

VIBRACORE LOG

Project: <u>NEW PASS EBB SHOAL</u>		Core No: <u>NP - 6</u>	
Coordinates: N = <u>1,085,159</u> E = <u>306,958</u>		Date: <u>10/23/91</u> Start Time <u>1124</u> End Time <u>1135</u>	
		Water Depth <u>6.5</u> NGVD Driller <u>MIKE CLARKE - EXMAR</u> Client Rep. <u>JEFF ANDREWS - CPE</u>	

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3"</u>	<u>-6.5</u>	<u>0</u>				
Length of Barrel <u>20'</u>				FINE WHITE QUARTZ SAND		
Penetration Depth <u>12.8</u>						
Length Recovered <u>12.8</u>				ONE CLAM SHELL	<u>-4'</u>	MEAN 0.16 mm SILT 1.7%
Remarks:		<u>5</u>				
Support Vessel <u>MARINER MARINE</u>						
Positioning System <u>TRISPONDER</u>						
Positioning Remarks: <u>HYPACT</u>		<u>10</u>			<u>-8'</u>	MEAN 0.19 mm SILT 3.1%
Weather <u>CLEAR</u>						
Wind						
Dir: <u>SE</u>						
Est. Speed <u>5-10 KNTS.</u>						
Waves						
Dir: _____						
Height <u>CALM</u>						
Current						
Dir: <u>NA</u>						
Est. Speed: _____						
	<u>-19.3</u>	<u>12.8</u>				
		<u>15</u>				
Analysis By: <u>FK</u>						
Date: _____						
Analysis Method: <u>SIEVE</u>						
CORE LOGGED BY: <u>PH</u>		<u>20</u>				

GRADATION ANALYSIS REPORT
LIDO KEY SAND SAMPLES, OCT 23 1991

TESTED BY: ON: 11-13-91

SAMPLE NO.: NP6-4
SAMPLE ELEV. (FT. NGVD): -5
SAMPLE DEPTH (FT.): -4
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 255.98
SAMPLE WEIGHT AFTER WASH (GRAMS): 251.82

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	.15	.06	99.94
7	-1.5	2.800	.32	.13	99.87
10	-1.0	2.000	.65	.25	99.75
14	-0.5	1.400	.98	.38	99.62
18	0.0	1.000	1.33	.52	99.48
25	0.5	.710	1.65	.64	99.36
35	1.0	.500	2.30	.90	99.10
45	1.5	.355	3.35	1.31	98.69
60	2.0	.250	5.79	2.26	97.74
80	2.5	.180	106.93	41.77	58.23
120	3.0	.125	225.09	87.93	12.07
170	3.5	.090	249.85	97.61	2.39
200	3.75	.075	251.58	98.28	1.72
230	4.0	.063	253.75	99.13	.87
PAN			255.95	99.99	.01

SIEVE LOSS(g):	.03		
MEDIAN (mm):	.166	MEAN (mm):	.162
SILT/CLAY:	1.72%	SORTING:	.392
SKEWNESS:	.222	KURTOSIS:	.953

PHI(5):	2.03	PHI(16):	2.17	PHI(25):	2.29
PHI(50):	2.59	PHI(75):	2.86	PHI(84):	2.96
PHI(95):	3.37				
COEFFICIENT OF CURVATURE : .981					
COEFFICIENT OF UNIFORMITY: 1.547					

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: NP6-04.TAB

GRADATION ANALYSIS REPORT
LIDO KEY SAND SAMPLES, OCT 23 1991

TESTED BY: ON: 11-13-91

SAMPLE NO.: NP6-8
SAMPLE ELEV. (FT. NGVD): -5
SAMPLE DEPTH (FT.): -8
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 275.13
SAMPLE WEIGHT AFTER WASH (GRAMS): 267.45

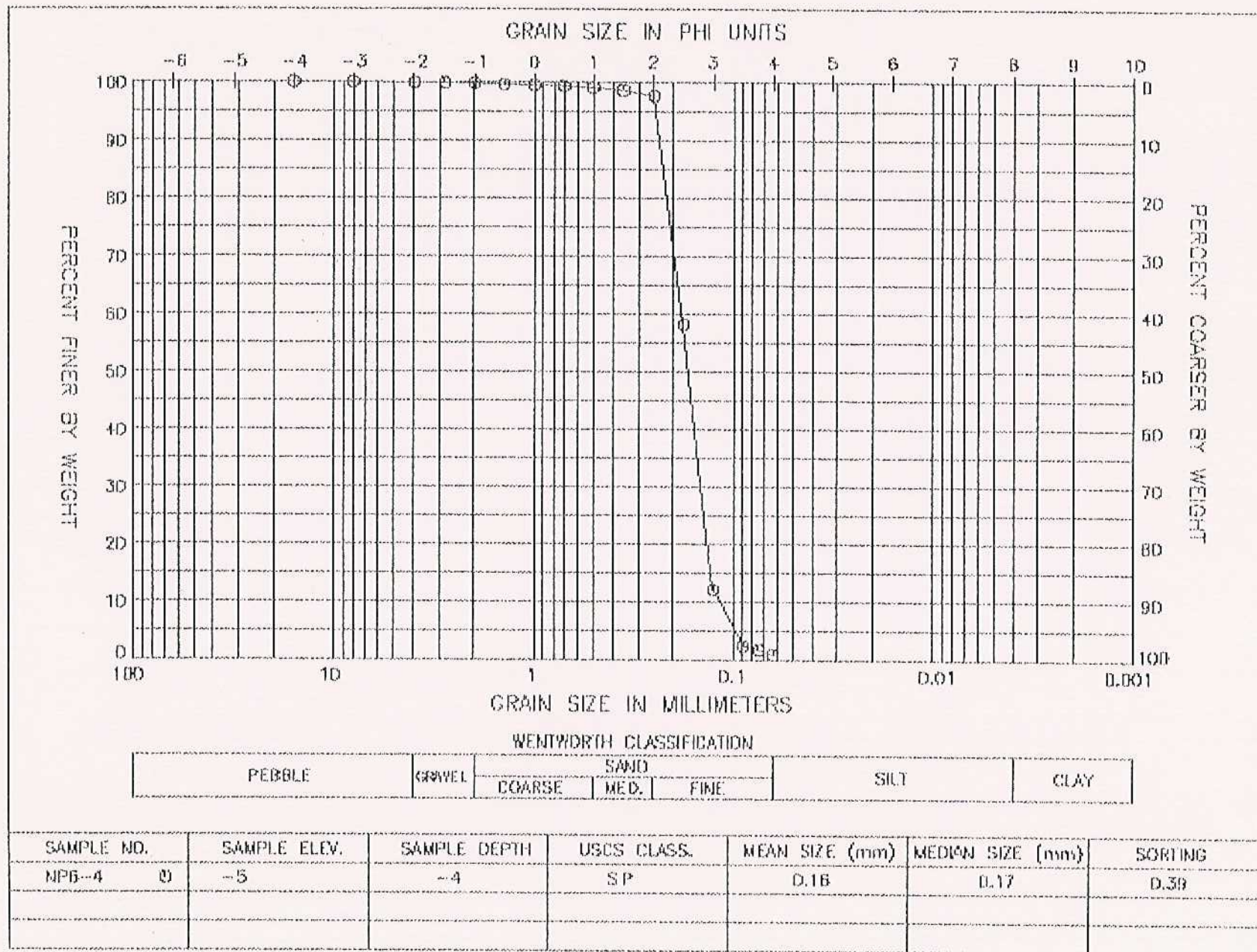
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	.47	.17	99.83
7	-1.5	2.800	.86	.31	99.69
10	-1.0	2.000	1.58	.57	99.43
14	-0.5	1.400	2.29	.83	99.17
18	0.0	1.000	3.00	1.09	98.91
25	0.5	.710	3.51	1.28	98.72
35	1.0	.500	4.19	1.52	98.48
45	1.5	.355	5.03	1.83	98.17
60	2.0	.250	7.59	2.76	97.24
80	2.5	.180	252.61	91.81	8.19
120	3.0	.125	261.22	94.94	5.06
170	3.5	.090	266.16	96.74	3.26
200	3.75	.075	266.70	96.94	3.06
230	4.0	.063	270.64	98.37	1.63
PAN			275.10	99.99	.01

SIEVE LOSS(g):	.03	MEAN (mm):	.194
MEDIAN (mm):	.208	SORTING:	.191
SILT/CLAY:	3.06%	KURTOSIS:	1.464
SKEWNESS:	.498		

PHI(5):	2.01	PHI(16):	2.07	PHI(25):	2.12
PHI(50):	2.27	PHI(75):	2.41	PHI(84):	2.46
PHI(95):	3.02				
COEFFICIENT OF CURVATURE :	.962				
COEFFICIENT OF UNIFORMITY:	1.215				

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: NP6-08.TAB

GRAIN SIZE DISTRIBUTION CURVE
 LIDO KEY SAND SAMPLES, OCT 23 1991



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			
NP6-8	0	-5			SP	0.19	0.21	0.19

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
NPB-8	0	-3	SP	0.19	0.21	0.19