## HIS ARMY CORPS OF ENGINEERS

							•	CORPS OF 1					
	DEPTH, FEET	SAMPLE	SAMPLE NO.	PEN./TORVANE SPTBLOW COUNT	BORING NO. 97-2 DATE: BEGIN (2-27-7) PAGE 1 / 1  JOB NO. 1140086134 COMPLETE (27-97) Thin Walled Tube  PROJECT Upper Basin Detertion And B 3" 6"  LOCATION Glong Brans Bayou  ELEVATION OF HOLE  MANUFACTURER'S DESIGNATION OF DRILL RIG Mash Buggy K4x4, F-36  GROUNDWATER: DEPTH Oft., ELEV. ft., at end of Drilling  WEATHER PARTLY CLOUPY SUMMITTED  DRILLER Dempsy General LOGGER There Gentry								
	Λ.	,			COLOR	MATERIAI TYPE	TENCY	SECONDARY CONSTITUENTS	<u></u>				
	- 0 -		-	6.75	GRAY	CLAY	MEDIUM STIFF		- W/ROOTSO = 2 YREOWN 2 = 10 - W/Co/c Nods 2 = 14	_			
			2	1.5		CLAY			-W/Fe Nods 2-12				
,	- 5 -		3	ט	GEAY	CLAT	STIFF		·	_			
*			4	25	GRAN		VER! STZEF						
	~10~		S	2.25	GRAY	CLAY	ì .						
	10		b	225	RBPDZSH BROWN	Cr49.	ļ		+ GRAY 10 - 18	-			
			7	275	REDUTS /2	C1 6 11	VELY 571.FF	71	-VISLICKENSIDED 12-18	-			
	- 15 -		8	2,5	REPOSSI	CLAY	STZFF	, .	- LI PERLUIS JIATING	-			
			9	3.0	BROWF	CLAY	VARY		- w/SILT SKAMS 17-18'	_			
	- 20-			175	BROWN	CLAT	172FF	SILTY	YGRAY 18-20 -WISAND SAAM + FLAM SEAMS				
			/ ( )	25	BROWN	CLAY	STIFF		ISAND POCKETS20:				
	l'		/2	20	LT GRAN	CLAY	57.7.5	SANDY	_	1			
	- 25-		3	2.5	L+GRAY	CLAY	SEE FE	<u> </u>	+ YELLOWISH BROWN 24'-26				
<sub>2</sub> -)		J	4	185	L+ GRAY		! :	STLTY	YYISLOWISH PROV ~ 26 28				
	- 30-	X	15	100 g	HGRAY	SANP	DENSE	57671					
			ļ						•				
			/L	2.0	L+ (RA) YRRDASH REONE	CLAY	V 7. R. V 577 F. F	JANDY	(yr(100)). W. Sand33 - 33'1" 33-35 m/ Sand Sm(S) 33'1-35	  -			
	- 35 -				T. A. BOLL	Ċ				-			
			لــــا	L									

SUMMARY OF LABORATORY TEST RESULTS

Contract No. DACW64-95-D-0007 Delivery Order No. 0035

Project: Brays Bayou PDM

Boring No. <u>97-21</u>

s#	Depth (ft)	· ·		Visual Classification	USC	Mc Un (%) W	Dry Unit	nit Unit /t Wt	L L (%)	PL (%)	Mechanical Analysis % Passing				Torvane Shear	qu	
<i>"</i>							Wt (pcf)				#4	#10	#40	#100	#200	Strength (tsf)	(tsf)
1	0 - 2	0.75		Clay,w/grass roots,Medium stiff,Gray	СН	26.3											
2	2 - 4	1.50		Clay,w/calcareous & ferrous nodules,Stiff, Gray	СН	22.8											
3	4 - 6	1.75		Clay,w/calcareous & ferrous nodules,Stiff, Gray	СН	20.9											
4	6 - 8	2.25		Clay,w/calcareous & ferrous nodules,Very stiff,Gray	СН	18.0	110.0	129.8	55.0	22.0						·	
5	8 - 10	2.25		Clay,w/calcareous & ferrous nodules,Very stiff,Gray	СН	20.7											
6	10 - 12	2.25		Clay,w/calcareous&ferrous nodules,slickensided, Very stiff,Reddish brown	СН	22.9					i						
7	12 - 14	2.75		Clay,w/calcareous&ferrous nodules,slickensided, Very stiff,Reddish brown	СН	27.8											
8	14 - 16	3.50		Clay,w/calcareous&ferrous nodules,slickensided, Very stiff,Reddish brown	СН	25.9											
9	16 - 18	3.00		Clay,w/calcareous&ferrous nodules,slickensided, Very stiff,Reddish brown	СН	28.6											
10	18 - 20	1.75		Silty Clay,w/sand seams,Stiff,Reddish brown	CL	22.3											
11	20 - 22	1.75		Sandy Clay,w/sand seams,Stiff,Reddish brown	CL	22.0											
12	22 - 24	1.75		Sandy Clay,w/sand seams,Stiff,Reddish brown	CL	17.8	107.5	126.6	31.0	16.0	100.0	100.0	100.0	96.3	73.3		1.20
13	24 - 26	2.25		Sandy Clay,Very stiff,Gray	CL	17.2											
14	26 - 28			Silty Sand, Dense, Gray	SM	19.9											<u> </u>
15	28-29.5		42	Silty Sand,Dense,Gray	SM	<u> </u>					100.0	99.9	99.6	80.4	30.6		
16	33-35	2.00		Sandy Clay,w/sand seams,Very stiff,Reddish brown & yellowish gray	CL	17.4				1			<u> </u>				

S #: Sample Number, PP: Pocket Penetrometer Reading, USC: Unified Soil Classification, Mc: Moisture Content

q u : Uncogined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe

JOB NO. 114008613

PROJECT Brays Bayou PDM

AREA Houston, Texas

BORING NO. 97-21 SAMPLE NO. 12

DEPTH 22-24 ft

SPECIMEN NO. 1

CLASSIFICATION

Silty Clay, w/sand seams, Stiff, Reddish brown

Tare No.	P207		Height	5.595 in.						
Tare plus Wet Specimen	532.68	gm	Average Diameter	2.830 in.						
Tare plus Dry Specimen	458.81	gm	Initial Area	6.290 sq in.						
Water Weight	73.87	gm	Volume	35.194 cu in.						
Tare Weight	43.18	gm	Volume of Solids	cu in.						
Wet Specimen	1169.56	gm	Void Ratio							
Dry Specimen	993.06	gm	Saturation	<b>%</b>						
Water Content	17.77	%	Dry Density	107.5 lb/cu ft						
Specific Gravity of Solids										
LL = 31 $PL =$	16	PI =	15							

Proving Ring No. 10170 Proving Ring Constant, K = .766 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	18.0	13.8	.002	6.30	.158
.4	20.	.020	28.0	21.4	.004	6.31	.245
.5	30.	.030	42.0	32.2	.005	6.32	.366
.7	40.	.040	60.0	46.0	.007	6.34	.522
.9	50.	.050	75.0	57.4	.009	6.35	.652
1.1	60.	.060	84.0	64.3	.011	6.36	.729
1.4	80.	.080	98.0	75.1	.014	6.38	.847
1.7	100.	.100	111.0	85.0	.018	6.40	.956
2.1	120.	.120	122.0	93.5	.021	6.43	1.047
2.4	140.	.140	130.0	99.6	.025	6.45	1.111
2.7	160.	.160	136.0	104.2	.029	6.48	1.158
3.0	180.	.180	140.0	107.2	.032	6.50	1.188
3.3	200.	.200	142.0	108.8	.036	6.52	1.201
3.7	220.	.220	143.0	109.5	.039	6.55	1.205
4.0	240.	.240	143.5	109.9	.043	6.57	1.204
4.3	260.	.260	143.0	109.5	.046	6.60	1.196

EM 1110-2-1906 Appendix XI 30 Nov 70

