

VIBRACORE LOG

Project: BIG SARASOTA PASS		Core No: BSP-8 AND BSP-8H	
Coordinates:	Date: 10-23-91	Water Depth 5.6'	NGVD
N = 1.069268	Start Time 1200/1754	Driller MIKE CLARKE - EXMAR	
E = 313012	End Time 1730/1805	Client Rep. JEFF ANDREWS - CPE	

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3"</u>	-5.6	0		FINE WHITE QUARTZ SAND		
Length of Barrel <u>20"</u>	-7.2	1.6				
Penetration Depth <u>11.5</u>				FINE SHELL HASH <.125" W/ WHITE QUARTZ SAND	(-3.0)	MEAN 0.53mm SILT 2.0%
Length Recovered <u>11.5</u>	-10.1	4.5				
Length Retained <u>11.5</u>	-10.7	5		FINE WHITE QUARTZ SAND W/ SHELL HASH 5% <.125"		
Remarks: <u>2ND ATTEMPT: BSP-8A</u>	-11.5	5.9		SHELL HASH <.125" W/ WHITE QUARTZ SAND		
PENETRATION DEPTH <u>13.6</u>	-13.6	8.0		FINE WHITE QUARTZ SAND W/ SHELL HASH 5% <.125"	(-7.0)	MEAN 0.25mm SILT 1.3%
LENGTH RECOVERED <u>13.6</u>						
LENGTH RETAINED <u>13.6</u>						
JETTED TO: <u>8.0</u>						
Support Vessel <u>MARINER MARINE</u>						
Positioning System <u>TRISPONDER</u>						
Positioning Remarks: <u>HYPACT</u>						
Weather <u>CLEAR</u>						
Wind <u>SE</u>	-17.1	10		FINE WHITE QUARTZ SAND W/ SHELL HASH 5% <.125"		START OF 2 ND ATTEMPT
Dir: <u>SE</u>						
Est. Speed <u>5-10 KNTS.</u>	-18.2	12.6		FINE WHITE QUARTZ SAND W/ SHELL HASH 5% <.125"	(-11.0)	MEAN 0.25mm SILT 1.2%
Waves <u>CALM</u>						
Dir: <u>NA</u>	-19.2	13.6		FINE SHELL HASH <.125" W/ WHITE QUARTZ SAND		
Height <u>CALM</u>						
Current <u>NA</u>						
Dir: <u>NA</u>		15				
Est. Speed: <u> </u>						
Analysis By: <u>FK</u>						
Date: <u> </u>						
Analysis Method: <u>SIEVE</u>						
CORE LOGGED BY <u>PH</u>		20				

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

TESTED BY: ON: 11-20-91

SAMPLE NO.: BSP8-3
SAMPLE ELEV. (FT. NGVD): -5.7
SAMPLE DEPTH (FT.): -3.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 212.47
SAMPLE WEIGHT AFTER WASH (GRAMS): 208.34

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	14.14	6.66	93.34
7	-1.5	2.800	21.33	10.04	89.96
10	-1.0	2.000	30.71	14.45	85.55
14	-0.5	1.400	38.00	17.88	82.12
18	0.0	1.000	45.39	21.36	78.64
25	0.5	.710	51.06	24.03	75.97
35	1.0	.500	59.66	28.08	71.92
45	1.5	.355	69.40	32.66	67.34
60	2.0	.250	94.17	44.32	55.68
80	2.5	.180	174.12	81.95	18.05
120	3.0	.125	203.97	96.00	4.00
170	3.5	.090	208.00	97.90	2.10
200	3.75	.075	208.20	97.99	2.01
230	4.0	.063	210.26	98.96	1.04
PAN			212.47	100.00	.00

SIEVE LOSS(g): .00
MEDIAN (mm): .237
SILT/CLAY: 2.01%
SKEWNESS: -3.435
MEAN (mm): .529
SORTING: 1.674
KURTOSIS: 1.195

PHI(5): -2.25
PHI(50): 2.08
PHI(95): 2.96
PHI(16): -.77
PHI(75): 2.41
PHI(25): .62
PHI(84): 2.57
COEFFICIENT OF CURVATURE : .945
COEFFICIENT OF UNIFORMITY: 1.961

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: BSP8-03.TAB

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

TESTED BY: ON: 11-20-91

SAMPLE NO.: BSP8-7
SAMPLE ELEV. (FT. NGVD): -5.7
SAMPLE DEPTH (FT.): -7.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 195.50
SAMPLE WEIGHT AFTER WASH (GRAMS): 193.60

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	.82	.42	99.58
7	-1.5	2.800	2.52	1.29	98.71
10	-1.0	2.000	4.85	2.48	97.52
14	-0.5	1.400	7.31	3.74	96.26
18	0.0	1.000	9.87	5.05	94.95
25	0.5	.710	11.92	6.10	93.90
35	1.0	.500	18.17	9.29	90.71
45	1.5	.355	31.70	16.21	83.79
60	2.0	.250	51.37	26.28	73.72
80	2.5	.180	112.90	57.75	42.25
120	3.0	.125	180.14	92.14	7.86
170	3.5	.090	192.89	98.66	1.34
200	3.75	.075	192.92	98.68	1.32
230	4.0	.063	193.99	99.23	.77
PAN			195.42	99.96	.04

SIEVE LOSS(g):	.08		
MEDIAN (mm):	.193	MEAN (mm):	.252
SILT/CLAY:	1.32%	SORTING:	.699
SKEWNESS:	-1.553	KURTOSIS:	1.630

PHI(5):	-.02	PHI(16):	1.48	PHI(25):	1.94
PHI(50):	2.38	PHI(75):	2.75	PHI(84):	2.88
PHI(95):	3.22				
COEFFICIENT OF CURVATURE :	.889				
COEFFICIENT OF UNIFORMITY:	1.683				

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: BSP8-07.TAB

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

TESTED BY: ON: 11-20-91

SAMPLE NO.: BSP8-11
SAMPLE ELEV. (FT. NGVD): -5.7
SAMPLE DEPTH (FT.): -11.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 243.06
SAMPLE WEIGHT AFTER WASH (GRAMS): 240.96

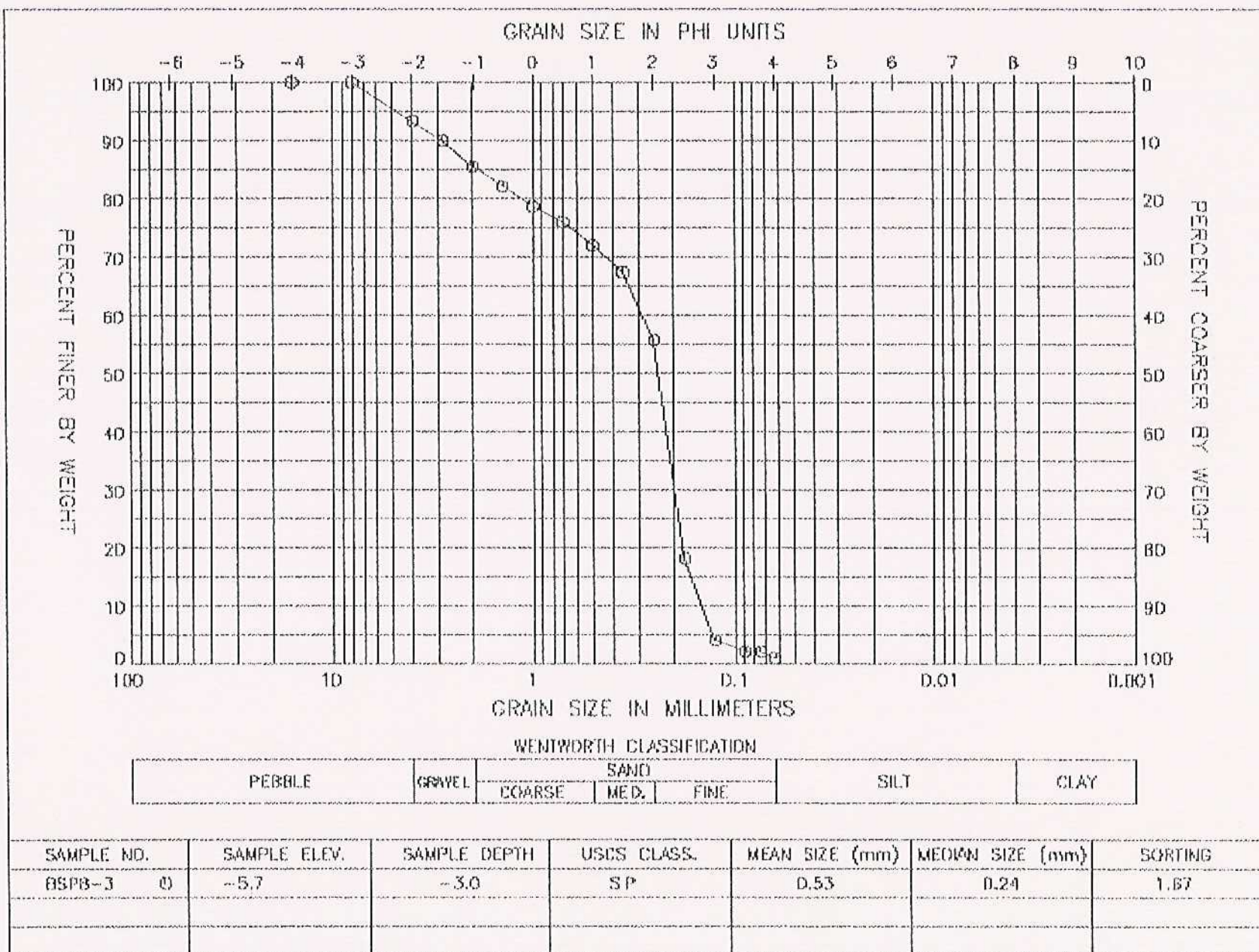
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	1.31	.54	99.46
7	-1.5	2.800	2.12	.87	99.13
10	-1.0	2.000	3.82	1.57	98.43
14	-0.5	1.400	5.43	2.23	97.77
18	0.0	1.000	7.67	3.16	96.84
25	0.5	.710	9.96	4.10	95.90
35	1.0	.500	21.52	8.85	91.15
45	1.5	.355	39.11	16.09	83.91
60	2.0	.250	65.19	26.82	73.18
80	2.5	.180	183.95	75.68	24.32
120	3.0	.125	235.90	97.05	2.95
170	3.5	.090	239.56	98.56	1.44
200	3.75	.075	240.13	98.79	1.21
230	4.0	.063	241.33	99.29	.71
PAN			243.09	100.01	-.01

SIEVE LOSS(g):	-.03		
MEDIAN (mm):	.212	MEAN (mm):	.251
SILT/CLAY:	1.21%	SORTING:	.600
SKEWNESS:	-.928	KURTOSIS:	1.672

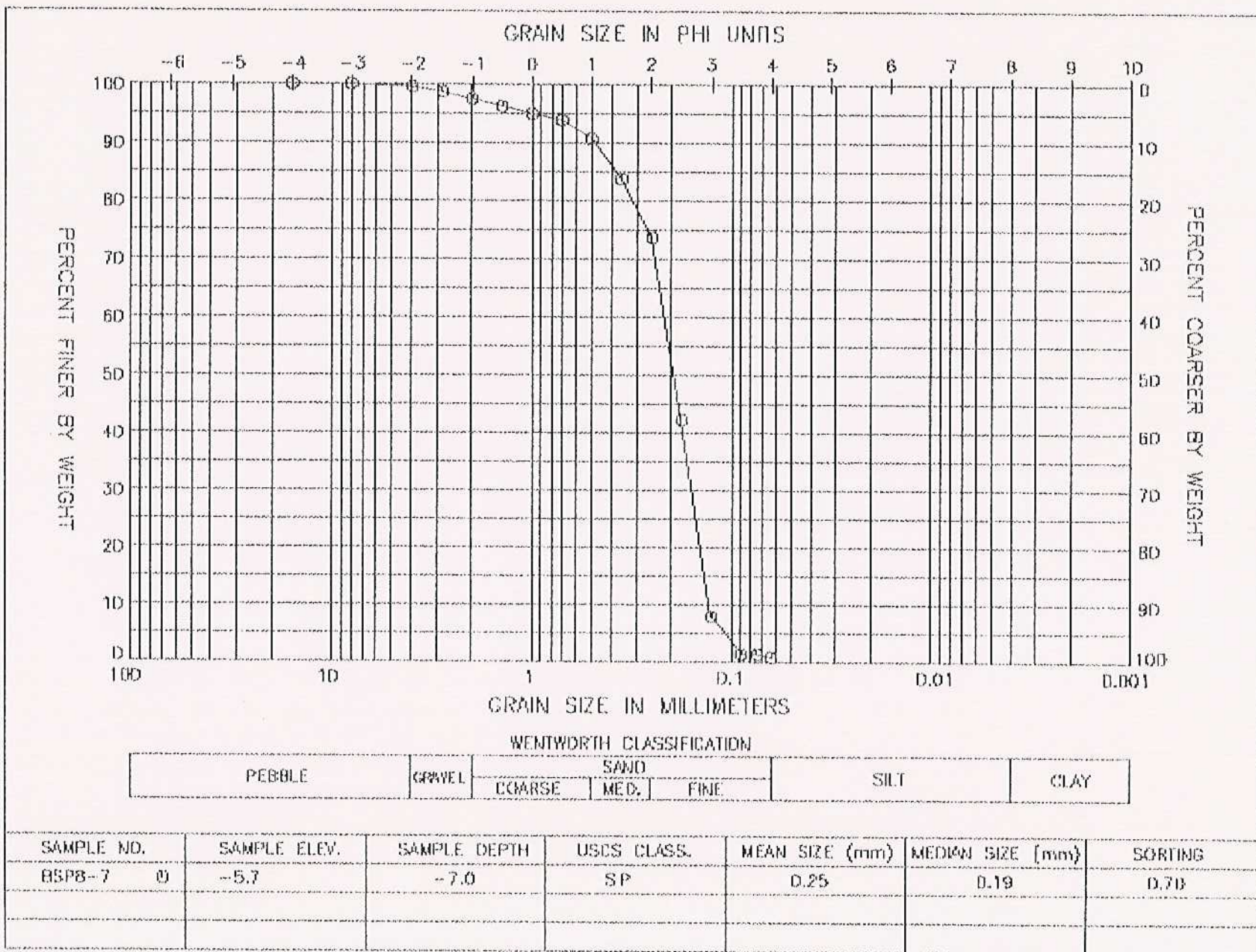
PHI(5):	.59	PHI(16):	1.49	PHI(25):	1.92
PHI(50):	2.24	PHI(75):	2.49	PHI(84):	2.69
PHI(95):	2.95				
COEFFICIENT OF CURVATURE :	1.062				
COEFFICIENT OF UNIFORMITY:	1.625				

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: BSP8-11.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
			PEBBLE	GRAVEL	SAND			
BSP8-11	0	-5.7	-11.0	SP	0.25	0.21	D.BD	

PEBBLE	GRAVEL	SAND			SILT	CLAY
		COARSE	MED.	FINE		

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
BSP8-11 Ø	-5.7	-11.8	SP	0.25	0.21	D.BR