine to medium grain SAND	0.0			
-50				4.1			
-55		SP	red (2.5YR 4/6), brownish yellow (10YR 6/8) with some white (10YR 8/1) fine to medium grain SAND with some gravel				
-55		SW	red (2.5YR 4/6), brownish yellow (10YR 6/8) with some white (10YR 8/1) gravelly fine to medium grain SAND	0.0			
-60		SC	strong brown (7.5YR 5/8) medium to fine grain SAND with some gravel				
-60				5.3			
-65		SW	very pale brown (10YR 8/3) gravelly fine grain SAND				
-65		SP	very pale brown (10YR 8/3) fine grain SAND				
-65		SP	strong brown (7.5YR 5/8) coarse grain SAND	0.0			
-70		SP	very pale brown (10YR 8/3) fine grain SAND				
-70		SP	strong brown (7.5YR 5/8) coarse grain SAND				
-75		SP	very pale brown (10YR 8/3) fine grain SAND	15.6			
-80							
-80		SP	pale yellow (2.5Y 7/4) fine to medium grain SAND with some gravel	0.0			
-85				208.9			
-85		SW	pale yellow (2.5Y 7/4) gravelly, fine to medium grain SAND				
-90		SP	light gray (10YR 7/1) very fine grain SAND	0.0			Bentonite Seal
-90		SP	yellowish brown (10YR 5/4) fine to medium grain SAND	6.4			
-95		SP	white (10YR 8/1) fine to medium grain SAND				
-95		SP	brownish yellow (10YR 6/8) fine to medium grain SAND, wet at 96.0 ft	NA			
-100		SP	brownish yellow (10YR 6/8) fine to medium grain SAND, wet at 96.0 ft	NA			
-105				NA			
-110		CH	gray (10YR 5/1) stiff fat CLAY, some silt, moist	NA			
-115		CH	gray (10YR 5/1) stiff fat CLAY, moist	NA			
-115			Boring Terminated at 116 feet bgs	NA			Bentonite Plug