



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

# FIELD BOREHOLE LOG

BOREHOLE NO.: **MW-171**

TOTAL DEPTH: **96'**


## PROJECT INFORMATION

PROJECT: **DDMT**  
SITE LOCATION: **Memphis, TN**  
JOB NO.: **6301-04-0019**  
LOGGED BY: **Jaime Piver**  
PROJECT MANAGER: **Tom Holmes**  
DATE DRILLED: **12/10/04**

## DRILLING INFORMATION

DRILLING CO.: **ProSonic**  
DRILLER: **David Wilcox**  
RIG TYPE: **RotoSonic**  
TOP OF CASING  
ELEVATION: **270.69'**  
GROUND SURFACE  
ELEVATION: **271.02'**

### NOTES:

- 1) Drilling technique: 0 to 96.0 ft, bgs 6-inch diameter borehole with roto sonic.
- 2) Well construction: 2-inch diameter schedule 40 PVC casing set to 68.35ft, bgs with 15 ft of 0.01-inch slot well screen.
- 3) Well screens the fluvial aquifer.
- 4)  Stabilized water level measured on 12/10/04

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION
0		Fill	grass, railroad related fill			
-5		CL	brown (7.5 YR 5/4) silty CLAY, stiff	0.0		Grouted Annulus
-10				0.0		
-15		CL	yellowish red (5YR 5/6) to brownish yellow (10 YR 6/6) sandy CLAY with trace pebbles	0.0		
-20		SP	yellowish red (5 YR 4/6) fine to medium grain SAND with trace clay and pebbles	0.0		
-25		SP	reddish yellow (7.5 YR 7/8) fine to medium grain SAND	0.0		
-30				2.1		
-35		SP	reddish yellow (7.5 YR 7/8) SAND with trace clay and subangular gravel, loose	0.0		
-40		CL SP	2" reddish yellow (7.5 YR 7/8) sandy CLAY, stiff, moist reddish yellow SAND with trace CLAY and subangular	0.0		

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION
-45	///	CL SP-SC	gravel black (7.5 YR 2.5/1) lignite grading into 1' reddish yellow (7.5 YR 7/8) sandy CLAY, stiff, moist reddish yellow (7.5 YR 7/6) to brown (7.5 YR 5/3) fine to medium clayey SAND with trace pebbles	0.0		Bentonite Seal
-50				0.0		Sand Pack / Screened Interval
-55				1.2		
-60				0.0		
-65				0.0		
-70	///	CL	brownish yellow (10 YR 6/8) CLAY, stiff			Bentonite Plug
-75	///	CL	gray (10 YR 5/1) CLAY, stiff, becoming sandy at 85-86'			
-80						
-85						
-90						
-95			Boring Terminated at 96 ft, bgs			