



PROJECT NUMBER 160492.SA.03	BORING NUMBER MW-94
SOIL BORING LOG	

PROJECT : Long Term Operational Areas - Memphis Depot LOCATION : Memphis, Tennessee
 ELEVATION : 296.94 feet MSL (TOC); 296.95 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 : 107.07 feet BTOC (11/2001) START : 09/25/2001 END: 09/27/2001 LOGGER : Jay Parker (Jacobs)

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						Corrected FID (ppm): (Soil headspace)
5	100			Used hollow-stem auger drilling method no penetration test results	6" gravel Clayey SILT, reddish brown 5YR 4/4, dry, stiff	0.0
					Silt, same as above, med stiff	0.0
	100					
					Silty CLAY, strong brown 7.5YR 4/6, moist, soft	0.0
	100					
					Silty CLAY, strong brown 7.5YR 4/6, med stiff, damp	0.0
	100					
					Same as above	0.0
	100					
					Same as above, slightly more clay content, slightly plastic, med stiff	0.0
30					Silty SAND, red 2.5 YR 5/8, very fine, withlight reddish gray mottles, 2.5 YR 7/1, damp, loose	0.0
	80					
					SAND, yellowish red 5YR 5/6 fine, very loose, damp, grading coarser to med sand and reddish yellow 7.5 YR 7/6 by 38'	0.0
35						0.0
	65					



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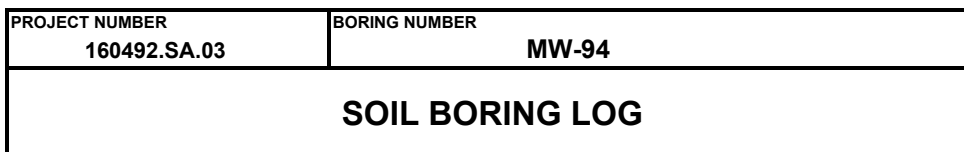
DEPTH BELOW SURFACE (FT)				STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	SOIL DESCRIPTION	COMMENTS
INTERVAL (FT)						
RECOVERY (%)						
#/TYPE						
						DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION.
						Corrected FID (ppm):
40		60		Used hollow-stem auger drilling method no penetration test results	SAND as above, reddish yellow 7.5 YR 7/6, med, very loose, dry	0.0
45		50			Gravelly SAND as above, with gravel and pebbles 50% mix. Sample was only from 45.5 to 48 due to problems with rig. Becomes a pebbly SAND, 7.5YR 4/6, dry, loose	0.0
50		100			Pebbly SAND as above to 49.5 feet. Sharp change to SAND, yellow 10YR 7/6, fine very loose, dry	0.0
55		100			Grades to brownish yellow, SAND, yellow 10YR 7/8, med to fine, well sorted, very loose dry	0.0
					Grades coarser sand to 58 feet	0.0
					Pebbles at 57 to 58 feet	
60		90			Gravelly SAND, as above, yellow 10YR 7/6, med to coarse, pebbles 40%, loose, damp	0.0
65		90			Grades down to pebbles, no gravel	0.0
					As above to 65.5, moist. Gravel replaces pebbles, rounded to subrounded, loose, damp	0.0
70		65			Gravelly SAND, strong brown 7.5YR 5/8, Coarse, loose, damp, gravel approx. 10% of matrix, few pebbles.	0.0
					Grades to a SAND, very pale brown, 10YR 8/2, fine, loose, dry Same fine sand as above, yellow 10YR 7/6	



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WATER LEVEL: 107.07 feet BTOC (1/1/2007) START: 09/29/2007 END: 09/27/2007 LOGGERS: Jay Parker (jacobs)						
DEPTH BELOW SURFACE (FT)	INTERVAL (FT)			STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	SOIL DESCRIPTION	COMMENTS
		RECOVERY (%)				
		#/TYPE				
75			90	Used hollow-stem auger drilling method no penetration test results	Silty CLAY, brownish yellow 10YR 6/8 plastic, fine, soft, damp to moist, 1" thick SAND, yellow 10YR 7/6, fine, loose, dry, some gravel, subrounded Grading to brownish yellow 10YR 6/8 and no gravel, damp to moist Same as above with gravel 1 inch clay band, no water above No gravel as above SAND, pale yellow 2.5Y 8/2 fine, loose, dry, some subrounded gravels Same as above, damp Gravelly SAND, yellow 10YR 7/6, fine, loose, dry, 20% gravel Less gravelly; SAND, pale yellow 2.5Y 8/2, fine, well sorted, loose, dry Wet, mixed coarse sand Same as above, saturated Silty CLAY, olive yellow 2.5Y 6/8 stiff, starting at 110.7'	0.0
80			90			0.0
85			100			0.0
90			100			0.0
95			75			0.0
100			65			0.0
105			75			0.0
110			100			0.0
						Water Table Sample collected for VOCs
						Sample collected for TOC



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DRILLING METHOD AND EQUIPMENT USED :	Hollow Stem Auger 4.25 inch ID with CME Sampler		
WATER LEVELS :	107.07 feet BTOC (11/2001)	START :	09/25/2001
		END :	09/27/2001
		LOGGER :	Jay Parker (Jacobs)

WATER LEVEL: 107.07 feet BGS (11/2007) START: 09/29/2007 END: 09/27/2007 LOGGER: Jay Parker (jacobs)				STANDARD		SOIL DESCRIPTION		COMMENTS	
DEPTH BELOW SURFACE (FT)		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)					
115		100		Used hollow-stem auger drilling method no penetration test results		Clay, grey, stiff Clay as above			
120						BORING TERMINATED @ 118 FEET BGS.			
125									
130									
135									
140									