



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

FIELD BOREHOLE LOG

BOREHOLE NO.: **MW-154**

TOTAL DEPTH: **76**


PROJECT INFORMATION

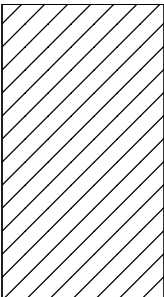
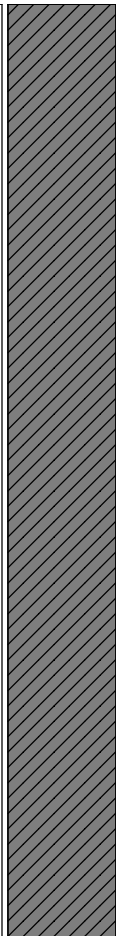
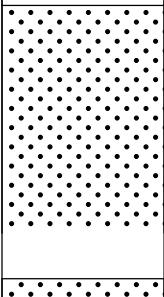
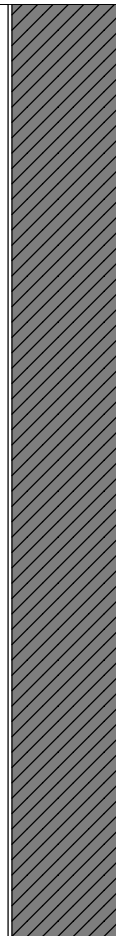
PROJECT: **DDMT**
SITE LOCATION: **Memphis, TN**
JOB NO.: **6301-04-0002**
LOGGED BY: **Kevin Arnold**
PROJECT MANAGER: **Tom Holmes**
DATE DRILLED: **8/14/04**

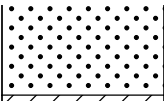
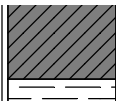
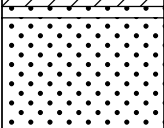
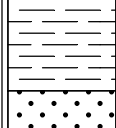
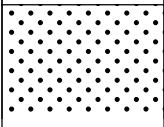
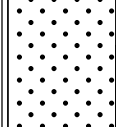
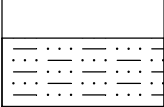
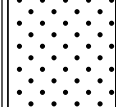
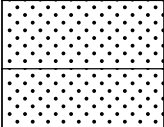
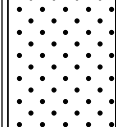
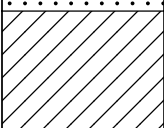
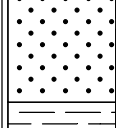

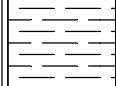

DRILLING INFORMATION

DRILLING CO.: **ProSonic**
DRILLER: **David Wilcox**
RIG TYPE: **RotoSonic**
TOP OF CASING
ELEVATION: **273.81'**
GROUND SURFACE
ELEVATION: **274.07'**

NOTES:

- 1) Drilling technique: 0 to 76.0 ft, bgs 6-inch diameter borehole with roto sonic.
- 2) Well construction: 2-inch diameter schedule 40 PVC casing set to 67.75ft, bgs with 15 ft of 0.01-inch slot well screen.
- 3) Well screens the fluvial aquifer.
- 4)  Stabilized water level measured on 8/19/04

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION
0		CL	dark yellowish brown (10 YR 4/6), non-plastic, silty CLAY, soft, slightly moist	0.0		Grouted Annulus
-5						
-10						
-15		CL	yellowish brown (10 YR 5/6), non-plastic, silty CLAY, moist			
-20		CL	red (2.5 YR 5/8), silty CLAY with trace fine grain sand and trace rounded, fine gravel, well sorted			
-25		CL	red (2.5 YR 5/8) non-plastic silty CLAY with fine grain sand, medium stiff to stiff, well sorted			
-30						
-35		SP SP	red (2.5 YR 5/8), fine grain SAND, loose, slightly moist			
-40			yellow (10 YR 7/8), fine grain SAND, with trace rounded to subrounded, fine to coarse gravel, moderate to well sorted, loose			
		NR	No Recovery			
		SP	brownish yellow (10 YR 6/8), fine grain SAND with trace rounded to well rounded, fine to coarse gravel, well sorted			

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION
-45		CL SP	clay lense			Bentonite Seal
-50		SP	brownish yellow (10 YR 6/8), fine grain SAND, very loose, moist yellow (2.5 YR 7/6), fine grain SAND with trace clay and trace rounded, fine to coarse gravel, well sorted			Sand Pack / Screened Interval
-55		NR	yellow (10 YR 7/8), fine grain SAND with trace clay, loose			
-60		SP-SC	No Recovery			
-65		SW	yellow (10 YR 7/8), fine grain SAND with ~25% clay, loose, wet			
-70		SW	yellow (10 YR 7/8), fine to coarse grain SAND with trace rounded fine gravel, loose, wet			
-75		CL	yellow (10 YR 7/8), fine to coarse grain SAND, loose, wet			
			gray (10 YR 5/1) medium plastic, slightly silty CLAY			
			Boring Terminated at 76 feet bgs		