U.S. ARMY CORPS OF ENGINEERS

BORING NO. 95-191 DATE: BEGIN 8-6-95 PAGE 1 / 1
JOB NO. 94G799-20 COMPLETE 8-6-95 Thin Walled Tube
PROJECT Channel To Victoria ■ 3" □ 6"
LOCATION Disposal Area NO. 10
ELEVATION OF HOLE
MANUFACTURER'S DESIGNATION OF DRILL RIG K4X4, C-1000, Marsh Buggy
GROUNDWATER: DEPTH * ft., ELEV. ft., at end of Drilling
WEATHER Sunny & Hot
DRILLER David Gregurek LOGGER Iraj Mostamand

DEPTH, FEET	SAMPLE	SAMPLE NO.	PEN./TORVANE SPT.-BLOW COUNT	COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
0		1	4.5+	Dk. gray	Clay	Hard		w/roots
		2	1.50	Gray	Clay	Stiff		w/roots
5		3	1.25	Gray	Clay	Stiff		w/Blocky structure
		4	1.00	Gray	Clay	Stiff		w/Blocky structure
		5	1.25	Gray	Clay	Stiff		w/Fest & Blocky structure, SLS
10		6	1.25	Gray	Clay	Stiff		w/Fest & Blocky structure SLS
		7	1.00	Gray	Clay	Stiff		w/Fest, slickensided
15		8	1.25	Yellowish gray	Clay	Stiff		w/calc & Fe nod, slickensided w/mica
		9	1.25	Yellowish gray	Clay	Stiff		w/calc & Fe nod, slickensided w/mica
		10	1.00	Yellowish gray	Clay	Stiff		w/calc & Fe nod, slickensided w/mica
20		11	1.25	Gray	Clay	Stiff		w/Fest & Blocky structure, SLS w/mica
		12	1.25	Gray	Clay	Stiff		w/Fest & Blocky structure, SLS w/mica
25		13	1.25	Gray	Clay	Stiff		w/Fest, slickensided w/mica
30								* Drilling Fluid level after drilling @ 0'-4"
35								

GEOTEST ENGINEERING, INC.

Project: Channel to Victoria project
Victoria, Texas
Contract No. DACW64-94-D-0015 Delivery Order No. 0025

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 95-191

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing #4	#10	#40	#100	#200	Torvane Shear Strength (tsf)	q u (tsf)
1	0 - 2	4.5+		Clay,w/roots,Hard,Dark gray	CH	33.4											
2	2 - 4	1.50		Clay,w/roots,Stiff,Gray	CH	35.6	83.1	112.7	85								
3	4 - 6	1.25		Clay,w/blocky structrue,Stiff,Gray	CH	33.2											
4	6 - 8	1.00		Clay,w/blocky structrue,Stiff,Gray	CH	36.8											
5	8 - 10	1.25		Clay,w/ferrous stains & blocky structure, slickensided,Stiff,Gray	CH	40.4	81.1	113.9	73								
6	10 - 12	1.25		Clay,w/ferrous stains & blocky structure, slickensided,Stiff,Gray	CH	34.6											
7	12 - 14	1.00		Clay,w/ferrous stains,slickensided, Stiff,Gray	CH	41.2											
8	14 - 16	1.25		Clay,w/calcareous & ferrous nodules & mica, slickensided,Stiff,Yellowish gray	CH	37.8											
9	16 - 18	1.25		Clay,w/calcareous & ferrous nodules & mica, slickensided,Stiff,Yellowish gray	CH	42.5	78.7	112.1	91								
10	18 - 20	1.00		Clay,w/calcareous & ferrous nodules & mica, slickensided,Stiff,Yellowish gray	CH	49.4											
11	20 - 22	1.25		Clay,w/ferrous stains & blocky structure & mica, slickensided,Stiff,Gray	CH	39.2											
12	22 - 24	1.25		Clay,w/ferrous stains & blocky structure & mica, slickensided,Stiff,Gray	CH	36.6											
13	24 - 26	1.25		Clay,w/ferrous stains & mica,slickensided, Stiff,Gray	CH	40.8											

S # : Sample Number, P P : Pocket Penetrometer Reading, U S C : Unified Soil Classifcation, M c : Moisture Content
q u : Uncogined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe

JOB NO. 94G799-18 DATE 7/3/95

PROJECT Channel to Victoria

AREA Seadrift, Texas

BORING NO. 95-151 SAMPLE NO. 2 DEPTH 2-4 ft

SPECIMEN NO. 1

CLASSIFICATION
Clay,Stiff,Gray

Tare No.	HP-15	Height	5.595 in.
Tare plus Wet Specimen	486.69 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	363.31 gm	Initial Area	6.290 sq in.
Water Weight	123.38 gm	Volume	35.194 cu in.
Tare Weight	42.70 gm	Volume of Solids	cu in.
Wet Specimen	1079.25 gm	Void Ratio	
Dry Specimen	779.34 gm	Saturation	%
Water Content	38.48 %	Dry Density	84.4 lb/cu ft
Specific Gravity of Solids			

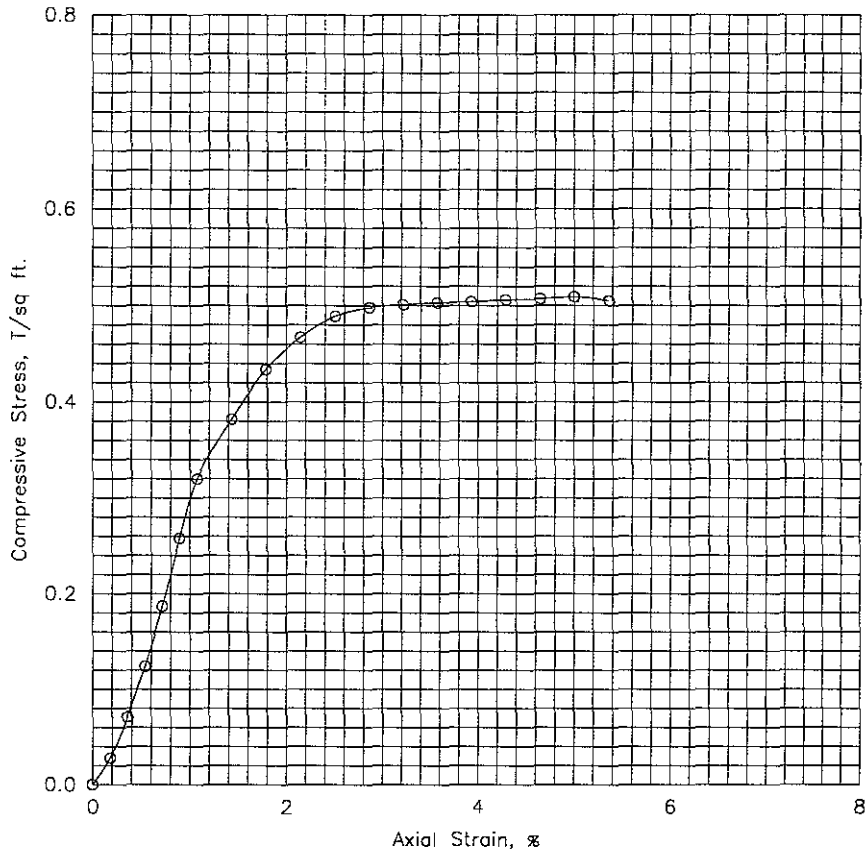
LL = 75 PL = 27 PI = 48

Proving Ring No. 17015
Proving Ring Constant, K = .311 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	8.0	2.5	.002	6.30	.028
.3	20.	.020	20.0	6.2	.004	6.31	.071
.5	30.	.030	35.0	10.9	.005	6.32	.124
.6	40.	.040	53.0	16.5	.007	6.34	.187
.8	50.	.050	73.0	22.7	.009	6.35	.258
1.0	60.	.060	91.0	28.3	.011	6.36	.320
1.4	80.	.080	109.0	33.9	.014	6.38	.382
1.6	100.	.100	124.0	38.6	.018	6.40	.434
1.9	120.	.120	134.0	41.7	.021	6.43	.467
2.3	140.	.140	141.0	43.9	.025	6.45	.489
2.6	160.	.160	144.0	44.8	.029	6.48	.498
2.9	180.	.180	145.5	45.3	.032	6.50	.501
3.3	200.	.200	146.5	45.6	.036	6.52	.503
3.6	220.	.220	147.5	45.9	.039	6.55	.504
3.9	240.	.240	148.5	46.2	.043	6.57	.506
4.2	260.	.260	149.5	46.5	.046	6.60	.507
4.5	280.	.280	150.5	46.8	.050	6.62	.509
4.9	300.	.300	150.0	46.6	.054	6.65	.505

Job No. 94G799-18

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	38.5 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	84.4			
Time to failure, min		t_f	4.53			
Unconfined compressive strength, T/sq ft		q_u	.51			
Undrained shear strength, T/sq ft		S_u	.25			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Clay,Stiff,Gray

LL	75	PL	27	PI	48	G_s	

Remarks

Project Channel to Victoria

Area Seadrift, Texas

Boring No. 95-151 | Sample No. 2

Depth 2-4 ft | Date 7/3/95

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UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE