

Contract No. DACW64-98-D-0002 Delivery Order No. 0010

Boring No. 99-16

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	M c (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	P L (%)	Mechanical Analysis % Passing					Specific Gravity	q u (tsf)
											#4	#10	#40	#100	#200		
1	0 - 2	0.00		Clay, w/organic material & decayed wood, Very soft, Gray	C H	98.9											
2	2 - 4	0.00		Clay, w/organic material & decayed wood, Very soft, Gray	C H	95.5											
3	4 - 6	0.00		Clay, w/organic material & decayed wood, Very soft, Gray	C H	61.2											
4	6 - 8	0.00		Clay, w/organic material & decayed wood, Very soft, Gray	C H	36.7											
5	8 - 10			Clayey Sand, w/wood, Loose, Gray	S C												
6	10-11.5		9	Sand, w/silt, Loose, Gray	SP-SM						100.0	100.0	95.1	20.1	8.1		
7	15-16.5		27	Silty Sand, Medium dense, Gray	S M												
8	20-21.5		34	Sand, Dense, Gray	S P						100.0	99.9	86.5	11.8	1.6		
9	22-24	3.25		Clay, w/fer stains & sand seams, Very stiff, Reddish brown & gray	C H	21.7											
10	24-26	3.75		Silty Clay, w/fer stains, Very stiff, Reddish brown & gray	C L	20.3	104.5	125.7	38.0	19.0							2.50
11	26-28	3.50		Clay, w/fer stains, silts, Very stiff, Gray & yellowish brown	C H	21.9											
12	28-30	3.00		Clay, w/fer stains, silts, Very stiff, Gray & yellowish brown	C H	25.6											
13	30-32	3.25		Clay, w/calc nod & fer stains, silts, Very stiff, Gray & yellowish brown	C H	25.4	97.2	121.9	69.0	27.0							1.85
14	32-34	2.75		Clay, w/calc nod & fer stains, silts, Very stiff, Reddish brown & gray	C H	24.4											
15	34-36	3.00		Clay, w/calc nod & fer stains, silts, Very stiff, Reddish brown & gray	C H	26.9											
16	36-38	2.50		Silty Clay, w/sand seams, Very stiff, Gray & brown	C L	17.0											
17	38-40	2.50		Silty Clay, w/fer stains & sand seams, Very stiff, Gray & brown	C L	17.4											
18	40-42	2.25		Silty Clay, w/fer stains & sand seams, Very stiff, Gray & brown	C L	26.1											
19	42-44	2.00		Silty Clay, w/fer stains & sand seams, Very stiff, Gray & brown	C L	25.4											
20	44-46	2.50		Clay, w/fer stains, silts, Very stiff, Red & gray	C H	37.8	81.0	111.3	93.0	32.0							2.29

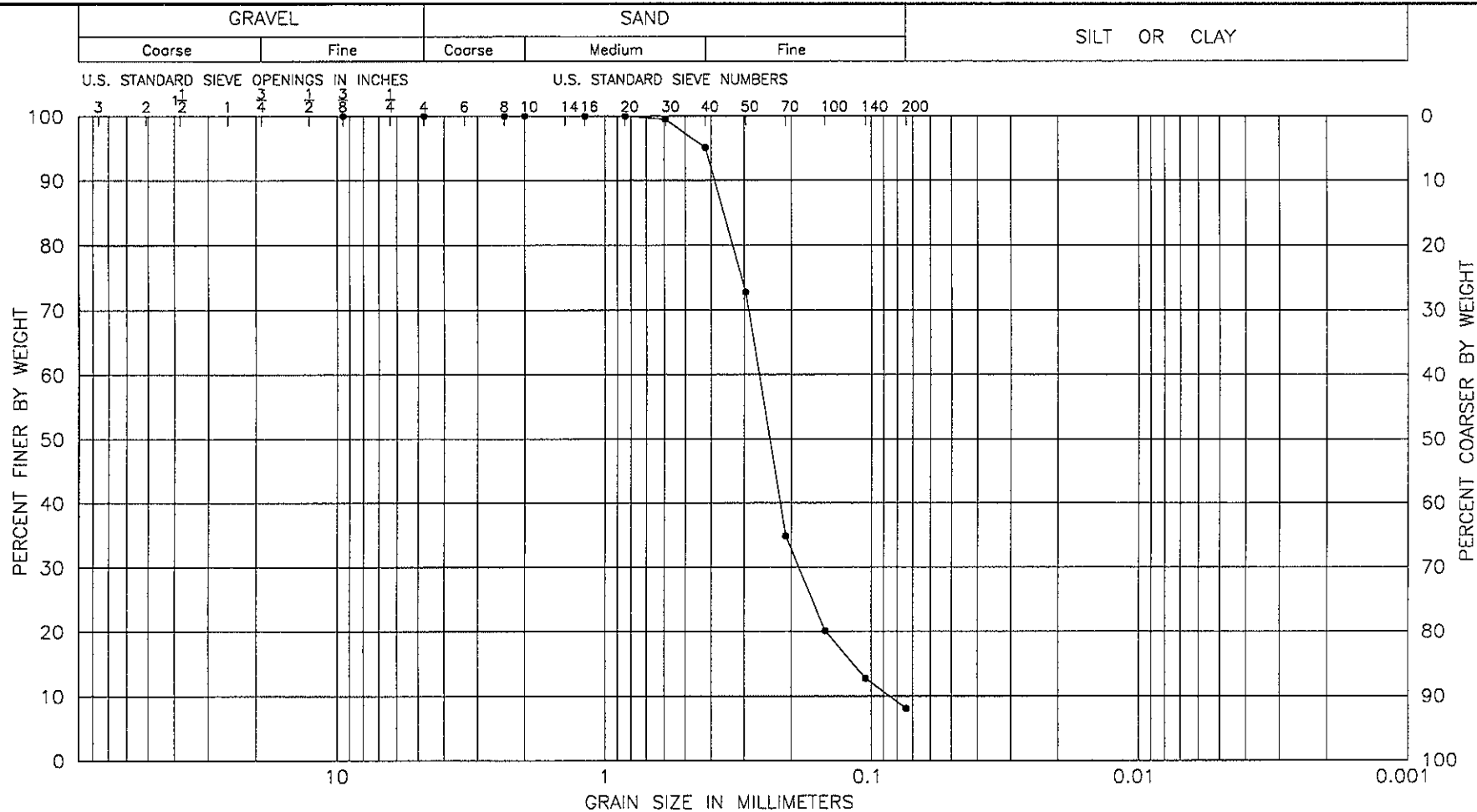
S # : Sample Number, P P : Pocket Penetrometer Reading, U S C : Unified Soil Classification, M c : Moisture Content
q u : Unconfined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 99-16

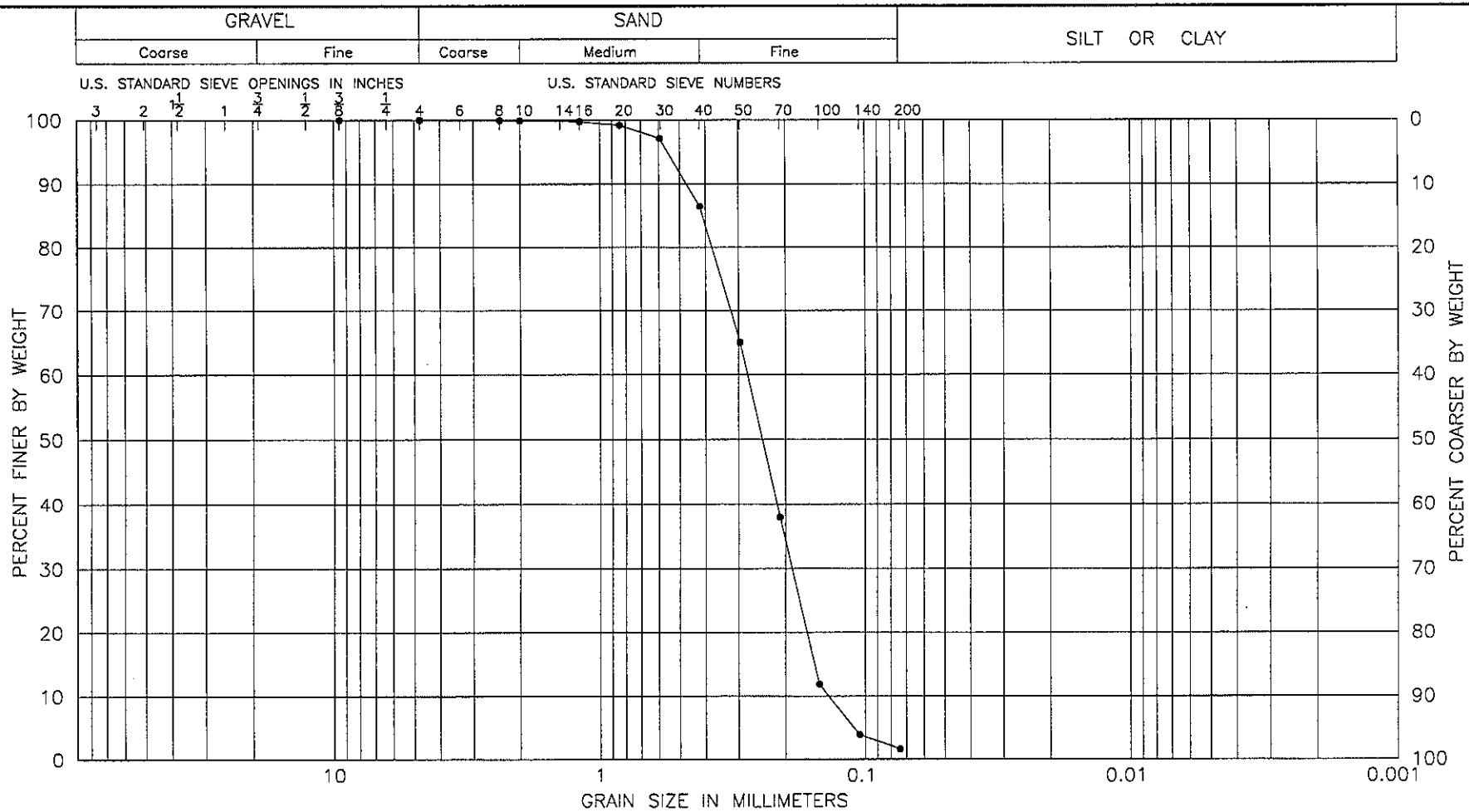
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LEGEND	BORING NO.	SAMPLE NO.	DEPTH FT.	SAMPLE DESCRIPTION
•••••	99-16	6	10-11.5	Sand, w/silt, loose, gray

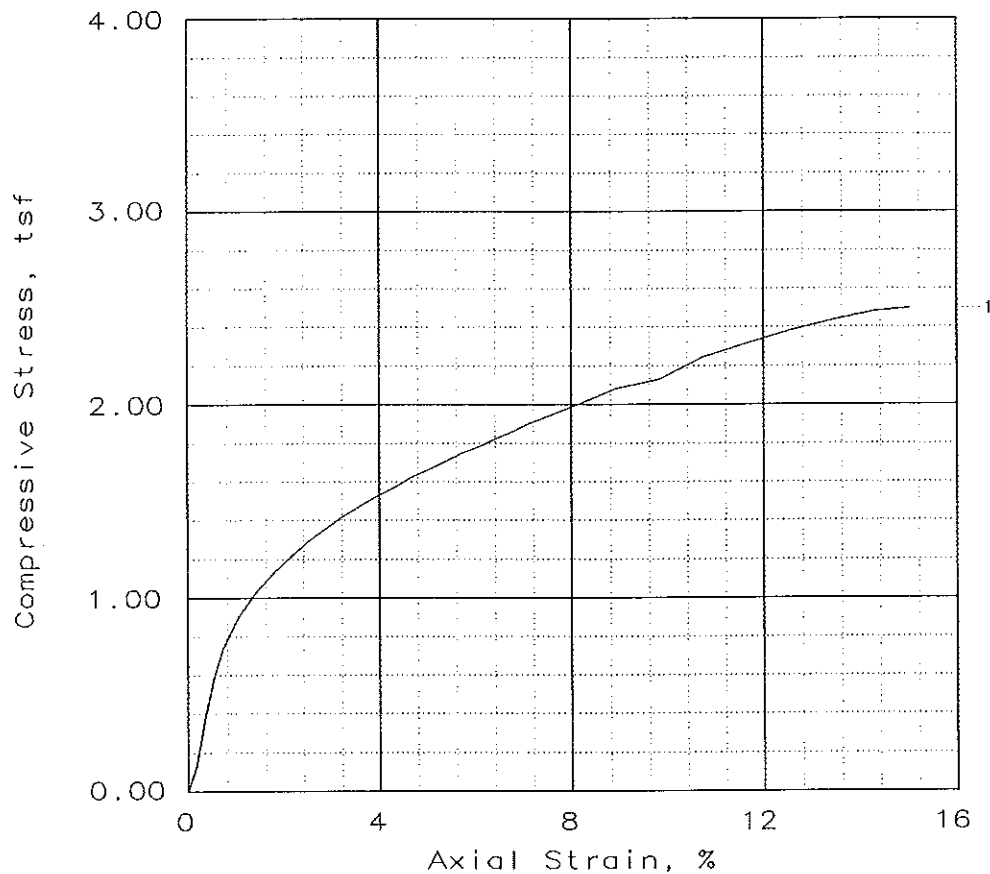
GRAIN SIZE DISTRIBUTION CURVES



LEGEND	BORING NO.	SAMPLE NO.	DEPTH FT.	SAMPLE DESCRIPTION
•••••	99-16	8	20-21.5	Sand, dense, gray

GRAIN SIZE DISTRIBUTION CURVES

UNCONFINED COMPRESSION TEST



SAMPLE NO.:	1			
Unconfined strength, tsf	2.50			
Undrained shear strength, tsf	1.25			
Failure strain, %	15.0			
Strain rate, %/min	1.07			
Water content, %	20.3			
Wet density, pcf	125.7			
Dry density, pcf	104.5			
Saturation, %	90.5			
Void ratio	0.6006			
Specimen diameter, in	2.83			
Specimen height, in	5.60			
Height/diameter ratio	1.98			

Description: Silty Clay, w/fer stains, V s, Rdish Bn & gray

LL = 38 PL = 19 PI = 19 ASS. GS= 2.68 Type: Undisturbed

Project No.: 1140114810

Date: 6-07-99

Remarks:

Assumed Specific gravity

Client: U.S Army Corps of Engineers

Galveston office District

Project: Neches River Saltwater Barrier

Location: Boring No. 99-16

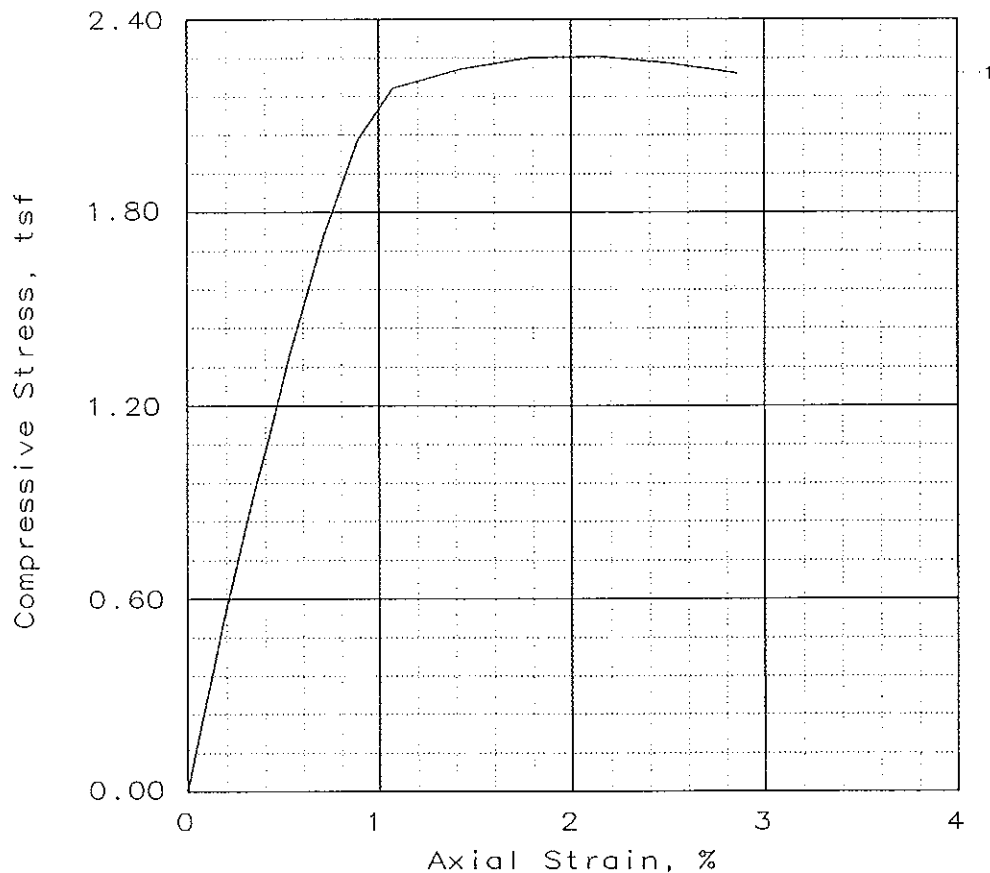
Sample No. 10 Depth: 24-26 ft

UNCONFINED COMPRESSION TEST

GEOTEST ENGINEERING, INC.

Fig. No.: ———

UNCONFINED COMPRESSION TEST



SAMPLE NO.:	1			
Unconfined strength, tsf	2.29			
Undrained shear strength, tsf	1.14			
Failure strain, %	2.1			
Strain rate, %/min	1.07			
Water content, %	37.5			
Wet density, pcf	111.3			
Dry density, pcf	81.0			
Saturation, %	94.2			
Void ratio	1.0660			
Specimen diameter, in	2.83			
Specimen height, in	5.60			
Height/diameter ratio	1.98			

Description: Cl,w/fer stains, silks,Very stiff,Red & gray

LL = 93 PL = 32 PI = 61 ASS. GS= 2.68 Type: Undisturbed

Project No.: 1140114810

Date: 6-07-99

Remarks:

Assumed Specific gravity

Client: U.S Army Corps of Engineers

Galveston office District

Project: Neches River Saltwater Barrier

Location: Boring No. 99-16

Sample No. 20 Depth: 44-46 ft

UNCONFINED COMPRESSION TEST

GEOTEST ENGINEERING, INC.

Fig. No.: _____