


<b>Granularmetric Report</b> Depths and elevations based on measured values				 <b>Coastal Planning &amp; Engineering</b> 2481 NW Boca Raton Blvd, Boca Raton FL 33431 ph (561) 391-8102 fax (561) 391-9116			
Project Name: St. Lucie Vibracores							
Sample Name: SLVC-06-28 #1							
Analysis Date: 06-21-06							
Analyzed By: DA							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
914,215		1,087,635		Florida State Plane East		-33.8 NAVD 88	
USCS:		Munsell:		Comments:			
SW		Wet - 2.5Y-4/2 Dry - 2.5Y-5/2 Washed - 5Y-6/2					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shell Hash (%):
87.25	85.81	0.03	0.03	#200 - 1.84 #230 - 1.73			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	0.07	0.08	0.07	0.08	
4	-2.25	4.76	0.06	0.07	0.13	0.15	
5	-2.00	4.00	0.24	0.28	0.37	0.43	
7	-1.50	2.83	0.55	0.63	0.92	1.06	
10	-1.00	2.00	0.96	1.10	1.88	2.16	
14	-0.50	1.41	1.96	2.25	3.84	4.41	
18	0.00	1.00	2.97	3.40	6.81	7.81	
25	0.50	0.71	6.63	7.60	13.44	15.41	
35	1.00	0.50	12.45	14.27	25.89	29.68	
45	1.50	0.35	18.76	21.50	44.65	51.18	
60	2.00	0.25	26.24	30.07	70.89	81.25	
80	2.50	0.18	12.55	14.38	83.44	95.63	
120	3.00	0.13	1.43	1.64	84.87	97.27	
170	3.50	0.09	0.44	0.50	85.31	97.77	
200	3.75	0.07	0.34	0.39	85.65	98.16	
230	4.00	0.06	0.10	0.11	85.75	98.27	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.48	2.10	1.90	1.47	0.84	0.52	-0.41	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.29	0.41	0.88	-0.98	4.8		

# 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: St. Lucie Vibracores

Sample Name: SLVC-06-28 #2

Analysis Date: 06-15-06

Analyzed By: DA

Easting (ft):

914,215

Northing (ft):

1,087,635

Coordinate System:

Florida State Plane East

Elevation (ft):

-36.6 NAVD 88

USCS:

SW

Munsell:

Wet - 2.5Y-4/2  
Dry - 5Y-5/2  
Washed - 5Y-5/1

Comments:

Dry Weight (g):

86.99

Wash Weight (g):

84.50

Pan Retained (g):

0.07

Sieve Loss (%):

0.02

Fines (%):

#200 - 3.34  
#230 - 2.95

Organics (%):

Carbonates (%):

Shell Hash (%):

4

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	1.69	1.94	1.69	1.94
5/16"	-3.00	8.00	0.21	0.24	1.90	2.18
3.5	-2.50	5.66	0.26	0.30	2.16	2.48
4	-2.25	4.76	0.33	0.38	2.49	2.86
5	-2.00	4.00	0.11	0.13	2.60	2.99
7	-1.50	2.83	0.51	0.59	3.11	3.58
10	-1.00	2.00	0.86	0.99	3.97	4.57
14	-0.50	1.41	2.03	2.33	6.00	6.90
18	0.00	1.00	2.63	3.02	8.63	9.92
25	0.50	0.71	5.79	6.66	14.42	16.58
35	1.00	0.50	10.02	11.52	24.44	28.10
45	1.50	0.35	15.43	17.74	39.87	45.84
60	2.00	0.25	25.26	29.04	65.13	74.88
80	2.50	0.18	14.52	16.69	79.65	91.57
120	3.00	0.13	2.26	2.60	81.91	94.17
170	3.50	0.09	1.19	1.37	83.10	95.54
200	3.75	0.07	0.97	1.12	84.07	96.66
230	4.00	0.06	0.34	0.39	84.41	97.05

Phi 5

Phi 16

Phi 25

Phi 50

Phi 75

Phi 84

Phi 95

3.30

2.27

2.00

1.57

0.87

0.46

-0.91

Moment

Mean Phi

Mean mm

Sorting

Skewness

Kurtosis

Statistics

1.27


0.41

1.23

-1.8

7.96

GRANULARMETRIC REPORT ST LUCIE VC.GPJ FL DEP ROSS.GDT 6/28/06

<b>Granularmetric Report</b> 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: St. Lucie Vibracores							
Sample Name: SLVC-06-28 #4							
Analysis Date: 06-21-06							
Analyzed By: JF							
Easting (ft): <div style="text-align: center;">914,215</div>		Northing (ft): <div style="text-align: center;">1,087,635</div>		Coordinate System: <div style="text-align: center;">Florida State Plane East</div>		Elevation (ft): <div style="text-align: center;">-39.8 NAVD 88</div>	
USCS: <div style="text-align: center;">SW</div>		Munsell: Wet - N-4/0 Dry - N-4/0 Washed - N-5/0		Comments:			
Dry Weight (g): <div style="text-align: center;">89.28</div>	Wash Weight (g): <div style="text-align: center;">87.59</div>	Pan Retained (g): <div style="text-align: center;">0.03</div>	Sieve Loss (%): <div style="text-align: center;">0.01</div>	Fines (%): #200 - 2.14 #230 - 1.95	Organics (%):	Carbonates (%):	Shell Hash (%): <div style="text-align: center;">4</div>
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	0.22	0.25	0.22	0.25	
5/16"	-3.00	8.00	0.98	1.10	1.20	1.35	
3.5	-2.50	5.66	0.45	0.50	1.65	1.85	
4	-2.25	4.76	0.36	0.40	2.01	2.25	
5	-2.00	4.00	0.44	0.49	2.45	2.74	
7	-1.50	2.83	1.54	1.72	3.99	4.46	
10	-1.00	2.00	2.27	2.54	6.26	7.00	
14	-0.50	1.41	3.32	3.72	9.58	10.72	
18	0.00	1.00	4.06	4.55	13.64	15.27	
25	0.50	0.71	7.37	8.25	21.01	23.52	
35	1.00	0.50	10.33	11.57	31.34	35.09	
45	1.50	0.35	13.56	15.19	44.90	50.28	
60	2.00	0.25	22.34	25.02	67.24	75.30	
80	2.50	0.18	15.98	17.90	83.22	93.20	
120	3.00	0.13	2.83	3.17	86.05	96.37	
170	3.50	0.09	0.87	0.97	86.92	97.34	
200	3.75	0.07	0.46	0.52	87.38	97.86	
230	4.00	0.06	0.17	0.19	87.55	98.05	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.78	2.24	1.99	1.49	0.56	0.04	-1.39	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.12	0.46	1.25	-1.23	4.79		

# 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: St. Lucie Vibracores

Sample Name: SLVC-06-28 #3

Analysis Date: 06-15-06

Analyzed By: DA

Easting (ft):

914,215

Northing (ft):

1,087,635

Coordinate System:

Florida State Plane East

Elevation (ft):

-40.6 NAVD 88

USCS:

SW-SM

Munsell:

Wet - N-4/0

Dry - N-4/0

Washed - N-5/0

Comments:

Dry Weight (g):

83.96

Wash Weight (g):

80.52

Pan Retained (g):

0.52

Sieve Loss (%):

0.18

Fines (%):

#200 - 6.67

#230 - 4.91

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	0.11	0.13	0.11	0.13
3.5	-2.50	5.66	0.18	0.21	0.29	0.34
4	-2.25	4.76	0.01	0.01	0.30	0.35
5	-2.00	4.00	0.15	0.18	0.45	0.53
7	-1.50	2.83	0.29	0.35	0.74	0.88
10	-1.00	2.00	0.70	0.83	1.44	1.71
14	-0.50	1.41	0.86	1.02	2.30	2.73
18	0.00	1.00	1.15	1.37	3.45	4.10
25	0.50	0.71	2.31	2.75	5.76	6.85
35	1.00	0.50	4.47	5.32	10.23	12.17
45	1.50	0.35	7.83	9.33	18.06	21.50
60	2.00	0.25	18.90	22.51	36.96	44.01
80	2.50	0.18	27.08	32.25	64.04	76.26
120	3.00	0.13	9.25	11.02	73.29	87.28
170	3.50	0.09	3.03	3.61	76.32	90.89
200	3.75	0.07	2.05	2.44	78.37	93.33
230	4.00	0.06	1.48	1.76	79.85	95.09

Phi 5

Phi 16

Phi 25

Phi 50

Phi 75

Phi 84

Phi 95

3.99

2.85

2.48

2.09

1.58

1.21

0.16

Moment

Mean Phi

Mean mm

Sorting

Skewness

Kurtosis

Statistics

1.91

0.27

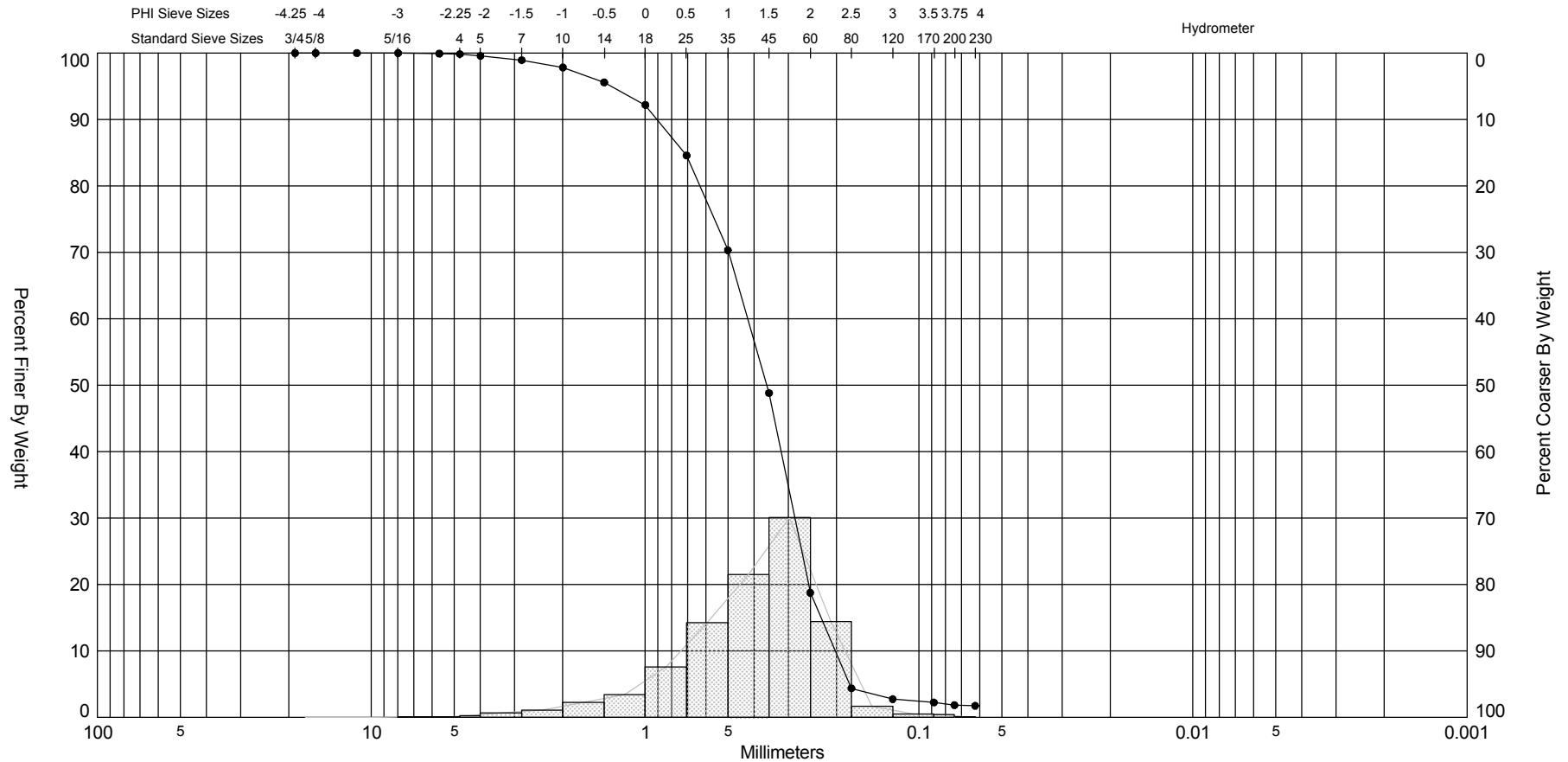
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-1.28


6.81

GRANULARMETRIC REPORT ST LUCIE VC.GPJ FL DEP ROSS.GDT 6/28/06

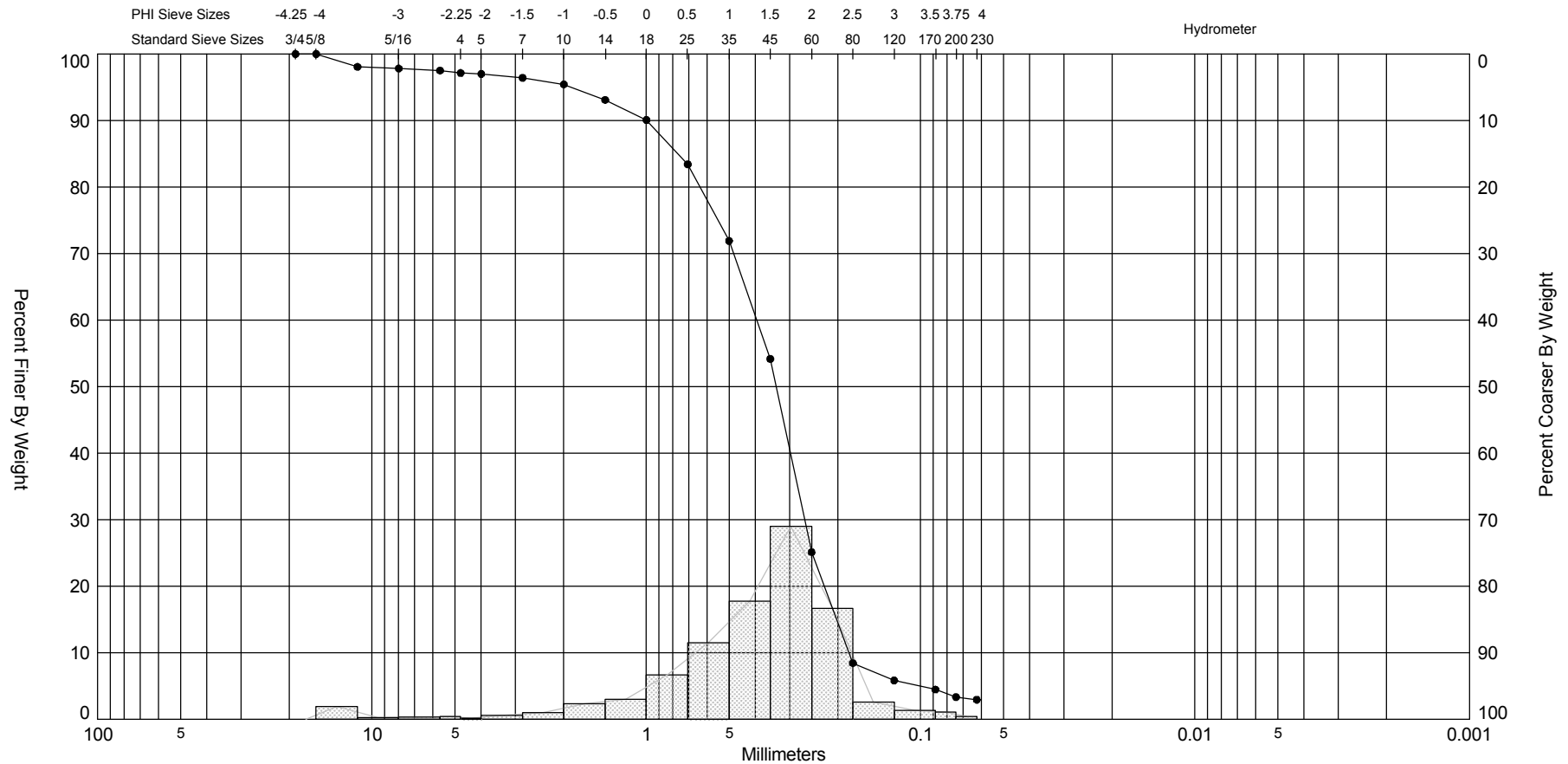
SIEVE ANALYSIS ST LUCIE VC.GPJ FL DEP ROSS.GDT 6/28/06




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	
SLVC-06-28 #1	—●—	-33.8	SW	#200 - 1.84 #230 - 1.73			1.47	1.29	-0.98	4.8	0.88	Project Name:	St. Lucie Vibracores
Comments:												Analysis Date:	06-21-06
Depths and elevations based on measured values												Analyzed By:	DA
						Coastal Planning & Engineering 2481 NW Boca Raton Blvd, Boca Raton FL 33431 ph (561) 391-8102 fax (561) 391-9116						Easting (X, ft):	914,215
												Northing (Y, ft):	1,087,635
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

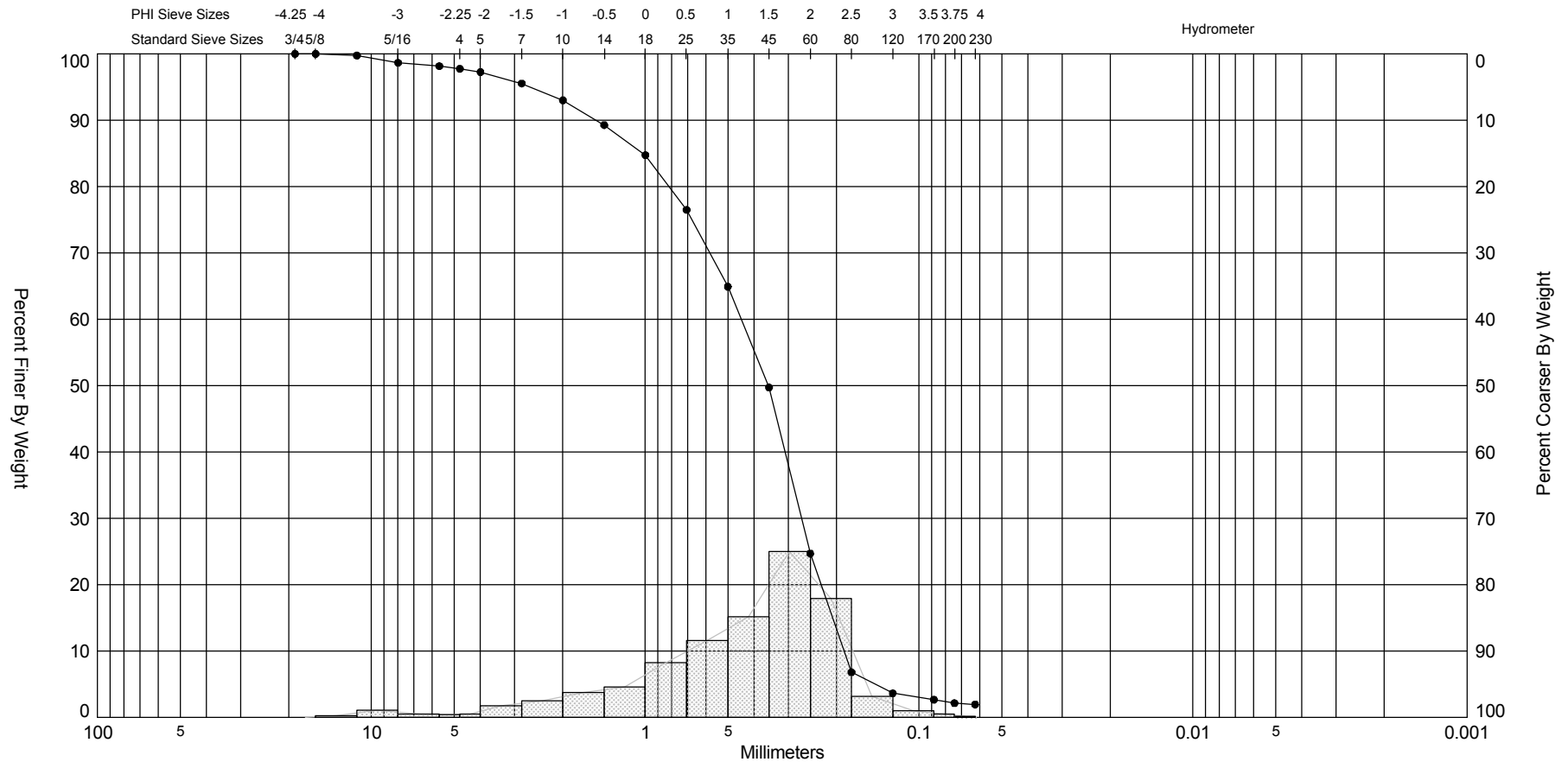
SIEVE ANALYSIS ST LUCIE VC.GPJ FL DEP ROSS.GDT 6/28/06




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	
SLVC-06-28 #2	—●—	-36.6	SW	#200 - 3.34 #230 - 2.95			1.57	1.27	-1.8	7.96	1.23	Project Name:	St. Lucie Vibracores
Comments:												Analysis Date:	06-15-06
Depths and elevations based on measured values												Analyzed By:	DA
						Coastal Planning & Engineering 2481 NW Boca Raton Blvd, Boca Raton FL 33431 ph (561) 391-8102 fax (561) 391-9116						Easting (X, ft):	914,215
												Northing (Y, ft):	1,087,635
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

SIEVE ANALYSIS ST LUCIE VC.GPJ FL DEP ROSS.GDT 6/28/06



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	
SLVC-06-28 #4	—●—	-39.8	SW	#200 - 2.14 #230 - 1.95			1.49	1.12	-1.23	4.79	1.25	Project Name:	St. Lucie Vibracores
Comments:												Analysis Date:	06-21-06
Depths and elevations based on measured values												Analyzed By:	JF
						Coastal Planning & Engineering 2481 NW Boca Raton Blvd, Boca Raton FL 33431 ph (561) 391-8102 fax (561) 391-9116						Easting (X, ft):	914,215
												Northing (Y, ft):	1,087,635
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

SIEVE ANALYSIS ST LUCIE VC.GPJ FL DEP ROSS.GDT 6/28/06

