



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

FIELD BOREHOLE LOG

BOREHOLE NO.: **MW-94A**

TOTAL DEPTH: **136**


PROJECT INFORMATION

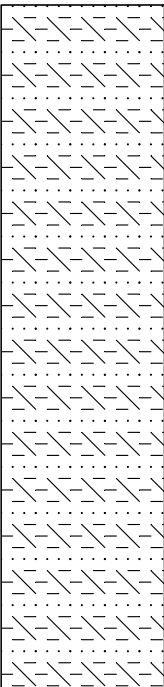
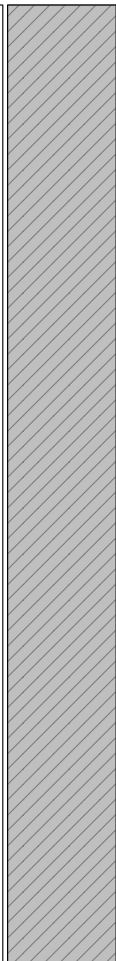
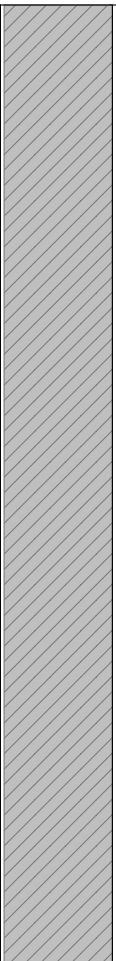
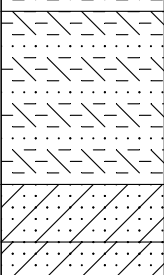
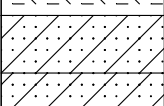
PROJECT: **DDMT**
SITE LOCATION: **Memphis, TN**
JOB NO.: **6301-04-0002**
LOGGED BY: **Bill Payne**
PROJECT MANAGER: **Tom Holmes**
DATE DRILLED: **5/11/04**

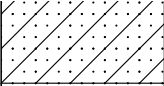
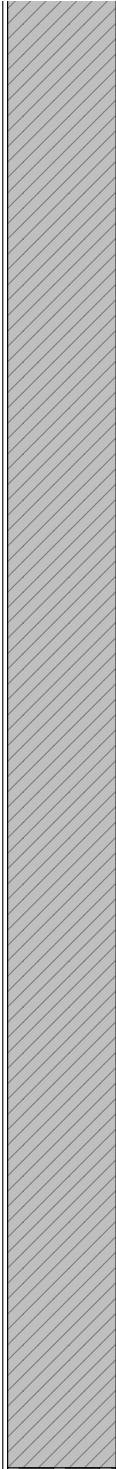
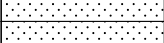
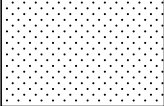
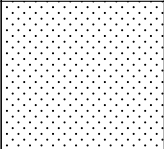
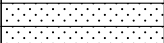
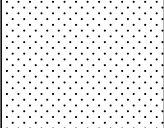
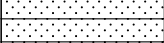
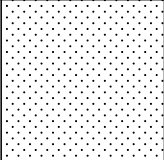
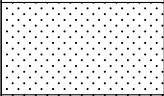

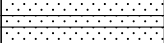
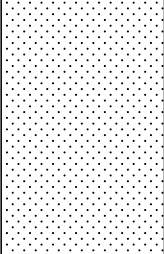
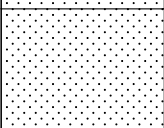
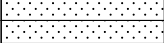
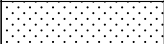
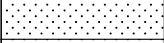

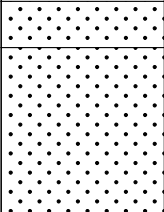
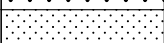
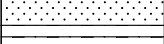
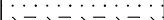
DRILLING INFORMATION

DRILLING CO.: **ProSonic**
DRILLER: **Adam Marshall**
RIG TYPE: **RotoSonic**
TOP OF CASING ELEVATION: **303.00'**
GROUND SURFACE ELEVATION: **303.23'**

NOTES:

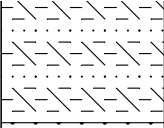

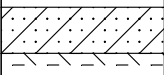
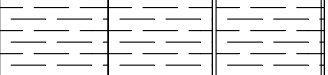

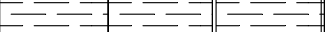
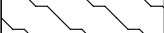
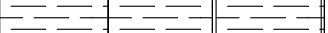

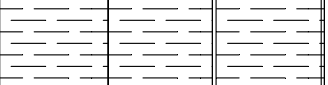
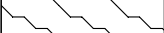
- 1) Drilling technique: 0 to 136 ft, bgs 6-inch diameter borehole with roto sonic.
- 2) Well construction: 2-inch diameter schedule 40 PVC casing set to 120 ft, bgs with 10 ft of 0.01-inch slot well screen.
- 3) Well screens the fluvial aquifer.
- 4)  Stabilized water level measured on 6/24/04

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION		WELL DESCRIPTION
0		CL	dark brown silty CLAY	0.0			Grouted Annulus
-5				0.0			
-10				10.1			
-15				1.6			
-20		CL		3.5			
-25				0.0			
-30			dark brown silty CLAY becoming sandier with depth	0.0			
-35				0.0			
-40		SC	reddish-brown clayey fine grain SAND				
		SC	reddish-brown, brown and some light gray clayey fine	0.0			

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION
-45		SP	grain SAND	0.0		
		SP	reddish-brown and gray clayey fine grain SAND with ~15% fine gravel and coarse sand			
-50		SP	brown medium grain SAND and fine GRAVEL	0.0		
-55		SP	light brown fine grain SAND	0.0		
-60		SP	light brown medium grain SAND with <20% fine gravel	0.0		
		SP	light brown fine grain SAND	0.0		
-65		SP	light brown medium grain SAND and fine GRAVEL	0.0		
-70		SP	light brown fine grain SAND	0.1		
-75		SP	light brown medium grain SAND and <20% fine gravel	0.0		
-80		SP	yellowish-brown, fine grain SAND	4.8		
		SP	yellowish-brown, medium grain SAND and fine GRAVEL			
-85		SP	very light brown fine grain SAND	0.0		
-90		SP	light brown, medium grain SAND and <10% fine gravel	0.0		
-95		SP	brown medium grain SAND and fine GRAVEL	0.0		
-100		SP	very light brown fine grain SAND with ~10% fine gravel	0.0		
-105		SP	brown medium grain SAND and fine GRAVEL	0.0		
		SW	dark grayish-brown medium to coarse grain SAND and fine to coarse GRAVEL	0.0		
-110		SW	brown to dark brown medium to coarse grain SAND and fine GRAVEL	19.5		
-115		SP	light yellowish brown medium grain SAND and fine GRAVEL	NA		
		CL	light brown silty CLAY			
		CL				

Bentonite Seal

▼ Sand Pack / Screened Interval

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION
-120		SC-SM CL CH	light brown CLAY	NA		Bentonite Plug
-125			gray to very dark gray clayey, silty SAND	NA		
			light brown clayey fine grain SAND	NA		
			gray silty CLAY	NA		
-130			gray CLAY	NA		
-135			Boring Terminated at 136 feet bgs	NA	