BORING NUMBER MW-107

PROJECT :	-		al Areas - Memphis		
			C); 305.18 feet MSL	(ground) DRILLING CONTRACTOR : Tri-State Testing Services tem Auger 4.25 inch ID with CME Sampler	i, Inc.
			11/2001) START :		Jay Parker (Jacobs)
	W SURFACE (I		STANDARD	SOIL DESCRIPTION	COMMENTS
INTE	RVAL (FT)		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): (Soil headspace)
-			Used hollow-stem	Fill, Clayey SILT, brown, non-plastic, damp, 3.5' to 4.5' some CLAY, gray, slightly plastic, damp, medium stiff.	(Soli neauspace)
	i i		auger		_
-	I		drilling method no penetration test		-
_	ļ		results		-
	100				
ī					=
5					0.6
1					
i	i				
-!	!			Clayey SILT, dark yellowish brown, 10YR 4/4, slightly more clay than above,	-
-				medium stiff, slightly plastic.	-
i	i				
-	ļ				-
¹⁰ —					0.5
j	i				
	100				
-	100				-
_i	i				-
ļ	ļ.				
-					-
15	i				1.6
l l					
-					-
-i	·-i			Clayey SILT, same as above, dark yellowish brown 4/6, more silty than above	-
_!	ļ.			medium stiff, damp	-
-					
	i				-
20	ļ				4.8
_					_
i	100				
-	100				-
-1					JEG @ 23 feet Perched water
i	i				Perched water
	!				
25					3.1
j	i				
ļ					
				Clayey SILT, same as above to 28'	-
-i	i				-
	ļ				
20 I					
30	i				1.1 _
_!	ļ				-
l	100				
i	I				-
-!	!				-
_1					J
	i			SANDY SILT, brown 7.5YR 4/4, soft medium plastic,]
35	. i			damp to moist grading coarser with depth	0.6
 _				SILTY SAND, now color change, very fine to fine, medium dense/soft	-
i	i			moist, slightly plastic	
	-	1	1		

BORING NUMBER MW-107

PROJE	CT :	Long Ter	m Operationa	al Areas - Memphis	Depot LOCATION : Memphis, Tennessee	
ELEVATION : 304.92 feet MSL (TOO						, Inc.
				tem Auger 4.25 inch ID with CME Sampler 10/17/2001 END: 10/18/2001 LOGGER :	Jay Parker (Jacobs)	
		JRFACE (F		1/2001) START : STANDARD	SOIL DESCRIPTION	COMMENTS
	INTERVA		.,	PENETRATION		000002000
		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"-6"	OR CONSISTENCY, SOIL STRUCTURE,	TESTS, AND INSTRUMENTATION.
				(N)	MINERALOGY.	Corrected FID (ppm):
	I.	I.		Lised hollow-stem	SAND, strong brown 7.5YR 5/8, loose, very vine to fine, dry, become somewhat	
-	1	1		auger	redder and damp at 47".	=
-	i	i		drilling method no penetration test		-
40	ļ	ļ		results		0.0
-	i	i				-
-	1	100				_
		l				
I ⁻	İ.	I				2.5' intervals
-	1	1				-
45		i				1.3
1	ļ	ļ				1
-	1	1				-
-	i	i			Gravelly SAND, strong brown 7.5YR 5/6, fine to coarse, pebbles to the gravel	-
_	ļ	ļ			~15%, loose, waist.	_
	1	1				
-	i	i				-
50	1	1				0.0
_		l				
	l	100			SAND, strong brown, fine to medium, some pebbles loose, damp, grade finder with depth	
-		100				_
-	i	i				_
_	ļ	ļ				_
55						3.1
55	i	i			SAND, fine to very fine, no gravel	3.1
-						_
_		j				_
	!				SAND, reddish yellow 7.5YR 6/8, fine, loose, dry, trace pebbles, grading coarse fine to medium at 60' and color change to 10YR 7/6 yellow, grades back to	er to
-	1	1			1st color, medium, more gravel 5% to 10%, up to 2" in size, sub angular grave	-
-	i	i				-
60	1					0.0
	i	i				
	ļ	ļ.				-
		100				
L _	i	i				_
	l	l				
I -	i	i				-
65_	!	!				0.4
I _	8	1				_
1	i	i				1
I -		1			Gravelly SAND, yellow 10YR 7/6 fine to medium, loose, dry	-
						_
-	ļ	ļ				_
70						0.0
· · · –	i	i				^{0.0} —
-	1	ļ				
I _	1	100				
	Į –	ļ				
I –	1	1				-
L		1				

BORING NUMBER
MW-107

EVELS	: 114.43	EQUIPMENT feet BTOC (1		em Auger 4.25 inch ID with CME Sampler	
LOW SU				10/17/2001 END: 10/18/2001 LOGGER :	Jay Parker (Jacobs)
	REACE (F		STANDARD	10/17/2001 END: 10/18/2001 LOGGER : SOIL DESCRIPTION	COMMENTS
NTERVAL		1)	PENETRATION	SOL DESCRIPTION	COMMENTS
	RECOVE	⊃V (%)	TEST	SOIL NAME, USCS GROUP SYMBOL, COLOR,	DEPTH OF CASING, DRILLING RATE,
	INECOVE:	#/TYPE	RESULTS	MOISTURE CONTENT, RELATIVE DENSITY,	DRILLING FLUID LOSS,
		#/III L	6"-6"-6"-6"		
			6-6-6-6 (N)	OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	TESTS, AND INSTRUMENTATION. Corrected FID (ppn
			(11)	MINERALOGT.	Confected FID (pph
i			Used hollow-stem	Gravelly SAND, medium, moist to wet	2.7
i			auger		
I			drilling method		
			results		
!					
i					
i					
I					
ļ					0.0
				same as above, gravelly zones, loose, damp to wet	
1					
i	100				
Ī					
ļ					
-					
i					1.4
i					1.4
ļ					
{				Gravelly SAND, same as above, some coarser sand zones, damp to moist.	
i					
I					
ļ					
					0.6
i					
I					
	100				
-					
i					
Ī					
ļ					5.4
-					5.1
i					
i					
!				Gravelly SAND, same as above	
. !					
-					
i					1
Ī					4.8
ļ					
-					
i	100				1
Ī					
ļ					
-					
i					
i					0.4
ļ					
				Gravelly SAND, same as above	
i				Sitively Grand, dame as above	
ī					
ļ					
					1.8
		100	100	 Used hollow-stem auger drilling method no penetration test results 100 100 	 Used hollow-stem diager digravely SAND, medium, moist to wet digravely sand, no penetration test results Same as above, gravelly zones, loose, damp to wet Gravelly SAND, same as above, some coarser sand zones, damp to moist. Gravelly SAND, same as above

BORING NUMBER
MW-107

PROJE	CT:	Long Ter	m Operationa	I Areas - Memphis I	Depot	LOCATION : Memp	his, Tennessee	
ELEVA	FION :	304.92 fe	eet MSL (TOC	;); 305.18 feet MSL	(ground) DRILLI	NG CONTRACTOR : Tri-Sta	ate Testing Services	, Inc.
DRILLIN	IG METH	OD AND	EQUIPMENT	USED: Hollow St	em Auger 4.25 inch ID with CM	E Sampler		
				1/2001) START :	10/17/2001 END		LOGGER :	Jay Parker (Jacobs)
		JRFACE (F		STANDARD		OIL DESCRIPTION		COMMENTS
	INTERVA		.,	PENETRATION				
	INTERVA							
		RECOVE		TEST	SOIL NAME, USCS GROUP SYM			DEPTH OF CASING, DRILLING RATE,
			#/TYPE	RESULTS	MOISTURE CONTENT, RELATIV	E DENSITY,		DRILLING FLUID LOSS,
				6"-6"-6"-6"	OR CONSISTENCY, SOIL STRU	CTURE,		TESTS, AND INSTRUMENTATION.
				(N)	MINERALOGY.			Corrected FID (ppm):
		1						
_		100		Used hollow-stem				-
				auger drilling method				
-				no penetration test				-
				results				
					Sandy GRAVEL, loose same color	matrix, gravel subangular up to	2"	
115								Water Table 2.1
-								-
_					Sandy GRAVEL, same as above			_
I . i	1							
	1	1						_
	1	l						_
120								3.1
_		1						_
		100						
_								_
								-
-								-
125								1.7
								Sample collected for VOCs
_					<u>∧</u> H ₂ O - Sand starts			_
					SAND, yellow 2.5YR 7/8, very fine	o fine, loose, well sorted, no gr	avel, moist to wet	
		Ì			SAND, same as above. SAND, yell	w very fine to fine loose well	sorted wet	-
					of the sume as above. of the, year		Solica, wet.	
-								-
-								-
130								_
		i						
	i	ĺ						_
	1	1						
		100						
		1						-
-		i						-
405	i	ĺ						
135								_
								_
_					SAND as above, no change.			_
		1						
	i	i						-
i	1							
-	1	l						-
140								
140								_
								_



BORING NUMBER
MW-107

PROJEC	CT :	Long Te	rm Operationa	al Areas - Memphis I	Depot LOCATION : Memphis, Tennessee	
ELEVATION : 304.92 feet MSL (TOC)						Inc.
DRILLING METHOD AND EQUIPMENT USED : Hollow Str WATER LEVELS : 114.43 feet BTOC (11/2001) START :					em Auger 4.25 inch ID with CME Sampler 10/17/2001 END: 10/18/2001 LOGGER :	Jay Parker (Jacobs)
DEPTH B				STANDARD	10/17/2001 END: 10/18/2001 LOGGER : SOIL DESCRIPTION	COMMENTS
	INTERVA		-1)	PENETRATION	SOIL DESCRIPTION	COMMENTS
	INTERVA	RECOVE	DV (0/)	TEST		
		RECOVE	#/TYPE	RESULTS	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY,	DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS,
			#/11FE	6"-6"-6"-6"		
				0-0-0-0 (N)	OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	TESTS, AND INSTRUMENTATION. Corrected FID (ppm):
i				Used hollow-stem		
-				auger		-
				drilling method		
_				no penetration test		-
j				results		
145						_
j						_
_						-
		100				
i		i				-
_						-
i						
150						_
ļ						
-						-
i						
-						-
-						- Sample collected for TOC
i						Sample collected for TOC
-						-
155						
						_
i						
-					SAND as above	-
_						-
i						
_					CLAY 2.8YR 6/3 light yellowish brown, hard, damp, very plastic, grading with	-
_					depth to greenish gray, CLAY 5/1.	
_						
160						
_						-
i		i				
i		100				-
-						-
i		i				
_						-
165						-
		l				
— – I		I				-
-		I T				-
					BORING TERMINATED @ 167 FEET BGS.	
			1	I		-