

## VIBRACORE LOG

Project: **BIG SARASOTA PASS**Core No: **BSP - 5**

Coordinates:

N = 1074747E = 314392Date: 10-23-91Start Time 1344End Time 1355Water Depth 6.0 NGVDDriller MIKE CLARKE - EXMARClient Rep. JEFF ANDREWS - CPE

Core Diam. 3"  
 Length of Barrel 20"  
 Penetration Depth \_\_\_\_\_  
 Length Recovered 9.8  
 Length Retained 9.8  
 Remarks:

Support Vessel MARINER MARINE  
 Positioning System TRISPOUNDER  
 Positioning Remarks: HYPACT

Weather CLEAR  
 Wind \_\_\_\_\_  
 Dir: SE  
 Est. Speed 5-10 KNTS.  
 Waves \_\_\_\_\_  
 Dir: \_\_\_\_\_  
 Height CALM  
 Current \_\_\_\_\_  
 Dir: NA  
 Est. Speed: \_\_\_\_\_

Analysis By: FK  
 Date: \_\_\_\_\_  
 Analysis Method: SIEVE

CORE LOGGED BY PH

Elev.	Depth	Legend	Description	Samp. No.	Remarks
-4.5	0				
-7.5	1.5		FINE WHITE QUARTZ SAND W/ SHELL HASH 5.0% L.125		
-8.4	2.4		FINE WHITE QUARTZ SAND W/ SHELL HASH 20% L.25		
-9.9	3.9		FINE WHITE QUARTZ SAND W/ SHELL HASH 5.0% L.125	-3.0	MEAN 0.30 mm SILT 2.8 %
-10.7	4.7		SHELL HASH L.125		
-12.0	6.0		FINE WHITE QUARTZ SAND W/ SHELL HASH 30% L.25	-5.5	MEAN 0.53 mm SILT 1.8 %
-15.8	10.9.8		FINE WHITE QUARTZ SAND W/ SHELL HASH 5.0% L.125 SHELL LAYER L.05	-9.0	MEAN 0.34 mm SILT 2.5 %
	15				
	20				

GRADATION ANALYSIS REPORT  
BIG SARASOTA PASS, SAND SAMPLES 22 OCT 1991

TESTED BY: ON: 11-20-91

SAMPLE NO.: BSP5-3  
SAMPLE ELEV. (FT. NGVD): -6.0  
SAMPLE DEPTH (FT.): -3.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 235.42  
SAMPLE WEIGHT AFTER WASH (GRAMS): 229.17

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	6.81	2.89	97.11
7	-1.5	2.800	9.40	3.99	96.01
10	-1.0	2.000	11.46	4.87	95.13
14	-0.5	1.400	12.97	5.51	94.49
18	0.0	1.000	14.41	6.12	93.88
25	0.5	.710	15.57	6.61	93.39
35	1.0	.500	21.47	9.12	90.88
45	1.5	.355	33.70	14.31	85.69
60	2.0	.250	61.10	25.95	74.05
80	2.5	.180	169.29	71.91	28.09
120	3.0	.125	224.96	95.56	4.44
170	3.5	.090	228.68	97.14	2.86
200	3.75	.075	228.89	97.23	2.77
230	4.0	.063	232.05	98.57	1.43
PAN			235.35	99.97	.03

SIEVE LOSS(g):	.07		
MEDIAN (mm):	.209	MEAN (mm):	.300
SILT/CLAY:	2.77%	SORTING:	.592
SKEWNESS:	-2.432	KURTOSIS:	2.626

PHI(5):	-.90	PHI(16):	1.57	PHI(25):	1.96
PHI(50):	2.26	PHI(75):	2.57	PHI(84):	2.76
PHI(95):	2.99				
COEFFICIENT OF CURVATURE : 1.055					
COEFFICIENT OF UNIFORMITY: 1.658					

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  
DATA FILE NAME: BSP5-03.TAB



GRADATION ANALYSIS REPORT  
BIG SARASOTA PASS, SAND SAMPLES 22 OCT 1991

TESTED BY: ON: 11-20-91

SAMPLE NO.: BSP5-5  
SAMPLE ELEV. (FT. NGVD): -6.0  
SAMPLE DEPTH (FT.): -5.5  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 225.42  
SAMPLE WEIGHT AFTER WASH (GRAMS): 221.81

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	16.81	7.46	92.54
7	-1.5	2.800	24.58	10.90	89.10
10	-1.0	2.000	34.36	15.24	84.76
14	-0.5	1.400	41.78	18.53	81.47
18	0.0	1.000	48.92	21.70	78.30
25	0.5	.710	53.89	23.91	76.09
35	1.0	.500	62.46	27.71	72.29
45	1.5	.355	70.96	31.48	68.52
60	2.0	.250	89.96	39.91	60.09
80	2.5	.180	167.22	74.18	25.82
120	3.0	.125	217.66	96.56	3.44
170	3.5	.090	221.19	98.12	1.88
200	3.75	.075	221.45	98.24	1.76
230	4.0	.063	223.32	99.07	.93
PAN			225.42	100.00	.00

SIEVE LOSS(g):	.00	MEAN (mm):	.527
MEDIAN (mm):	.226	SORTING:	1.802
SILT/CLAY:	1.76%	KURTOSIS:	1.158
SKEWNESS:	-3.659		

PHI(5): -2.33	PHI(16): -.88	PHI(25): .64
PHI(50): 2.15	PHI(75): 2.52	PHI(84): 2.72
PHI(95): 2.97		
COEFFICIENT OF CURVATURE :	.984	
COEFFICIENT OF UNIFORMITY:	1.805	

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  
DATA FILE NAME: BSP5-05.TAB

GRADATION ANALYSIS REPORT  
BIG SARASOTA PASS, SAND SAMPLES 22 OCT 1991

TESTED BY: ON: 11-20-91

SAMPLE NO.: BSP5-9  
SAMPLE ELEV. (FT. NGVD): -6.0  
SAMPLE DEPTH (FT.): -9.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 272.67  
SAMPLE WEIGHT AFTER WASH (GRAMS): 266.99

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	7.85	2.88	97.12
7	-1.5	2.800	12.33	4.52	95.48
10	-1.0	2.000	16.86	6.18	93.82
14	-0.5	1.400	21.16	7.76	92.24
18	0.0	1.000	25.46	9.34	90.66
25	0.5	.710	29.30	10.75	89.25
35	1.0	.500	38.59	14.15	85.85
45	1.5	.355	50.65	18.58	81.42
60	2.0	.250	75.43	27.66	72.34
80	2.5	.180	216.69	79.47	20.53
120	3.0	.125	260.63	95.58	4.42
170	3.5	.090	265.49	97.37	2.63
200	3.75	.075	265.87	97.51	2.49
230	4.0	.063	268.85	98.60	1.40
PAN			272.66	100.00	.00

SIEVE LOSS(g):	.01	
MEDIAN (mm):	.215	MEAN (mm): .344
SILT/CLAY:	2.49%	SORTING: .716
SKEWNESS:	-2.805	KURTOSIS: 2.946

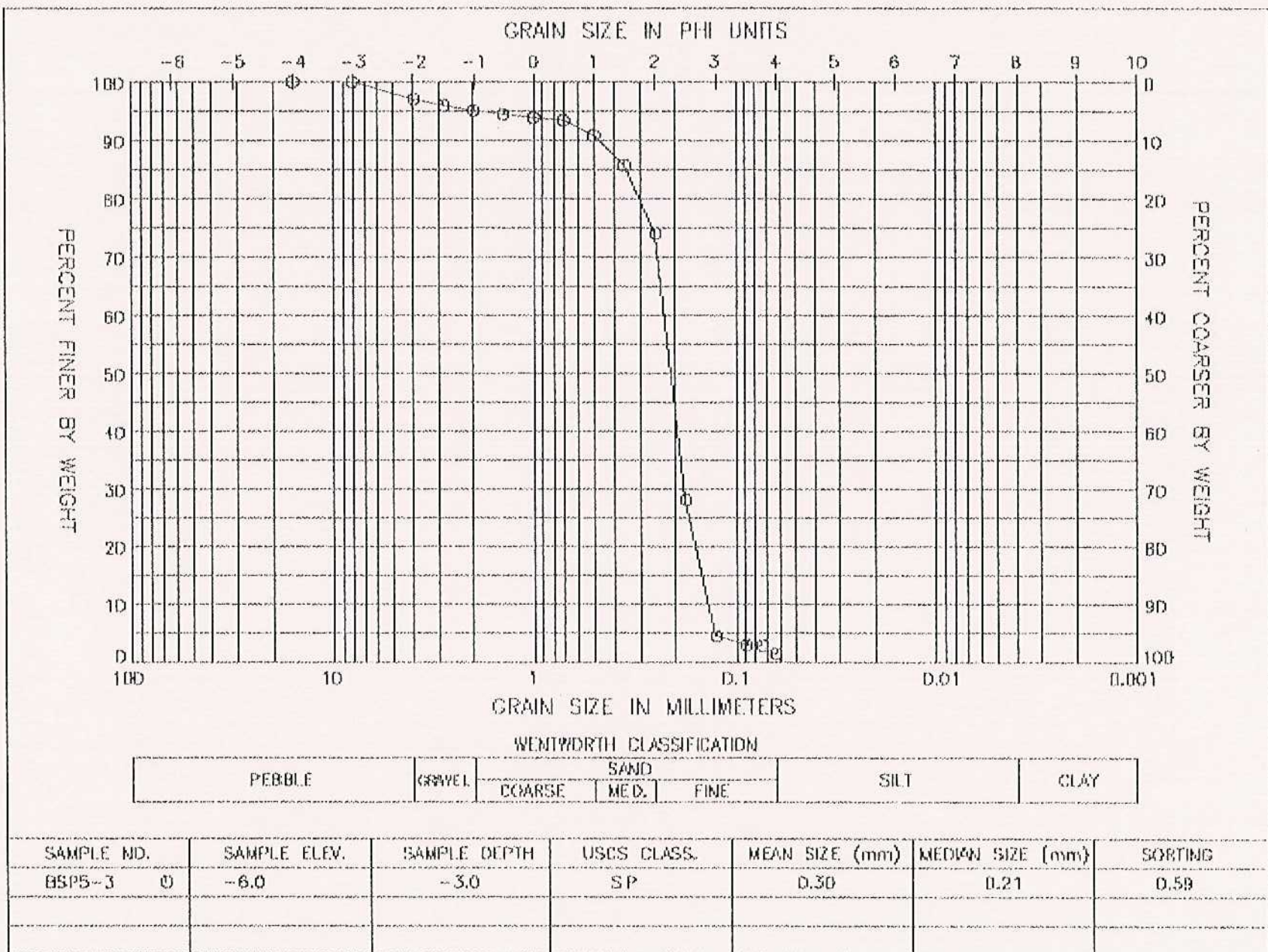
PHI(5): -1.36	PHI(16): 1.21	PHI(25): 1.85
PHI(50): 2.22	PHI(75): 2.46	PHI(84): 2.64
PHI(95): 2.98		

COEFFICIENT OF CURVATURE : 1.093  
COEFFICIENT OF UNIFORMITY: 1.633

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  
DATA FILE NAME: BSP5-09.TAB

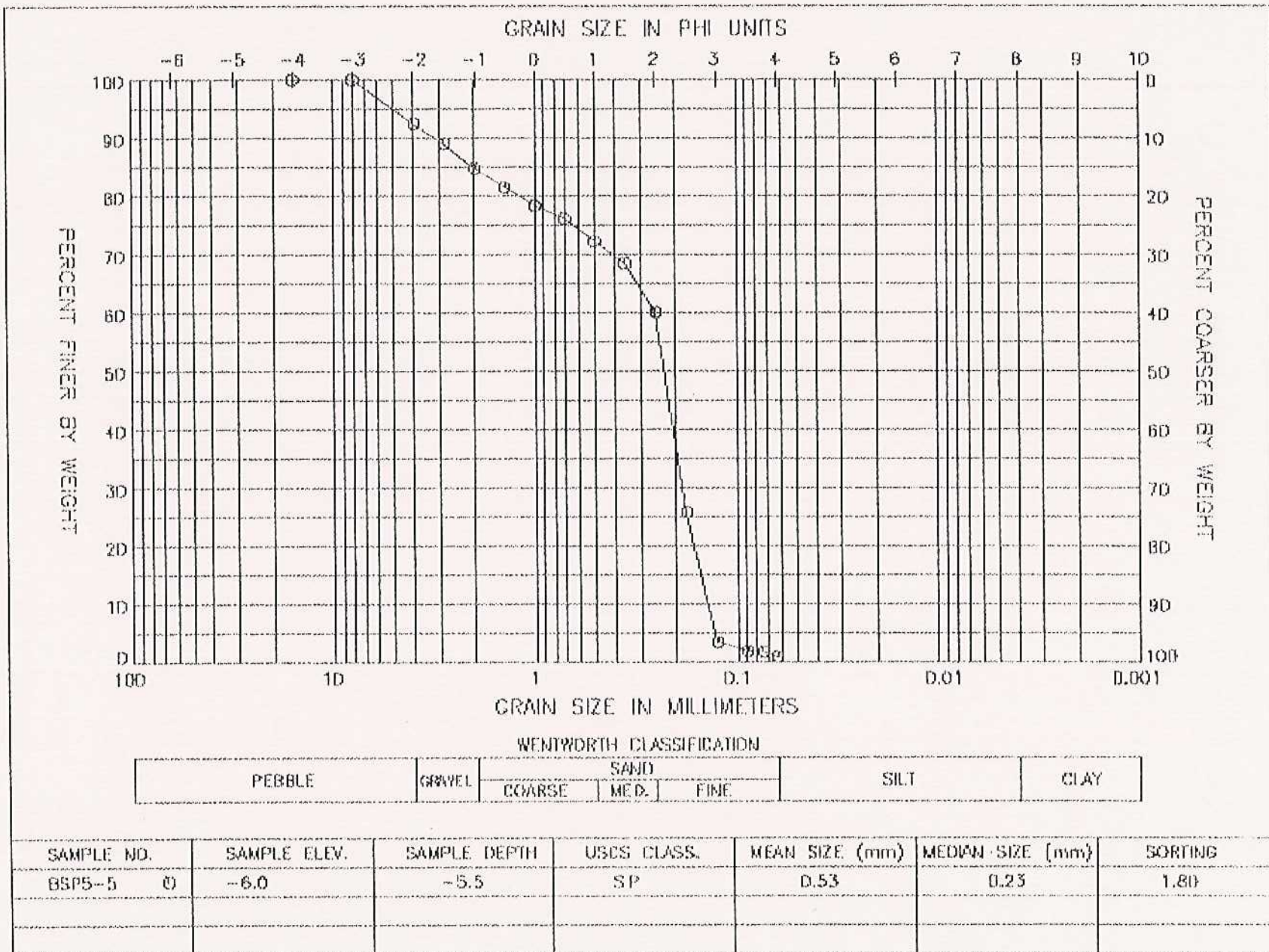


GRAIN SIZE DISTRIBUTION CURVE  
BIG SARASOTA PASS, SAND SAMPLES 22 0





GRAIN SIZE DISTRIBUTION CURVE  
BIG SARASOTA PASS, SAND SAMPLES 22 0





GRAIN SIZE IN PHI UNITS

PERCENT FINER BY WEIGHT

PERCENT COARSER BY WEIGHT

GRAIN SIZE IN MILLIMETERS

WENTWORTH CLASSIFICATION

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.			MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
			COARSE	MED.	FINE			
BSP5-9	0	-6.0	-9.0	SP	0.34	0.22	0.72	

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
BSP5-9 U	-6.0	-9.0	SP	0.34	0.22	0.72