

# 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-06-06 #1

Analysis Date: 06-08-06

Analyzed By: JG

Easting (ft):

913,932

Northing (ft):

1,078,906

Coordinate System:

Florida State Plane East

Elevation (ft):

-29.8 NAVD 88

USCS:

SW

Munsell:

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

Comments:

Dry Weight (g):

85.59

Wash Weight (g):

83.68

Pan Retained (g):

0.03

Sieve Loss (%):

0.08

Fines (%):

#200 - 2.56  
#230 - 2.35

Organics (%):

Carbonates (%):

Shell Hash (%):

10

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	0.41	0.48	0.41	0.48
7/16"	-3.50	11.31	0.00	0.00	0.41	0.48
5/16"	-3.00	8.00	0.00	0.00	0.41	0.48
3.5	-2.50	5.66	3.76	4.39	4.17	4.87
4	-2.25	4.76	0.63	0.74	4.80	5.61
5	-2.00	4.00	1.24	1.45	6.04	7.06
7	-1.50	2.83	2.59	3.03	8.63	10.09
10	-1.00	2.00	3.05	3.56	11.68	13.65
14	-0.50	1.41	5.72	6.68	17.40	20.33
18	0.00	1.00	8.85	10.34	26.25	30.67
25	0.50	0.71	0.00	0.00	26.25	30.67
35	1.00	0.50	14.69	17.16	40.94	47.83
45	1.50	0.35	32.67	38.17	73.61	86.00
60	2.00	0.25	5.96	6.96	79.57	92.96
80	2.50	0.18	1.60	1.87	81.17	94.83
120	3.00	0.13	0.81	0.95	81.98	95.78
170	3.50	0.09	0.91	1.06	82.89	96.84
200	3.75	0.07	0.51	0.60	83.40	97.44
230	4.00	0.06	0.18	0.21	83.58	97.65

Phi 5

Phi 16

Phi 25

Phi 50

Phi 75

Phi 84

Phi 95

2.59

1.47

1.36

1.03

-0.05

-0.82

-2.46

Moment

Mean Phi

Mean mm

Sorting

Skewness

Kurtosis

Statistics

0.51

0.70

1.34

-0.93

3.76

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

# 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: St. Lucie Vibracores

Sample Name: SLVC-06-06 #2

Analysis Date: 05-29-06

Analyzed By: JF

Easting (ft):

913,932

Northing (ft):

1,078,906

Coordinate System:

Florida State Plane East

Elevation (ft):

-31.5 NAVD 88

USCS:

SW

Munsell:

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

Comments:

Dry Weight (g):

86.81

Wash Weight (g):

85.34

Pan Retained (g):

0.01

Sieve Loss (%):

0.05

Fines (%):

#200 - 1.93  
#230 - 1.76

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

0.00

0.00

0.00

0.00

5/16"

-3.00

8.00

0.72

0.83

0.72

0.83

3.5

-2.50

5.66

0.63

0.73

1.35

1.56

4

-2.25

4.76

0.28

0.32

1.63

1.88

5

-2.00

4.00

0.36

0.41

1.99

2.29

7

-1.50

2.83

1.36

1.57

3.35

3.86

10

-1.00

2.00

1.94

2.23

5.29

6.09

14

-0.50

1.41

3.70

4.26

8.99

10.35

18

0.00

1.00

6.53

7.52

15.52

17.87

25

0.50

0.71

12.71

14.64

28.23

32.51

35

1.00

0.50

18.21

20.98

46.44

53.49

45

1.50

0.35

19.32

22.26

65.76

75.75

60

2.00

0.25

12.02

13.85

77.78

89.60

80

2.50

0.18

3.49

4.02

81.27

93.62

120

3.00

0.13

1.66

1.91

82.93

95.53

170

3.50

0.09

1.60

1.84

84.53

97.37

200

3.75

0.07

0.61

0.70

85.14

98.07

230

4.00

0.06

0.15

0.17

85.29

98.24

Phi 5

Phi 16

Phi 25

Phi 50

Phi 75

Phi 84

Phi 95

2.86

1.80

1.48

0.92

0.24

-0.12

-1.24

Moment

Mean Phi

Mean mm

Sorting

Skewness

Kurtosis

Statistics

0.79

0.58

1.12

-0.65

4.69

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

# 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: St. Lucie Vibracores

Sample Name: SLVC-06-06 #3

Analysis Date: 05-30-06

Analyzed By: JF

Easting (ft):

913,932

Northing (ft):

1,078,906

Coordinate System:

Florida State Plane East

Elevation (ft):

-33.5 NAVD 88

USCS:

SM

Munsell:

Wet - 5Y-5/1

Dry - 5Y-6/1

Washed - 2.5Y-7/1

Comments:

Dry Weight (g):

86.83

Wash Weight (g):

79.70

Pan Retained (g):

0.67

Sieve Loss (%):

0.08

Fines (%):

#200 - 13.82

#230 - 9.08

Organics (%):

Carbonates (%):

Shell Hash (%):

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	0.21	0.24	0.21	0.24
10	-1.00	2.00	0.26	0.30	0.47	0.54
14	-0.50	1.41	0.60	0.69	1.07	1.23
18	0.00	1.00	1.14	1.31	2.21	2.54
25	0.50	0.71	2.46	2.83	4.67	5.37
35	1.00	0.50	3.74	4.31	8.41	9.68
45	1.50	0.35	4.30	4.95	12.71	14.63
60	2.00	0.25	3.72	4.28	16.43	18.91
80	2.50	0.18	1.59	1.83	18.02	20.74
120	3.00	0.13	2.82	3.25	20.84	23.99
170	3.50	0.09	28.69	33.04	49.53	57.03
200	3.75	0.07	25.31	29.15	74.84	86.18
230	4.00	0.06	4.12	4.74	78.96	90.92

Phi 5

Phi 16

Phi 25

Phi 50

Phi 75

Phi 84

Phi 95

3.73

3.65

3.39

3.02

1.66

0.43

Moment

Mean Phi

Mean mm

Sorting

Skewness

Kurtosis

Statistics

2.86

0.14

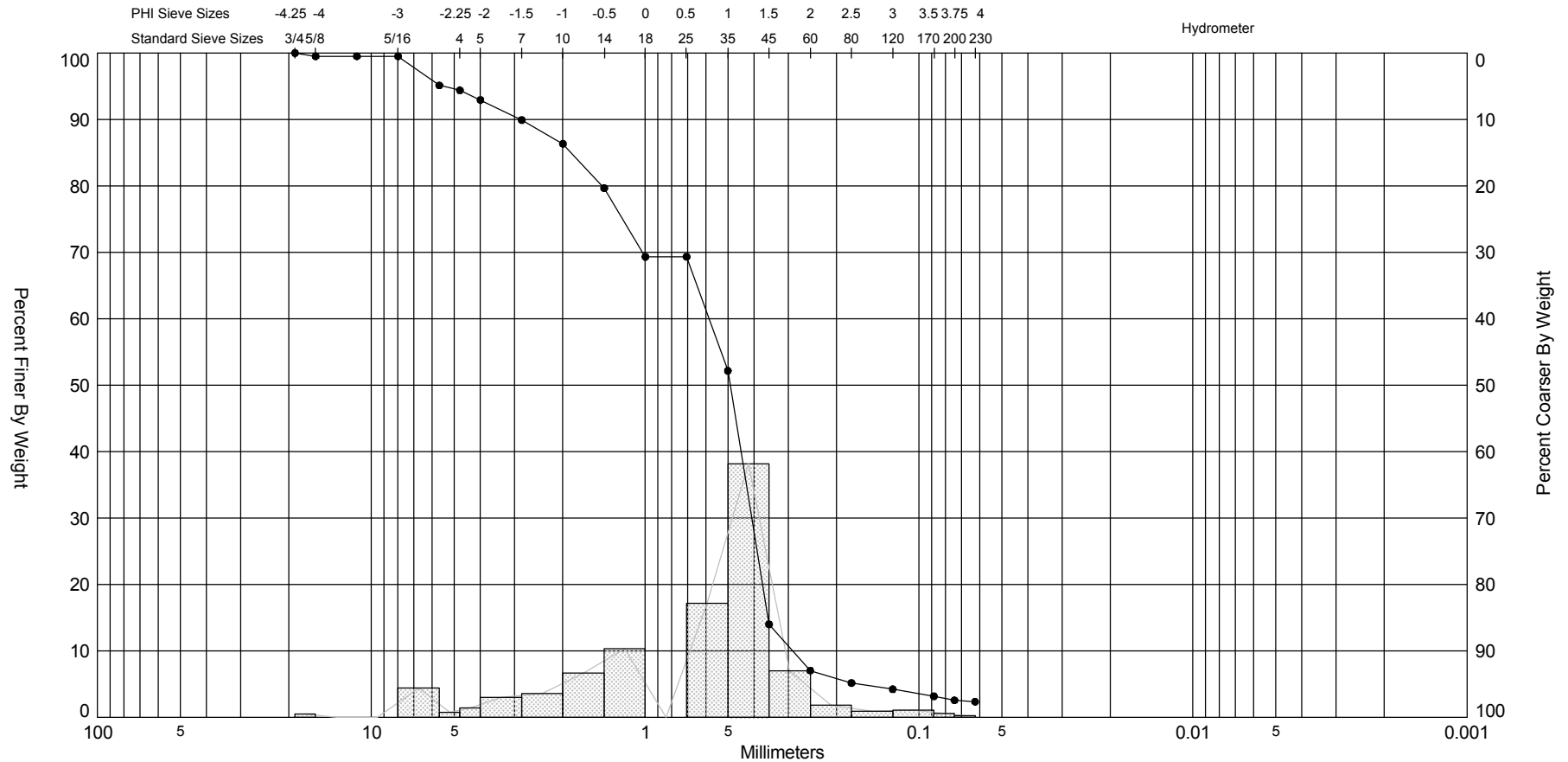
1.13

-1.64


4.79

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

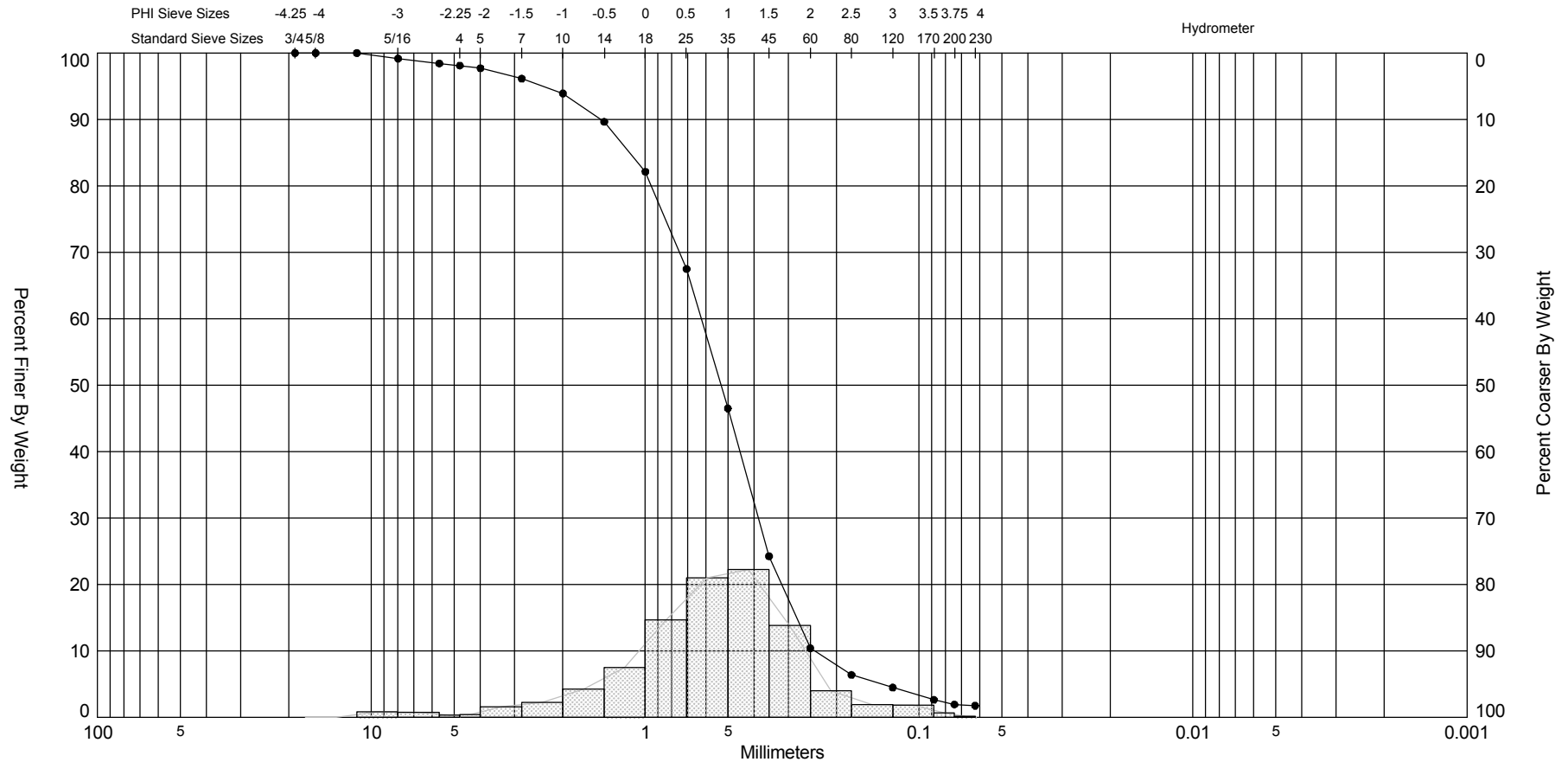
SIEVE ANALYSIS ST LUCIE VC.GPJ FL DEP ROSS.GDT 6/28/06




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-06-06 #1	—●—	-29.8	SW	#200 - 2.56 #230 - 2.35			1.03	0.51	-0.93	3.76	1.34	Project Name:	St. Lucie Vibracores
Comments:												Analysis Date:	06-08-06
Depths and elevations based on measured values												Analyzed By:	JG
						Coastal Planning & Engineering 2481 NW Boca Raton Blvd, Boca Raton FL 33431 ph (561) 391-8102 fax (561) 391-9116						Easting (X, ft):	913,932
												Northing (Y, ft):	1,078,906
												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-06-06 #2	—●—	-31.5	SW	#200 - 1.93 #230 - 1.76			0.92	0.79	-0.65	4.69	1.12	Project Name:	St. Lucie Vibracores
Comments:												Analysis Date:	05-29-06
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):	913,932
												Northing (Y, ft):	1,078,906
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

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

