

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-06-34 #1

Analysis Date: 06-16-06

Analyzed By: RS

Easting (ft):

913,748

Northing (ft):

1,081,820

Coordinate System:

Florida State Plane East

Elevation (ft):

-36.7 NAVD 88

USCS:

SW

Munsell:

Wet - 2.5Y-4/2

Dry - 2.5Y-5/1

Washed - 2.5Y-5/1

Comments:

Dry Weight (g):

87.03

Wash Weight (g):

84.95

Pan Retained (g):

0.07

Sieve Loss (%):

0.13

Fines (%):

#200 - 3.01

#230 - 2.60

Organics (%):

Carbonates (%):

Shell Hash (%):

11

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	2.09	2.40	2.09	2.40
5/16"	-3.00	8.00	2.96	3.40	5.05	5.80
3.5	-2.50	5.66	1.52	1.75	6.57	7.55
4	-2.25	4.76	0.75	0.86	7.32	8.41
5	-2.00	4.00	1.00	1.15	8.32	9.56
7	-1.50	2.83	1.08	1.24	9.40	10.80
10	-1.00	2.00	2.39	2.75	11.79	13.55
14	-0.50	1.41	4.68	5.38	16.47	18.93
18	0.00	1.00	6.75	7.76	23.22	26.69
25	0.50	0.71	11.26	12.94	34.48	39.63
35	1.00	0.50	15.11	17.36	49.59	56.99
45	1.50	0.35	16.38	18.82	65.97	75.81
60	2.00	0.25	9.21	10.58	75.18	86.39
80	2.50	0.18	3.12	3.58	78.30	89.97
120	3.00	0.13	2.24	2.57	80.54	92.54
170	3.50	0.09	2.36	2.71	82.90	95.25
200	3.75	0.07	1.51	1.74	84.41	96.99
230	4.00	0.06	0.36	0.41	84.77	97.40

Phi 5

Phi 16

Phi 25

Phi 50

Phi 75

Phi 84

Phi 95

3.45

1.89

1.48

0.80

-0.11

-0.77

-3.12

Moment

Mean Phi

Mean mm

Sorting

Skewness

Kurtosis

Statistics

0.51

0.70

1.59

-0.78

3.74

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

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FL 33431
ph (561) 391-8102
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Project Name: St. Lucie Vibracores

Sample Name: SLVC-06-34 #2

Analysis Date: 06-16-06

Analyzed By: RS

Easting (ft):

913,748

Northing (ft):

1,081,820

Coordinate System:

Florida State Plane East

Elevation (ft):

-38.9 NAVD 88

USCS:

SW-SM

Munsell:

Wet - 2.5Y-4/1
Dry - 5Y-6/1
Washed - 5Y-6/1

Comments:

Dry Weight (g):

95.04

Wash Weight (g):

91.51

Pan Retained (g):

0.40

Sieve Loss (%):

0.07

Fines (%):

#200 - 6.34
#230 - 4.23

Organics (%):

Carbonates (%):

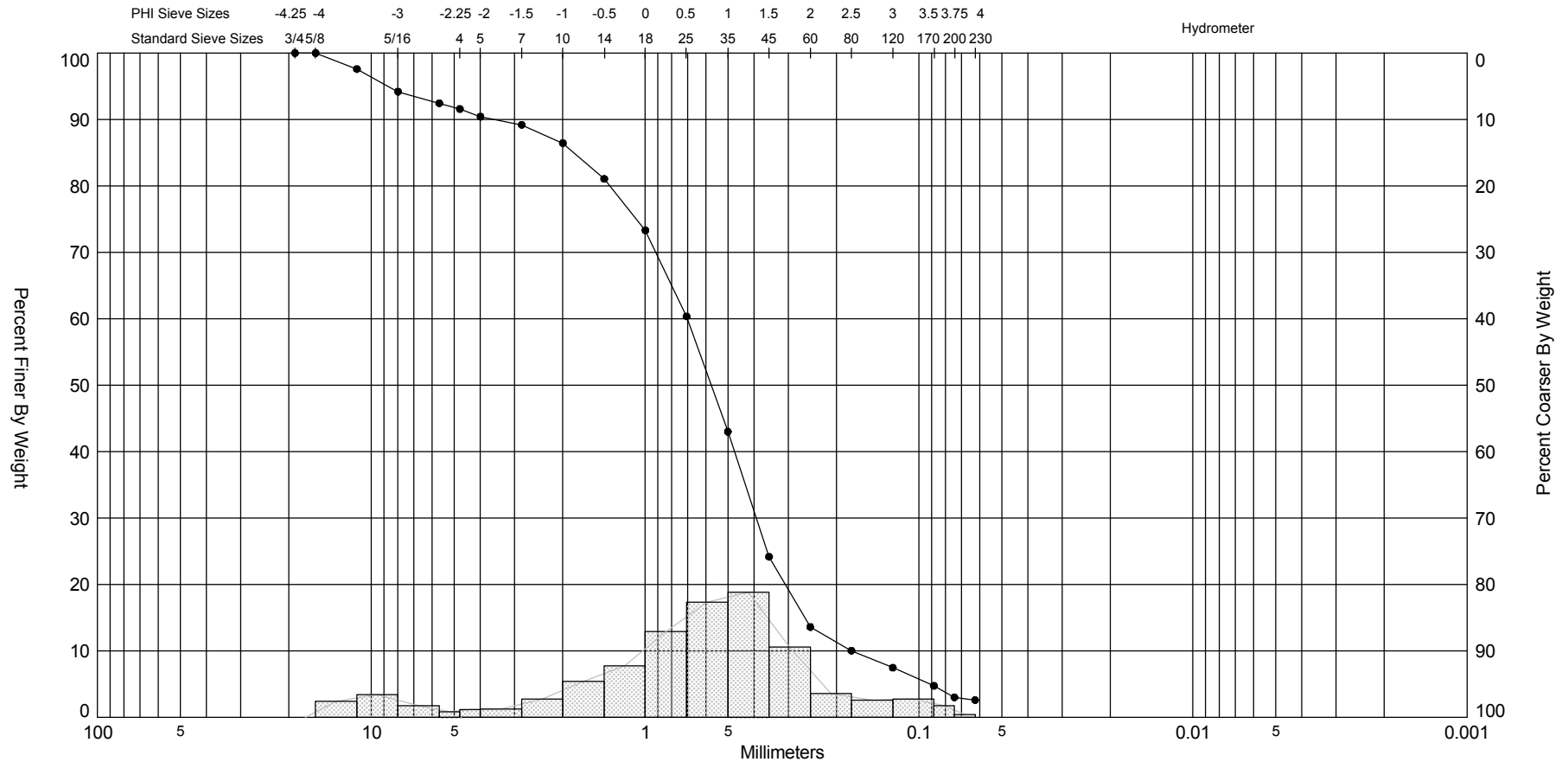
Shell Hash (%):

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Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained
1"	-4.75	26.91	0.00	0.00	0.00	0.00
3/4"	-4.25	19.03	0.01	0.01	0.01	0.01
5/8"	-4.00	16.00	2.14	2.25	2.15	2.26
7/16"	-3.50	11.31	1.79	1.88	3.94	4.14
5/16"	-3.00	8.00	5.47	5.76	9.41	9.90
3.5	-2.50	5.66	4.08	4.29	13.49	14.19
4	-2.25	4.76	1.89	1.99	15.38	16.18
5	-2.00	4.00	1.60	1.68	16.98	17.86
7	-1.50	2.83	6.16	6.48	23.14	24.34
10	-1.00	2.00	7.74	8.14	30.88	32.48
14	-0.50	1.41	7.74	8.14	38.62	40.62
18	0.00	1.00	5.00	5.26	43.62	45.88
25	0.50	0.71	3.71	3.90	47.33	49.78
35	1.00	0.50	2.71	2.85	50.04	52.63
45	1.50	0.35	1.98	2.08	52.02	54.71
60	2.00	0.25	1.78	1.87	53.80	56.58
80	2.50	0.18	1.45	1.53	55.25	58.11
120	3.00	0.13	3.97	4.18	59.22	62.29
170	3.50	0.09	19.93	20.97	79.15	83.26
200	3.75	0.07	9.88	10.40	89.03	93.66
230	4.00	0.06	2.01	2.11	91.04	95.77
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.91	3.52	3.30	0.54	-1.46	-2.27	-3.43
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	0.56	0.68	2.55	-0.16	1.57	

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

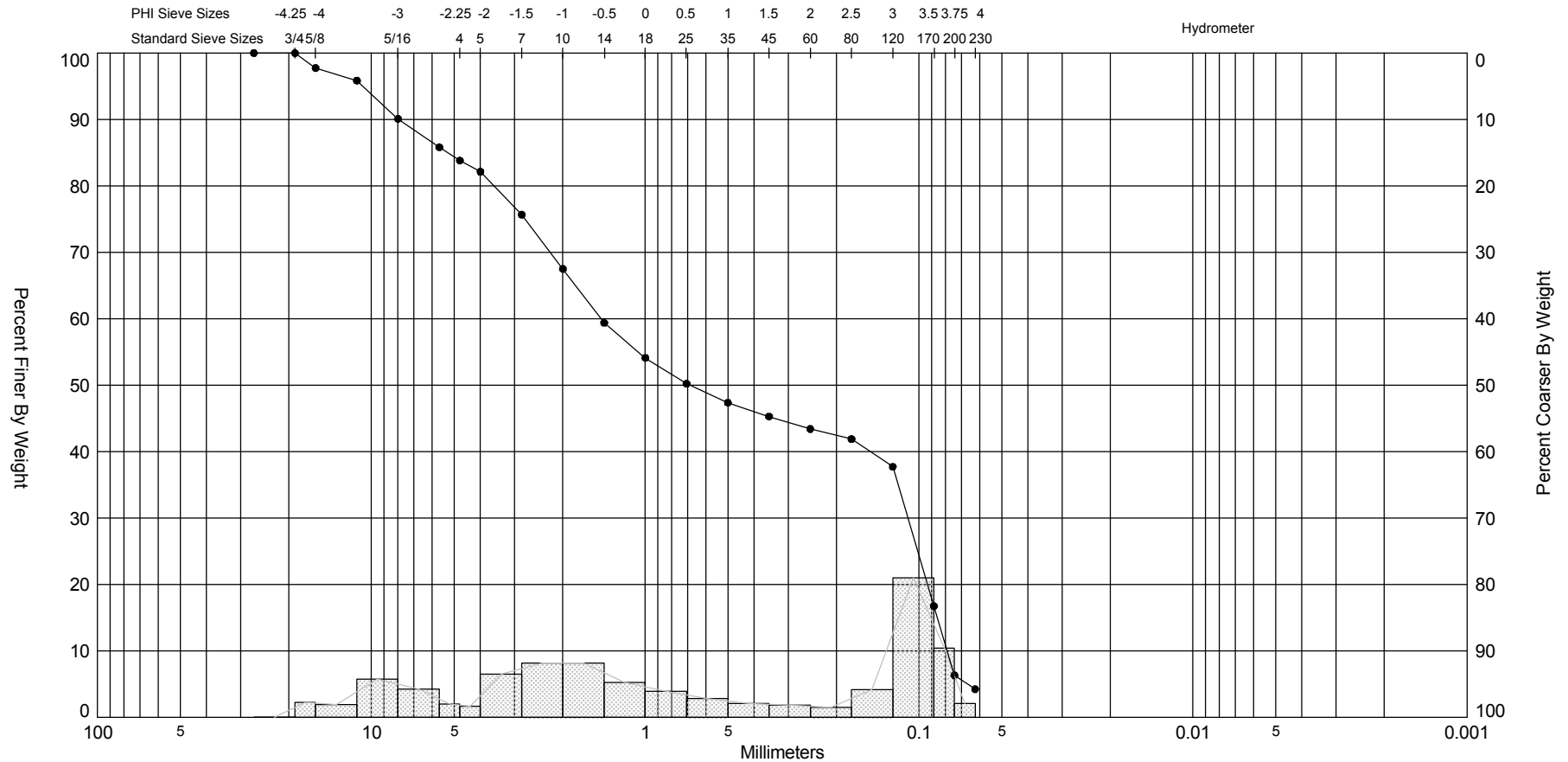
SIEVE ANALYSIS ST LUCIE VC.GPJ FL DEP ROSS.GDT 6/28/06




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-06-34 #1	—●—	-36.7	SW	#200 - 3.01 #230 - 2.60			0.8	0.51	-0.78	3.74	1.59	Project Name:	St. Lucie Vibracores
Comments:												Analysis Date:	06-16-06
Depths and elevations based on measured values												Analyzed By:	RS
						Coastal Planning & Engineering 2481 NW Boca Raton Blvd, Boca Raton FL 33431 ph (561) 391-8102 fax (561) 391-9116						Easting (X, ft):	913,748
												Northing (Y, ft):	1,081,820
												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-06-34 #2	—●—	-38.9	SW-SM	#200 - 6.34 #230 - 4.23			0.54	0.56	-0.16	1.57	2.55	Project Name:	St. Lucie Vibracores
Comments:												Analysis Date:	06-16-06
Depths and elevations based on measured values												Analyzed By:	RS
						Coastal Planning & Engineering						Easting (X, ft):	913,748
						2481 NW Boca Raton Blvd, Boca Raton						Northing (Y, ft):	1,081,820
						FL 33431						Horizontal System:	NAD 1983
						ph (561) 391-8102 fax (561) 391-9116						Vertical System:	NAVD 88