



PROJECT NUMBER 170039	BORING NUMBER MW-118
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: 05/01/2002 LOGGER : Bryan Burkingstock

DEPTH BELOW SURFACE (FT)				STANDARD	SOIL DESCRIPTION	COMMENTS
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.
RECOVERY (%)				TEST RESULTS		
#/TYPE				6"-6"-6" (N)		
					Gravel (parking lot)	Corrected FID (ppm): (Soil headspace)
5					Silt, brown, moist, (loess)	0.0
10					Silt, brown, moist, (loess)	0.0
15						0.0
20					Silt, brown, moist, (loess)	0.0
25					Sandy Clay, reddish brown with red and gray mottles, moist, fine grained, stiff	0.0
30					Clayey Sand, orange to dark red, fine grained, well sorted, moist, firm	0.0
35					Sand with gravel, orange to dark red, medium grained, well sorted, moist, loose, pebbles (<10%), subangular, <0.25 inches diameter	Driller's sample bag: 42.0 Ziplock: 0.0
					Clay, pink with light gray sandy clay inclusions, dense, massive, moist	



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INTERVAL (FT)				TEST RESULTS		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.	
RECOVERY (%)				6"-6"-6" (N)					
#/TYPE								Corrected FID (ppm):	
40	100					Same as above, Clay		Driller's sample bag:	161.0
								Ziplock:	0.0
						Gravelly Sand, tan, fine grained, well sorted, moist, loose, pebbles (<10%), <0.25 inch diameter, subangular			
						Sand, light yellow, well sorted, fine grained, loose		Driller's sample bag:	245.0
								Ziplock:	0.0
						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:	250.0
								Ziplock:	0.0
						Same as above, Gravelly Sand		Driller's sample bag:	241.0
								Ziplock:	0.0
45	100					Same as above, Gravelly Sand		Driller's sample bag:	160.0
								Ziplock:	0.0
						Sand, brownish yellow, medium grained, well sorted, moist, loose		Driller's sample bag:	138.0
								Ziplock:	0.0
						Same as above, Sand		Driller's sample bag:	144.0
								Ziplock:	0.0
								Driller's sample bag:	174.0
								Ziplock:	0.0



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				TEST		
				RESULTS		
		6"-6"-6" (N)				
#/TYPE						Corrected FID (ppm):
75					Gravelly Sand, brownish yellow, fine to coarse grained, poorly sorted, pebbles (<20%) <1 inch diameter, subangular, mois	
					Same as above, some gravel 2 inches in diameter	Driller's sample bag: 194.0 Ziplock: 0.0
80		100				Driller's sample bag: 182.0 Ziplock: 0.0
						Driller's sample bag: 119.0 Ziplock: 0.0
85						Driller's sample bag: 72.0 Ziplock: 0.0
					Same as above, Gravelly Sand	Watertable @ approximately 93 feet bgs
90		100				
95						
		100				
100					Boring Terminated @ 101 feet bgs	
105						
110						