



PROJECT NUMBER
113630.01.ZZ

BORING NUMBER
MW-45 (C)

SHEET 1 OF 3

SOIL BORING LOG

PROJECT DDMT Groundwater Investigation

LOCATION Memphis, TN

ELEVATION

DRILLING CONTRACTOR Boart Longyear

DRILLING METHOD AND EQUIPMENT Rotasonic

WATER LEVELS

START 0915, 1/16/96

FINISH 1450, 1/16/96

LOGGER S. Bruer

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
	0		5		1-inch TOPSOIL SILTY CLAY (CL), light brown, moist, soft, with trace organics	Start Drilling: 0915 Modified loess
5.0	5		5			0925
10.0	10		2.5		Drier, but still moist, below 8 ft.; stiff	0933 10 ft. to 15 ft. HNU = 2 ppm Headspace in ziplock bag
	12.5		2.5		With orange mottling below 13 ft.	
15.0	15		8		With orange and black mottling below 15 ft.	0945
20.0	23		2		SANDY CLAY (CL), light brown, moist, medium stiff, fine quartz sand	Fluvial Deposits 0956
25.0	25		10		CLAYEY SAND (SC), orange with light brown laminations, moist, medium dense, fine, quartz	1005
					POORLY-GRADED SAND (SP), orange, moist, loose, medium, quartz, trace rounded, fine, chert gravel	1010, rig shut down, drilling making a telephone call 1020, drilling again



PROJECT NUMBER 113630.01.ZZ	BORING NUMBER MW-45 (C)	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 _____	START 0915, 1/16/96 FINISH 1450, 1/16/96 LOGGER S. Bruer

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6" - 6" - 6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY			
35.0	35					1045
40.0			8.5		WELL-GRADED GRAVELLY SAND (SW), orange, moist, loose, fine to coarse, quartz, with fine to coarse, subrounded to rounded, chert gravel	
45.0	45				POORLY-GRADED SAND (SP), orange, moist, loose, medium, quartz	2-inch thick clay seam at contact between SW and SP at 43 ft., light gray, moist, soft
50.0	50		4		Tan and fine to medium below 48 ft.	45 ft. to 50 ft. HNU = 4 ppm Headspace in ziplock bag
55.0	55		4		WELL-GRADED GRAVELLY SAND (SW), yellowish-orange, moist, loose, fine to coarse, quartz, with fine to coarse, subrounded, chert gravel and minor clay laminations	1130
					POORLY-GRADED SAND (SP), orange, moist, loose, fine to medium, quartz	
			10		WELL-GRADED SANDY GRAVEL (GW), orange, wet (saturated), loose, fine to coarse, subangular to subrounded, chert, with coarse, quartz sand	1141, Fluvial Aquifer
					POORLY-GRADED SAND (SP), orange wet (saturated), loose, medium, quartz	



PROJECT NUMBER 113630.01.ZZ	BORING NUMBER MW-45 (C)	SHEET 3 OF 3
SOIL BORING LOG		

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DRILLING METHOD AND EQUIPMENT Rotasonic	
WATER LEVELS _____	START 0915, 1/16/96 FINISH 1450, 1/16/96 LOGGER S. Bruer

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	INTERVAL	NUMBER AND TYPE	RECOVERY			
65.0	65					
			5		WELL-GRADED GRAVELLY SAND (SW), orange, wet (saturated), loose, fine to coarse, quartz, with fine to medium, subangular to subrounded, chert gravel and trace subrounded, chert cobbles	1153 1158, drillers take break 1205, drilling again
70.0	70				CLAY (CH), lavender and light gray marbled, moist, soft	
			5		SILTY CLAY (CL), light gray with orange mottling, moist, stiff	1224 Jackson Formation/Upper Claiborne Group
75.0	75				73 ft. to 73.5 ft.: CLAYEY SILT (ML), orange and light gray, moist, soft SANDY SILT (ML), light gray with orange mottling, moist, soft, fine sand	
					Boring terminated at 75 ft.	1242 1450, MW-45 installed (see attached construction log)
80.0						
85.0						