

PROJECT NUMBER	BORING NUMBER
170039	MW-120 (Clustered with MW-121)

## **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)

				START:	04/19/2002 END: 04/20/2002 LOGGER:	Bryan Burkingstock
			T)	STANDARD	SOIL DESCRIPTION	COMMENTS
J. 1111			PENETRATION	SOIL BLOOKII HON	COMMENTO	
		RECOVE	RY (%)	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):
					Gravel (parking lot)	(Soil headspace)
_					Silt, brown, moist, (loess)	=
_						
		100				
_						0.0
		i				
_						
5_						
_						
_						
_						0.0
		i				
-	ı	I				
10		100			Silt, brown, moist, (loess)	
l ' -		!				
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						0.0
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15						
15 —						
_						
_						
						0.0
_						0.0
_						
20	i	100				
_						
					Silt, brown, moist, (loess)	
_					Sandy Clay(some silt), tan to reddish brown, dense, moist, fine grained	
-		•				0.0
		i				
-		i				
25	i	i				
I –	1	]			Color grading from tan to brownish red to dark red	
-					Increase fine grained sand with depth	
-		!				
						0.0
ı -		•			Clayey Sand, dark red, fine grained, well sorted, moist, firm	
-		i				
30	i	100				
<sup>30</sup> –	ı	100				
I -						
-						
		!				10.0
-					Sand (slight clay), dark red, fine to medium grained, well sorted, moist, firm	
					Sana (Sign Sia), danced, into to moduli granica, won sortou, moist, iiii	
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WATER L				START:	04/19/2002 END: 04/20/2002 LOGGER:	Bryan Burkingstock
		ACE (F	T)	STANDARD	SOIL DESCRIPTION	COMMENTS
	DEPTH BELOW SURFACE (FT)  INTERVAL (FT)		,	PENETRATION		
"		COVER	27 (0/)	TEST	SOIL NAME, USCS GROUP SYMBOL, COLOR,	DEBTH OF CASING DOULING DATE
	KE		#/TYPE			DEPTH OF CASING, DRILLING RATE,
		ľ	#/IYPE	RESULTS	MOISTURE CONTENT, RELATIVE DENSITY,	DRILLING FLUID LOSS,
				6"-6"-6"	OR CONSISTENCY, SOIL STRUCTURE,	TESTS, AND INSTRUMENTATION.
				(N)	MINERALOGY.	Corrected FID (ppm):
40   40   11   11   11   11   11   11		100			Sand, tan, fine to medium grained, well sorted, pebbles (<10%), < 0.25 inch diameter  Clay, pink with light gray sandy clay inclusions, dense, massive, moist  Gravelly Sand, brownish yellow, fine to coarse grained, poorly sorted, loose, moist, pebbles (<20%), <1 inch diameter, subangular	79.0 175.0
					nooc, most, posico ( 20%), 11 mar dameta, sasangua	280.0 376.0
55		100			Same as above, Gravelly Sand	233.0
- - - 65					Same as above, Gravelly Sand	483.0
-I -I -I -I 70 _I	1 1 1	100				425.0
  -     -	]         					394.0



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WATER LEVELS :	START:	rig (4 inch sample casing / 6 inch outer casing)	LOCCED : Dr	nyon Durkingotook
DEPTH BELOW SURFACE (FT)		04/19/2002 END: 04/20/2002	LUGGER. BI	yan Burkingstock COMMENTS
	STANDARD	SOIL DESCRIPTION		COMMEN 1.2
INTERVAL (FT)  RECOVERY (%)  #/TYPE	PENETRATION TEST RESULTS 6"-6"-6"-6"	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	D	DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION.  Corrected FID (ppm):
	(N)	MINERALOGY.		Corrected FID (ppm):
75 100		Same as above, Gravelly Sand		384.0
-I I I I I I I I I I I I I I I I I I I				276.0
		Same as above, Gravelly Sand		143.0
95			w	<b>290.0</b> 'atertable @ approximately 95 feet bg
100				
105 100		Same as above, Gravelly Sand		
110_		Clay, dense, yellowish gray, massiv€		