



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

# FIELD BOREHOLE LOG

BOREHOLE NO.: MW-168A

TOTAL DEPTH: 88'


## PROJECT INFORMATION

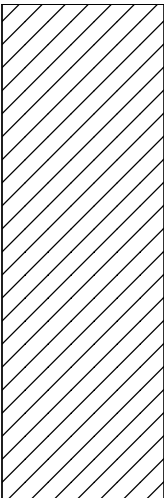
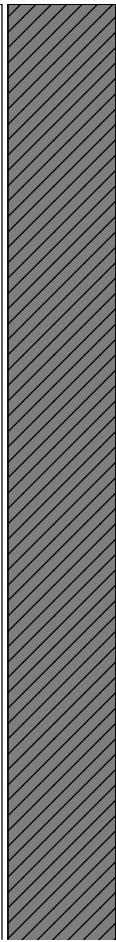

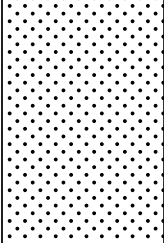


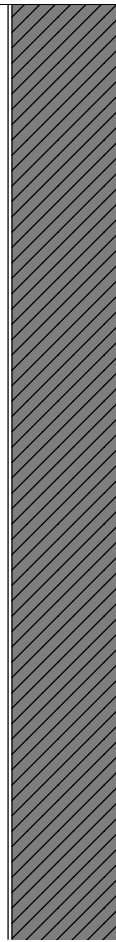
PROJECT: **DDMT**  
SITE LOCATION: **Memphis, TN**  
JOB NO.: **6301-04-0002**  
LOGGED BY: **Bill Payne**  
PROJECT MANAGER: **Tom Holmes**  
DATE DRILLED: **11/12/04**

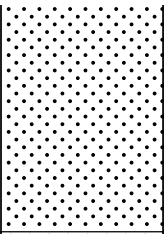
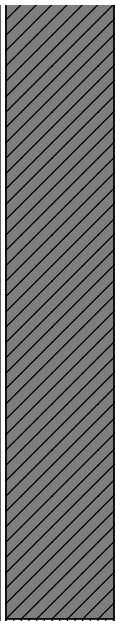
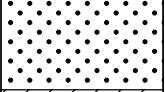

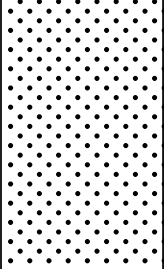
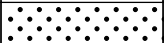
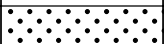
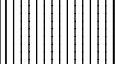
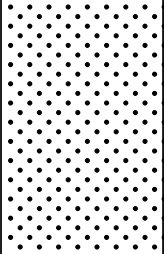
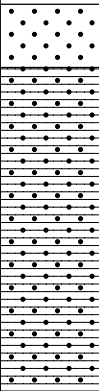

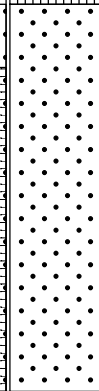
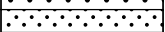
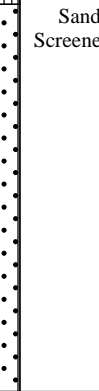
## DRILLING INFORMATION

DRILLING CO.: **ProSonic**  
DRILLER: **Dan O'Mara**  
RIG TYPE: **RotoSonic**  
TOP OF CASING ELEVATION: **283.20'**  
GROUND SURFACE ELEVATION: **283.56'**

### NOTES:

- 1) Drilling technique: 0 to 88.0 ft, bgs 6-inch diameter borehole with roto sonic.
- 2) Well construction: 2-inch diameter schedule 40 PVC casing set to 88.0 ft, bgs with 15 ft of 0.01-inch slot well screen.
- 3) Well screens the fluvial aquifer.
- 4)  Stabilized water level measured on 11/20/04

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION
0		CL	strong brown (7.5 YR 5/6) silty CLAY			Grouted Annulus
-5				0		
-10				0		
-15				0		
-20				0		
-22		CL	strong brown (7.5 YR 5/6) silty CLAY with fine to coarse gravel			
-24		SP	yellowish red (5 YR 5/8) to red (2.5 YR 4/8) clayey, silty, fine grain SAND	0		
-26		SW	yellowish red (5 YR 5/8) fine grain SAND to coarse GRAVEL			
-30				0		
-35				0		
-38		SP	red (104 YR 5/8) fine grain SAND			
-40		SW	reddish yellow (7.5 YR 7/6) fine grain SAND to coarse GRAVEL	0		

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION
-45		SP		12.9		
-50			reddish yellow (7.5 YR 6/8) fine grain SAND 52.5-55' coarse GRAVEL.	0		
-55			2" yellow (10 YR 8/6) CLAY lens	0		
-60		CL SP	yellow (10 YR 8/8) fine grain SAND			
-65						
-70		SP	yellow (10YR 7/6) fine to medium grain SAND with fine GRAVEL			▽ Bentonite
-75		SP	yellow (10 YR 7/6) fine grain SAND with trace fine GRAVEL			Sand Pack / Screened Interval
-80						
-85		SW	reddish yellow (7.5 YR 7/6) fine grain SAND to fine GRAVEL			
			Boring Terminated at 88 ft, bgs			