

Job No. 0401-2906 Completion Date 5/19/90 Time _____ Field Log of Boring 90-91

Elevation _____ Location Disposal Area B Driller R. AGUILAR

Lab. Tests	Soil Sample			Depth (ft)	Sample	Blows	Torvane Penet.	Logger <u>W. CUTSHALL</u>	
	No.	Depth	Type					Comments	Description of Material
									CLAY, very stiff, light brown and gray <u>Hard</u>
	1	3-5	Q	5		4.25			- with calcareous nodules
	2	5-7	Q				3.25		
	3	9-11	Q	10		1.75		No Recovery -	Due to water in hole
	4	11-13	Q			1.5			
	5	13-15	J	15					(13')
	6	15-17	J						
	7	17.5-19	J	20	X	10-16-15			(21')
	8	21-23	Q				4.25		<u>Hard</u>
	9	23-25	Q	25		4.0			- light brown sandy clay at 24'
	10	28.5-30	J	30	X	15-25-16			(27.5')
	11	33.5-35	J			X	25-50/5"		
	12	38.5-40	J	40	X	20-23-23			- very dense, 33' to 35'
									(40')

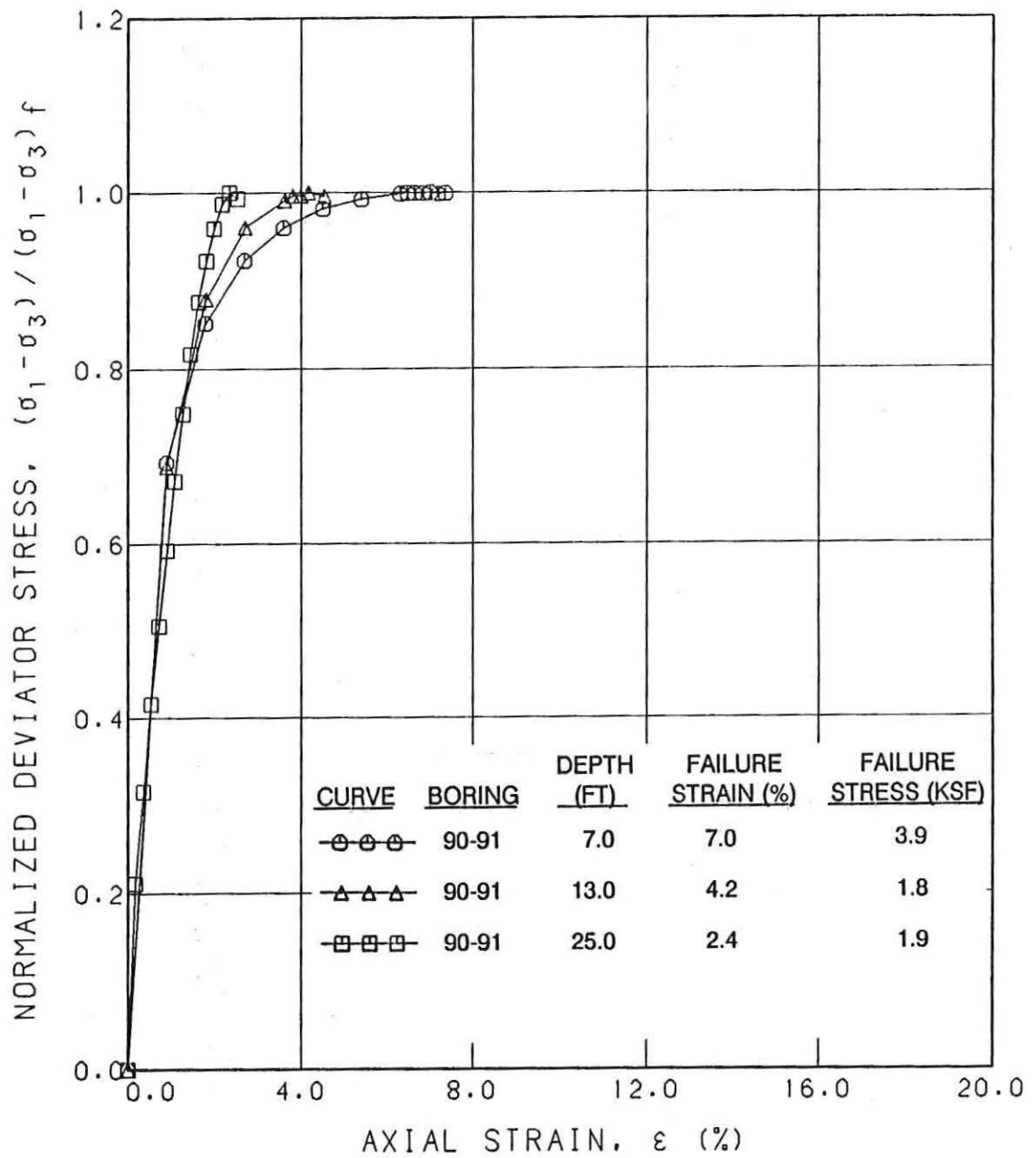
Remarks: _____

Boring Sealed? _____
 Dry Auger _____ to _____ ft
 Wet Rotary _____ to 40 ft
 Water First Noticed _____ ft

Depth to Water 9.0' Caved at _____ Date _____ Time _____ ; _____

SUMMARY OF TEST RESULTS
Galveston District, Corps of Engineers
Delivery Order No. 0016
Brazos Island Harbor
Brownsville Ship Channel

Boring Number	Sample Number	Sample Depth (ft)	Visual Classification	USCS	MC (%)	UDW (pcf)	LL	PL	PI	Gradation, % Passing Sieve No.				UNC Su (ksf)	TV Su (ksf)
										4	10	40	200		
90-90	1Q	3-5	Very stiff brown CLAY w/sacl sms, sa & si pckts	CH	34	94	76	28			98	89		2.1	
90-90	2Q	5-7	Stiff brown SANDY CLAY w/ fe stns, cl & sa pckts	CL	15										
90-90	3J	7.5-9	Brown SANDY CLAY w/ calc deps & cl pckts	CL	23										
90-90	4J	13.5-14	Brown SAND w/ clay pockets	SP	28						100	85	17		
90-90	5J	17.5-19	Red SANDY CLAY	CL	21										
90-90	6J	22.5-24	Brown SANDY CLAY w/ calcareous pckts & deps	CL	24		28				95	92	88	78	
90-90	7J	27.5-29	Brown fine SILTY SAND w/ cl pckts & calc deps	SM	24		26				99	99	95	59	
90-91	1Q	3-5	Very stiff dark brown CLAY w/ org & calc deps	CH	28										
90-91	2Q	5-7	Stiff brown CLAY w/ ferrous stns & silt pckts	CH	27	92	54	23			100	99	95	90	2.0
90-91	3Q	9-11	Stiff gray and brown CLAY w/ silt pckts & ferrous nods	CH	32										
90-91	4Q	11-13	Firm brown and lt gray CLAY w/ si pckts & fe stns	CH	29	90	58	21			100	99	97	93	0.9
90-91	5J	13-15	Gray and tan SANDY CLAY w/ calcareous nods	CL	21										
90-91	6J	15-17	Gray and tan CLAYEY SAND w/calcareous nods	SC	19	112					100	99	66	35	
90-91	7J	17.5-19	Very stiff gray and brown SANDY CLAY w/ calc deps	CL	20										
90-91	8Q	21-23	Stiff tan CLAY w/ calcareous deposits	CH	21										
90-91	9Q	23-25	Stiff brown SILTY CLAY w/ calcareous deposits	CL	22	106	29	17			90	88	87	76	1.0
90-91	10J	28.5-30	Brown fine SILTY SAND w/ clay pckts & free water	SM	27										
90-91	11J	33.5-35	Brown CLAY w/ sand seams	CH	25										
90-91	12J	38.5-40	Brown fine SAND w/ clay pockets	SP	24						100	95	26		



STRESS-STRAIN CURVES
UNCONFINED COMPRESSION TEST