

PROJECT NUMBER	BORING NUMBER
170039	MW-110

SOIL BORING LOG

PROJECT: EBT Treatability Study LOCATION : Memphis Depot

ELEVATION: DRILLING CONTRACTOR : Boart Longyear

DRILLING METHOD AND EQUIPMENT USED : Rotasonic rig (4 inch sample casing / 6 inch outer casing)

WATER LEVELS START: 05/03/2002 END: 05/04/2002 LOGGER: Mike Karafa DEPTH BELOW SURFACE (FT) STANDARD SOIL DESCRIPTION COMMENTS INTERVAL (FT) PENETRATION RECOVERY (%) 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. Corrected FID (ppm): (Soil headspace) (N) MINERALOGY. Asphalt and gravel Silt, brown, stiff (loess) 100 0.0 0.0 100 0.0 15 0.0 20 100 0.0 Sand, orange, fine grained, loose, dry 25 Silty Sand, red, fine to medium grained, poorly sorted, damp 1.2 30 100 0.0 35



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WATER LEVELS:

START: 05/03/2002 END: 05/04/2002

SOIL DESCRIPTIO DRILLING CONTRACTOR : Boart Longyear

05/04/2002 LOGGER: Mike Karafa

DEPTH E	-		STANDARD	SOIL DESCRIPTION	COMMENTS	
			PENETRATION			
			TEST	SOIL NAME, USCS GROUP SYMBOL, COLOR,	DEPTH OF CASING, DRILLING RATE,	
			#/TYPE	RESULTS	MOISTURE CONTENT, RELATIVE DENSITY,	DRILLING FLUID LOSS,
			6"-6"-6"	OR CONSISTENCY, SOIL STRUCTURE,	TESTS, AND INSTRUMENTATION.	
				(N)	MINERALOGY.	Corrected FID (ppm):
				(11)	Sand, yellow and orange, fine to coarse grained, poorly sorted, loose, dry	обпессе тъ (ррпі).
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45						
	i 1	i			Silty Sand, some clay, brown, soft, fine to medium grained, poorly sorted, damp	
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_	!	!			Sand, orange, fine to coarse grained, poorly sorted, loose, dry, grave	
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50		l				
	<u> </u>				Sand, tan to white, fine to medium grained, poorly sorted, loose, dry	
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	i					
-	i i	100			Sand tan to orange fine to coarse grained poorly corted loose grayel day	0.7
					Sand, tan to orange, fine to coarse grained, poorly sorted, loose, gravel, dry, pebbles to small cobbles	
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55	! !———					
		!			Sand, orange, fine to medium grained, poorly sorted, loose, dry	
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	<u> </u>	100				0.5
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60	i——-	ĺ			Sand, white and tan, fine to coarse grained, poorly sorted, gravel, pebble,	
					subangular, damp	
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65	<u> </u>				Sand, white, fine grained, well sorted, loose, dry	
"-	!	!			Sand, tan to orange, fine grained, well sorted, dry	
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-	i	i				
	<u> </u>					14.4
I -						
-] 				Silty Clay, gray, black and orange layering, fine grained, stiff, dry	
70		100			onty oray, gray, black and brange layering, inte granted, still, dry	
I '	i					
_	l i	<u> </u>				
	<u> </u>				Sand, white to orange, fine grained, well sorted, loose dry	
-						
I _					0.0	
I -				Silty Clay, some sand, tan, stiff, dry		
Щ_	_i i l				Sand, orange, fine grained, loose dry	



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DRILLING METHOD AND EQUIPMENT USED: Rotasonic rig (4 inch sample casing / 6 inch outer casing)
WATER LEVELS: START: 05/03/2002 END: 05/04/2002 DRILLING CONTRACTOR : Boart Longyear

LOGGER: Mike Karafa

NTERVAL (FT) RECOVERY (S) RATURE TEST SOLI NAME USCS GROUP SYMBOL. COLOR, MOISTURE CONTENT, RELATIVE DENSITY, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. 75	WATER LEVELS :			START:	05/03/2002	END:	05/04/2002	LOGGER :	Mike Karafa
PREDUCESTY (N) PTYPE RESULTS R	DEPTH BELOW SURFACE (FT)			STANDARD		SOI	L DESCRIPTION		COMMENTS
PREDUCESTY (N) PTYPE RESULTS R									
### ADDITURE CONTENT, RELATIVE DEVISITY, 0					SOIL NAME LISCS GRO	OLIP SYMBO	COLOR		DEPTH OF CASING DRILLING PATE
75 - 100 PS-9-97 PROPOSEDOY SOIL STRUCTURE. 76 - 100 PS-9-97 PRO CONSESTENCY SOIL STRUCTURE. Sand, yellow to tan, fine grained, well sorted, loose, dry Sand, white to tan, fine to coarse grained, poorly sorted, gravel, dry Siny Clay, ten, fine grained, self, well, gravel Siny Clay, ten, fine grained, aslif, well, gravel 100 PS-95 PS-9				1					
Sand, white to tan, fine grained, self, wet, gravet 100 85 - 100 86 - 100 87 - 100 88 - 100			#/116						
Sand, white to tan, fine grained, well sorted, loose, dry Sand, white to tan, fine grained, stiff, wet, gravet 100 Sity Clay, tan, fine grained, stiff, wet, gravet Sand, time grained, stiff, wet, gravet Sand, time grained, stiff, wet, gravet 30.0 Sand, white to tan, fine grained, stiff, wet, gravet 0.0 Sand, white to tan, fine grained, dry Sand, white to tan, fine grained, dry Sand, white to tan, fine grained, dry Sand, white, fine grained, wet scried, loose, wet gravet Sand, white, fine grained, wet scried, loose, wet gravet Sand, white, fine grained, wet scried, loose, wet gravet Sand, white, fine grained, wet scried, loose, wet gravet Sand, white, fine grained, wet scried, loose, wet gravet Sand, white, fine grained, wet scried, loose, wet gravet Clay, some sell, gray with orange motiting, sliff, wet, massavy Clay, some sell, gray with orange motiting, sliff, wet, massavy Clay, some sell, gray with orange motiting, sliff, wet, massavy						IL STRUCTU	KE,		
Sand, white to tan, fine to coarse grained, poorly sorted, gravet, dry Sand, white to tan, fine to coarse grained, poorly sorted, gravet, dry Sity Clay, tan, fine grained, stiff, wet, gravet O.5 Sand, fine grained, stiff, wet, gravet Sand, white to tan, loose, fine grained, dry Sand, white to tan, loose, fine grained, poorly sorted, loose, gravet, peoble to cooline Sand, white, fine grained, well sorted, loose, wet gravet Sand, white, fine grained, well sorted, loose, wet gravet Sand, white, fine grained, well sorted, loose, wet gravet Sand, white, fine grained, well sorted, loose, wet gravet Sand, white, fine grained, we gravet percentage increasing with depth Clay, some sitt, gray with orange motiting, stiff, wet, massive Soring terminated at 155 ft bgs				(N)	MINERALOGY.				Corrected FID (ppm):
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Sand, white to tan, fine grained, stiff, wet, gravel 100 Sity Clay, tan, fine grained, stiff, wet, gravel 310 Sand, fine grained, stiff, wet, gravel 0.0 Sity Clay, tan, fine grained, stiff, wet, gravel 0.0 Sand, white to tan, loose, fine grained, dry Sand, white to tan, loose, fine grained, poorty sorted, loose, gravel, pebble to cobble Sand, white, fine grained, well sorted, loose, wet gravel Sand, white, fine grained, well sorted, loose, wet gravel Sand, white, fine grained, loose, wet gravel Sand, white, fine grained, loose, wet gravel Clay, some sitt, gray with orange mottling, stiff, wet, massiv Bioring terminated at 105 ft bgs	l <u>-</u> i i				, ,		, ,		
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Sand, white, fine grained, loose, wet gravel 100	! !				Sandy Silt, some clav.	orange, stiff	, fine grained, we		Water table @ 96.5 ft bos
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To the state of th	-j								
To the state of th	l i i								
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Boring terminated at 105 ft bgs] i i				Clay, some silt, gray wi	th orange n	nottling, stiff, wet, massi	Vŧ	
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