

JET PROBE LOG

PROJECT: Collier County

JET PROBE: CCJP-02-29

COORDINATES:

N = 648007

E = 371215

DATE: 12/19/02

START TIME: 0942

END TIME: 0953

WATER DEPTH: (RAW) 26.4 FT

TOP DIVER: TP

BOTTOM DIVER: MDA

| NOTES | ELEV. | DEPTH | SYMBOL | DESCRIPTION |
|--|-----------------------|-------|--------|---------------------------|
| LENGTH OF PVC PIPE: 20.0' PENETRATION DEPTH: 5.0' JET PUMP TYPE: BRIGGS & STRATON 3.0 HP GAL/HR: 8460 DIAMETER OF PIPE: 1.5" | -26.4 | 0 | | SEA FLOOR |
| | | 1 | | Sand |
| | | 2 | | |
| | -29.4 | 3 | | Sand with Shell Fragments |
| SUPPORT VESSEL: CPE II POSITIONING: DIFFERENTIAL GPS USCG BEACON NAVIGATION SYSTEM: "HYPACK" | -30.9 | 4 | | |
| | | 5 | | Rubble |
| | -31.7 | | | Rock |
| | | 6 | | Refusal @ 5.0' |
| WEATHER: WIND: DIR: SOUTHEAST SPEED: 10 Kt WAVES: DIR: SE HEIGHT: 0 - 1 Ft. CURRENT: DIR: SOUTHEAST SPEED: Slight | | 7 | | |
| | | 8 | | |
| | | 9 | | |
| | | 10 | | |
| | | 11 | | |
| | | 12 | | |
| | | 13 | | |
| | | 14 | | |
| | | 15 | | |
| | | 16 | | |
| SAND SAMPLES TOP: 0.25 mm (visual estimate) Munsell Color: Wet 5Y-5/1 Dry 5Y-6/1 MID: 0.29 mm, Silt: 2.01%, Shell: 14% Munsell Color: Wet 5Y-5/1 Dry 5Y-6/1 BOTTOM: 0.20 mm (visual estimate) Munsell Color: Wet 5Y-5/1 Dry 5Y-6/1 | | 17 | | |
| | | 18 | | |
| | | 19 | | |
| | | 20 | | |
| | | 21 | | |
| | | 22 | | |
| | | 23 | | |
| | | 24 | | |
| | | | | |
| | | | | |
| TURBIDITY: TOP (0' - 2.5'): Moderate BOTTOM: (2.5' - 5.0'): Moderate | | | | |
| | | | | |
| DRAWN BY: JB JOB NO: 8500.04 | CHECKED BY: MDA / JLA | | | |

Gradation Analysis Report

Project Name: Collier County
 Sample Name: CCJP-02-29 MID
 Sample Date: 12/19/02
 Analyzed By: ID



Coastal Planning & Engineering, Inc.
 2481 N.W. Boca Raton Blvd.
 Boca Raton, FL 33431

| | | | |
|--------------------|---------------------|---|-------------------|
| Easting: 371215 | Northing: 648007 | Coordinate System: State Plane 1983 FL East Feet | Elevation: N/A |
|--------------------|---------------------|---|-------------------|

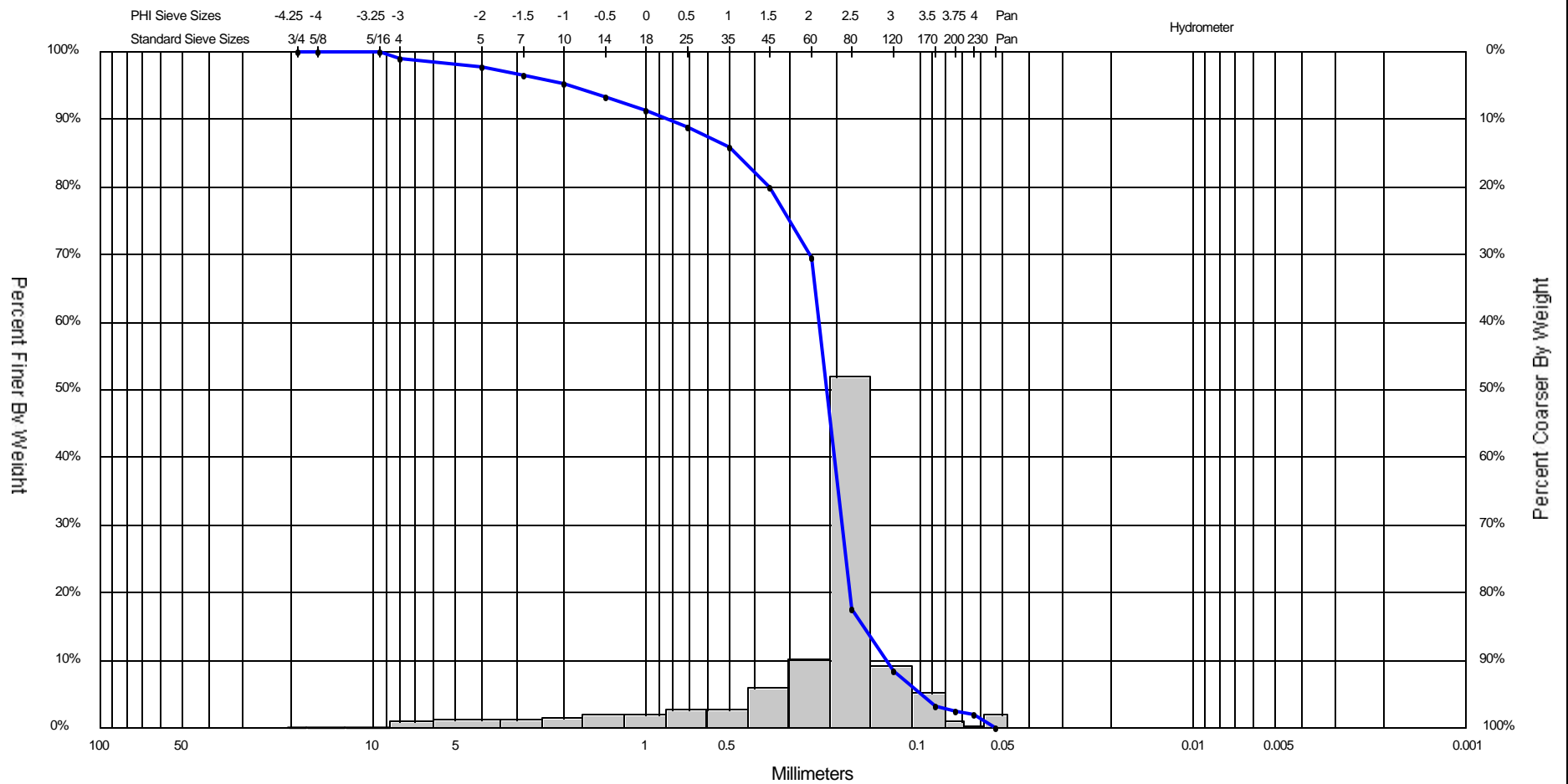
| | | | |
|-------------|-----------------------|-----------------------|---|
| USCS: SW | Dry Munsel: 5Y-6/1 | Wet Munsel: 5Y-5/1 | Comments: See logs for estimated % shell content |
|-------------|-----------------------|-----------------------|---|

| | | | | |
|----------------------|-----------------------|---------------------|-----------------------|---|
| Dry Weight: 63.31 | Wash Weight: 62.08 | Sieve Loss: 0.01 | Percent Silt: 2.01 | Estimated Percent Shell Content: N/A |
|----------------------|-----------------------|---------------------|-----------------------|---|


| 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 | 0.68 | 1.07 | 0.68 | 1.07 |
| 5 | -2.00 | 4.00 | 0.71 | 1.12 | 1.39 | 2.20 |
| 7 | -1.50 | 2.82 | 0.74 | 1.17 | 2.13 | 3.36 |
| 10 | -1.00 | 2.00 | 0.90 | 1.42 | 3.03 | 4.79 |
| 14 | -0.50 | 1.41 | 1.20 | 1.90 | 4.23 | 6.68 |
| 18 | 0.00 | 1.00 | 1.24 | 1.96 | 5.47 | 8.64 |
| 25 | 0.50 | 0.70 | 1.66 | 2.62 | 7.13 | 11.26 |
| 35 | 1.00 | 0.50 | 1.77 | 2.80 | 8.90 | 14.06 |
| 45 | 1.50 | 0.35 | 3.82 | 6.03 | 12.72 | 20.09 |
| 60 | 2.00 | 0.25 | 6.49 | 10.25 | 19.21 | 30.34 |
| 80 | 2.50 | 0.17 | 32.94 | 52.03 | 52.15 | 82.37 |
| 120 | 3.00 | 0.12 | 5.87 | 9.27 | 58.02 | 91.64 |
| 170 | 3.50 | 0.08 | 3.22 | 5.09 | 61.24 | 96.73 |
| 200 | 3.75 | 0.07 | 0.58 | 0.92 | 61.82 | 97.65 |
| 230 | 4.00 | 0.06 | 0.22 | 0.35 | 62.04 | 97.99 |
| Pan | Pan | Pan | 1.26 | 1.99 | 63.30 | 99.98 |

| | | | | | | |
|-------|--------|--------|--------|--------|--------|--------|
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 |
| -0.94 | 1.16 | 1.74 | 2.19 | 2.43 | 2.59 | 3.33 |

| | | | | | |
|------------|----------|---------|---------|----------|----------|
| Statistics | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis |
| Graphic | 1.66 | 0.32 | 1.00 | -1.40 | 2.54 |
| Moment | 1.78 | 0.29 | 1.38 | -1.01 | 2.83 |



| Gravel | | Sand | | | Silt and Clay |
|--------|------|--------|--------|------|---------------|
| Coarse | Fine | Coarse | Medium | Fine | |

| Sample | Symbol | Elev. | Comments | USCS | % Silt | Median | Mean | Skew | Kurt | Sort | Sample Information | |
|---|--------|-------|---------------------|------|--------|--------|------|-------|------|------|--------------------|-------------------------------|
| CCJP-02-29 MID | | N/A | | SW | 2.01 | 0.22 | 0.29 | -1.01 | 2.83 | 1.38 | Project Name: | Collier County |
| Incremental % Weight | | N/A | Use Left Hand Scale | | | | | | | | Collection Date: | 12/19/02 |
| | | | | | | | | | | | Analyzed By: | ID |
|  <div> Coastal Planning & Engineering, Inc. 2481 N.W. Boca Raton Blvd. Boca Raton, FL 33431 ph 561 391-8102 fax 561 391-9116 </div> | | | | | | | | | | | Easting (X): | 371215 |
| | | | | | | | | | | | Northing (Y): | 648007 |
| | | | | | | | | | | | Horizontal System: | State Plane 1983 FL East Feet |
| | | | | | | | | | | | Vertical System: | N/A |