

# Gradation Analysis Report

Project Name: Collier County

Sample Name: CCVC-03-14 S#1

Sample Date: 08/20/03

Analyzed By: ID



**Coastal Planning & Engineering, Inc.**

2481 N.W. Boca Raton Blvd.

Boca Raton, FL 33431

Easting:	356983.2	Northing:	664167.4	Coordinate System:	State Plane 1983 FL East Ft	Elevation:	-29.8 NGVD 1929 Feet
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USCS:	Dry Munsel:	Wet Munsel:	Comments:
SW-SM	5Y-7/1	5Y-7/1	

Dry Weight:	Wash Weight:	Sieve Loss:	Percent Silt:	Estimated Percent Shell Content:
63.86	58.66	0.02	8.25	3.62

Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained
3/4	-4.25	19.02	0.00	0.00	0.00	0.00
5/8	-4.00	16.00	0.00	0.00	0.00	0.00
5/16	-3.25	9.51	0.00	0.00	0.00	0.00
4	-3.00	8.00	0.00	0.00	0.00	0.00
5	-2.00	4.00	0.00	0.00	0.00	0.00
7	-1.50	2.82	0.28	0.44	0.28	0.44
10	-1.00	2.00	0.33	0.52	0.61	0.96
14	-0.50	1.41	0.29	0.45	0.90	1.41
18	0.00	1.00	0.31	0.49	1.21	1.89
25	0.50	0.70	0.32	0.50	1.53	2.40
35	1.00	0.50	0.33	0.52	1.86	2.91
45	1.50	0.35	0.29	0.45	2.15	3.37
60	2.00	0.25	0.34	0.53	2.49	3.90
80	2.50	0.17	3.31	5.18	5.80	9.08
120	3.00	0.12	35.03	54.85	40.83	63.94
170	3.50	0.08	16.20	25.37	57.03	89.30
200	3.75	0.07	1.16	1.82	58.19	91.12
230	4.00	0.06	0.40	0.63	58.59	91.75
Pan	Pan	Pan	5.25	8.22	63.84	99.97
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.11	2.56	2.65	2.87	3.22	3.4	4.1

Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Graphic	3.01	0.12	0.51	0.46	1.43
Moment	2.99	0.13	0.65	0.40	2.05

# Gradation Analysis Report

Project Name: Collier County

Sample Name: CCVC-03-14 S#2

Sample Date: 08/20/03

Analyzed By: ID/JB



**Coastal Planning & Engineering, Inc.**

2481 N.W. Boca Raton Blvd.

Boca Raton, FL 33431

Easting:	356983.2	Northing:	664167.4	Coordinate System:	State Plane 1983 FL East Ft	Elevation:	-31.3 NGVD 1929 Feet
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USCS:	Dry Munsel:	Wet Munsel:	Comments:
SW-SM	5Y-7/1	5Y-7/1	

Dry Weight:	Wash Weight:	Sieve Loss:	Percent Silt:	Estimated Percent Shell Content:
54.87	50.33	0.01	8.57	34.26

Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained
3/4	-4.25	19.02	0.00	0.00	0.00	0.00
5/8	-4.00	16.00	0.00	0.00	0.00	0.00
5/16	-3.25	9.51	0.82	1.49	0.82	1.49
4	-3.00	8.00	3.88	7.07	4.70	8.57
5	-2.00	4.00	1.46	2.66	6.16	11.23
7	-1.50	2.82	2.45	4.47	8.61	15.69
10	-1.00	2.00	1.75	3.19	10.36	18.88
14	-0.50	1.41	2.09	3.81	12.45	22.69
18	0.00	1.00	1.71	3.12	14.16	25.81
25	0.50	0.70	1.44	2.62	15.60	28.43
35	1.00	0.50	1.27	2.31	16.87	30.75
45	1.50	0.35	0.80	1.46	17.67	32.20
60	2.00	0.25	0.69	1.26	18.36	33.46
80	2.50	0.17	1.10	2.00	19.46	35.47
120	3.00	0.12	17.83	32.49	37.29	67.96
170	3.50	0.08	10.58	19.28	47.87	87.24
200	3.75	0.07	1.72	3.13	49.59	90.38
230	4.00	0.06	0.58	1.06	50.17	91.43
Pan	Pan	Pan	4.69	8.55	54.86	99.98
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
-3.13	-1.45	-0.13	2.72	3.18	3.42	4.1

Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Graphic	1.13	0.46	2.31	-0.91	0.89
Moment	1.25	0.42	2.80	-0.47	1.43

# Gradation Analysis Report

Project Name: Collier County

Sample Name: CCVC-03-14 S#3

Sample Date: 8/26/03

Analyzed By: ID



**Coastal Planning & Engineering, Inc.**

2481 N.W. Boca Raton Blvd.

Boca Raton, FL 33431

Easting:	356983	Northing:	664167	Coordinate System:	State Plane 1983 FL East Ft	Elevation:	-33.3 NGVD 1929 Feet
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USCS:	Dry Munsel:	Wet Munsel:	Comments:
SM	5Y-8/1	5Y-7/1	

Dry Weight:	Wash Weight:	Sieve Loss:	Percent Silt:	Estimated Percent Shell Content:
48.57	40.14	0	17.58	25.86

Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained
3/4	-4.25	19.02	0.00	0.00	0.00	0.00
5/8	-4.00	16.00	0.00	0.00	0.00	0.00
5/16	-3.25	9.51	0.82	1.69	0.82	1.69
4	-3.00	8.00	2.10	4.32	2.92	6.01
5	-2.00	4.00	0.55	1.13	3.47	7.14
7	-1.50	2.82	1.40	2.88	4.87	10.03
10	-1.00	2.00	1.82	3.75	6.69	13.77
14	-0.50	1.41	1.91	3.93	8.60	17.71
18	0.00	1.00	1.86	3.83	10.46	21.54
25	0.50	0.70	2.14	4.41	12.60	25.94
35	1.00	0.50	1.78	3.66	14.38	29.61
45	1.50	0.35	1.63	3.36	16.01	32.96
60	2.00	0.25	1.35	2.78	17.36	35.74
80	2.50	0.17	1.68	3.46	19.04	39.20
120	3.00	0.12	11.68	24.05	30.72	63.25
170	3.50	0.08	7.13	14.68	37.85	77.93
200	3.75	0.07	1.50	3.09	39.35	81.02
230	4.00	0.06	0.68	1.40	40.03	82.42
Pan	Pan	Pan	8.54	17.58	48.57	100.00
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
-3.06	-0.72	0.39	2.72	3.4	4.02	4.18

Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Graphic	1.43	0.37	2.28	-0.82	0.99
Moment	1.56	0.34	2.76	-0.57	1.68





