SUMMARY OF LABORATORY TESTS

Project No. 08.18.920

Client: United States Army Corps of Engineers

Project: Galveston Channel and San Jacinto PA
Contract No. DACW64-03-D-0008, Task Order No. 0080

Boring No.	Sample No.	Depth (ft)	Torvane Shear Test (tsf)	Soil Description	USCS	Water Content (%)	Dry Density (pcf)	Liquid Limit	Plastic Limit	Plast. Index	Finer than #200 Sieve (%)	Uc/UU. Compr. (tsf)	Failure Strain (%)	Conf. Pres. (psi)	Failure Type
07-199															
	1	0-1		Gray FAT CLAY	CH										
	2	1-2		Gray FAT CLAY	CH	63.4		97	31	66	88.8				
	3	2-3		Gray and tan FAT CLAY	CH										
	4	3-4		Gray FAT CLAY	CH	64.2		111	28	83	97.6				
	5	4-5		Gray and tan FAT CLAY	CH										
	6	5-6		Tan and gray FAT CLAY	CH	64.5		107	32	75	97.4				
07-200															
	1	0-1		Tan and gray FAT CLAY	CH										
	2	1-2		Gray and tan FAT CLAY	CH	98.2		120	30	90	96.9				
	3	2-3		Tan and gray FAT CLAY	CH										
	4	3-4		Gray and tan FAT CLAY	CH	117.3		118	28	90	95.7				
	5	4-5		Gray and tan FAT CLAY	CH										
	6	5-6		Gray FAT CLAY	CH	74.4		110	31	79	98.0				
07-201															
	1	0-1		Gray FAT CLAY	CH										
	2	1-2		Gray and tan FAT CLAY	CH	113.2		115	30	85	98.2				
	3	2-3		Dark gray and gray FAT CLAY	CH										
	4	3-4		Dark gray and gray FAT CLAY	CH	123.8		121	31	90	96.2				
	5	4-5		Gray FAT CLAY	CH										
	6	5-6		Gray FAT CLAY	CH	64.4		103	32	71	98.9				
07-202															
	1	0-1		Gray and tan FAT CLAY	CH										
	2	1-2		Gray and tan FAT CLAY	CH	66.6		92	26	66	93.6				
	3	2-3		Tan and gray FAT CLAY	CH										
	4	3-4		Gray and tan FAT CLAY	CH	96.9		105	30	75	96.5				
	5	4-5		Gray and tan FAT CLAY	CH										
	6	5-6		Dark gray and gray FAT CLAY	CH	115.1		115	32	83	97.6				
07-203															
	1	0-2		Gray SILTY SAND	SM						29.5				
	2	2-4		Gray SANDY FAT CLAY	CH	26.2	80.0	77	24	53	65.6	0.33	5.1		Vertical shear
	3	4-6		Dark gray FAT CLAY	CH	66.2									
	4	6-8		Gray and tan FAT CLAY with SAND	CH	36.6	73.7					0.20	7.6		Bulge
	5	8-10		Gray FAT CLAY with SAND	CH	40.3	75.8	81	24	57	75.2				
	6	10-11.5		Tan and gray SILTY SAND	SM						19.5				
	7	12-14		Gray FAT CLAY	CH	55.1	64.0								
	8	14-15.5		Gray SILTY SAND	SM						15.2				

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Hole No. 07-199

BORING LOG	DISTRICT	INSTALLATION	SHEET 1 OF 1 SHEETS

1. PROJECT Galveston Channel and San Jacinto PA	7. ELEVATION OF HOLE
2. LOCATION (Coordinates or Station) N=13690984 E=3319683	8. DATUM FOR ELEVATION
3. DRILLING AGENCY Dempsey (Geotest Engineering, Inc.)	9. ELEVATION OF GROUNDWATER TOD: 24-HR:
4. LABORATORY TESTING AGENCY Tolunay-Wong Engineers, Inc.	10. DRILLING DATE and TIME STARTED: 4/22/08 COMPLETED: 4/22/08
5. DEPTH OF WATER TOD: 24-HR:	11. CLASSIFICATION REFERENCE
6. DEPTH OF HOLE 6 ft	12. ENGINEER

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	NUMBER	RECOVERY (%)	SPT (N)	PENETROMETER (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	FINES CONTENT (% <200)
			FAT CLAY(CH), gray & brown		1					63.4	97	31	66	88.8
			-gray below 2'		2					64.2	111	28	83	97.6
5					3					64.5	107	32	75	97.4
10														
15														
20														
25														
30														

SWG 1836 BOR 08.18.920.GPJ TOLUNAY-WONG ENGINEERS.GDT 11/10/08

ENG FORM: SWG 1836 BOR