



PROJECT NUMBER 170039	BORING NUMBER MW-109
SOIL BORING LOG	

PROJECT : EBT Treatability Study LOCATION : Memphis Depot
 ELEVATION : DRILLING CONTRACTOR : Boart Longyear
 DRILLING METHOD AND EQUIPMENT USED : Rotasonic rig (4 inch sample casing / 6 inch outer casing)
 WATER LEVELS : START : 05/01/2002 END: 05/02/2002 LOGGER : Mike Karafa

DEPTH BELOW SURFACE (FT)		INTERVAL (FT)		STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION	COMMENTS
		RECOVERY (%)	#/TYPE		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.
					Asphalt and gravel	Corrected FID (ppm): (Soil headspace)
					Silt, stiff, brown	0.0
						9.1
						5.4
						0.0
					Silty Sand, red, fine to medium grained, poorly sorted, loose	0.0
					Sandy Clay, reddish brown, fine grained, stiff, damp	
					Sand, some silt, bright red, fine to medium grained, poorly sorted, stiff, dry	
						0.0
						4.3
					Sand, red, fine to medium grained, poorly sorted, loose	
					Silty Sand, red to brown, fine to medium grained, poorly sorted, stiff, damp	



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			#/TYPE						
40	100				Sand, orange yellow, fine grained, well sorted, loose		11.3		
45					Sand, orange, fine to coarse grained, poorly sorted, loose, some gravel		16.2		
					Same as above except orange and yellow		0.5		
50	100						0.8		
55					Same as above, no gravel		0.0		
60					Sand, tan, fine to coarse grained, poorly sorted, gravel, pebbles to cobbles, loose, dry		0.0		
					Sand, light yellow, fine grained, loose, dry		0.0		
65					Sand, light yellow to orange, fine grained, well sorted, loose, dry		4.7		
70	100						0.0		



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RECOVERY (%)				6"-6"-6"-6" (N)					
#/TYPE								Corrected FID (ppm):	
75						Sand, tan, fine to medium grained, loose, damp, some gravel			0.0
80		100				Sand, tan, fine grained, loose, dry			
						Sand, orange, fine to coarse grained, loose, dry			0.0
85						Same as above, gravel, pebble to cobble			
						Sand, white, fine grained, loose, dry			
						Same as above, orange			0.0
90		100				Sand, orange, fine to coarse grained, poorly sorted, loose, gravel, damp			0.0
						Sand, light tan, fine to coarse grained, poorly sorted, damp, pebble to cobbl			
95						Sand, some silt, tan, fine grained, stiff wet			
						Sand, tan, fine to medium grained, poorly sorted, loose, gravel, wet		Water table @ 96 ft bgs	
						Silty Clay, tan, orange mottled, stiff, wet			
						Sand, gray, fine grained, well sorted, loose, wet			
100		100				Sand, brown, fine to medium grained, poorly sorted, loose, wet, gravel, pebble to cobble, subangular to subrounded			
						Clay, some silt, gray and orange mottling, massive, stiff, we			
105						Boring terminated at 105 ft bgs			
110									