

VIBRACORE LOG

Project: BIG SARASOTA PASSCore No: BSP - 7

Coordinates:



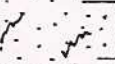
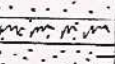
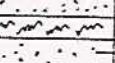



N = 1070703E = 312197Date: 10-23-91Start Time 1528End Time 1540Water Depth 10.6 NGVDDriller MIKE CLARKE - EXMARClient Rep. JEFF ANDREWS - CPE

Core Diam. 3"
 Length of Barrel 20"
 Penetration Depth _____
 Length Recovered 14.3
 Length Retained 14.3
 Remarks: _____

Support Vessel MARINER MARINE
 Positioning System TRISPONDER
 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
-10.6	0				
-13.0	2.4'		FINE WHITE QUARTZ SAND	(-3.0)	MEAN 0.28 mm SILT 1.4 %
	5		FINE WHITE QUARTZ SAND W/ SHELL HASH 5% L. 1.35"		MEAN 0.52 mm SILT 3.31 %
-17.0	6.4		SHELL HASH L. 1.35" W/ QUARTZ SAND	(-6.5)	
-17.3	6.7		FINE WHITE QUARTZ SAND		
-18.1	7.5		FINE WHITE QUARTZ SAND		
-18.4	7.8		SHELL HASH L. 2.25"		
	10		FINE WHITE QUARTZ SAND	(-10.0)	MEAN 0.19 mm SILT 3.5 %
-24.9	14.3				
	15				
	20				

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

TESTED BY: ON: 11-20-91

SAMPLE NO.: BSP7-3
SAMPLE ELEV. (FT. NGVD): -4.0
SAMPLE DEPTH (FT.): -3.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 212.37
SAMPLE WEIGHT AFTER WASH (GRAMS): 209.80

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	3.56	1.68	98.32
7	-1.5	2.800	6.71	3.16	96.84
10	-1.0	2.000	11.33	5.34	94.66
14	-0.5	1.400	15.29	7.20	92.80
18	0.0	1.000	19.50	9.18	90.82
25	0.5	.710	22.24	10.47	89.53
35	1.0	.500	27.50	12.95	87.05
45	1.5	.355	33.59	15.82	84.18
60	2.0	.250	45.05	21.21	78.79
80	2.5	.180	108.28	50.99	49.01
120	3.0	.125	195.05	91.84	8.16
170	3.5	.090	208.97	98.40	1.60
200	3.75	.075	209.46	98.63	1.37
230	4.0	.063	210.76	99.24	.76
PAN			212.35	99.99	.01

SIEVE LOSS(g):	.02		
MEDIAN (mm):	.179	MEAN (mm):	.284
SILT/CLAY:	1.37%	SORTING:	.694
SKEWNESS:	-2.803	KURTOSIS:	2.423

PHI(5): -1.08	PHI(16): 1.52	PHI(25): 2.06
PHI(50): 2.48	PHI(75): 2.79	PHI(84): 2.90
PHI(95): 3.24		
COEFFICIENT OF CURVATURE :	.887	
COEFFICIENT OF UNIFORMITY:	1.582	

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: BSP7-03.TAB

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

TESTED BY: ON: 11-20-91

SAMPLE NO.: BSP7-6
SAMPLE ELEV. (FT. NGVD): -4.0
SAMPLE DEPTH (FT.): -6.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 198.03
SAMPLE WEIGHT AFTER WASH (GRAMS): 192.39

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	18.33	9.26	90.74
7	-1.5	2.800	27.91	14.09	85.91
10	-1.0	2.000	38.78	19.58	80.42
14	-0.5	1.400	47.67	24.07	75.93
18	0.0	1.000	57.28	28.92	71.08
25	0.5	.710	64.29	32.46	67.54
35	1.0	.500	72.10	36.41	63.59
45	1.5	.355	77.28	39.02	60.98
60	2.0	.250	83.82	42.33	57.67
80	2.5	.180	122.28	61.75	38.25
120	3.0	.125	180.40	91.10	8.90
170	3.5	.090	190.36	96.13	3.87
200	3.75	.075	191.47	96.69	3.31
230	4.0	.063	194.43	98.18	1.82
PAN			198.03	100.00	.00

SIEVE LOSS(g):	.00	MEAN (mm):	.523
MEDIAN (mm):	.218	SORTING:	2.103
SILT/CLAY:	3.31%	KURTOSIS:	.766
SKEWNESS:	-3.467		

PHI(5): -2.46	PHI(16): -1.33	PHI(25): -.40
PHI(50): 2.20	PHI(75): 2.73	PHI(84): 2.88
PHI(95): 3.39		
COEFFICIENT OF CURVATURE :	.636	
COEFFICIENT OF UNIFORMITY:	2.520	

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: BSP7-06.TAB

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

TESTED BY: ON: 11-20-91

SAMPLE NO.: BSP7-10
SAMPLE ELEV. (FT. NGVD): -4.0
SAMPLE DEPTH (FT.): -10.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 230.97
SAMPLE WEIGHT AFTER WASH (GRAMS): 224.95

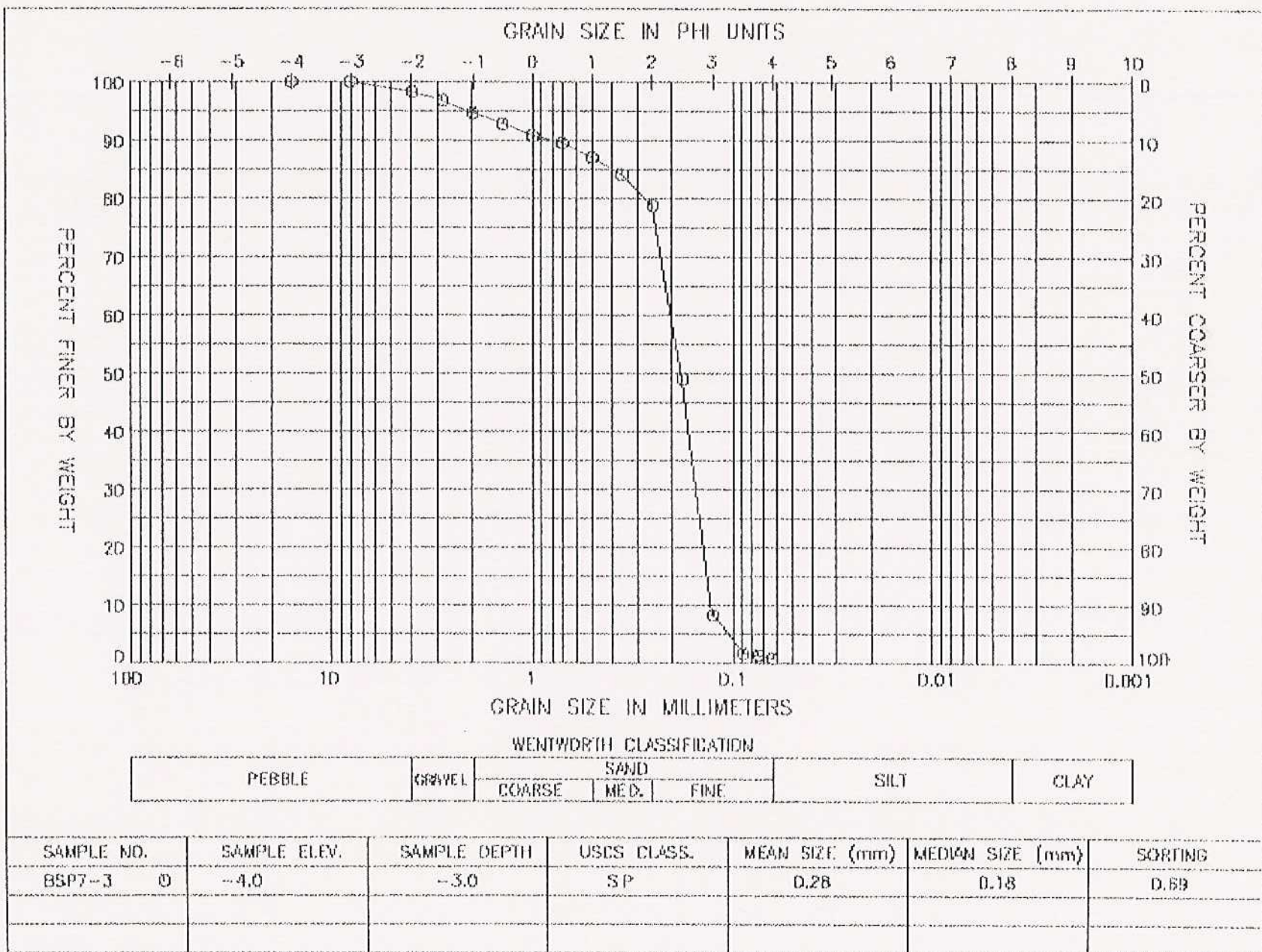
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	.36	.16	99.84
7	-1.5	2.800	.60	.26	99.74
10	-1.0	2.000	1.33	.58	99.42
14	-0.5	1.400	2.21	.96	99.04
18	0.0	1.000	3.48	1.51	98.49
25	0.5	.710	5.05	2.19	97.81
35	1.0	.500	9.88	4.28	95.72
45	1.5	.355	15.50	6.71	93.29
60	2.0	.250	26.39	11.43	88.57
80	2.5	.180	111.41	48.24	51.76
120	3.0	.125	208.17	90.13	9.87
170	3.5	.090	221.52	95.91	4.09
200	3.75	.075	222.98	96.54	3.46
230	4.0	.063	226.44	98.04	1.96
PAN			230.94	99.99	.01

SIEVE LOSS(g):	.03		
MEDIAN (mm):	.174	MEAN (mm):	.187
SILT/CLAY:	3.46%	SORTING:	.432
SKEWNESS:	-.472	KURTOSIS:	1.467

PHI(5):	1.15	PHI(16):	2.06	PHI(25):	2.18
PHI(50):	2.52	PHI(75):	2.82	PHI(84):	2.93
PHI(95):	3.42				
COEFFICIENT OF CURVATURE :	.912				
COEFFICIENT OF UNIFORMITY:	1.527				

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: BSP7-10.TAB

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

PEBBLE	GRAVEL	SAND			SILT	CLAY
		COARSE	MED.	FINE		
SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
BSP7-8	0	-4.5	SP	0.52	0.22	2.10

PEBBLE	GRAVEL	SAND			SILT	CLAY
		COARSE	MED.	FINE		

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
BSP7-8 ①	-4.0	-6.5	SP	0.52	0.22	2.10

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			
BSP7-10	0	-4.0				0.19	0.17	D.43

PEBBLE	GRAVEL	SAND			SILT	CLAY
		COARSE	MED.	FINE		

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
BSP7-10 ①	~4.0	~10.0	SP	0.19	0.17	D.43