



PROJECT NUMBER 113630.01.ZZ	BORING NUMBER MW-44 (M)	SHEET 1 OF 3
SOIL BORING LOG		

PROJECT <u>DDMT Groundwater Investigation</u>	LOCATION <u>Memphis, TN</u>
ELEVATION _____	DRILLING CONTRACTOR <u>Boart Longyear</u>
DRILLING METHOD AND EQUIPMENT <u>Rotasonic</u>	
WATER LEVELS <u>51.87 ft. BTOC 1/16/96</u>	START <u>0945, 1/15/96</u> FINISH <u>1715, 1/15/96</u> LOGGER <u>S. Bruer</u>

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6" -6" -6" (N)	SOIL DESCRIPTION	COMMENTS
	INTERVAL	NUMBER AND TYPE	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
5.0	0		3		3-inches CONCRETE <u>SILTY CLAY</u> (CL), light brown, moist, medium stiff,	Start Drilling: 0945 Modified loess
	3					0949
	5		2			1000
10.0			5		With black and orange mottling below 10 ft. Trace coarse quartz sand and fine to coarse, subrounded, chert gravel below 14 ft.	1006
	10					
			5			
15.0	15				<u>SANDY CLAY</u> (CL), light brown with brick red mottling, moist, stiff <u>CLAYEY SAND</u> (SC), brick red with brown and gray intermixing, moist, medium dense, fine to medium, quartz, trace fine, subrounded chert gravel	1013
			5			Fluvial Deposits
	20					18 ft. to 20 ft. HNU = 2 ppm Headspace in ziplock bag
20.0			5		<u>WELL-GRADED GRAVELLY SAND</u> (SW), orange, wet, loose to medium dense, fine to coarse, quartz with fine to coarse, subangular to subrounded, chert gravel	1023
	25					
25.0			6			1049
					29 ft. to 30 ft. HNU = 2 ppm	



PROJECT NUMBER 113630.01.ZZ	BORING NUMBER MW-44 (M)
SHEET 2 OF 3	
SOIL BORING LOG	

PROJECT DDMT Groundwater Investigation	LOCATION Memphis, TN
ELEVATION	DRILLING CONTRACTOR Boart Longyear
DRILLING METHOD AND EQUIPMENT Rotasonic	
WATER LEVELS 51.87 ft. BTOC 1/18/96	START 0945, 1/15/96 FINISH 1715, 1/15/96 LOGGER S. Bruer

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS	SOIL DESCRIPTION	COMMENTS
	INTERVAL	NUMBER AND TYPE	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
	31					
			4		<u>POORLY-GRADED SAND</u> (SP), orange, wet, loose, medium, quartz, with trace fine, subrounded chert gravel	1100
36.0	35					1112
			8			
40.0						
	43					1137
			2			
45.0	45					1148
			10			
50.0						
55.0	55					
			5		<u>WELL-GRADED SAND</u> (SW), orange, wet (saturated), loose, fine to coarse, quartz, with trace fine, subrounded chert gravel	1209, Fluvial Aquifer 1210, drillers take break 1230, drilling again
	60					



PROJECT NUMBER 113630.01.ZZ	BORING NUMBER MW-44 (M)	SHEET 3 OF 3
SOIL BORING LOG		

PROJECT DDMT Groundwater Investigation	LOCATION Memphis, TN
ELEVATION	DRILLING CONTRACTOR Boart Longyear
DRILLING METHOD AND EQUIPMENT Rotasonic	
WATER LEVELS 51.87 ft. BTOC 1/18/96	START 0945, 1/15/96 FINISH 1715, 1/15/96 LOGGER S. Bruer

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS	SOIL DESCRIPTION	COMMENTS
	INTERVAL	NUMBER AND TYPE	RECOVERY			
					6" - 6" - 6" (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY
	60		5		Yellowish-orange below 60 ft.	1305, lunch break 1330, drilling again
65.0	65					1340
70.0			10			
75.0	75					1400
80.0			10			<u>SILTY CLAY (CL)</u> , light gray, with dark gray to black mottling, moist, medium stiff
85.0	85					1425
			0			
	87.5					1540, Installing MW-44
					Boring terminated at 87.5 ft.	1715, MW-44 installed (see attached construction log)