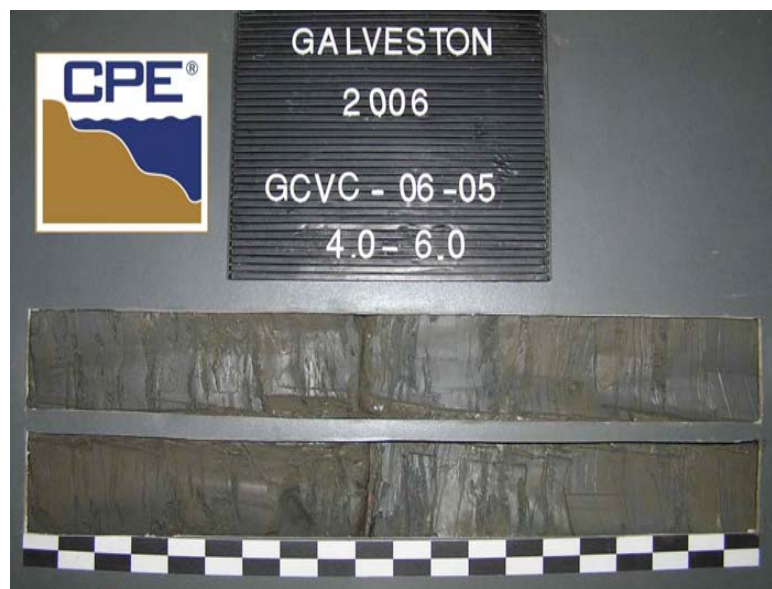
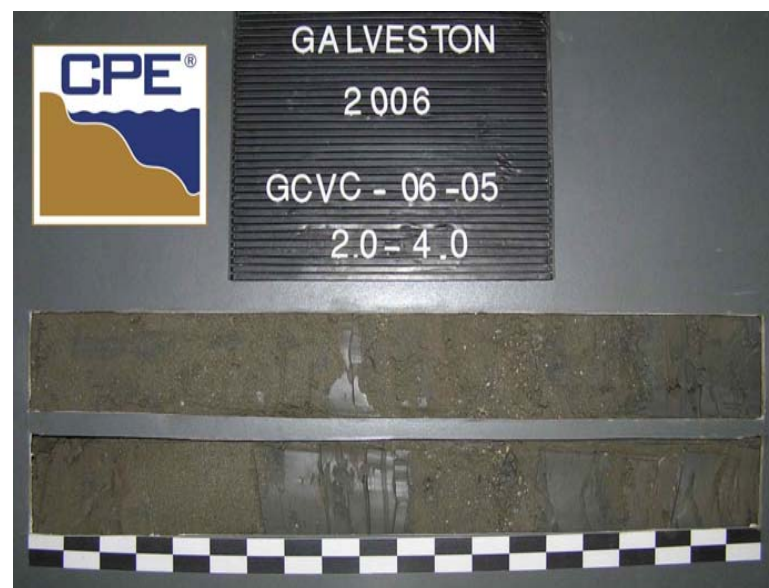
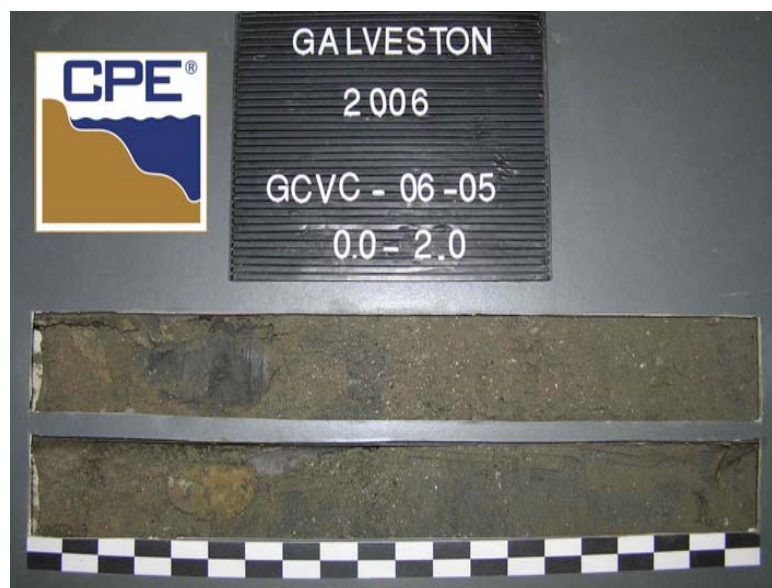
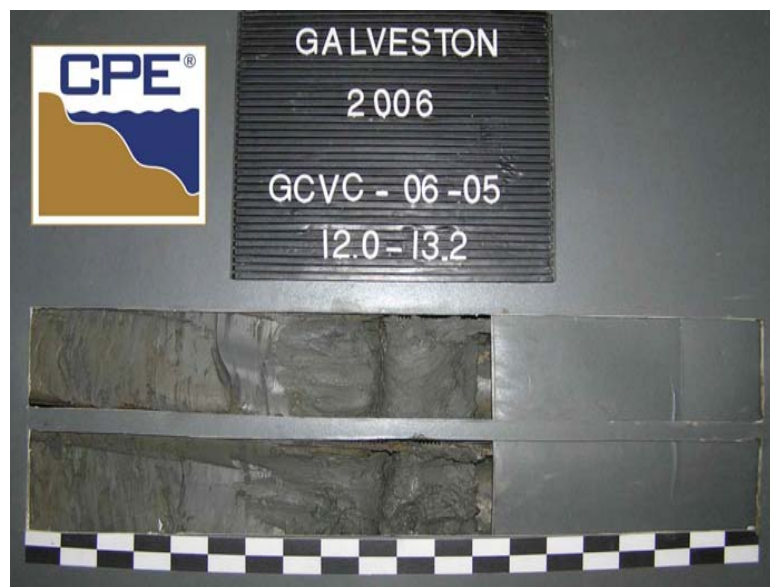




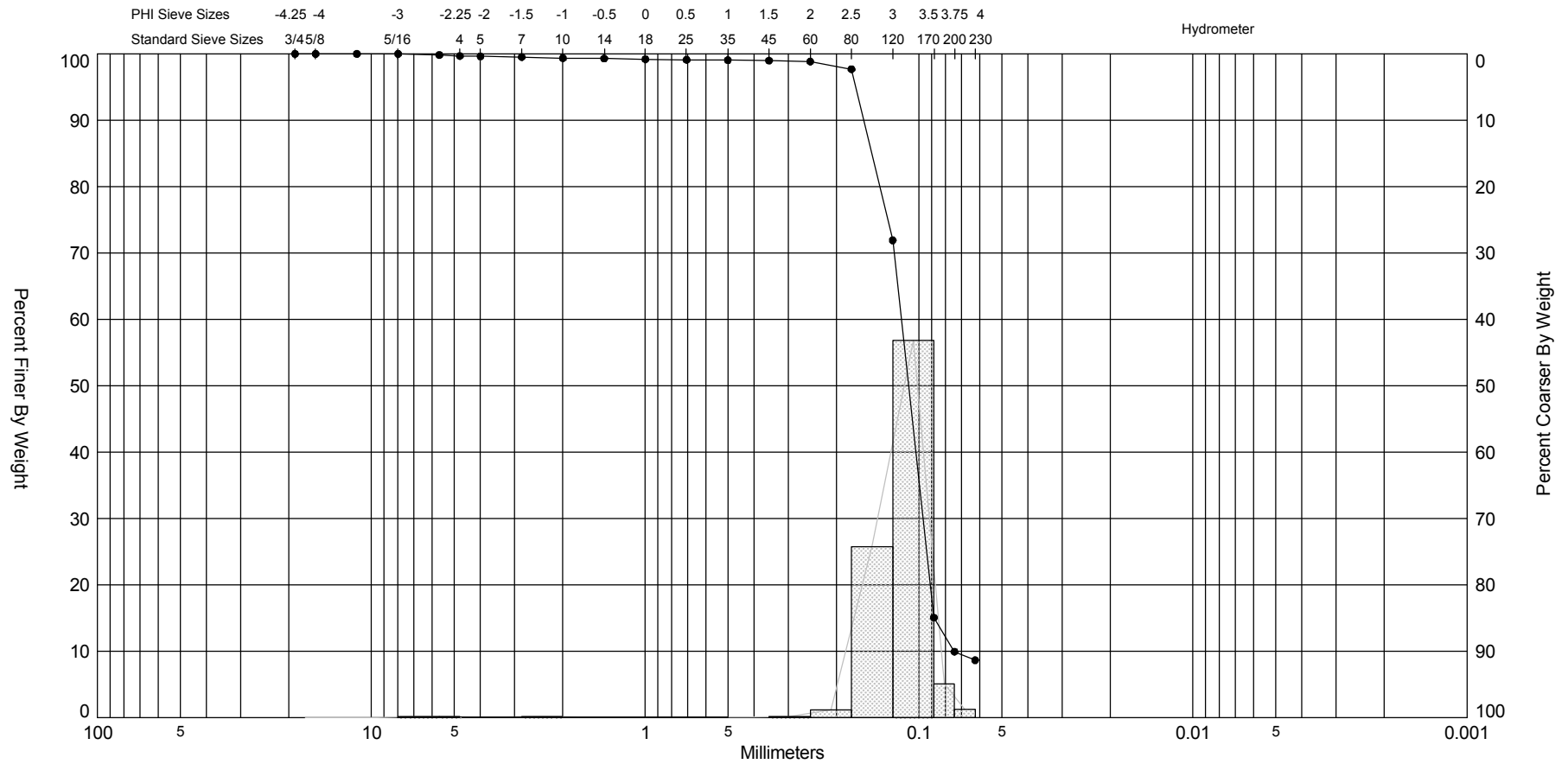


DRILLING LOG		DIVISION	INSTALLATION	SHEET 1
1. PROJECT Texas Geotechnical Sand Search Galveston County Texas			9. SIZE AND TYPE OF BIT 3.0 In.	
2. BORING DESIGNATION GCVC-06-05			10. COORDINATE SYSTEM/DATUM Texas South Central	
3. DRILLING AGENCY Alpine Ocean Seismic Survey, Inc.			11. MANUFACTURER'S 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 STARTED COMPLETED 10-07-06 13:38 10-07-06 13:39	
8. TOTAL DEPTH OF BORING 19.9 Ft.			16. ELEVATION TOP OF BORING -23.3 Ft.	
			17. TOTAL RECOVERY FOR BORING 13.2 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
-23.3	0.0					
-26.7	3.4		SAND, fine grained, quartz, trace clay, trace shell hash, trace silt, 4.0" clay layer @ 2.7'; 4.0" shell hash layer @ 3.3'; olive gray (5Y-4/2), (SP-SM).		1	Sample #1, Depth = 1.5' Mean (mm): 0.12, Phi Sorting: 0.56 Shell Hash: 0%, Fines (230): 8.65% (SP-SM)
-34.2	10.9		CLAY, trace shell fragments, stiff to soft; shell fragments up to 0.5"; 1.0" shell hash layer @ 10.1'; 0.5" fine grained sand layers @ 10.4' and 10.6', olive gray (5Y-5/2), (CL).			
-34.8	11.5		SAND, fine grained, quartz, some silt, olive gray (5Y-5/2), (SP-SM).			
-36.5	13.2		CLAY, trace shell fragments, trace shell hash, shell fragments up to 0.5", olive gray (5Y-5/2), (CL).			
-43.2	19.9		No Recovery.			
			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-06-05 #1							
Analysis Date: 10-16-06							
Analyzed By: ST							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
3,333,949		13,681,697		Texas South Central		-24.8 MLLW	
USCS:		Munsell:		Comments:			
SP-SM		Wet - 5Y-4/2 Dry - 5Y-5/2 Washed - 5Y-5/2					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shell Hash (%):
95.66	88.21	0.65	0.18	#200 - 9.94 #230 - 8.65			0
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	0.16	0.17	0.16	0.17	
4	-2.25	4.76	0.13	0.14	0.29	0.31	
5	-2.00	4.00	0.06	0.06	0.35	0.37	
7	-1.50	2.83	0.10	0.10	0.45	0.47	
10	-1.00	2.00	0.16	0.17	0.61	0.64	
14	-0.50	1.41	0.06	0.06	0.67	0.70	
18	0.00	1.00	0.10	0.10	0.77	0.80	
25	0.50	0.71	0.09	0.09	0.86	0.89	
35	1.00	0.50	0.06	0.06	0.92	0.95	
45	1.50	0.35	0.07	0.07	0.99	1.02	
60	2.00	0.25	0.12	0.13	1.11	1.15	
80	2.50	0.18	1.10	1.15	2.21	2.30	
120	3.00	0.13	24.67	25.79	26.88	28.09	
170	3.50	0.09	54.38	56.85	81.26	84.94	
200	3.75	0.07	4.90	5.12	86.16	90.06	
230	4.00	0.06	1.23	1.29	87.39	91.35	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
	3.49	3.41	3.19	2.94	2.77	2.55	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	3.07	0.12	0.56	-6.36	58.53		



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-06-05 #1	—●—	-24.8	SP-SM	#200 - 9.94 #230 - 8.65			3.19	3.07	-6.36	58.53	0.56	Project Name:	Texas Geotechnical Sand Search
Comments:												Analysis Date:	10-16-06
Depths and elevations based on measured values												Analyzed By:	ST
						Coastal Planning & Engineering 2481 NW Boca Raton Blvd, Boca Raton FL 33431 ph (561) 391-8102 fax (561) 391-9116						Easting (X, ft):	3,333,949
												Northing (Y, ft):	13,681,697
												Horizontal System:	NAD 1983
												Vertical System:	MLLW