

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

## FIELD BOREHOLE LOG

BOREHOLE NO.: MW-151

TOTAL DEPTH: 106

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	284.27'	
PROJECT MANAGER:	Tom Holmes	ELEVATION:	204.27	
DATE DRILLED:	8/14/04	GROUND SURFACE ELEVATION:	284.42'	

## NOTES:

- 1) Drilling technique: 0 to 106.0 ft, bgs 6-inch diameter borehole with rotosonic.
- 2) Well construction: 2-inch diameter schedule 40 PVC casing set to 97.0 ft, bgs with 20 ft of 0.01-inch slot well screen.
- 3) Well screens the fluvial aquifer.
- 4) 🗷 Stabilized water level measured on 8/19/04

				EID	WELL	WELL
DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION
0-7		NR	No December			//
			No Recovery			
]		CL	brown (7.5 YR 4/3), low to non-plastic, silty CLAY, medium stiff			
-5				0.0		Grouted Annulus
		CL	dark brown (7.5 YR 3/3), low to medium plastic, silty CLAY, medium stiff, moist			
-10						
10				2.1		
]						
-15				2.2		
-		CL	brown (7.5 YR 4/4), low to non-plastic, silty CLAY,	2.2		
]			medium stiff			
-20 —				0.0		
		CL	brown (7.5 YR 4/4), non-plastic silty CLAY, with well sorted, rounded fine gravel			
			sorted, rounded line graver			
-25				0.0		
-		NR	No Recovery			
		CL SP	brown (7.5 YR 4/4), non-plastic silty CLAY, with well sorted, rounded fine gravel			
-30			red (2.5 YR 5/6), fine to medium grain SAND with trace clay and trace rounded fine gravel, well sorted, loose	0.0		
-						
-35 —				0.0		
		NR	No Recovery	0.0		
10 +	•••••	SP	red (2.5 YR 5/6), fine to medium grain SAND with trace			
-40 ]	•••••••••••••••••••••••••••••••••••••••		clay and trace rounded fine gravel, well sorted, loose	0.0		

Created by: AMC 08/21/04 Checked by: RNQ 09/02/04

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## Borehole No. **MW-151** WELL WELL SOIL FID USCS **DEPTH** SOIL DESCRIPTION **COMPLETION** DESCRIPTION ppm **SYMBOLS** 0.0 NR No Recovery reddish yellow (7.5 YR 6/8), fine grain SAND SP SP reddish yellow (7.5 YR 7/6), fine grain SAND to well rounded coarse gravel, well sorted $\,$ -50 14.2 reddish yellow (7.5 YR 6/6), fine grain SAND with trace clay and trace well rounded, fine gravel, loose -55 0.0 SP brownish yellow (10 YR 6/6), fine grain SAND, loose -60 0.0 -65 0.0 brownish yellow (10 YR 6/8), fine to medium grain SAND with trace well rounded, fine gravel, poorly graded SP -70 Bentonite Seal -75 No Recovery NR yellowish brown (10 YR 5/8), fine to medium grain SAND with trace rounded coarse gravel, well sorted, loose, wet -80 Sand Pack / Screened Interval -85 -90 CLAY lense SP yellowish brown (10 YR 5/8), fine to medium grain SAND with trace rounded coarse gravel, well sorted, -95 No Recovery NR bluish gray (GLEY2 5/1) hard CLAY -100 Bentonite Plug Boring Terminated at 106 feet, bgs