



PROJECT NUMBER <b>160492.SA.03</b>	BORING NUMBER <b>MW-96</b>
<b>SOIL BORING LOG</b>	

PROJECT : Long Term Operational Areas - Memphis Depot LOCATION : Memphis, Tennessee  
 ELEVATION : 289.02 feet MSL (TOC); 289.67 feet MSL (ground) DRILLING CONTRACTOR : Tri-State Testing Services, Inc.  
 DRILLING METHOD AND EQUIPMENT USED : Hollow Stem Auger 4.25 inch ID with CME Sampler  
 WATER LEVELS : 83.02 feet BTOC (11/2001) START : 09/27/2001 END: 09/28/2001 LOGGER : Jay Parker (Jacobs)

DEPTH BELOW SURFACE (FT)				STANDARD	SOIL DESCRIPTION	COMMENTS
	INTERVAL (FT)	RECOVERY (%)	#/TYPE	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.
				TEST RESULTS		
				6"-6"-6" (N)		
5 10 15 20 25 30 35	100		Used hollow-stem auger drilling method no penetration test results	Clayey SILT, reddish brown 5YR 4/3, damp, stiff, organics		Corrected FID (ppm): <b>(Soil headspace)</b>
				Same as above, no organics, some gray mottles in places		0.0
	75					0.0
				Same as above, dry, more gray mottles, slightly more silt content		
	100					0.0
				Same as above to 13.5		
	75			SAND, reddish brown 2.5 YR 4/4 with light reddishbrown mottles, damp, loose, fine		0.0
				SILTY SAND, light red, 2.5 YR 6/6, med, loose, moist to wet.		
	100					0.0
				SAND, light red, 2.5YR6/6, medium grained, loose, moist to wet		
	55			4 inches of CLAY		0.0
				SAND, reddish yellow 7.5YR 6/8, fine, loose, dry		
30	50		SAND, as above, with interbeds of dense, hard clay.			
			CLAY, dense, followed by a thin layer of SAND			
			CLAY, dense			
			SAND, same as above			
			CLAY - 4" thick, dense			
35	50		SAND, same as above		0.0	
			SAND, reddish yellow 7.5YR 6/6, fine to med, loose, damp, trace pebbles			
	50				0.0	



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			TEST RESULTS			
		#/TYPE	6"-6"-6"-6" (N)			
40		100	Used hollow-stem auger drilling method no penetration test results	Gravelly SAND, strong brown 7.5YR 5/8, fine to med to coarse, subangular gravel, gravel 100% SAND, reddish yellow 2.5YR 6/8	0.0	
45		100		Fine, loose, moist SAND, yellow 10YR 7/8, fine, loose, damp to dry	0.0	
50		90		Same as above, brownish yellow 10YR 6/6	0.0	
55		90		CLAY, pale yellow 2.5Y 7/4, plastic, soft, damp. Clay was at end of shoe - 6" CLAY as above to 54.5	0.0	
60		75		SAND, strong brown 7.5YR 5/6, med to coarse, loosemoist to wet, trace pebbles	0.4	
65		75		Pebbly SAND, very pale brown 10YR 7/4, med to coarse, pebbles and trace gravel, subangular, loose, moist.	Sample collected for VOCs	
70		100		Wet SAND at 62 and 62.5 feet Same as above, wet, some thin interbedded Clays, very coarse sand and rounded pea gravels		
				Sand becomes finer with pebbles rounded, moist SAND pale yellow 2.5Y 8/2, fine, loose, dry		
				Same as above, brownish yellow 10YR 6/6		



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DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (%)	#/TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	SOIL DESCRIPTION	COMMENTS
					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		85		Used hollow-stem auger drilling method, no penetration test results	SAND, same as above	
					CLAY layer - 4"	
					Grades to med sand; same as above, pale yellow 25Y 8/3, fine, loose, dry.	
80		100				
					Becomes wet @ 82.5 feet	Sample collected for VOCs
					SAND as above, grading coarser, med to coarse, saturated	Water Table
85		50				
					SAND as above, saturated, med to coarse	Sample collected for TOC
90		50				
					Same as above	
95		60			CLAY, olive yellow 2.5Y 6/8, lastic, moist	
					Same yellow clay, then the rest is gray clay with black bands	
100		100				
					BORING TERMINATED @ 103 FEET BGS.	
105						
110						