



PROJECT NUMBER 334469	BORING NUMBER MW-190
SOIL BORING LOG	

PROJECT : PRB Implementation Study	LOCATION : Memphis Depot
ELEVATION :	DRILLING CONTRACTOR : Prosonic
DRILLING METHOD AND EQUIPMENT USED : Rotasonic rig (4 inch sample casing / 6 inch outer casing)	
WATER LEVELS :	START : 3/23/2006 END: 3/24/2006 LOGGER : Mike Karafa

DEPTH BELOW SURFACE (FT)				STANDARD	SOIL DESCRIPTION	COMMENTS
	INTERVAL (FT)	RECOVERY (%)		PENETRATION	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.
			#/TYPE	TEST		
				RESULTS		
				6"-6"-6"-6" (N)		
						Corrected FID (ppm):
5		100			Silt, brown, roots, grass, dry	0.0
					Silt brown, loess, loose, dry	
10		100			silt brown, loess, stiff, damp to wet	3.4
15						0.0
20		100				0.0
25						
30		100			Silty sand, brown with grey and red and yellow sand, fine grain, stiff, gravel up to 1/2"	
35					silty sand, reddish orange, fine to coarse grain, loose to sticky, gravel up to 1/2"	0.0



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DEPTH BELOW SURFACE (FT)				STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION	COMMENTS
INTERVAL (FT)		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. <div>Corrected FID (ppm):</div>
40	100				gravely sand, reddish orange, loose, damp, fine to coarse grain, gravel up to 3/4"	0.0
45						
50	100				gravelly sand, tan, loose, dry, fine to medium grain, gravel up to 1.5	0.0
55						
60	100				sand, tan, fine grain, loose, dry, gravel pea size up to 1/2" diamete	0.0
65					sand, light grey, fine grain, loose, dry, gravel up to 1/2"	
					sand, orange, fine to medium grain, loose, dry, gravel up to 3/4" diameter	0.0
70	100				clay, red, stiff, dry	
					sand, reddish brown, fine to coarse grain, loose, gravel and cobbles up to 5"	
					sand, orangish tan, fine grain, loose dry	



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INTERVAL (FT)				PENETRATION	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. <div>Corrected FID (ppm):</div>
RECOVERY (%)				TEST		
#/TYPE				RESULTS		
				6"-6"-6"-6" (N)		
75						
					sandy clay, orange, stiff, fine grain, dry to damp	0.0
					sand orange, fine to medium grain, loose, damp to we	
80		100				
					sand, orange, fine to coarse grain, loose, saturated	
85					clayey sand, orange, fine to coarse grain, sticky, saturated	
					silty clay, orange with grey, stiff, damp	
90		100				0.0
					clay sand, orange, fine to medium grain, wet with grey cla	
95					silty clay, dark grey, massive damp	
					Boring terminated at 97-feet	
100						
105						
110						