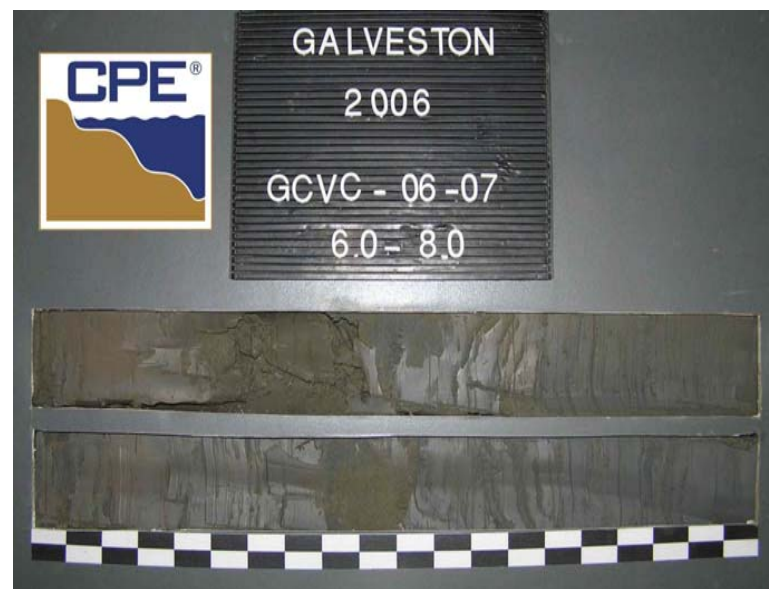
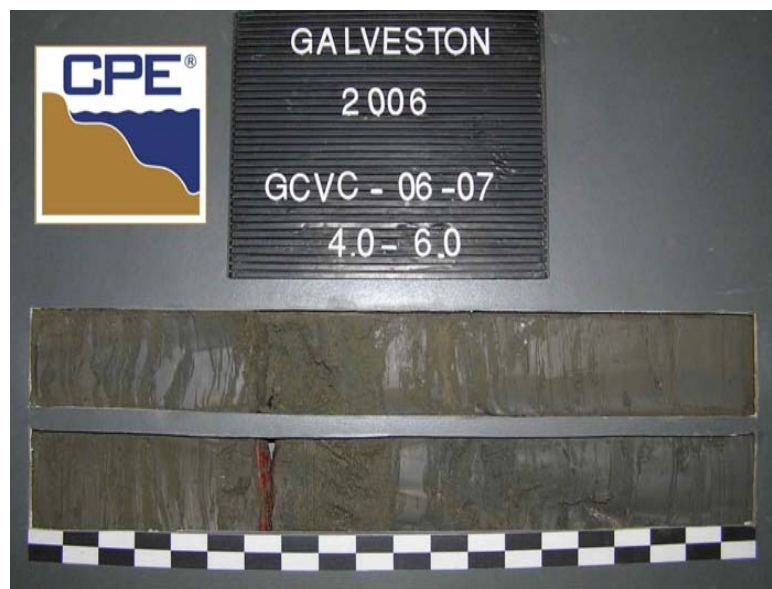
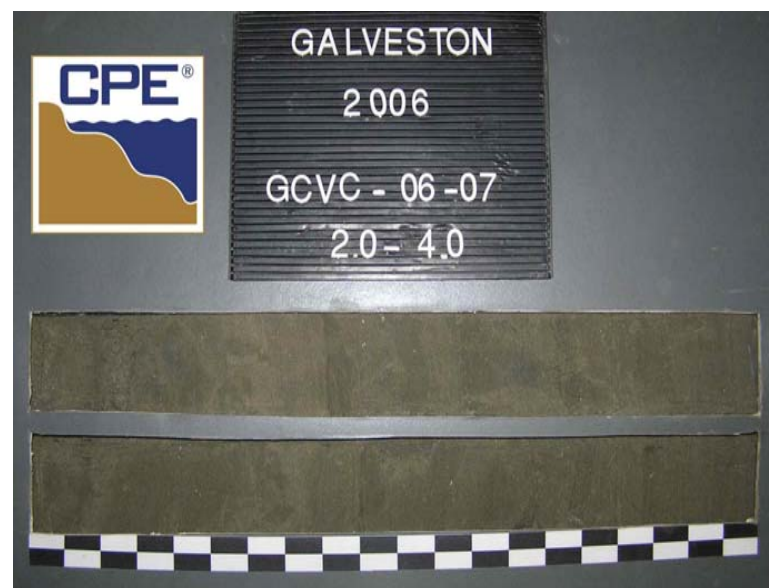
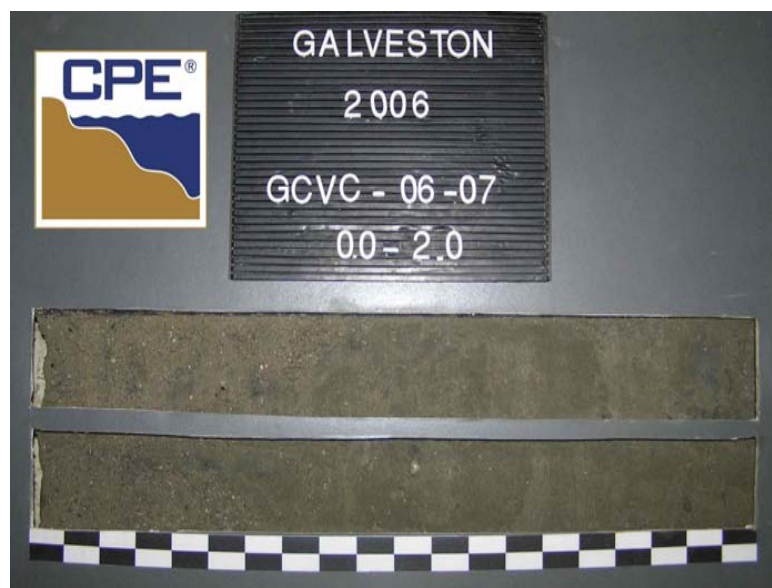
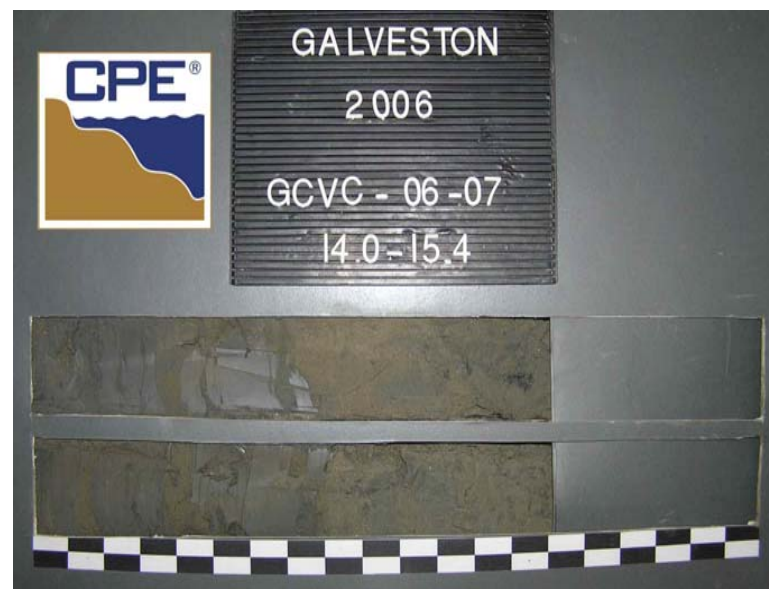
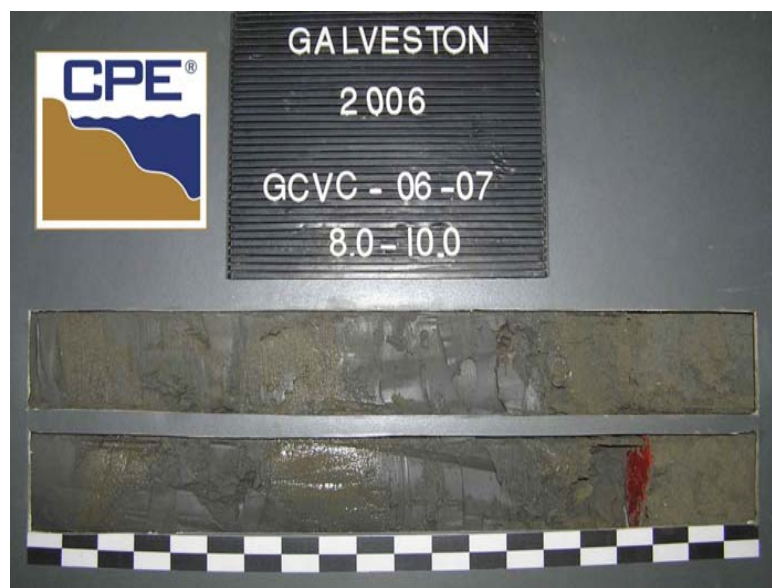






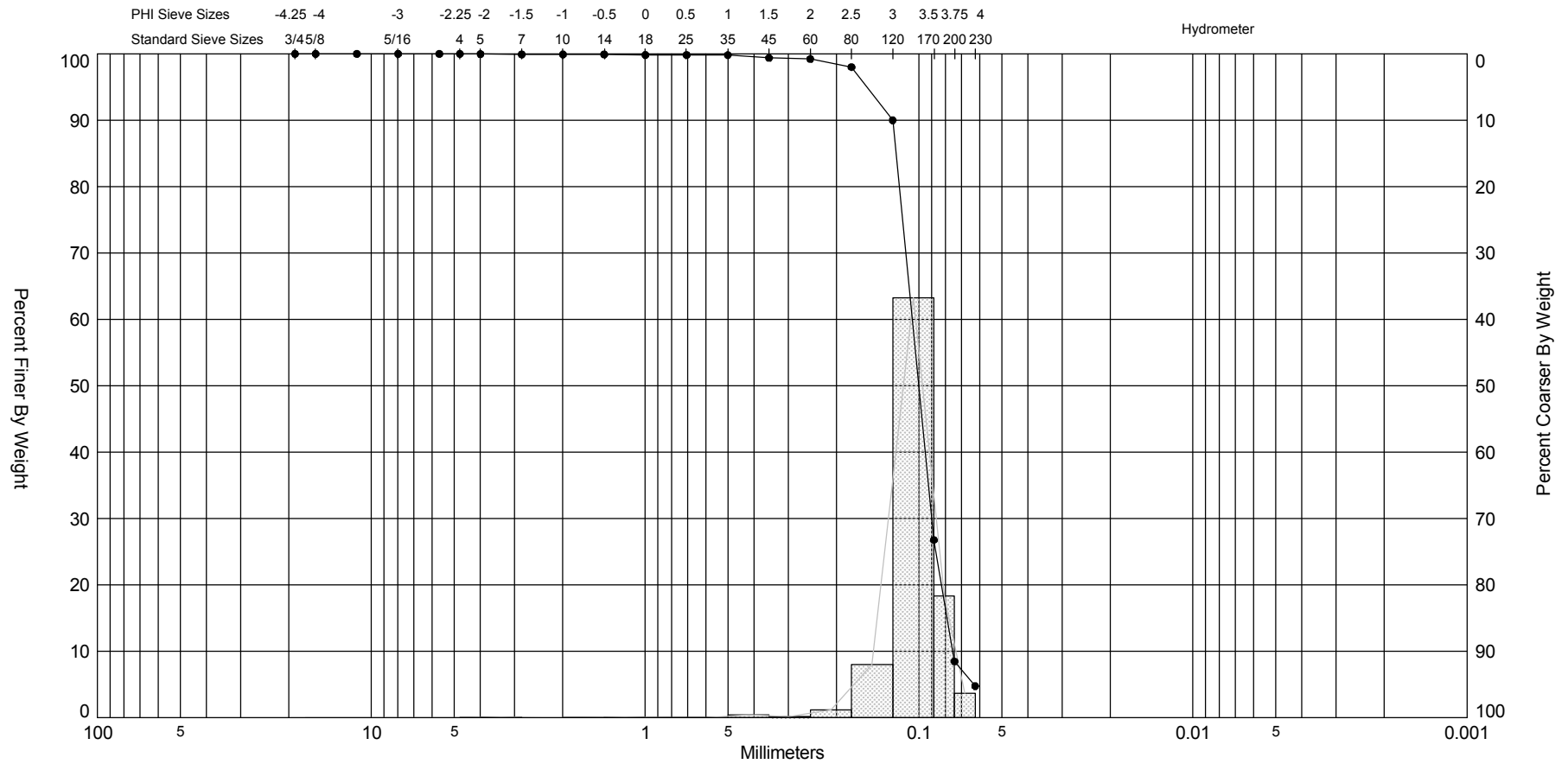
DRILLING LOG		DIVISION	INSTALLATION	SHEET 1
1. PROJECT		9. SIZE AND TYPE OF BIT 3.0 In.		
Texas Geotechnical Sand Search Galveston County Texas		10. COORDINATE SYSTEM/DATUM HORIZONTAL VERTICAL Texas South Central NAD 1983 MLLW		
2. BORING DESIGNATION		11. MANUFACTURER'S DESIGNATION OF DRILL ☐ AUTO HAMMER ☐ MANUAL HAMMER		
GCVC-06-07		12. TOTAL SAMPLES DISTURBED UNDISTURBED (UD) X = 3,333,922 Y = 13,689,683		
3. DRILLING AGENCY		13. TOTAL NUMBER CORE BOXES		
Alpine Ocean Seismic Survey, Inc.		14. ELEVATION GROUND WATER		
4. NAME OF DRILLER		15. DATE BORING STARTED COMPLETED		
Charles Dill		10-07-06 15:17 10-07-06 15:19		
5. DIRECTION OF BORING		16. ELEVATION TOP OF BORING -18.2 Ft.		
☒ VERTICAL ☐ INCLINED		17. TOTAL RECOVERY FOR BORING 15.4 Ft.		
6. THICKNESS OF OVERBURDEN 0.0 Ft.		18. SIGNATURE AND TITLE OF INSPECTOR		
7. DEPTH DRILLED INTO ROCK 0.0 Ft.		ML		
8. TOTAL DEPTH OF BORING 19.3 Ft.				

ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIALS Depths and elevations based on measured values	% REC.	BOX OR SAMPLE	REMARKS
-18.2	0.0					
-22.4	4.2		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: 0.37 Shell Hash: 0%, Fines (230): 4.76% (SP-SM)
-25.7	7.5		CLAY, trace shell hash, stiff to soft, dark gray (5Y-4/1), (CL).			
-32.0	13.8		SAND, fine grained, quartz, trace clay, trace shell hash, trace silt, 3.0" clay layers @ 7.7' and 8.4', gray (5Y-5/1), (SP).		2	Sample #2, Depth = 11.0' Mean (mm): 0.11, Phi Sorting: 0.24 Shell Hash: 0%, Fines (230): 3.08% (SP)
-33.6	15.4		CLAY, trace shell hash, stiff to soft, dark gray (5Y-4/1), (CL).			
-37.5	19.3		No Recovery.			
			End of Boring			

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

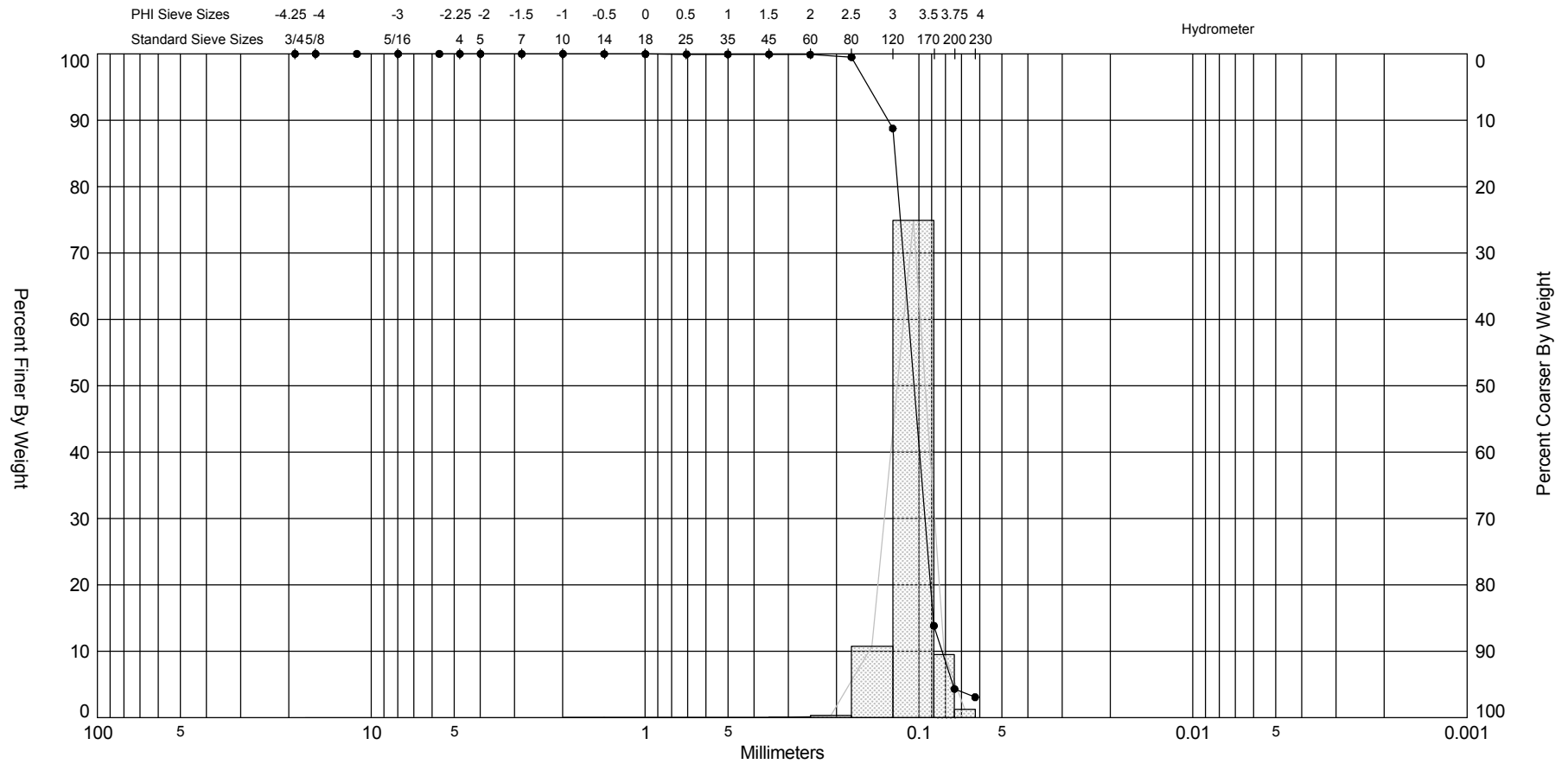
Granularmetric Report Depths and elevations based on measured values				 Coastal Planning & Engineering 2481 NW Boca Raton Blvd, Boca Raton FL 33431 ph (561) 391-8102 fax (561) 391-9116			
Project Name: Texas Geotechnical Sand Search							
Sample Name: GCVC-06-07 #1							
Analysis Date: 10-16-06							
Analyzed By: ST							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
3,333,922		13,689,683		Texas South Central		-20.2 MLLW	
USCS:		Munsell:		Comments:			
SP-SM		Wet - 5Y-5/1 Dry - 5Y-5/1 Washed - 5Y-5/2					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shell Hash (%):
97.27	94.35	1.51	0.20	#200 - 8.46 #230 - 4.76			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	0.00	0.00	0.00	0.00	
4	-2.25	4.76	0.00	0.00	0.00	0.00	
5	-2.00	4.00	0.03	0.03	0.03	0.03	
7	-1.50	2.83	0.05	0.05	0.08	0.08	
10	-1.00	2.00	0.00	0.00	0.08	0.08	
14	-0.50	1.41	0.01	0.01	0.09	0.09	
18	0.00	1.00	0.07	0.07	0.16	0.16	
25	0.50	0.71	0.01	0.01	0.17	0.17	
35	1.00	0.50	0.01	0.01	0.18	0.18	
45	1.50	0.35	0.43	0.44	0.61	0.62	
60	2.00	0.25	0.16	0.16	0.77	0.78	
80	2.50	0.18	1.17	1.20	1.94	1.98	
120	3.00	0.13	7.80	8.02	9.74	10.00	
170	3.50	0.09	61.50	63.23	71.24	73.23	
200	3.75	0.07	17.81	18.31	89.05	91.54	
230	4.00	0.06	3.60	3.70	92.65	95.24	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.98	3.65	3.52	3.32	3.12	3.05	2.69	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	3.27	0.10	0.37	-4.45	50.09		

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-06-07 #2							
Analysis Date: 10-16-06							
Analyzed By: ST				Coordinate System:		Elevation (ft):	
Easting (ft):		Northing (ft):					
3,333,922		13,689,683		Texas South Central		-29.2 MLLW	
USCS:		Munsell:		Comments:			
SP		Wet - 5Y-5/1 Dry - 5Y-6/1 Washed - 5Y-6/1					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shell Hash (%):
96.24	93.94	0.57	0.09	#200 - 4.32 #230 - 3.08			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	0.00	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	0.00	0.00	0.00	0.00	
14	-0.50	1.41	0.02	0.02	0.02	0.02	
18	0.00	1.00	0.01	0.01	0.03	0.03	
25	0.50	0.71	0.02	0.02	0.05	0.05	
35	1.00	0.50	0.01	0.01	0.06	0.06	
45	1.50	0.35	0.01	0.01	0.07	0.07	
60	2.00	0.25	0.05	0.05	0.12	0.12	
80	2.50	0.18	0.36	0.37	0.48	0.49	
120	3.00	0.13	10.34	10.74	10.82	11.23	
170	3.50	0.09	72.11	74.93	82.93	86.16	
200	3.75	0.07	9.16	9.52	92.09	95.68	
230	4.00	0.06	1.19	1.24	93.28	96.92	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.73	3.49	3.43	3.26	3.09	3.03	2.71	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	3.23	0.11	0.24	-2.42	31.3		



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-06-07 #1	—●—	-20.2	SP-SM	#200 - 8.46 #230 - 4.76			3.32	3.27	-4.45	50.09	0.37	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):	3,333,922
												Northing (Y, ft):	13,689,683
												Horizontal System:	NAD 1983
												Vertical System:	MLLW



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	
GVCV-06-07 #2	—●—	-29.2	SP	#200 - 4.32 #230 - 3.08			3.26	3.23	-2.42	31.3	0.24	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						Easting (X, ft):	3,333,922
						2481 NW Boca Raton Blvd, Boca Raton						Northing (Y, ft):	13,689,683
						FL 33431						Horizontal System:	NAD 1983
						ph (561) 391-8102 fax (561) 391-9116						Vertical System:	MLLW