PROJECT NUMBER 160492.SA.03 BORING NUMBER MW-103

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### SOIL BORING LOG

VATION :		L (TOC); 301.90 feet MSL		esting Services, Inc.
			tem Auger 4.25 inch ID with CME Sampler	LOGGER : Adam Kaiser (Jacobs)
	URFACE (FT)	OC (11/2001) START : STANDARD	10/15/2001 END: 10/16/2001 SOIL DESCRIPTION	COMMENTS
INTERV		PENETRATION	SOIL DESCRIPTION	COMMENTS
INTERV	RECOVERY (%) #/TYPE	TEST	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY,	DEPTH OF CASING, DRILLING RAT DRILLING FLUID LOSS,
		6"-6"-6"-6"	OR CONSISTENCY, SOIL STRUCTURE,	TESTS, AND INSTRUMENTATION.
		(N)	MINERALOGY.	Corrected FID (pp
l.	<u> </u>	Lised hollow-stem	Asphalt Clayey silt - Brown, hard-dry	(Soil headspac
-	!	auger		
-1	100	drilling method no penetration tes results		1.3
-i				
_	100			11.3
i	i		Clayey silt, grey, hard, dry.	
-	!			
_				
i i	85			65.4
-i				00.4
-!				
	<b>i</b>		Clayey silt, Grey, soft	
-1	<u>i</u>			
1	!			
				Sample collected for VOCs
-i	85			91.4
Ì	i l			
	1		Clayey silt brown, hard, dry	
j	i			
ļ	!			
	!			
_	100			7.1
i	i			
-1	!			
i	<b>i</b> 1		Clayey Silt-Brown, stiff, moist	
٦.	<u>i</u>			
_!	!			
1	100			2.0
i				2.0
-!	<u> </u>			
_				
1	1		Sandy silt-brown, stiff, moist	
-i	i			
_!	!			
1	100			
-	100			4.5
j	i			
Ĩ	<u>i</u>			
-!	4		Sand, reddish-tan, fine, medium dense, moist	
_				
ì	<b>i</b> 1			
	50			16.1
i i	50			16.1

PROJECT NUMBER 160492.SA.03 BORING NUMBER MW-103

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### SOIL BORING LOG

PROJEC		-		al Areas - Memphis		
				C); 301.90 feet MSL	(ground) DRILLING CONTRACTOR : Tri-State Testing Services, In tem Auger 4.25 inch ID with CME Sampler	С.
				1/2001) START :		Adam Kaiser (Jacobs)
		JRFACE (F		STANDARD	SOIL DESCRIPTION	COMMENTS
	INTERVA	L (FT) RECOVE	RY (%) #/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):
- - 40		60		Used hollow-stem auger drilling method no penetration test results	Sand, reddish tan, medium, medium dense, moist. Gravel 1/2 - 3/4" (10% - 15%.)	2.2
_ _ 45		85			Silty Sand, red, dense, moist	2.5' intervals
- - 50		60			Sand, tan, medium, medium dense moist	0.0
- - 55	<b></b>				Sand, red, medium fine, dense moist. More coarse - gravelly	2.5' intervals
         		100				
60 	<b></b>	100			Sand and small gravel (1/4 - 1/2"). Sand red, medium fine, dense moist. Sand - tan, fine, dense moist, saturated.	2.3
_ 65 _		75			Sand Red-medium, medium-dense, saturated	At 64 feet - Dup. Water at 64 feet (perched) - 0.8 -
- _ 70		50			Slity clay-gray, stiff, wet Clay-brown, stiff.	Water Table
-					Sand-red, medium coarse, medium dense - granually 20% (1/2" - 3/4") wet, satura	Sample collected for VOCs at 72 feet 2.5 intervals

PROJECT NUMBER 160492.SA.03

BORING NUMBER MW-103

### SOIL BORING LOG

	DJECT : Long Term Operational Areas - Memphis Depot LOCATION : Memphis, Tennessee   VATION : 301.35 feet MSL (TOC); 301.90 feet MSL (ground) DRILLING CONTRACTOR : Tri-State Testing Services, Inc.						
	DRILLING METHOD AND EQUIPMENT						
WATEF	RLEVELS	69.43	feet BTOC (1	1/2001) START :	10/15/2001 END: 10/16/2001 LOGGER :	Adam Kaiser (Jacobs)	
DEPTH	BELOW S	URFACE (I	FT)	STANDARD	SOIL DESCRIPTION	COMMENTS	
	INTERVA			PENETRATION			
		RECOVE		TEST	SOIL NAME, USCS GROUP SYMBOL, COLOR,	DEPTH OF CASING, DRILLING RATE,	
			#/TYPE	RESULTS	MOISTURE CONTENT, RELATIVE DENSITY,	DRILLING FLUID LOSS,	
				6"-6"-6"-6"	OR CONSISTENCY, SOIL STRUCTURE,	TESTS, AND INSTRUMENTATION.	
				(N)	MINERALOGY.	Corrected FID (ppm):	
75	1			Used hollow-stem			
	1	i		auger	Sand-red, medium coarse, medium dense - granually 20% (1/2" - 3/4") wet, satura	Sample collected for VOCs	
-	-	25		drilling method no penetration test			
_		ļ		results			
	1	i					
-	i	i					
_	ļ	ļ					
80					Sand-red, medium coarse, medium dense - granually 20% (1/2" - 3/4") wet, satura	ted	
	í	i					
-		60					
		1					
-	i	i					
-	!	!			Sand - very coarse, medium dense, saturated, small grave		
_	1	1			,		
85	i	i					
00	1	I.				-	
_		75					
	i	1					
-	Ì	Ī			Sandy silt - fine, very dense. Saturated - wet.		
-	!	ļ					
_		i					
00	İ	İ					
90	-	ļ			Clay, brown to grey, stiff to hard, dry	-	
_	1	100					
	i	i					
-	1	!					
-	<b>!</b>	-			Clay - brown, grey, stiff, hard, dry. BORING TERMINATED @ 93 FEET BGS.		
-	-				BORING TERMINATED @ 331 EET BGG.		
95						_	
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