

# Granularmetric Report

Depths and elevations based on measured values



1333 Gateway Dr., Suite 1004  
Melbourne, FL 32901  
Phone (321) 751-1135  
Fax (321) 751-2343

Project Name: Bonita Beach

Sample Name: C-12 #1

Analysis Date: 03-21-12

Analyzed By: WD

Easting (ft): 685,892.1	Northing (ft): 753,340.8	Coordinate System: Florida State Plane West	Elevation (ft): -10.7 NAVD 88
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USCS: SW	Munsell: Wet - 5Y-6/2 Dry - 5Y-7/2	Comments:
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Dry Weight (g): 169.69	Wash Weight (g): 165.15	Pan Retained (g): 0.21	Sieve Loss (%): 0.08	Fines (%): #200 - 3.16 #230 - 2.88	Organics (%): 0.80	Carbonates (%): 13.80	Shells (%):
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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	2.22	1.31	2.22	1.31
7/16"	-3.50	11.31	2.58	1.52	4.80	2.83
5/16"	-3.00	8.00	0.88	0.52	5.68	3.35
3.5	-2.50	5.66	0.00	0.00	5.68	3.35
4	-2.25	4.76	0.08	0.05	5.76	3.40
5	-2.00	4.00	0.77	0.45	6.53	3.85
7	-1.50	2.83	1.11	0.65	7.64	4.50
10	-1.00	2.00	1.38	0.81	9.02	5.31
14	-0.50	1.41	2.84	1.67	11.86	6.98
18	0.00	1.00	3.11	1.83	14.97	8.81
25	0.50	0.71	2.80	1.65	17.77	10.46
35	1.00	0.50	2.65	1.56	20.42	12.02
45	1.50	0.35	2.54	1.50	22.96	13.52
60	2.00	0.25	4.77	2.81	27.73	16.33
80	2.50	0.18	19.36	11.41	47.09	27.74
120	3.00	0.13	91.12	53.70	138.21	81.44
170	3.50	0.09	23.47	13.83	161.68	95.27
200	3.75	0.07	2.66	1.57	164.34	96.84
230	4.00	0.06	0.47	0.28	164.81	97.12

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.49	3.09	2.94	2.71	2.38	1.94	-1.19
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.22	0.21	1.52	-2.72	10.2	

GRANULARMETRIC REPORT 2012-3-1 BONITA BEACH.GPJ FL DEP ROSS.GDT 3/28/12

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Project Name: Bonita Beach

Sample Name: C-12 #2

Analysis Date: 03-21-12

Analyzed By: WD

Easting (ft):

685,892.1

Northing (ft):

753,340.8

Coordinate System:

Florida State Plane West

Elevation (ft):

-14.7 NAVD 88

USCS:

SW-SM W/ GRAVEL

Munsell:

Wet - 5Y-5/1  
Dry - 5Y-7/1

Comments:

Dry Weight (g):

152.86

Wash Weight (g):

145.04

Pan Retained (g):

0.26

Sieve Loss (%):

0.05

Fines (%):

#200 - 5.72  
#230 - 5.33

Organics (%):

2.00

Carbonates (%):

65.50

Shells (%):

Sieve Number

Sieve Size (Phi)

Sieve Size (Millimeters)

Grams Retained

% Weight Retained

Cum. Grams Retained

C. % Weight Retained

3/4"

-4.25

19.03

15.82

10.35

15.82

10.35

5/8"

-4.00

16.00

4.66

3.05

20.48

13.40

7/16"

-3.50

11.31

3.22

2.11

23.70

15.51

5/16"

-3.00

8.00

6.41

4.19

30.11

19.70

3.5

-2.50

5.66

8.88

5.81

38.99

25.51

4

-2.25

4.76

4.77

3.12

43.76

28.63

5

-2.00

4.00

5.02

3.28

48.78

31.91

7

-1.50

2.83

10.52

6.88

59.30

38.79

10

-1.00

2.00

13.22

8.65

72.52

47.44

14

-0.50

1.41

13.37

8.75

85.89

56.19

18

0.00

1.00

9.81

6.42

95.70

62.61

25

0.50

0.71

5.35

3.50

101.05

66.11

35

1.00

0.50

2.79

1.83

103.84

67.94

45

1.50

0.35

1.87

1.22

105.71

69.16

60

2.00

0.25

2.37

1.55

108.08

70.71

80

2.50

0.18

4.22

2.76

112.30

73.47

120

3.00

0.13

17.57

11.49

129.87

84.96

170

3.50

0.09

12.40

8.11

142.27

93.07

200

3.75

0.07

1.85

1.21

144.12

94.28

230

4.00

0.06

0.59

0.39

144.71

94.67

Phi 5

Phi 16

Phi 25

Phi 50

Phi 75

Phi 84

Phi 95

2.96

2.57

-0.85

-2.54

-3.44

Moment

Mean Phi

Mean mm

Sorting

Skewness

Kurtosis

Statistics

-0.68

1.60

2.23

0.81

2.28

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Phone (321) 751-1135  
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Project Name: Bonita Beach

Sample Name: C-12 #3

Analysis Date: 03-21-12

Analyzed By: WD

Easting (ft): 685,892.1	Northing (ft): 753,340.8	Coordinate System: Florida State Plane West	Elevation (ft): -16.8 NAVD 88
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USCS: SW-SM	Munsell: Wet - 5Y-5/1 Dry - 5Y-7/1	Comments:
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Dry Weight (g): 180.77	Wash Weight (g): 168.06	Pan Retained (g): 1.07	Sieve Loss (%): 0.06	Fines (%): #200 - 9.34 #230 - 7.67	Organics (%): 1.20	Carbonates (%): 8.70	Shells (%):
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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	2.03	1.12	2.03	1.12
5/16"	-3.00	8.00	0.47	0.26	2.50	1.38
3.5	-2.50	5.66	0.59	0.33	3.09	1.71
4	-2.25	4.76	0.52	0.29	3.61	2.00
5	-2.00	4.00	0.89	0.49	4.50	2.49
7	-1.50	2.83	1.18	0.65	5.68	3.14
10	-1.00	2.00	1.94	1.07	7.62	4.21
14	-0.50	1.41	2.96	1.64	10.58	5.85
18	0.00	1.00	1.97	1.09	12.55	6.94
25	0.50	0.71	1.16	0.64	13.71	7.58
35	1.00	0.50	1.18	0.65	14.89	8.23
45	1.50	0.35	0.96	0.53	15.85	8.76
60	2.00	0.25	1.17	0.65	17.02	9.41
80	2.50	0.18	2.54	1.41	19.56	10.82
120	3.00	0.13	55.93	30.94	75.49	41.76
170	3.50	0.09	75.03	41.51	150.52	83.27
200	3.75	0.07	13.36	7.39	163.88	90.66
230	4.00	0.06	3.01	1.67	166.89	92.33

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
	3.52	3.40	3.10	2.73	2.58	-0.76
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.68	0.16	1.37	-3.01	11.86	

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