



PROJECT NUMBER 160492.SA.03	BORING NUMBER MW-88
SOIL BORING LOG	

PROJECT : Long Term Operational Areas - Memphis Depot LOCATION : Memphis, Tennessee
 ELEVATION : 305.15 feet MSL (TOC); 305.47 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 : 80.98 feet BTOC (11/2001) START : 09/20/2001 END: 09/21/2001 LOGGER : Jay Parker (Jacobs)

DEPTH BELOW SURFACE (FT)				STANDARD	SOIL DESCRIPTION	COMMENTS
	INTERVAL (FT)	RECOVERY (%)		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.
		#	TYPE	TEST		
				RESULTS		
				6"-6"-6"-6" (N)		Corrected FID (ppm): (Soil headspace)
				Used hollow-stem auger drilling method no penetration test results	One foot blacktop and gravel	
		100			CLAYEY SILT, (10YR4/4) dark yellowish brown, moist, damp	
5					CLAYEY SILT, same as above	
		100				
					CLAYEY SILT, same as above, increase in SILT	
10						
		100				
					SILT, (10YR5/6) yellowish brown, damp, nonplastic	
15						
		100				
				Becoming mottled with grays @ 18 feet bgs		
20				SILTY CLAY, (10YR6/1), gray with some mottled browns, damp, slightly plastic to plastic		
		100				
				SILTY CLAY, (7.5YR4/6) same as above, strong brown mottling		
25						
		100				
				SAND, light gray 7.5/7/1, some Fe mottles; fine to med., loose, damp		
30						
		75				
				SAND, same as above until 37 feet.		
35						
		75				



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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. <div>Corrected FID (ppm):</div>
RECOVERY (%)						
#/TYPE						
40		50		Used hollow-stem auger drilling method no penetration test results	SAND, strong brown 7.5YR 5/8, very loose, dry, medium grained well sorted. Black staining in sand 1 inch thick at 37 feet to 38 feet SAND, brownish yellow 10YR 6/8. Fine, well sorted, loose, damp.	
					SAND, pale yellow, fine, well sorted, loose 2.5Y 8/4	0.0
					SAND as above @ 41 feet.	
					SAND with gravel, strong brown. 7.6YR 4/6, 30% pebbles and gravel subrounded, dry to damp, loose to firm, med. sand.	1.7
					SAND, pale yellow 2.5Y 8/2 loose, fine , dry.	
					Grades to hard red SAND	0.0
					Brown at 53 feet. Black organic P mixed throughout SAND, yellowish red 5YR 4/6 fine to med., loose 10% gravel and pebbles, dry	
					SAND, yellow 10YR 7/6, fine to med. fine, loose, dry, well sorted	0.0
					SAND, white 2.5Y 8/1, very fine to fine, well sorted, loose dry, trace subrounded to rounded gravel	0.0
					First 2.5 feet lost in recovery, but appeared to be same as above. SAND with pebbles and gravel, light yellowish brown, 2.5Y 6/4, fine to coarse loose, dry, pebble/gravel matrix at 20%	0.0
45		50				
50		100				
55		100				
60		80				
65		80				
70		40				



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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):
75		75		Used hollow-stem auger drilling method no penetration test results	SAND w/pebbles, yellowish red 5YR 4/6, fine to med., loose, pebbles rounded, pebbles <5%, dry	0.0
					Becoming wet with gravel at 78 feet Same as above to 79 feet. SAND, very fine, moist, light grey 2.5Y 7/2, loose to firr	Sample collected for VOCs
80		75			Same as above.	Water table
					SAND with gravel, light grey 2.5Y 7/2, saturated, some fines to silt	Sample collected for TOC
85		90			Same as above	
					Same as above	
90		75			Clay @ 97 feet	
					Silty clay, grey, banded with dark grey	
95		100			BORING TERMINATED @ 102.5 FEET BGS.	
100		100				
105						
110						