

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

FIELD BOREHOLE LOG

BOREHOLE NO.: MW-161

TOTAL DEPTH: 86

PROJECT INFORMATION		DRILLING INFORMATION		
PROJECT:	DDMT	DRILLING CO.:	ProSonic	
SITE LOCATION:	Memphis, TN	DRILLER:	David Wilcox	
JOB NO.:	6301-04-0019	RIG TYPE:	RotoSonic	
LOGGED BY:	Kevin Arnold	TOP OF CASING	296.40	
PROJECT MANAGER:	Tom Holmes	ELEVATION: GROUND SURFACE	270.40	
DATE DRILLED:	10/11/04	ELEVATION:	296.67	

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 82.25ft, bgs with 20 ft of 0.01-inch slot well screen.
- 3) Well screens the fluvial aquifer.
- 4) **▼** Stabilized water level measured on 10/09/04

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION
0-		ML	No Recovery yellowish brown (10 YR 5/8), clayey SILT, non-plastic, loose			
-5-			No Recovery	0.0		Grouted Annulus
-10 -		CL	yellowish brown (10 YR 5/6), silty CLAY, medium plastic, medium stiff to stiff, moist (dry 16 to 26 ft, bgs)	0.0		
-15 -				0.0		
-20 -				0.0		
-25 -		CL	yellowish brown (10 YR 5/8) silty CLAY, stiff, dry	0.0		
-30 -		SW	yellowish red (5 YR 5/8) slightly clayey, fine gravelly, silty fine grain SAND, well graded, medium stiff	0.0		
-35 —		SP	yellowish red (5 YR 5/8) slightly clayey, fine to coarse gravelly, fine grain SAND, loose	0.0		
-40 –		SP	yellowish red (5 YR 5/8) fine to coarse gravelly, fine grain SAND with cobbles, loose	6.2		

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DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION		
	SIMBOLS			PP		DESCRIPTION		
-45 -		SW	reddish yellow (7.5 YR 7/6) fine grain SAND with fine to coarse, sub-rounded gravel, loose No Recovery	8.4				
-50 -		SW	brownish yellow (10 YR 6/6), slightly clayey, coarse gravelly, fine to medium grain SAND, well graded, loose	0.0				
-55 -			No Recovery	1.5		Bentonite Seal		
-60 -		SP SW	reddish yellow (7.5 YR 6/8) fine grain SAND with coarse gravel, well rounded, loose	-		Sand Pack / Screened Interval		
-65 —		5 11	reddish yellow (7.5 YR 7/8) coarse gravelly, fine grain SAND, well rounded, loose No Recovery	_				
-70 -	<i>U U</i> L	GW SP	reddish yellow (7.5 YR 5/8) fine to coarse grain GRAVEL, well rounded, well graded, loose reddish yellow (7.5 YR 6/8) fine grain SAND, with trace well rounded fine grain gravel, well sorted, very loose	_		:		
-75 -			No Recovery					
-80 -		SP CH	reddish yellow (7.5 YR 5/8) slightly clayey, slightly fine gravelly, fine to medium grain SAND, well sorted, soft, loose, wet reddish yellow (7.5 YR 6/8) to gray (7.5 YR 6/1) silty CLAY, hard, highly plastic]		
-85 –			Boring Terminated at 86 feet, bgs			Bentonite Plug		

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