



PROJECT NUMBER 148071.FI.LB	BORING NUMBER SBLCA-SB-11 (MW-75)
SOIL BORING LOG	

PROJECT : Dunn Field DNAPL Investigation LOCATION : Memphis, TN
 ELEVATION : 303.61 feet MSL (TOC); 304.3 feet MSL (ground) DRILLING CONTRACTOR : Boart-Longyear
 DRILLING METHOD AND EQUIPMENT USED : Hollow Stem Auger 4.25 inch ID
 WATER LEVELS : 79.15 feet BTOC (01/2001) START : 11/07/2000 END: 11/07/2000 LOGGER : Bryan Burkingstock

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 (IN)			TEST		
				RESULTS		
				6"-6"-6"-6" (N)		Corrected FID (ppm): (Soil headspace)
				Used Continuous CME Sampler		
		23			SILT, brown Very dry and tight soil	0
5						
		60			SILT, brown, moist	0.2
10						
		53			SILT, brown, moist	15.7
15						
		60			SILT, brown, moist	0
20						
		55			SILT, brown, moist	0
25						
		60			SILT, brown, moist	380
30						
		60			SILT, brown, moist	
					Transition begins @ 31 feet bgs SANDY SILT, brown transitioning to reddish brown, fine grained	0

LEGEND

FID Flame Ionization Detector

T Time

Boxed FID results were sampled for analytical results.



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DEPTH BELOW SURFACE (FT)	INTERVAL (FT)		STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	SOIL DESCRIPTION	COMMENTS
		RECOVERY (IN)			
		#/TYPE			
40				SILTY SAND, brownish red (tan), fine grained	
				SILTY SAND, red with light gray and yellow mottles, fine grained	
		43		SAND, fine to medium grained, red With pebbles, subangular	0
45					
		32		SAND, medium to coarse grained, red With few pebbles (1/4 to 1/2 inch width), subangular	10.2
50					
		39		SAND, medium to coarse grained, red (with yellowish tint) With few pebbles (1/4 to 1 inch width), subangular	4.1
55				SAND, medium to coarse grained, reddish yellow With few pebbles, subangular	
		28		SAND, medium transitioning to fine grained, tan No pebbles	5.1
60				SAND, medium grained, tan With slight pebbles, subangular	
		30		SAND, medium to coarse grained, yellowish brown With pebbles (1/2 to 1 inch width), subangular	7.4
65					
		34		SAND, fine to coarse grained, brownish yellow, poorly sorted With few pebbles, subangular	8
70			Used Continuous CME Sampler	SAND, fine to coarse grained, brownish yellow, poorly sorted With few pebbles, subangular	
		50		SAND, fine grained, brownish yellow, well sorted, no pebbles	6.6
				SAND, fine grained, brownish yellow, well sorted, with pebbles	
75					

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11/05/2001

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DEPTH BELOW SURFACE (FT)		STANDARD		SOIL DESCRIPTION	COMMENTS
INTERVAL (FT)	RECOVERY (IN)	#/TYPE	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.
					Corrected FID (ppm):
52				SAND, medium grained, tan, well sorted, no pebbles	19.1
80				SAND, medium grained, tan, well sorted	
				SAND, medium grained, tan, well sorted	
26				SAND, medium to coarse grained, tan, well sorted	32.3
				WATER TABLE @ 81.8 FEET BGS	No FID below water table
85				SAND, medium to coarse grained, brownish yellow, wet	
				SAND, medium to coarse grained, brownish yellow, wet	
48				SAND, medium to coarse grained, brownish yellow, wet	
90				@ 89 feet bgs: four inch CLAY layer (light gray)	
				SAND, medium to coarse grained, brownish yellow, wet	
48				CLAY (@ 90.4 feet bgs) Light gray with hints of light yellow, stiff, plastic, wet	
				CLAY, light gray with hints of light yellow, stiff, plastic, wet	
95				BORING TERMINATED @ 93.5 FEET BGS.	
100					

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