

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

FIELD BOREHOLE LOG

BOREHOLE NO.: MW-144

TOTAL DEPTH: 86

PROJECT INFORMATION		DRILLING INFORMATION		
PROJECT:	DDMT	DRILLING CO.:	ProSonic	
SITE LOCATION:	Memphis, TN	DRILLER:	David Wilcox	
JOB NO.:	6301-04-0002	RIG TYPE:	RotoSonic	
LOGGED BY:	Kevin Arnold	TOP OF CASING	291.60'	
PROJECT MANAGER:	Tom Holmes	ELEVATION: GROUND SURFACE		
DATE DRILLED:	6/2/04	ELEVATION:	291.89'	

NOTES:

1) Drilling technique: 0 to 86.0 ft, bgs 6-inch diameter borehole with rotosonic.

2) Well construction: 2-inch diameter schedule 40 PVC casing set to 76.5 ft, bgs with 20 ft of 0.01-inch slot well screen.

3) Well screens the fluvial aquifer.

4) \blacksquare Stabilized water level measured on 6/25/04

DEPTH	SOIL	USCS	SOIL DESCRIPTION	FID	WELL	WELL
	SYMBOLS	USCS	Soll Deschir Hory	ppm	COMPLETION	DESCRIPTION
0		CL	dark brown to brown silty CLAY, medium stiff	0.0		Grouted Annulus
-5		CL	brown silty CLAY, medium to low plasticity, soft	0.0		
-10 -		CL	brown silty CLAY, low plasticity, medium stiff	0.0		
-15 — -15 —		CL	brown silty CLAY, medium stiff, medium to low plasticity	0.0		
-20 -			passery	0.0		
-25 -		SP	reddish brown, fine to medium grain SAND, with trace rounded coarse size chert fragments, <10% clay	0.0		
-30 -				0.0		
-35 -		SP	brown, light gray fine to medium grain SAND, loose	0.0		
-40 -		SM SP	loose silty fine grain SAND fine grain SAND with coarse sized chert nodules	70.2/1.7		
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DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION	
-45		CL SP NR	slightly silty CLAY, soft to very soft, wet reddish brown, fine grain SAND with some rounded to very rounded coarse sized chert nodules no recovery	36.6/2.9		Bentonite Seal	
-50		SP	yellow, fine to medium grain SAND, loose, coarse size chert	0.0			
-55		NR ML SP	no recovery light gray fine grain sandy SILT, very soft rounded coarse size chert nodules, with fine to medium	87.7/18.2		Sand Pack / Screened Interval	
-60 -		SC SP	grain SAND reddish brown, fine grain SAND with clay lenses reddish brown, yellow, fine grain SAND, soft with round	0.0			
-65 -		NR	redust brown, yerow, the grain SAND, soft with found medium grain chert nodules no recovery reddish brown, fine grained SAND, trace clay lenses	1.8			
-70			(<10%), loose	0.0		· · •	
-80 -		СН	fat CLAY, hard	12.1 NA		Bentonite Plug	
-85 -			Boring Terminated at 86 feet bgs	NA			