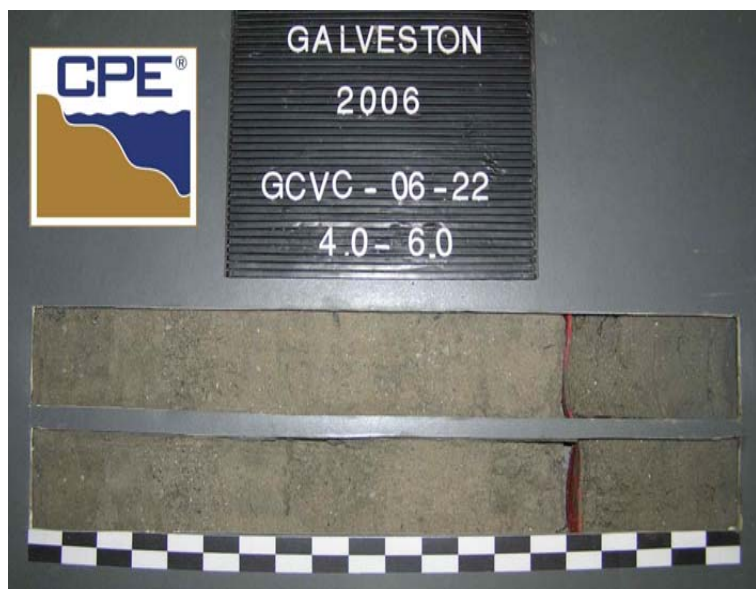
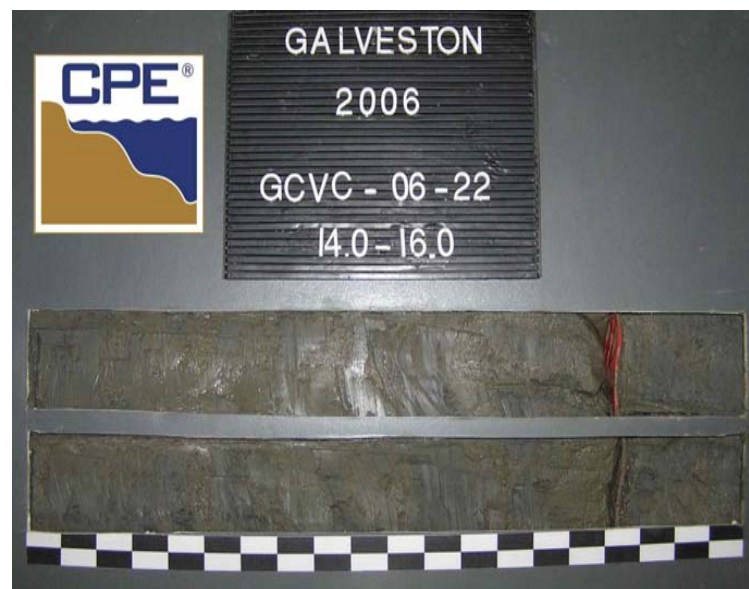
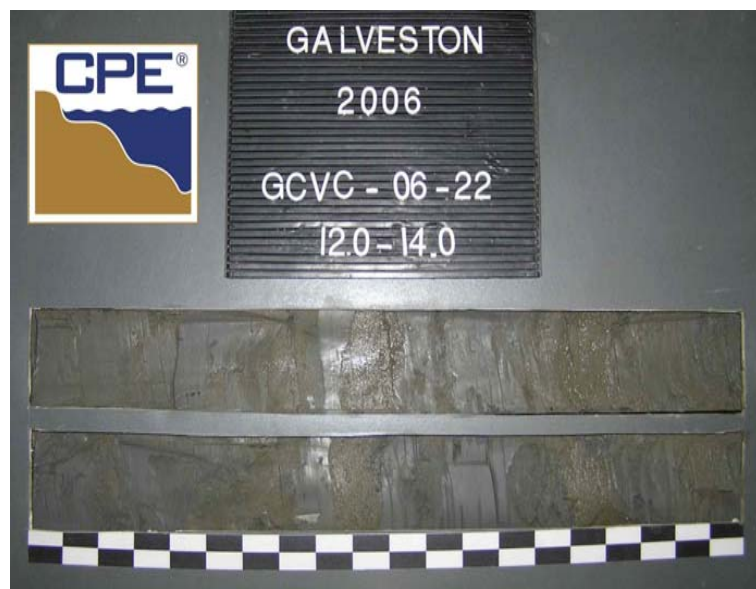
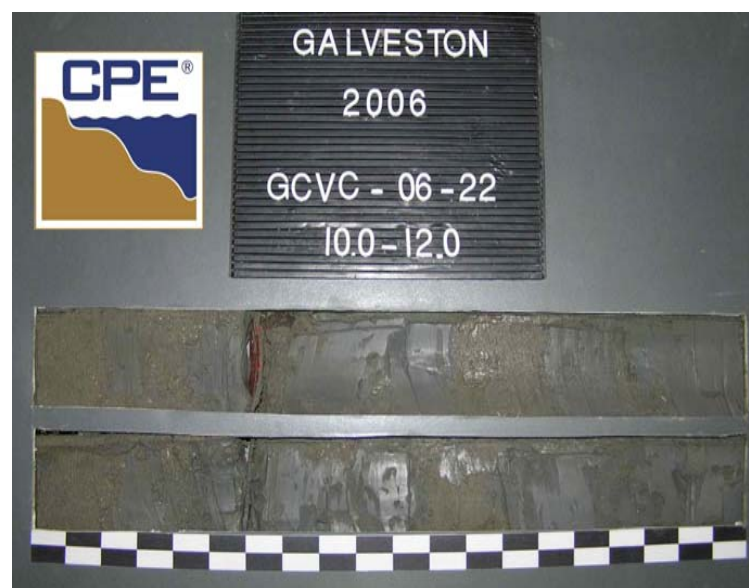
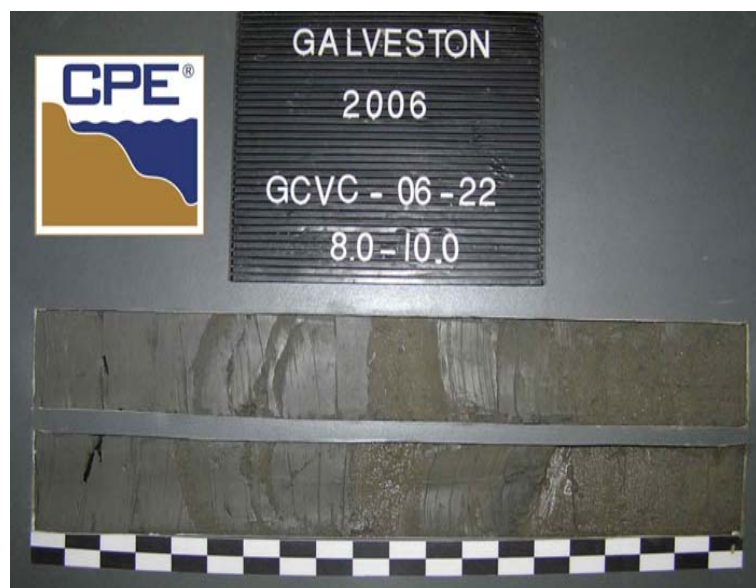
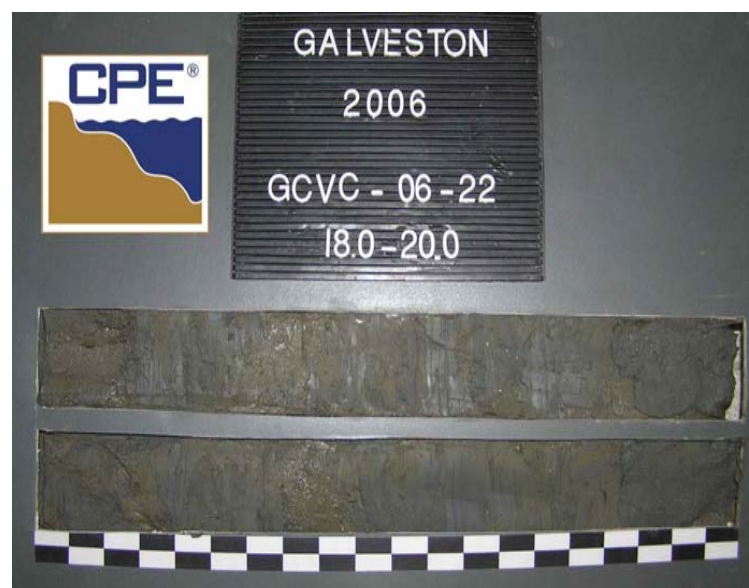








DRILLING LOG		DIVISION	INSTALLATION	SHEET 1 OF 1 SHEETS
1. PROJECT Texas Geotechnical Sand Search Galveston County Texas			9. SIZE AND TYPE OF BIT 3.0 In.	
2. BORING DESIGNATION GCVC-06-22			10. COORDINATE SYSTEM/DATUM Texas South Central	
3. DRILLING AGENCY Alpine Ocean Seismic Survey, Inc.			11. MANUFACTURER'S 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 10-10-06 10:06 COMPLETED 10-10-06 10:08	
8. TOTAL DEPTH OF BORING 19.6 Ft.			16. ELEVATION TOP OF BORING -18.7 Ft.	
			17. TOTAL RECOVERY FOR BORING 20 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
-18.7	0.0					
			SAND, fine grained, quartz, trace shell fragments, trace shell hash, trace silt, shell fragments up to 0.5"; 3.0" layer of shell fragments and shell hash @ 4.4', gray (5Y-5/1), (SP).		1	Sample #1, Depth = 1.0' Mean (mm): 0.13, Phi Sorting: 0.61 Shell Hash: 0%, Fines (230): 3.49% (SP)
-24.8	6.1				2	Sample #2, Depth = 4.0' Mean (mm): 0.15, Phi Sorting: 0.66 Shell Hash: 1%, Fines (230): 2.19% (SP)
-28.1	9.4		CLAY, trace sand, soft to stiff; 1.0" sand layers @ 6.2' and 8.4'; 2.0" sand layers @ 7.2' and 8.9', gray (5Y-5/1), (CL).			
-28.9	10.2		SAND, fine grained, quartz, little silt, gray (5Y-5/1), (SM).			
			CLAY, little sand, soft to stiff; 1.0" sand layers @ 12.7', 13.5', and 15.9'; 2.0" sand layers @ 16.5', 18.0', and 18.7'; 3.0" sand layers @ 11.2', 15.3' and 17.5', gray (5Y-5/1), (CL).			
-38.3	19.6					
-38.7	20.0		Expansion Material, (CL).			
			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-06-22 #1							
Analysis Date: 10-23-06							
Analyzed By: TF							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
3,319,612		13,680,434		Texas South Central		-19.7 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 (%):
83.56	80.78	0.14	0.01	#200 - 4.05 #230 - 3.49			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	0.10	0.12	0.10	0.12	
5	-2.00	4.00	0.08	0.10	0.18	0.22	
7	-1.50	2.83	0.22	0.26	0.40	0.48	
10	-1.00	2.00	0.28	0.34	0.68	0.82	
14	-0.50	1.41	0.31	0.37	0.99	1.19	
18	0.00	1.00	0.14	0.17	1.13	1.36	
25	0.50	0.71	0.11	0.13	1.24	1.49	
35	1.00	0.50	0.10	0.12	1.34	1.61	
45	1.50	0.35	0.10	0.12	1.44	1.73	
60	2.00	0.25	0.18	0.22	1.62	1.95	
80	2.50	0.18	1.48	1.77	3.10	3.72	
120	3.00	0.13	30.23	36.18	33.33	39.90	
170	3.50	0.09	43.95	52.60	77.28	92.50	
200	3.75	0.07	2.88	3.45	80.16	95.95	
230	4.00	0.06	0.47	0.56	80.63	96.51	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.68	3.42	3.33	3.10	2.79	2.67	2.52	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	2.99	0.13	0.61	-5.26	38.82		

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-06-22 #2

Analysis Date: 10-23-06

Analyzed By: TF

Easting (ft):

3,319,612

Northing (ft):

13,680,434

Coordinate System:

Texas South Central

Elevation (ft):

-22.7 MLLW

USCS:

SP

Munsell:

Wet - 5Y-5/1
Dry - 5Y-6/1
Washed - 5Y-6/1

Comments:

Dry Weight (g):

82.38

Wash Weight (g):

80.68

Pan Retained (g):

0.10

Sieve Loss (%):

0.00

Fines (%):

#200 - 2.48
#230 - 2.19

Organics (%):

Carbonates (%):

Shell Hash (%):

1

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

0.48

0.58

0.48

0.58

4

-2.25

4.76

0.09

0.11

0.57

0.69

5

-2.00

4.00

0.11

0.13

0.68

0.82

7

-1.50

2.83

0.08

0.10

0.76

0.92

10

-1.00

2.00

0.11

0.13

0.87

1.05

14

-0.50

1.41

0.09

0.11

0.96

1.16

18

0.00

1.00

0.06

0.07

1.02

1.23

25

0.50

0.71

0.15

0.18

1.17

1.41

35

1.00

0.50

0.27

0.33

1.44

1.74

45

1.50

0.35

0.31

0.38

1.75

2.12

60

2.00

0.25

0.76

0.92

2.51

3.04

80

2.50

0.18

11.27

13.68

13.78

16.72

120

3.00

0.13

49.78

60.43

63.56

77.15

170

3.50

0.09

15.99

19.41

79.55

96.56

200

3.75

0.07

0.79

0.96

80.34

97.52

230

4.00

0.06

0.24

0.29

80.58

97.81

Phi 5

Phi 16

Phi 25

Phi 50

Phi 75

Phi 84

Phi 95

3.46

3.18

2.98

2.78

2.57

2.47

2.07

Moment

Mean Phi

Mean mm

Sorting

Skewness

Kurtosis

Statistics

2.7

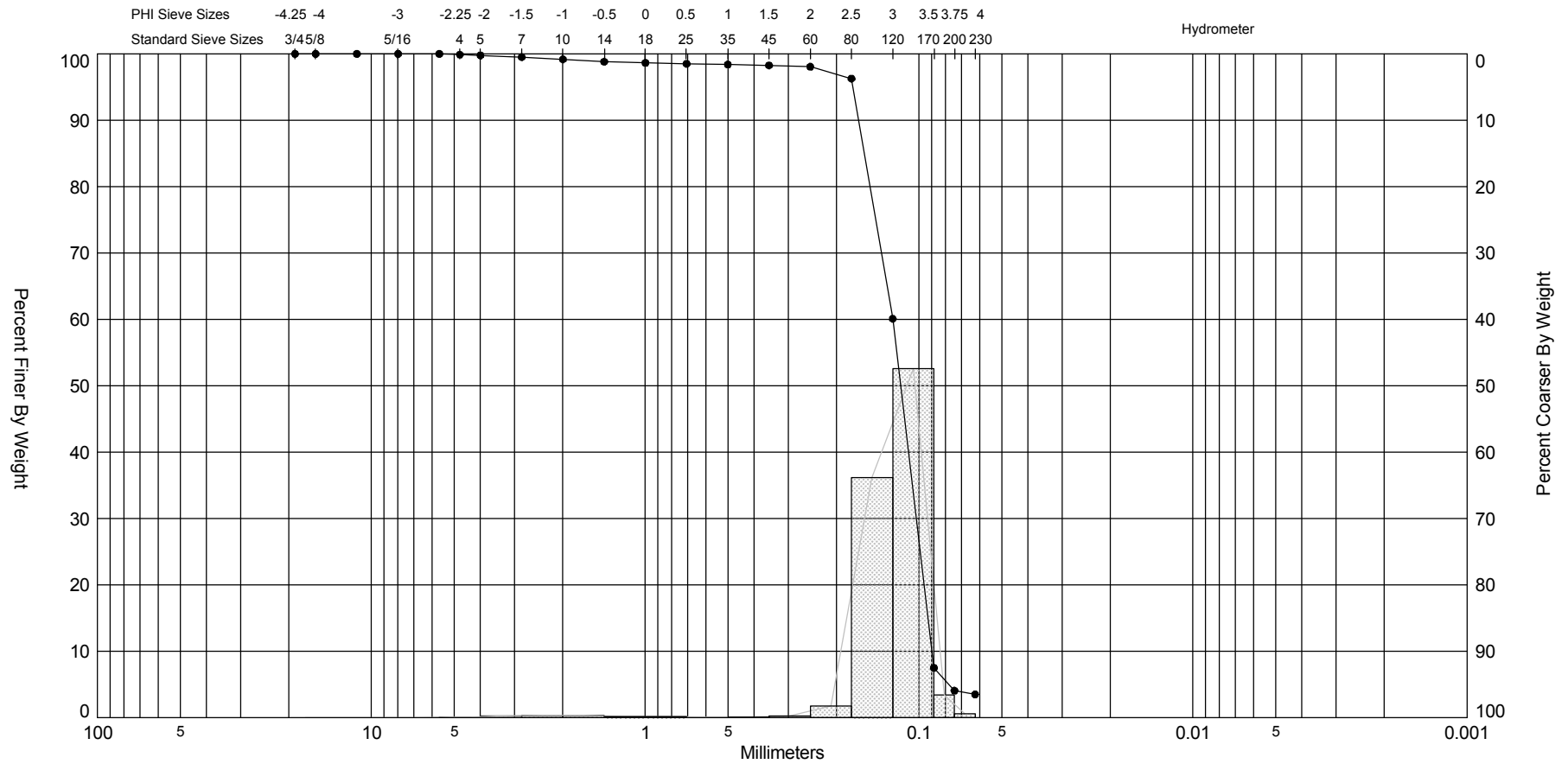
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0.66

-5.27

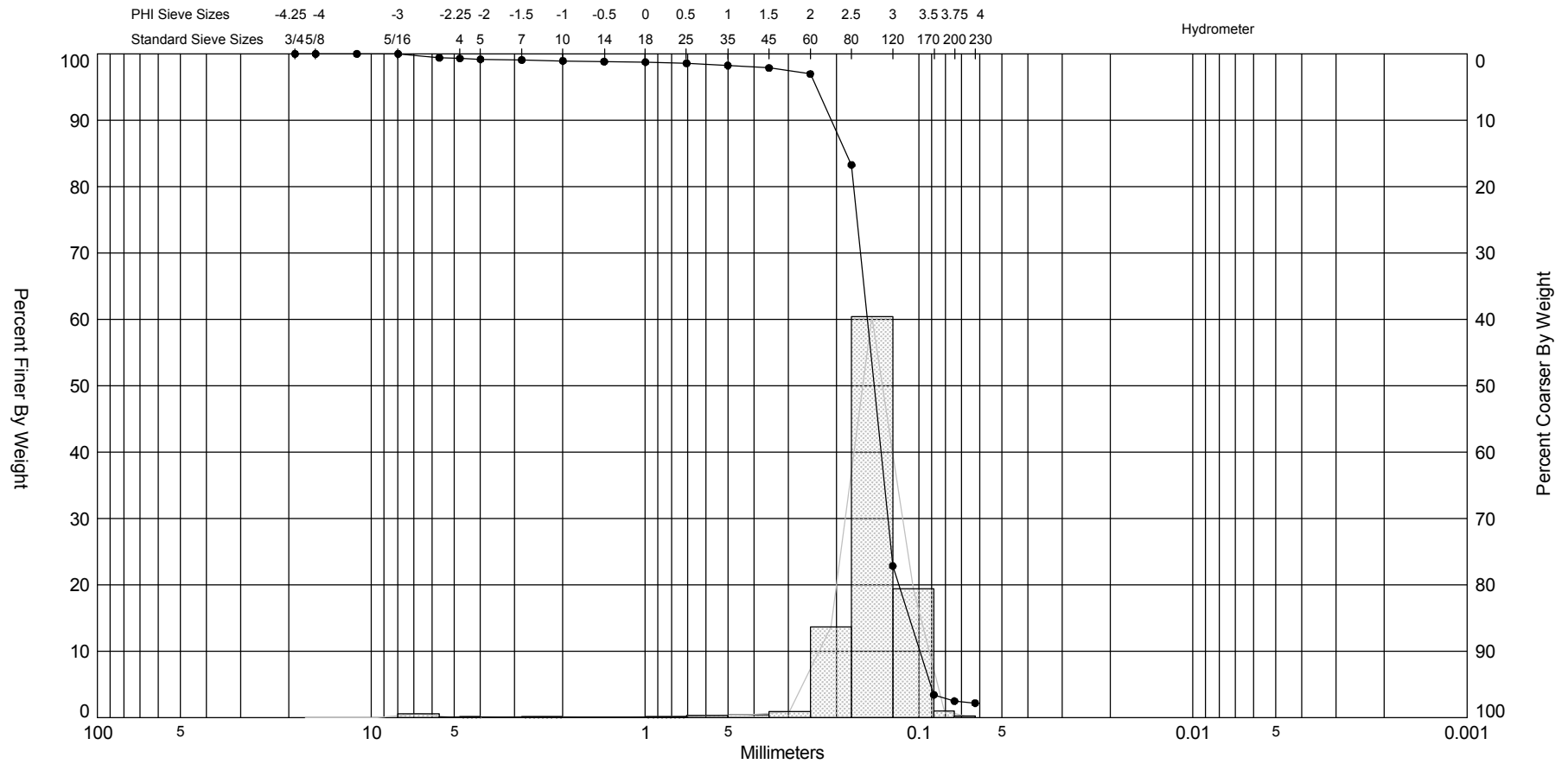
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GRANULARMETRIC REPORT GALVESTON_VIBRACORES_2006.GPJ FL DEP ROSS.GDT 12/14/06



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-06-22 #1	—●—	-19.7	SP	#200 - 4.05 #230 - 3.49			3.1	2.99	-5.26	38.82	0.61	Project Name:	Texas Geotechnical Sand Search
Comments:												Analysis Date:	10-23-06
Depths and elevations based on measured values												Analyzed By:	TF
						Coastal Planning & Engineering 2481 NW Boca Raton Blvd, Boca Raton FL 33431 ph (561) 391-8102 fax (561) 391-9116						Easting (X, ft):	3,319,612
												Northing (Y, ft):	13,680,434
												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-06-22 #2	—●—	-22.7	SP	#200 - 2.48 #230 - 2.19			2.78	2.7	-5.27	40.45	0.66	Project Name:	Texas Geotechnical Sand Search
Comments:												Analysis Date:	10-23-06
Depths and elevations based on measured values												Analyzed By:	TF
						Coastal Planning & Engineering						Easting (X, ft):	3,319,612
						2481 NW Boca Raton Blvd, Boca Raton						Northing (Y, ft):	13,680,434
						FL 33431						Horizontal System:	NAD 1983
						ph (561) 391-8102 fax (561) 391-9116						Vertical System:	MLLW