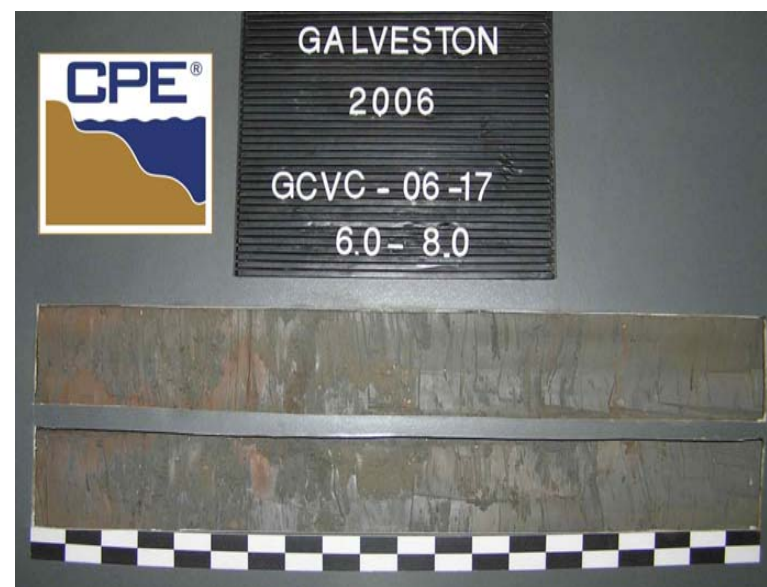
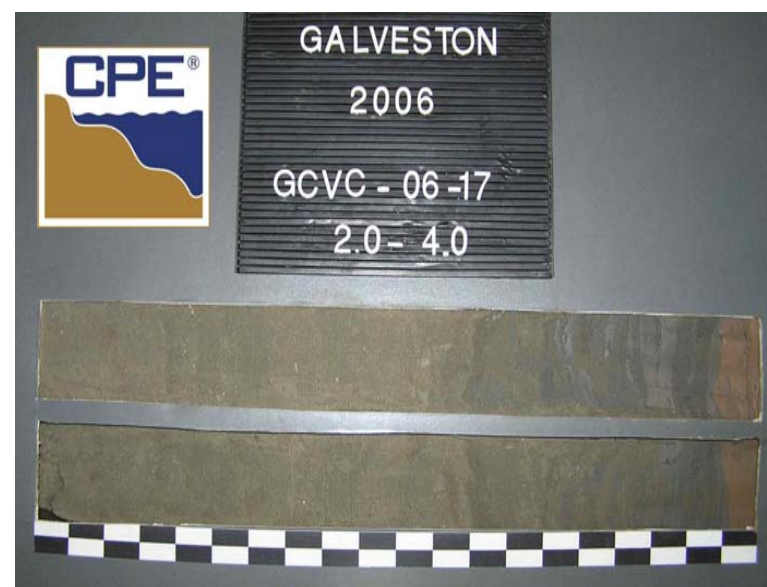
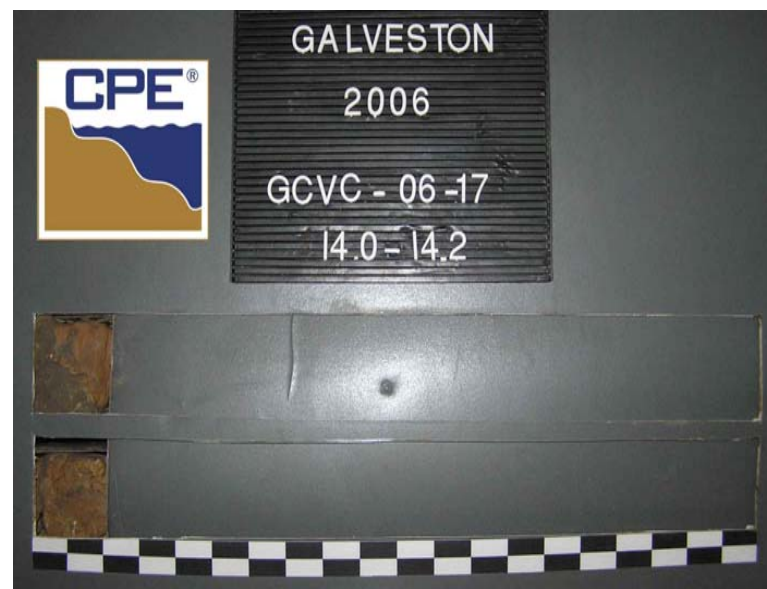




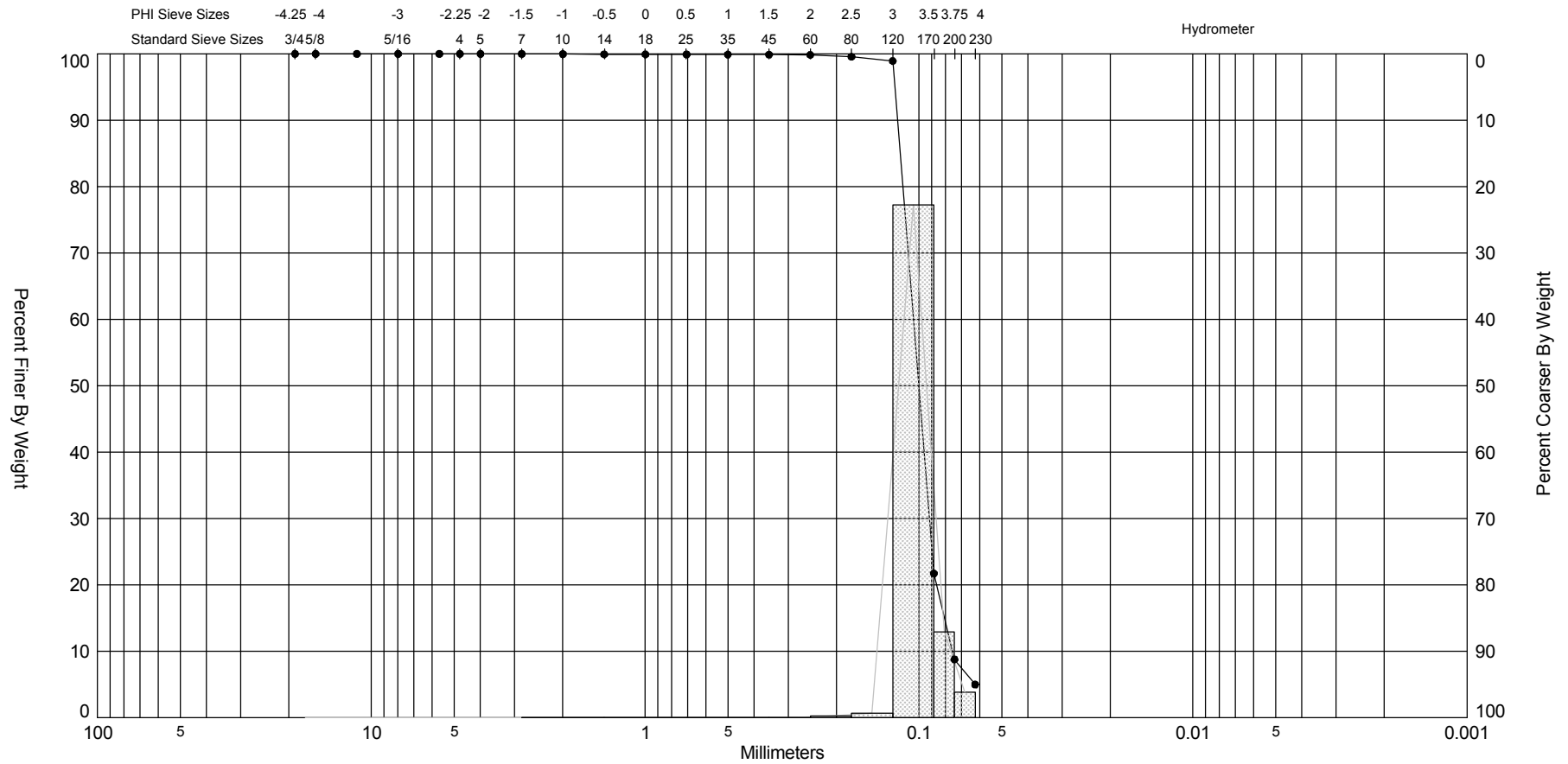


DRILLING LOG		DIVISION	INSTALLATION	SHEET 1 OF 1 SHEETS
1. PROJECT Texas Geotechnical Sand Search Galveston County Texas			9. SIZE AND TYPE OF BIT 3.0 In.	
2. BORING DESIGNATION GCVC-06-17			10. COORDINATE SYSTEM/DATUM Texas South Central	
3. DRILLING AGENCY Alpine Ocean Seismic Survey, Inc.			11. MANUFACTURER'S DESIGNATION OF DRILL ☐ AUTO HAMMER ☐ MANUAL HAMMER	
4. NAME OF DRILLER Charles Dill			12. TOTAL SAMPLES DISTURBED UNDISTURBED (UD)	
5. DIRECTION OF BORING ☒ VERTICAL ☐ INCLINED			13. TOTAL NUMBER CORE BOXES	
6. THICKNESS OF OVERBURDEN 0.0 Ft.			14. ELEVATION GROUND WATER	
7. DEPTH DRILLED INTO ROCK 0.0 Ft.			15. DATE BORING 10-08-06 13:30	
8. TOTAL DEPTH OF BORING 18.3 Ft.			16. ELEVATION TOP OF BORING -18.2 Ft.	
			17. TOTAL RECOVERY FOR BORING 14.2 Ft.	
			18. SIGNATURE AND TITLE OF INSPECTOR ML	

ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIALS Depths and elevations based on measured values	% REC.	BOX OR SAMPLE	REMARKS
-18.2	0.0					
-18.7	0.5		SAND, fine grained, quartz, little shell hash, trace shell fragments, trace silt, shell fragments up to 0.5"x 0.5", gray (5Y-5/1), (SP).			
			SAND, fine grained, quartz, trace shell hash, trace silt, gray (5Y-5/1), (SP-SM).		1	Sample #1, Depth = 2.0' Mean (mm): 0.10, Phi Sorting: 0.23 Fines (230): 4.97% (SP-SM)
-21.6	3.4					
-22.1	3.9		SAND, clay lenses, gray (5Y-5/1), (SP-SM).			
			CLAY, stiff to soft; yellowish red (5YR-4/6) to dark gray (5Y-4/1), (CL).			
-29.2	11.0					
			CLAY, very stiff; mottled between yellowish brown (10YR-5/8) to dark gray (5Y-5/2);, (CL).			
-32.4	14.2					
			No Recovery.			
-36.5	18.3					
			End of Boring			

FLORIDA DEP ROSS GALVESTON VIBRACORES 2006.GPJ FL DEP ROSS.GDT 12/14/06

Granularmetric Report Depths and elevations based on measured values				 Coastal Planning & Engineering 2481 NW Boca Raton Blvd, Boca Raton FL 33431 ph (561) 391-8102 fax (561) 391-9116		
Project Name: Texas Geotechnical Sand Search						
Sample Name: GCVC-06-17 #1						
Analysis Date: 10-18-06						
Analyzed By: MC						
Easting (ft): 3,210,620		Northing (ft): 13,591,627		Coordinate System: Texas South Central		Elevation (ft): -20.2 MLLW
USCS: SP-SM		Munsell: Wet - 5Y-5/1 Dry - 5Y-5/1 Washed - 2.5Y-6/2		Comments:		
Dry Weight (g): 91.31	Wash Weight (g): 88.58	Pan Retained (g): 1.64	Sieve Loss (%): 0.16	Fines (%): #200 - 8.78 #230 - 4.97	Organics (%):	Carbonates (%): Shell Hash (%):
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained
3/4"	-4.25	19.03	0.00	0.00	0.00	0.00
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00
7/16"	-3.50	11.31	0.00	0.00	0.00	0.00
5/16"	-3.00	8.00	0.00	0.00	0.00	0.00
3.5	-2.50	5.66	0.00	0.00	0.00	0.00
4	-2.25	4.76	0.00	0.00	0.00	0.00
5	-2.00	4.00	0.00	0.00	0.00	0.00
7	-1.50	2.83	0.00	0.00	0.00	0.00
10	-1.00	2.00	0.03	0.03	0.03	0.03
14	-0.50	1.41	0.03	0.03	0.06	0.06
18	0.00	1.00	0.01	0.01	0.07	0.07
25	0.50	0.71	0.02	0.02	0.09	0.09
35	1.00	0.50	0.01	0.01	0.10	0.10
45	1.50	0.35	0.02	0.02	0.12	0.12
60	2.00	0.25	0.03	0.03	0.15	0.15
80	2.50	0.18	0.26	0.28	0.41	0.43
120	3.00	0.13	0.58	0.64	0.99	1.07
170	3.50	0.09	70.50	77.21	71.49	78.28
200	3.75	0.07	11.82	12.94	83.31	91.22
230	4.00	0.06	3.48	3.81	86.79	95.03
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
4.00	3.61	3.48	3.32	3.15	3.10	3.03
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	3.31	0.10	0.23	-5.39	105.3	



Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
GCVC-06-17 #1	—●—	-20.2	SP-SM	#200 - 8.78 #230 - 4.97			3.32	3.31	-5.39	105.3	0.23	Project Name:	Texas Geotechnical Sand Search
Comments:												Analysis Date:	10-18-06
Depths and elevations based on measured values												Analyzed By:	MC
						Coastal Planning & Engineering 2481 NW Boca Raton Blvd, Boca Raton FL 33431 ph (561) 391-8102 fax (561) 391-9116						Easting (X, ft):	3,210,620
												Northing (Y, ft):	13,591,627
												Horizontal System:	NAD 1983
												Vertical System:	MLLW