



PROJECT NUMBER 160492.SA.03	BORING NUMBER MW-107
SOIL BORING LOG	

PROJECT : Long Term Operational Areas - Memphis Depot LOCATION : Memphis, Tennessee
 ELEVATION : 304.92 feet MSL (TOC); 305.18 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 : 114.43 feet BTOC (11/2001) START : 10/17/2001 END: 10/18/2001 LOGGER : Jay Parker (Jacobs)

DEPTH BELOW SURFACE (FT)				STANDARD	SOIL DESCRIPTION	COMMENTS
	INTERVAL (FT)		#/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.
	RECOVERY (%)			TEST		
				RESULTS		
				6"-6"-6"-6" (N)		Corrected FID (ppm): (Soil headspace)
5		100	Used hollow-stem auger drilling method no penetration test results		Fill, Clayey SILT, brown, non-plastic, damp, 3.5' to 4.5' some CLAY, gray, slightly plastic, damp, medium stiff.	0.6
					Clayey SILT, dark yellowish brown, 10YR 4/4, slightly more clay than above, medium stiff, slightly plastic.	0.5
10		100				
15						
					Clayey SILT, same as above, dark yellowish brown 4/6, more silty than above medium stiff, damp	1.6
20						4.8
		100				JEG @ 23 feet Perched water
25						3.1
					Clayey SILT, same as above to 28'	
30						1.1
		100				
35					SANDY SILT, brown 7.5YR 4/4, soft medium plastic, damp to moist grading coarser with depth	0.6
					SILTY SAND, now color change, very fine to fine, medium dense/soft moist, slightly plastic	



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DEPTH BELOW SURFACE (FT)				STANDARD PENETRATION TEST RESULTS		SOIL DESCRIPTION		COMMENTS	
INTERVAL (FT)		RECOVERY (%)		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.	
		#/TYPE		6"-6"-6"-6" (N)					
				Used hollow-stem auger drilling method no penetration test results				Corrected FID (ppm):	
40		100				SAND, strong brown 7.5YR 5/8, loose, very vine to fine, dry, become somewhat redder and damp at 47".		0.0	
45								2.5' intervals	
								1.3	
50		100				Gravelly SAND, strong brown 7.5YR 5/6, fine to coarse, pebbles to the gravel ~15%, loose, waist.		0.0	
55						SAND, strong brown, fine to medium, some pebbles loose, damp, grade finder with depth		3.1	
						SAND, fine to very fine, no gravel			
60		100				SAND, reddish yellow 7.5YR 6/8, fine, loose, dry, trace pebbles, grading coarser to fine to medium at 60' and color change to 10YR 7/6 yellow, grades back to 1st color, medium, more gravel 5% to 10%, up to 2" in size, sub angular grave		0.0	
65								0.4	
70		100				Gravelly SAND, yellow 10YR 7/6 fine to medium, loose, dry		0.0	



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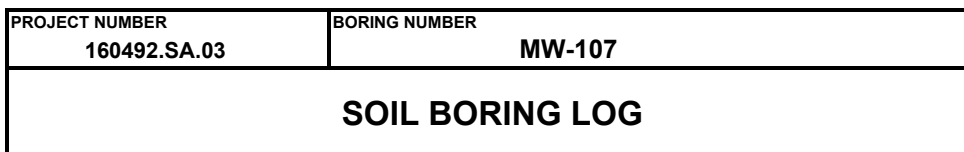
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	INTERVAL (FT)			PENETRATION	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION.
	RECOVERY (%)	#/TYPE	TEST RESULTS			
			6"-6"-6" (N)			
75				Used hollow-stem auger drilling method no penetration test results	Gravelly SAND, medium, moist to wet	2.7
80					Same as above, gravelly zones, loose, damp to wet	0.0
85						1.4
90					Gravelly SAND, same as above, some coarser sand zones, damp to moist.	0.6
95						5.1
100					Gravelly SAND, same as above	4.8
105						0.4
110					Gravelly SAND, same as above	1.8



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	RECOVERY (%)								
100				Used hollow-stem auger drilling method no penetration test results					
115						Sandy GRAVEL, loose same color matrix, gravel subangular up to 2"	Water Table	2.1	
120						Sandy GRAVEL, same as above		3.1	
125						Δ H ₂ O - Sand starts SAND, yellow 2.5YR 7/8, very fine to fine, loose, well sorted, no gravel, moist to wet SAND, same as above. SAND, yellow, very fine to fine, loose, well sorted, wet.	Sample collected for VOCs	1.7	
130									
135						SAND as above, no change.			
140									



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DRILLING METHOD AND EQUIPMENT USED :	Hollow Stem Auger 4.25 inch ID with CME Sampler		
WATER LEVELS :	114.43 feet BTOC (11/2001)	START :	10/17/2001
		END :	10/18/2001
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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		
#/TYPE				RESULTS		
				6"-6"-6"-6" (N)		Corrected FID (ppm):
145				Used hollow-stem auger drilling method no penetration test results	SAND as above	Sample collected for TOC
150						
155						
160					CLAY 2.8YR 6/3 light yellowish brown, hard, damp, very plastic, grading with depth to greenish gray, CLAY 5/1.	
165						
BORING TERMINATED @ 167 FEET BGS.						