



PROJECT NUMBER 160492.SA.03	BORING NUMBER MW-104
SOIL BORING LOG	

PROJECT : Long Term Operational Areas - Memphis Depot LOCATION : Memphis, Tennessee
 ELEVATION : 295.76 feet MSL (TOC); 296.13 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 : 63.01 feet BTOC (11/2001) START : 10/15/2001 END: 10/16/2001 LOGGER : Jay Parker (Jacobs)

DEPTH BELOW SURFACE (FT)				STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	SOIL DESCRIPTION	COMMENTS
	INTERVAL (FT)	RECOVERY (%)	#/TYPE			DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. Corrected FID (ppm): (Soil headspace)
5	100			Used hollow-stem auger drilling method no penetration test results	6" Asphalt and gravel CLAYEY Silt, drown 7.5 YR 4/3, medium stiff, non-plastic, damp	0.5
	100				Clayey SILT, brown 7.5 YR 4/5 with pinkish-grey 7.5YR 6/2 mottles, medium, stiff, non-plastic, dry	0.0
10	100				Clayey SILT, brown 7.5YR 4/5, medium stiff, non-plastic, dry	0.0
	100				Clayey SILT, same as above, damp	0.0
15	100				Clayey SILT, mottled again as the 3-8' zone, with reddish black slumps of FeOx, medium stiff, damp, more clay content than above, outside of sample wet.	0.0
20	100				Clayey SILT, same as above, grading to silty sanc	JEG @ 23 feet Perched water
25	100				Silty SAND, reddish brown 2.5YR, 4/4 moist, soft/medium dense, grading sandier with depth.	0.0
30	50				SAND, very pale brown 10YR 7/4, loose, dry, fine, well sorted.	0.0
	50				SAND, same as above	
35	50				SAND, 5 YR 5/8 yellowish red, fine to medium, loose, damp, three gravel	0.0



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DEPTH BELOW SURFACE (FT)				STANDARD PENETRATION TEST RESULTS	SOIL DESCRIPTION	COMMENTS
	INTERVAL (FT)	RECOVERY (%)	#/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):
40				Used hollow-stem auger drilling method no penetration test results	SAND, same as above, grading to SAND 5YR 5/8 yellowish red, medium, loose, damp, no gravel.	0.0
					SAND, as above, trace gravel	
45					SAND, moist to wet	0.0
					SAND, as above, trace gravel grades away by 48	
50						0.0
					SAND, 5YR 5/6 yellowish red, medium to coarse, well sorted, loose damp.	
55						0.0
					At 57' CLAY, yellowish red, with yellow mottles, very plastic, soft, damp.	
60					Clay continues to 59' SAND same as above SAND turns to yellow, fine, wet	0.0
					SAND, fine, wet seam ~1"	
					SAND, 5YR 5/6 yellowish red, medium to coarse, saturated, medium dense.	Sample collected for VOCs Water Table Sample collected for TOC
65					Sandy Silt, very fine, dense, join clay, slightly plastic	
					SAND, same color, fine, loose, saturated.	
					SAND as above grading to Pebbly SAND	
70					Pebbly SAND, yellowish-red, coarse, loose, rounded to subrounded fine gravel, saturated	Saturated sample lost out bottom.
					No sample recovered, probably same loose, saturated, pebbly SAND as above.	



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75		0		Used hollow-stem auger drilling method, no penetration test results		
					No sample, may 5% finer sand in sampler, saturated	
80		5			No sample again, race clay at end at 88'	
85		5			Sand and gravel as above at 90.5'	
90		100			CLAY, dark greenish, gray, CLAY 4/1, very dense/stiff, damp	
95					BORING TERMINATED @ 93 FEET BGS.	
100						
105						
110						