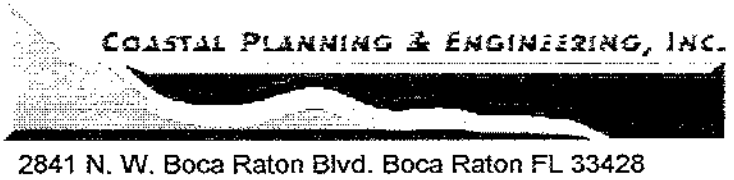


Gradation Analysis Report

Proj Name: Central Boca
 Sample: CBJP-01-04#TOP
 Date: 3/14/01
 By: ID



Elevation: 0 Easting: 963455.00 NAD 1983
 Northing: 731459.00 FLA East Feet

USCS: SW Munsel Dry: 5Y 6/1 Munsel Wet: 5Y 7/1
 Comments: 0

Dry Wt. 76.65 Percent Silt: 1.40
 Wash Wt. 75.59

Sieve Size	PHI Size	mm Size	Grams Retained	% Weight Retained	Cum. Grams Retained	C % Weight Retained
3/4	-4.250	19.027	0.000	0.000	0.000	0.000
5/8	-4.000	16.000	0.000	0.000	0.000	0.000
5/16	-3.250	9.514	0.000	0.000	0.000	0.000
4	-3.000	8.000	0.000	0.000	0.000	0.000
5	-2.000	4.000	0.000	0.000	0.000	0.000
7	-1.500	2.828	0.000	0.000	0.000	0.000
10	-1.000	2.000	0.000	0.000	0.000	0.000
14	-0.500	1.414	0.630	0.822	0.630	0.822
18	0.000	1.000	1.200	1.566	1.830	2.387
25	0.500	0.707	2.600	3.392	4.430	5.780
35	1.000	0.500	6.680	8.715	11.110	14.494
45	1.500	0.354	10.760	14.038	21.870	28.532
60	2.000	0.250	20.230	26.393	42.100	54.925
80	2.500	0.177	25.710	33.542	67.810	88.467
120	3.000	0.125	7.180	9.367	74.990	97.834
170	3.500	0.088	0.560	0.731	75.550	98.565
200	3.750	0.074	0.020	0.026	75.570	98.591
230	4.000	0.063	0.010	0.013	75.580	98.604
Pan	Pan	0.053	1.060	1.383	76.640	99.987

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
0.39	1.05	1.37	1.91	2.30	2.43	2.85

Median phi: 1.91 Median mm: 0.27

	Mean phi	Mean mm	Sorting	Skewness	Kurtosis
Graphic	1.73	0.30	0.72	-0.38	1.09
Moment	1.76	0.30	0.86	-0.31	1.65

Gradation Analysis Report

Proj Name: Central Boca
 Sample: CBJP-01-04#MID
 Date: 3/14/01
 By: ID

COASTAL PLANNING & ENGINEERING, INC.

2841 N. W. Boca Raton Blvd. Boca Raton FL 33428

Elevation: 10 Easting: 963455.00 NAD 1983
 Northing: 731459.00 FLA East Feet

USCS: SW Munsel Dry: 5Y 6/1 Munsel Wet: 5Y 7/1
 Comments: 0

Dry Wt. 80.85 Percent Silt: 1.11
 Wash Wt. 79.97

Sieve Size	PHI Size	mm Size	Grams Retained	% Weight Retained	Cum. Grams Retained	C % Weight Retained
3/4	-4.250	19.027	0.000	0.000	0.000	0.000
5/8	-4.000	16.000	0.000	0.000	0.000	0.000
5/16	-3.250	9.514	0.000	0.000	0.000	0.000
4	-3.000	8.000	0.000	0.000	0.000	0.000
5	-2.000	4.000	0.000	0.000	0.000	0.000
7	-1.500	2.828	0.030	0.037	0.030	0.037
10	-1.000	2.000	0.140	0.173	0.170	0.210
14	-0.500	1.414	0.530	0.656	0.700	0.866
18	0.000	1.000	0.850	1.051	1.550	1.917
25	0.500	0.707	2.600	3.216	4.150	5.133
35	1.000	0.500	5.700	7.050	9.850	12.183
45	1.500	0.354	8.070	9.981	17.920	22.165
60	2.000	0.250	20.800	25.727	38.720	47.891
80	2.500	0.177	28.640	35.424	67.360	83.315
120	3.000	0.125	11.750	14.533	79.110	97.848
170	3.500	0.088	0.820	1.014	79.930	98.862
200	3.750	0.074	0.010	0.012	79.940	98.874
230	4.000	0.063	0.010	0.012	79.950	98.887
Pan	Pan	0.053	0.890	1.101	80.840	99.988

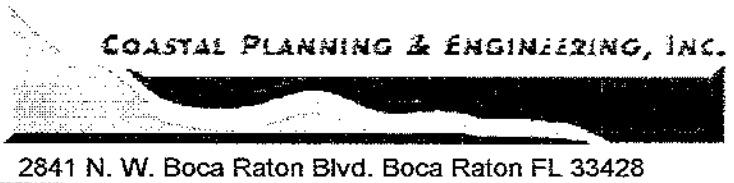
PHI 5 PHI 16 PHI 25 PHI 50 PHI 75 PHI 84 PHI 95
 0.48 1.19 1.56 2.03 2.38 2.52 2.90

Median phi: 2.03 Median mm: 0.24

	Mean phi	Mean mm	Sorting	Skewness	Kurtosis
Graphic	1.82	0.28	0.70	-0.47	1.20
Moment	1.87	0.27	0.84	-0.41	1.75

Gradation Analysis Report

Proj Name: Central Boca
 Sample: CBJP-01-04#BOT
 Date: 3/14/01
 By: ID



Elevation: 20 Easting: 963455.00 NAD 1983
 Northing: 731459.00 FLA East Feet

USCS: SW Munsel Dry: 5Y 6/1 Munsel Wet: 5Y 7/1
 Comments: 0

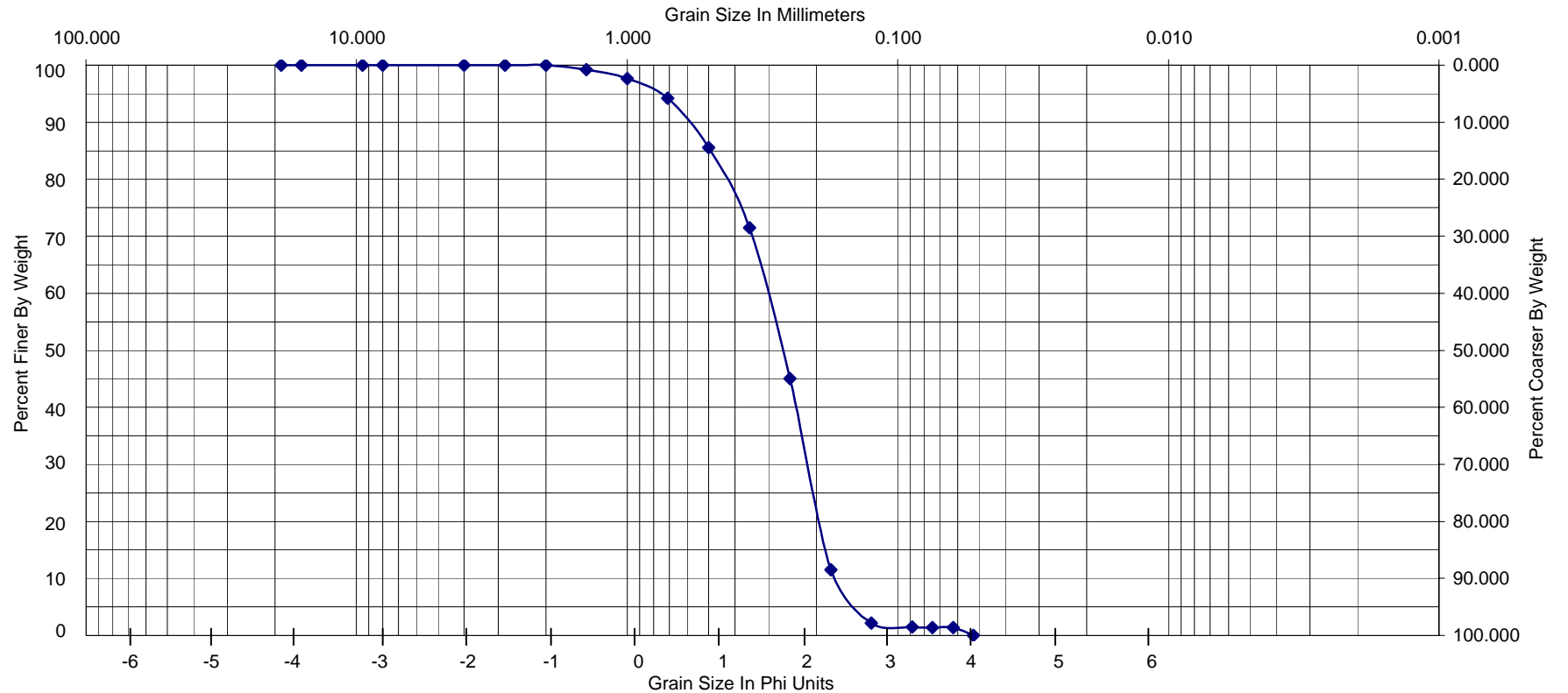
Dry Wt. 76.51 Percent Silt: 2.31
 Wash Wt. 74.75

Sieve Size	PHI Size	mm Size	Grams Retained	% Weight Retained	Cum. Grams Retained	C % Weight Retained
3/4	-4.250	19.027	0.000	0.000	0.000	0.000
5/8	-4.000	16.000	0.000	0.000	0.000	0.000
5/16	-3.250	9.514	0.000	0.000	0.000	0.000
4	-3.000	8.000	0.000	0.000	0.000	0.000
5	-2.000	4.000	0.000	0.000	0.000	0.000
7	-1.500	2.828	0.190	0.248	0.190	0.248
10	-1.000	2.000	0.150	0.196	0.340	0.444
14	-0.500	1.414	0.460	0.601	0.800	1.046
18	0.000	1.000	0.840	1.098	1.640	2.144
25	0.500	0.707	2.210	2.889	3.850	5.032
35	1.000	0.500	5.180	6.770	9.030	11.802
45	1.500	0.354	8.820	11.528	17.850	23.330
60	2.000	0.250	17.900	23.396	35.750	46.726
80	2.500	0.177	26.120	34.139	61.870	80.865
120	3.000	0.125	11.570	15.122	73.440	95.987
170	3.500	0.088	1.270	1.660	74.710	97.647
200	3.750	0.074	0.010	0.013	74.720	97.660
230	4.000	0.063	0.010	0.013	74.730	97.674
Pan	Pan	0.053	1.760	2.300	76.490	99.974

PHI 5 PHI 16 PHI 25 PHI 50 PHI 75 PHI 84 PHI 95
 0.49 1.18 1.54 2.05 2.41 2.60 2.97


Median phi: 2.05 Median mm: 0.24

	Mean phi	Mean mm	Sorting	Skewness	Kurtosis
Graphic	1.86	0.28	0.73	-0.41	1.15
Moment	1.89	0.27	0.87	-0.35	1.67



Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

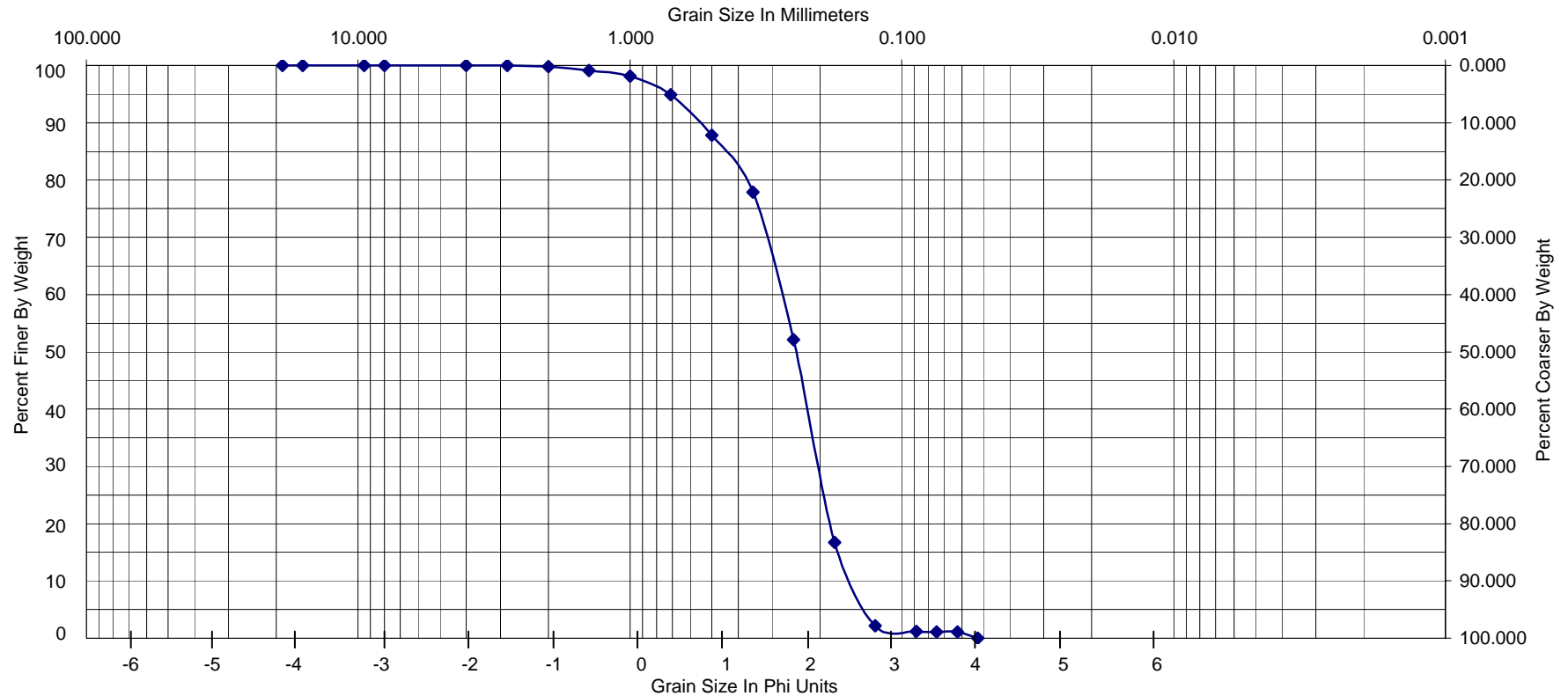
Sample No.	Depth	Description	USCS	% Silt	Median	Mean	Skew	Kurt	Sort	PL	LL	PI	Sample Information
◆ CBJP-01-04#TOP	0.0		SW	1.40	0.27	0.3	-0.31	1.65	0.86	NA	NA	NA	Project Name: Central Boca
													Sample Type: JET PROBES
													Collection Date: 3/14/01
													Analysis By: ID



COASTAL PLANNING & ENGINEERING, INC.

COASTAL PLANNING & ENGINEERING, INC.
2481 N. W. BOCA RATON BLVD.
BOCA RATON, FLORIDA 33431

Easting (X):	963455.00 Feet
Northing (Y):	731459.00 Feet
Sample Elevation:	-50.90 NGVD 29
Coord. System:	NAD 1983 FLA East



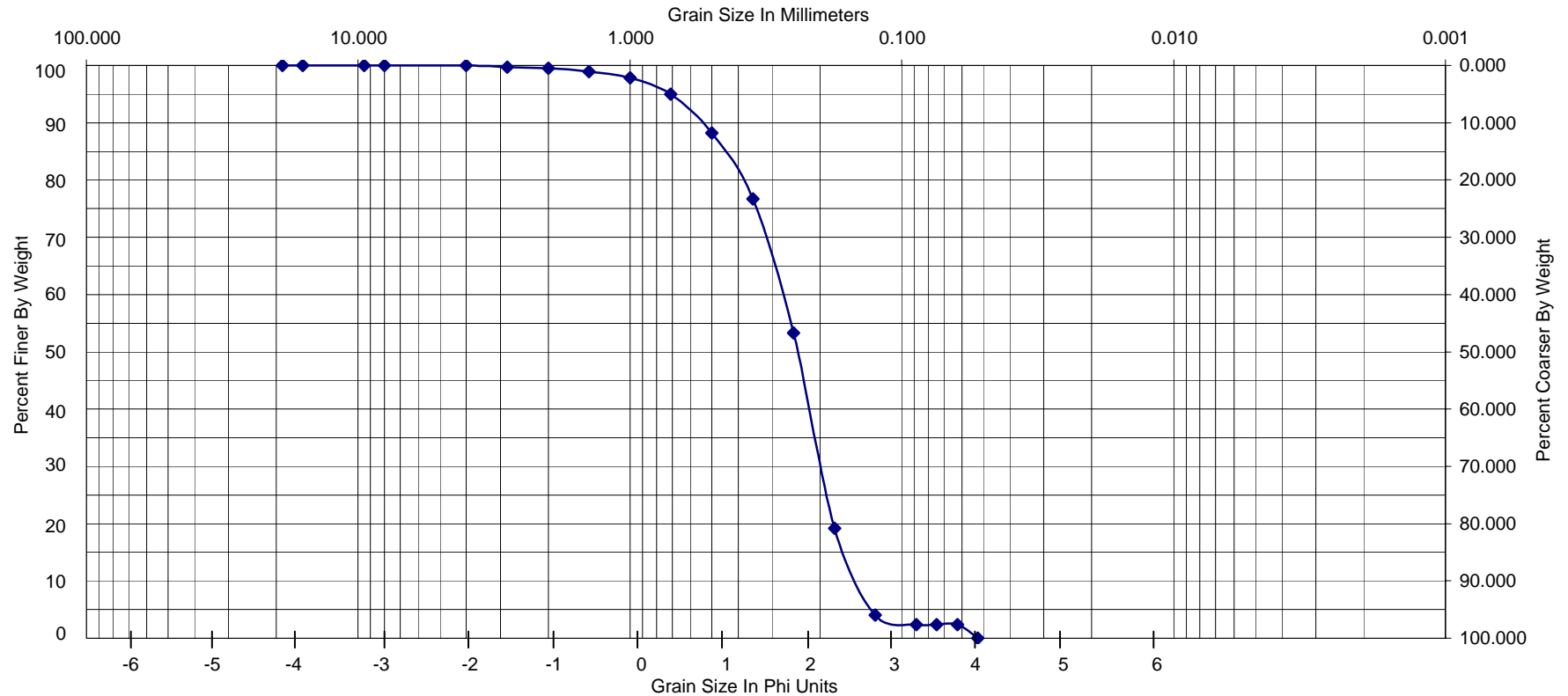
Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Depth	Description	USCS	% Silt	Median	Mean	Skew	Kurt	Sort	PL	LL	PI	Sample Information
— CBJP-01-04#MID	10.0		SW	1.11	0.24	0.27	-0.41	1.75	0.84	NA	NA	NA	Project Name: Central Boca
													Sample Type: JET PROBES
													Collection Date: 3/14/01
													Analysis By: ID



COASTAL PLANNING & ENGINEERING, INC.
2481 N. W. BOCA RATON BLVD.
BOCA RATON, FLORIDA 33431

Easting (X):	963455.00 Feet
Northing (Y):	731459.00 Feet
Sample Elevation:	-50.90 NGVD 29
Coord. System:	NAD 1983 FLA East



Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Depth	Description	USCS	% Silt	Median	Mean	Skew	Kurt	Sort	PL	LL	PI	Sample Information
—◆— CBJP-01-04#BOT	20.0		SW	2.31	0.24	0.27	-0.35	1.67	0.87	NA	NA	NA	Project Name: Central Boca
													Sample Type: JET PROBES
													Collection Date: 3/14/01
													Analysis By: ID



COASTAL PLANNING & ENGINEERING, INC.
2481 N. W. BOCA RATON BLVD.
BOCA RATON, FLORIDA 33431

Easting (X):	963455.00 Feet
Northing (Y):	731459.00 Feet
Sample Elevation:	-50.90 NGVD 29
Coord. System:	NAD 1983 FLA East