

PROJECT NUMBER BORING NUMBER 160492.SA.03 **SB-106** 

## **SOIL BORING LOG**

PROJECT: Long Term Operational Areas - Memphis Depot LOCATION : Memphis, Tennessee

ELEVATION: 311.81 feet MSL (ground)

DRILLING CONTRACTOR: Tri-State Testing Services, Inc.

DRILLING METHOD AND EQUIPMENT USED: Hollow Stem Auger 4.25 inch ID with CME Sampler

WATER LEVELS: DRY START: 10/16/2001 END: 10/16/2001 LOGGER: Jay

WATER LEV	ELS:	DRY	START:	10/16/2001	END:	10/16/2001	LOGGER:	Jay Parker (Jacobs)	
DEPTH BELOW SURFACE (FT)		STANDARD		SOIL I	DESCRIPTION		COMMEN	ITS	
INTERVAL (FT)			PENETRATION						
RECOVERY (%)		TEST	SOIL NAME, USCS O	GROUP SYMBOL	COLOR.		DEPTH OF CASING, DR	RILLING RATE.	
		#/TYPE	RESULTS	MOISTURE CONTEN				DRILLING FLUID LOSS,	
			6"-6"-6"	OR CONSISTENCY,				TESTS, AND INSTRUM	
			(N)	MINERALOGY.		•			rrected FID (ppm):
i	i			6" Asphalt and gravel					oil headspace)
–i	Ī			Clayey SILT, drown 7.5	5 YR 4/3, medium	stiffnon-plastic, damp			_
į į	<u>Į</u>		auger drilling method						
-!	ļ		drilling method no penetration test						=
-	ļ		results						-
l i	100								
-j	i								=
5	<u>I</u>								0.0
1 !	Į.								
-	ł								_
l -i	. <b></b> i								_
į į	Ī			Clayey SILT, brown 7.5 stiff, non-plastic, dry	5 YR 4/4 with pink	ish-grey 7.5YR 6/2 mottle	s, medium,		
1 -!	ļ			our, non-piasuo, ury					_
1 4	!								_
1 10	i								
<sup>10</sup> —	i								0.0
	I								
!	1 400								
1 -	100								-
_i	i								_
i	Ĩ			Clayey SILT, brown 7.5	5YR 4/5, medium	stiff, non-plastic, dry			
I -!	Į								-
15	ļ								0.0
1 7	i								
-i	i								=
_i	Ī								_
	1			Clayey SILT, same as	above, damp				
-	ł								=
1 1	i								
	į								_
20	<u>I</u>								0.0
1 !	Į.								
1 -	ł								_
I -i	i								_
į į	Ī							JEG @ 23 feet	
I -i	ļ.							Perched water	_
-!	ļ								-
25	i								0.0
i	İ				own 7.5YR4/6, sof	t, slightly plastic, damp, be	coming	1	
-!	ļ			sandy with depth					-
!	ļ								
-	100								=
-i	i								-
i	Į.								
I -!	ļ.								-
30	ļ								0.0
1 1	i			@ 30 feet, becomes n	nottled dark red 2.	5YR3/6 and reddish yellow	v, stiff, dry		
-i	i								-
_j	Į.								_
1 !	ļ								
1 -	!								=
1 <u>i</u>	i								_
L <sub>as</sub> i	i								
35	<u>į</u>			@ 35 feet dark red ei	ilty SAND very fin	e, damp, stiff to very stiff			0.0
1 !	ļ			S OO ICCL, Galk ICG, S	, O. 11 1D, VOI y IIII	o, admp, our to very still			
7									=
L			I						_



PROJECT NUMBER BORING NUMBER 160492.SA.03 **SB-106** 

## **SOIL BORING LOG**

PROJECT: Long Term Operational Areas - Memphis Depot LOCATION : Memphis, Tennessee

ELEVATION: 311.81 feet MSL (ground) DRILLING CONTRACTOR: Tri-State Testing Services, Inc.
DRILLING METHOD AND EQUIPMENT USED: Hollow Stem Auger 4.25 inch ID with CME Sampler

	RLEVELS		DRY	START:	10/16/2001 END: 10/16/2001 LOGGER:	Jay Parker (Jacobs)
	DEPTH BELOW SURFACE (FT)		STANDARD	SOIL DESCRIPTION	COMMENTS	
-		PENETRATION	22.2.2.20.00	22		
I	INTERVAL (FT) RECOVERY (%)		TEST	SOIL NAME, USCS GROUP SYMBOL, COLOR,	DEPTH OF CASING, DRILLING RATE,	
		RECOVE		1		
I			#/TYPE	RESULTS	MOISTURE CONTENT, RELATIVE DENSITY,	DRILLING FLUID LOSS,
				6"-6"-6"	OR CONSISTENCY, SOIL STRUCTURE,	TESTS, AND INSTRUMENTATION.
<b>-</b>	<u>.                                    </u>			(N)	MINERALOGY. Clayey SILT, as above to 40'	Corrected FID (ppm):
				Used hollow-stem	Clayey SIL1, as above to 40	
_	1 1			auger drilling method		_
_	i	i		drilling method		-
40	I 1			no penetration test results		0.0
T	1			results	SAND, red 2.5YR4/8, fine loose, damp	··· –
_	! !				, , , , , , , , , , , , , , , , , , , ,	_
	!	400				
-	•	100				=
	i	i				
_	Î i					2.5' intervals
_	Į į					-
45	<u> </u>					0.0
45					Mottled SAND 5YR 5/8 yellowish red and reddish yellow 7.5YR 7/8	0.0 _
_	! !				, , , , , , , , , , , , , , , , , , , ,	_
	i	i				
-	i ———	Ī			SAND, mottled as above, fine, to medium, loose, dry	-
	<u>!</u> !	!			o. a.t.,o.a.oa ao abovo, inio, to modiam, iooso, ary	
	]					_
_						=
50	•					0.0
	i	i				
_	į į	Ī				_
	<u> </u>	100				
-	!	100				=
_	] 4					_
	!					
-	i					-
55	i i					0.0
	1					-
_	<u>[</u>					_
	!					
-	!				Gravelly SAND, reddish yellow 7.5 YR 6/8, fine, loose, dry, SOD angular grave	-
	•				~15%	
_	i	i				
_	į į	Ī				=
60	<u> </u>					0.0
	1	!				
l –	! !					=
	:	100			Gravelly SAND, becoming less gravelly and redder color	
-	i i	100				-
_	J i	I				_
	<u>[</u>	!				
-	!				Sandy Gravel, loose, dry, no color change	-
65_	!				Canay Graver, 10036, ary, 110 color change	0.0
	•	•				
_	i	i				_
	į į	Ī				
-	1	!			Sandy Gravel, same as above	_
_	<u>!</u> !	!				_
	!		1			
-	!					-
70	:	•				0.0
′ ′ ′ –	i	i				
l _	j i	i				_
	l i	I			SAND, 10YR 6/8 brownish yellow fine, loose, dry trace gravels	
-	<u> </u>	75			SANDY GRAVEL, same color, fine to coarse, loose, subround to subangular gravel.	-
	!				oubiouna to oubangulai gravei.	
I -	1	•				_



PROJECT NUMBER BORING NUMBER 160492.SA.03 **SB-106** 

## **SOIL BORING LOG**

PROJECT: Long Term Operational Areas - Memphis Depot LOCATION : Memphis, Tennessee

ELEVATION: 311.81 feet MSL (ground)

DRILLING CONTRACTOR: Tri-State Testing Services, Inc.

DRILLING METHOD AND EQUIPMENT USED: Hollow Stem Auger 4.25 inch ID with CME Sampler

WATER LEVELS: DRY START: 10/16/2001 END: 10/16/2001 LOGGER: Jay

WATER LEV	METHOD AND EQUIPME VELS: DRY	START:		END: 10/16/2001	LOGGER :	Jay Parker (Jacobs)	
DEPTH BELOW SURFACE (FT)		STANDARD		SOIL DESCRIPTION		COMMENTS	
INTI	RECOVERY (%) #/TYPE	PENETRATION TEST RESULTS 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):	
75        		Used hollow-stem auger drilling method no penetration test results	SAND, 10YR 6/8 brow Gravelly SAND, yel	vnish yellow fine, loose, dry trace gravels low 10YR 7/8, fine to coarse, loose, dr angular to subrounded.	y to moist, gravel ir	0.0	
80  -  -  -	100					0.0 _ - - -	
85 - - -			Gravelly SAND, to 89.	5'		0.0 Sample collected for VOCs	
90	100			LAY of organics, Peat, and CLAY, clay is sandy, rd to ver stiff, black in places	silt, peaty	0.0 - - -	
95  95  -  -  <b></b>			PEAT, sharp break PEAT and CLAY at 94 CLAYS, with fine sa BORING TERMINATE	4', very organic looking, black, foliated, fine l and.	beds of silty gray	0.0 _ - - -	
- 100 <u> </u>						0.0	
- 105 - - -						- - - -	
110						_	