



PROJECT NUMBER 113630.01.ZZ	BORING NUMBER MW-42 (N)
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 54.45 ft. BTOC 1/15/96	START 0935, 1/13/96 FINISH 1720, 1/13/96 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			
	0		.5		1-inch Asphalt SILTY CLAY (CL), light brown, moist, stiff to very stiff, trace organics	Start Drilling: 0935 Modified loess Driller had too much pressure in core barrel and lost most of run when extracting
5.0	5		5		CLAYEY SILT (ML), light brown and light gray intermixed, moist, soft to medium stiff, trace organic	0945
10.0	10		5			0955
15.0	15		5			0959
20.0	20		5		SILTY CLAY (CL), light brown, moist, medium stiff	1007
			5		CLAYEY SILT (ML), light brown, moist, medium stiff	Collected SBMW4223
25.0	25				SILTY CLAY (CL), light brown, moist, medium stiff, with some coarse, quartz sand and fine, subrounded, chert gravel	1018
	27		2		CLAYEY SAND (SC), brick red, moist, medium dense, medium, quartz, with some fine subrounded to rounded, chert gravel and orange and gray, medium, quartz sand intermixed seams	1030, Fluvial Deposits
	29		2			1045



PROJECT NUMBER 113630.01.ZZ	BORING NUMBER MW-42 (N)	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 54.45 ft. BTOC 1/15/96	START 0935, 1/13/96 FINISH 1720, 1/13/96
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			
	30		3			
	32		2		SANDSTONE, orange to brown, dry, lightly cemented, fine to medium, quartz, with fine to coarse, rounded to subrounded, chert gravel and trace subrounded, chert cobbles	1100, sandstone crumbles with moderate finger pressure
35.0	35				WELL-GRADED GRAVELLY SAND (SW), orange, moist, loose, fine to coarse, quartz, with fine to coarse, subrounded, chert gravel	1115, driller having trouble tripping out drill pipe/core barrel
			4.5		CLAY (CH), light brown and lavender marbled, moist, stiff	1200, hole collapsed; re-core
40.0	41				POORLY-GRADED SAND (SP), orange, moist, loose, medium, quartz, with trace fine to coarse, subrounded to rounded, chert gravel	
			4			1230
45.0	45					1245 1305, lunch break 1328, drilling again
			8			
	53					1353
	55		2			
55.0			2			1405, free water present on gravels
	57					1428, geotechnical sample collected 57 ft. to 59 ft.
					SILT (ML), light gray, moist, soft	Sand is lightly cemented at contact with silt



PROJECT NUMBER

113830.01.ZZ

BORING NUMBER

MW-42 (N)

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 54.45 ft. BTOC 1/15/96

START 0835, 1/13/96

FINISH 1720, 1/13/96

LOGGER S. Bruer

START		FINISH		LOGGER			
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
65.0				8		<u>SILTY CLAY</u> (CL), light gray, moist, stiff 61.5 ft. to 61.75 ft.: <u>SILT</u> (ML), light gray, moist, soft	Jackson Formational Upper Claiborne Group
	65					64.25 ft. to 64.5 ft.: <u>SILT</u> (ML), light gray, moist, soft	1445 S-1 Pocket Penetrometer: 3.0, 2.5, 2.5 tsf
	67.5			2.5			
70.0						Boring terminated at 67.5 ft.	1550, Installing MW-42 1720, MW-42 installed (see attached construction log)
75.0							
80.0							
85.0							