



PROJECT NUMBER 160492.SA.03	BORING NUMBER MW-97
SOIL BORING LOG	

PROJECT : Long Term Operational Areas - Memphis Depot LOCATION : Memphis, Tennessee
 ELEVATION : 297.44 feet MSL (TOC); 297.70 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 : 101.25 feet BTOC (11/2001) START : 10/01/2001 END: 10/03/2001 LOGGER : Adam Kaiser (Jacobs)

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"-6" (N)			
5	100			Used hollow-stem auger drilling method no penetration test results	Asphalt	Corrected FID (ppm): (Soil headspace)	
					Clayey SILT, brown, dry, stiff		0.0
					SILT, brown		
10	100				SILT, brown	0.0	
15	100				SILT, brown	0.0	
20	100				SILT, brown	1.9	
25	100				SILT, brown	1.2	
30	100				SILT, brown	2.4	
35	70				SILT, brown		
35	70				SAND, red, coarse, dense, damp, some gravel, 10% 1/4" to 1/2", more gravel 50% 1/2" to 2"		
35	70				SAND, red, med coarse, dense, damp, no gravel	1.8	
35	70				SAND, reddish/orange, med, med dense, damp, small gravel 5 to 10% 1/4"	2.5	



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DEPTH BELOW SURFACE (FT)				STANDARD PENETRATION TEST RESULTS	SOIL DESCRIPTION	COMMENTS
INTERVAL (FT)				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.
RECOVERY (%)			#/TYPE			
40	70			Used hollow-stem auger drilling method, no penetration test results	SAND, reddish/tan med/fine, loose, damp, no gravel	4.1
45	95				Same as above, med dense tan-reddish <5% small gravel - 1/4"	0.7
50	98				SILTY SAND, tan/red, firm, damp	
55	90				SAND, tan, med coarse, loose, damp	2.0
60	95				6" CLAY, gray/red, stiff, damp	
65	95				SAND, red, med, med dense, damp, small gravel >5% - 1/4"	
70	100				SAND, reddish/tan, med fine, med dense, damp	2.1
					SAND, medium to coarse grained	
					SILTY SAND, red, med coarse, medium, damp	0.2
					SAND, red, coarse, med, damp	
					SAND, tan, coarse, med damp to 20% gravel 1/4 to 3/4" rounded	1.8
					SAND, tan, fine, loose, damp, no gravel	2.0
					7" CLAY, grey, stiff, damp	



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WATER LEVEL: 101.25 feet TOC (1/1/2007) START: 10/01/2007 END: 10/03/2007				LOGGER: Adam Kaiser (jacobs)			
DEPTH BELOW SURFACE (FT)				SOIL DESCRIPTION		COMMENTS	
	INTERVAL (FT)		#/TYPE	STANDARD 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.	
	RECOVERY (%)					Corrected FID (ppm):	
75		95		Used hollow-stem auger drilling method no penetration test results	SAND, grey, fine, lloose, damp	1.3	
					6" CLAY, grey, firm, damp		
80		100			SAND, grey and red, fine, loose, damp	0.0	
					8" SILTY CLAY, tan, firm, damp, plastic		
85		100			SAND, tan, med fine, loose, damp, med coarse	1.3	
					SAND, tan, med fine, loose, damp, med coarse		
90		95			SAND, tan/red, fine, med dense, damp, some silt	2.3	
					10" SILTY CLAY, grey, soft, plastic		
95		100			SAND, tan/red, med fine, med dense, damp, wet	1.8	
					SAND, tan, fine, saturated		Sample collected for VOCs
100		85			SAND, tan, fine, saturated		Water Table
					SAND, tan, fine, saturated		
105		30			SAND, tan, fine, saturated		Sample collected for TOC
					SAND, tan, fine, saturated		
110		50			SAND, tan, medium, saturated		



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						Corrected FID (ppm):
115		75		Used hollow-stem auger drilling method no penetration test results	SAND, tan, medium, saturated	
120		100			CLAY, brown, very hard, dry	
125					BORING TERMINATED @ 123 FEET BGS.	
130						
135						
140						