

PROJECT NUMBER

113630.01.ZZ

BORING NUMBER

MW-41 (K) SHEET 1 OF 3

SOIL BORING LOG

PROJECT DDMT Groundwater Investigation					LOCATION Memphis, TN			
ELEVATION					_ DRILLING CONTRACTOR Boart Longyear			
				PMENT Rotasonic				
WATER LEVELS 65.82 ft. BTOC 1/14/96					START 0915, 1/12/96 FINISH 1710, 1/12	2/96 LOGGER S. Bruer		
a E	STANDARD STANDARD (N) NUMBER AND TYPE LEAT LESTLY RECOVERY RESTLY RESTLY		STANDARD PENETRATION	SOIL DESCRIPTION	COMMENTS			
DEPTH BELL			RECOVERY		SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION		
	0		<u> </u>		1-inch TOPSOIL	Start drilling: 0915		
	-		5		SILTY CLAY (CL), light brown, moist, soft, trace organics Light gray mottling below 3 ft.	Modified loess		
	5					-		
5.0 -					Medium stiff below 5 ft.			
10.0 —			10					
16.0 —	15				G.,,			
20.0 —			8		Stiff with black and gray mottling below 15 ft. With some coarse, guartz sand and fine, chert gravel below 18 ft.			
_					CLAYEY SAND (SC), orange to brown,			
- 25.0	23		2		moist, medium dense, fine to medium, quartz with fine to coarse subrounded, chert gravel	Fluvial Deposits		
	30		4		SILTY FINE SAND (SM), orangish-brown, moist, medium dense, fine, quartz with fine to coarse, subangular to subrounded chert gravel	23 ft. to 24 ft. HNU = 5 to 20 ppm Off core sample		



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ELEVATION					DRILLING CONTRACTOR Boart Longyear			
				PMENT Rotasonic				
	LEVEL			OC 1/14/96	START 0915, 1/12/96	FINISH 1710, 1/12/96	LOGGER S. Bruer	
₹Ē	SAMPLE			STANDARD PENETRATION TEST RESULTS	SOIL DESCR	RIPTION	COMMENTS	
DEPTH BELOW SURFACE (FT)	INTERVAL NUMBER AND TYPE RECOVERY		RECOVERY	6" -6" -6" (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY		DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION	
-	30		4		POORLY-GRADED SAND moist, loose, medium, qua some subrounded to rour coarse, chert gravel	(SP), orange, rtz, with trace to nded, fineto	30 ft. to 31 ft. HNU = 4 to 14 ppm Off core sample	
-	34		 		1	<u>-</u>	_	
35.0 —	38		3		Dry from 36 ft. to 37 ft.	<u>-</u> - -	Sample is very hot due to drilling friction	
40.0						- -	1130 - -	
-	44		6		SILTY SAND (SM), orang loose, fine, quartz, with to subangular, chert gravel	ish-brown, moist, race fine,	-	
†			1				1151	
45.0	45				44.5 ft. to 44.75 ft.: <u>SIL</u> gray, dry	I (ML), light	1235 — 1300 – lunch break 1315 – drilling again – -	
50.0			5			- -		
]	55					1	1	
55.0			3.5		WELL-GRADED GRAVELLY brown, moist, loose, mediun quartz, with fine to mediun subrounded, chert gravel	m to coarse.	1345	
	60						1451	



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SHEET 3 OF 3

SOIL BORING LOG

PROJECT DUMT Groundwater Investigation					LOCATION Memphis, TN			
ELEV/	ATION _	·			_ DRILLING CONTRACTOR .	Boart Longyear		
DRILL	ING ME	THOD A	NO EQU	PMENT Rotasonic				
WATER	RLEVEL	<u>s 65.8</u>	2 ft. BT	OC 1/14/96	START 0915, 1/12/98	FINISH 1710, 1/12/96	LOGGER S. Bruer	
≅F	SAMPLE			STANDARD	SOIL DESCRIPTION		COMMENTS	
DEPTH BELOW SURFACE (FT)	RVAL	NUMBER AND TYPE	RECOVERY	STANDARD PENETRATION TEST RESULTS	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY		DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION	
SUR	@ INTERVAL	AND	RECO	6" -6" -6" (N)	MINERALOGY	. STRUCTURE,	TESTS AND INSTRUMENTATION	
	1					_		
			5			_		
	65					-		
65.0 -							1510 Geotechnical Sample collected at 65 ft. to 67 ft.	
-			7		SILTY CLAY (CL), yell medium stiff	owish orange, moist,		
70.0 —						-	Jackson Formation/Upper Claiborne Group	
-	72				Light gray below 72 ft.	, †		
-			3					
	75					1	1544 Installing MW-41	
76.0 — -					Boring terminated at 7	5 ft.	1710 MW-41 Installed (see attached construction log)	
-						-		
80.0 —							- _	
-						-	-	
-						4		
85.0 —						_	-	
						-	- -	
4						4	- -	
_						+	-	