



PROJECT NUMBER 170039	BORING NUMBER MW-114
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 : 04/23/2002 END: 04/30/2002 LOGGER : Mike Karafa

DEPTH BELOW SURFACE (FT)				STANDARD PENETRATION TEST RESULTS		SOIL DESCRIPTION		COMMENTS	
DEPTH (FT)	INTERVAL (FT)		#/TYPE	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.	Corrected FID (ppm): <i>(Soil headspace)</i>		
	RECOVERY (%)								
5	100				Asphalt and gravel				
					Silt, brown, stiff, damp, (loess)			6.1	
10	100							0.0	
					Same as above, Silt			7.1	
15								0.0	
20	100							0.0	
					Sand, orange, loose, fine grained, well sorted, dry			0.0	
25					Silty Sand, red, fine to coarse grained, poorly sorted, stiff, dry			6.2	
30	100							6.3	
35					Sand, reddish orange, fine grained, well sorted, loose, dry				



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		#/TYPE							
								Corrected FID (ppm):	
								0.0	
								0.0	
						Sand, yellow to orange, fine to coarse grained, loose, dry, pebbles		0.0	
								0.0	
						Sand, orange, fine grained, well sorted, loose, dry		0.0	
						Sand, white, fine grained, loose, well sorted		0.0	
						Sand, orange, fine to coarse grained, poorly sorted, gravel, < 1 inch diameter		0.0	
						Same as above, except gravel <0.75 inch diameter		0.0	
								0.0	
						Sand, orange, fine to coarse grained, poorly sorted, loose		0.0	
								0.0	
						Sand, yellowish orange to tan, fine grained, loose, dry, well sorted		0.0	
								0.0	
						Silty Sand, brown		0.0	



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	INTERVAL (FT)		RECOVERY (%)	#/TYPE	PENETRATION TEST RESULTS 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. Corrected FID (ppm):
75						Sand, white to yellowish orange, fine grained, loose, dry	0.0
80		100				Sand, yellow to tan, fine to coarse grained, loose, dry to damp, gravel, pebble to cobble	0.0
85						Sand, white to orange, fine grained, loose, dry	1.2
90		100				Sand, orange, medium to coarse grained, poorly sorted, gravel	0.0
95						Sand, fine to medium grained, poorly sorted, gravel, loose, wet	Watertable @ approximately 96 feet bgs
						Sand, white, fine grained, well sorted, loose, wet	
100		100				Sand, orange, fine to medium grained, poorly sorted, loose, gravel, pebbles to cobbles, subangular, we	
						Clay, some silt, orange and gray mottling, stiff, massive	
105						Boring Terminated @ 105 feet bgs	
110							