



PROJECT NUMBER 170039	BORING NUMBER MW-122
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 : 05/04/2002 END: 05/04/2002 LOGGER : Bryan Burkingstock

DEPTH BELOW SURFACE (FT)				STANDARD		SOIL DESCRIPTION		COMMENTS	
	INTERVAL (FT)		RECOVERY (%)	#/TYPE	PENETRATION TEST RESULTS 6"-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):	
								(Soil headspace)	
						Gravel (parking lot)			
						Silt, brown, moist, (loess)			0.0
									0.0
						Silt, brown, moist, (loess)			0.0
									0.0
									0.0
						Silt, brown, moist, (loess)			0.0
						Sandy Clay, reddish brown with red and gray mottles, moist, fine grained, stiff			0.0
						Color grading from tan to brownish red to orange, red Increase fine grained sand with depth			
						Clayey Sand, orange to dark red, fine grained, well sorted, moist, firm			0.0
						Sand with gravel, orange to dark red, medium grained, well sorted, moist, loose, pebbles (<10%), subangular, <0.25 inches diameter			



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RECOVERY (%)				TEST			
#/TYPE				RESULTS			
				6"-6"-6" (N)		Corrected FID (ppm):	
40	100					Driller's sample bag: 22.0 Ziplock: 0.0	
					Clay, pink with light gray sandy clay inclusions, dense, massive, moist		
					Gravelly Sand, tan, fine grained, well sorted, moist, loose, pebbles (<10%), <0.25 inch diameter, subangular	Driller's sample bag: 217.0 Ziplock: 0.0	
					Sand, light yellow, well sorted, fine grained, loose		
					Gravelly Sand, brownish yellow to light yellow, fine to coarse grained, poorly sorted, loose, moist, pebbles (<20%), <0.5 inches diameter, subangular		
						Driller's sample bag: 245.0 Ziplock: 0.0	
					Same as above, Gravelly Sand	Driller's sample bag: 231.0 Ziplock: 0.0	
					Same as above, Gravelly Sand	Driller's sample bag: 183.0 Ziplock: 0.0	
60	100				Sand, brownish yellow, medium grained, well sorted, moist, loose	Driller's sample bag: 169.0 Ziplock: 0.0	
65							Driller's sample bag: 158.0 Ziplock: 0.0
70	100				Same as above, Sand		
					Gravelly Sand, brownish yellow, fine to coarse grained, poorly sorted, pebbles (<20%) <1 inch diameter, subangular, moist, loose	Driller's sample bag: 160.0 Ziplock: 0.0	



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	RECOVERY (%)			TEST		
				RESULTS		
				6"-6"-6"-6" (N)		
75					Same as above, some gravel 2 inches in diameter	Driller's sample bag: 186.0 Ziplock: 0.0
80						
85						
90					Same as above, Gravelly Sand	Driller's sample bag: 121.0 Ziplock: 0.0
95						
100						
105						Driller's sample bag: 111.0 Ziplock: 0.0
110						
						Watertable @ approximately 93 feet b