

## VIBRACORE LOG

Project: NEW PASS EBB SHOALCore No: NP - 5

Coordinates:

N = 1085334E = 306537Date: 10/23/91Start Time 0943End Time 0955Water Depth 9.6 NGVDDriller MIKE CLARKE - EXMARClient Rep. JEFF ANDREWS - CPE

		Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3"</u> Length of Barrel <u>20'</u> Penetration Depth _____ Length Recovered <u>11.6</u> Length Retained <u>11.6</u> Remarks: _____		-9.6	0				
			5		FINE WHITE QUARTZ SAND	-4'	MEAN 0.17mm SILT 2.3%
	Support Vessel <u>MARINER MARINE</u>						
	Positioning System <u>TRISPOUNDER</u>						
Positioning Remarks: <u>HYPACT</u>		-18.7	9.1			-8'	MEAN 0.19mm SILT 2.2%
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: _____		-19.9	10		FINE GRAY QUARTZ SAND SHELL FRAGMENTS 1" 0.1%	-10'	MEAN 0.18mm SILT 2.8%
		-20.7	11.1		FINE WHITE QUARTZ SAND		
		-21.2	11.6		FINE GRAY QUARTZ SAND		
					W/ SHELL WASH LO.5"		
Analysis By: <u>FK</u>			15				
Date: _____							
Analysis Method: <u>SIEVE</u>							
Core Logged BY: <u>PH</u>			20				

GRADATION ANALYSIS REPORT  
LIDO KEY SAND SAMPLES, OCT 23 1991

TESTED BY: ON: 11-13-91

SAMPLE NO.: NP5-4  
SAMPLE ELEV. (FT. NGVD): -5  
SAMPLE DEPTH (FT.): -4  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 237.76  
SAMPLE WEIGHT AFTER WASH (GRAMS): 232.60

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	.83	.35	99.65
7	-1.5	2.800	1.85	.78	99.22
10	-1.0	2.000	3.13	1.32	98.68
14	-0.5	1.400	4.29	1.80	98.20
18	0.0	1.000	5.66	2.38	97.62
25	0.5	.710	6.47	2.72	97.28
35	1.0	.500	7.64	3.21	96.79
45	1.5	.355	8.67	3.65	96.35
60	2.0	.250	11.21	4.71	95.29
80	2.5	.180	113.30	47.65	52.35
120	3.0	.125	212.04	89.18	10.82
170	3.5	.090	230.86	97.10	2.90
200	3.75	.075	232.36	97.73	2.27
230	4.0	.063	235.02	98.85	1.15
PAN			237.76	100.00	.00

SIEVE LOSS(g):	.00	MEAN (mm):	.166
MEDIAN (mm):	.173	SORTING:	.403
SILT/CLAY:	2.27%	KURTOSIS:	.943
SKEWNESS:	.314		

PHI(5):	2.00	PHI(16):	2.13	PHI(25):	2.24
PHI(50):	2.53	PHI(75):	2.83	PHI(84):	2.94
PHI(95):	3.37				
COEFFICIENT OF CURVATURE :	.949				
COEFFICIENT OF UNIFORMITY:	1.559				

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  
DATA FILE NAME: NP5-04.TAB



GRADATION ANALYSIS REPORT  
LIDO KEY SAND SAMPLES, OCT 23 1991

TESTED BY: ON: 11-13-91

SAMPLE NO.: NP5-8  
SAMPLE ELEV. (FT. NGVD): -5  
SAMPLE DEPTH (FT.): -8  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 269.53  
SAMPLE WEIGHT AFTER WASH (GRAMS): 261.13

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	1.77	.66	99.34
7	-1.5	2.800	1.96	.73	99.27
10	-1.0	2.000	2.16	.80	99.20
14	-0.5	1.400	2.33	.86	99.14
18	0.0	1.000	2.51	.93	99.07
25	0.5	.710	2.66	.99	99.01
35	1.0	.500	2.91	1.08	98.92
45	1.5	.355	3.22	1.19	98.81
60	2.0	.250	4.11	1.52	98.48
80	2.5	.180	243.39	90.30	9.70
120	3.0	.125	252.68	93.75	6.25
170	3.5	.090	259.92	96.43	3.57
200	3.75	.075	260.82	96.77	3.23
230	4.0	.063	265.11	98.36	1.64
PAN			269.53	100.00	.00

SIEVE LOSS(g):	.00		
MEDIAN (mm):	.207	MEAN (mm):	.188
SILT/CLAY:	3.23%	SORTING:	.191
SKEWNESS:	.707	KURTOSIS:	1.766

PHI(5):	2.02	PHI(16):	2.08	PHI(25):	2.13
PHI(50):	2.27	PHI(75):	2.41	PHI(84):	2.46
PHI(95):	3.23				
COEFFICIENT OF CURVATURE :	.962				
COEFFICIENT OF UNIFORMITY:	1.216				

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  
DATA FILE NAME: NP5-08.TAB

GRADATION ANALYSIS REPORT  
LIDO KEY SAND SAMPLES, OCT 23 1991

TESTED BY: ON: 11-13-91

SAMPLE NO.: NP5-10  
SAMPLE ELEV. (FT. NGVD): -5  
SAMPLE DEPTH (FT.): -10  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 213.34  
SAMPLE WEIGHT AFTER WASH (GRAMS): 207.73

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	.56	.26	99.74
7	-1.5	2.800	1.09	.51	99.49
10	-1.0	2.000	1.48	.69	99.31
14	-0.5	1.400	2.00	.94	99.06
18	0.0	1.000	2.53	1.19	98.81
25	0.5	.710	2.86	1.34	98.66
35	1.0	.500	3.66	1.72	98.28
45	1.5	.355	4.51	2.11	97.89
60	2.0	.250	5.90	2.77	97.23
80	2.5	.180	188.06	88.15	11.85
120	3.0	.125	197.03	92.35	7.65
170	3.5	.090	206.09	96.60	3.40
200	3.75	.075	207.39	97.21	2.79
230	4.0	.063	210.27	98.56	1.44
PAN			213.35	100.00	.00

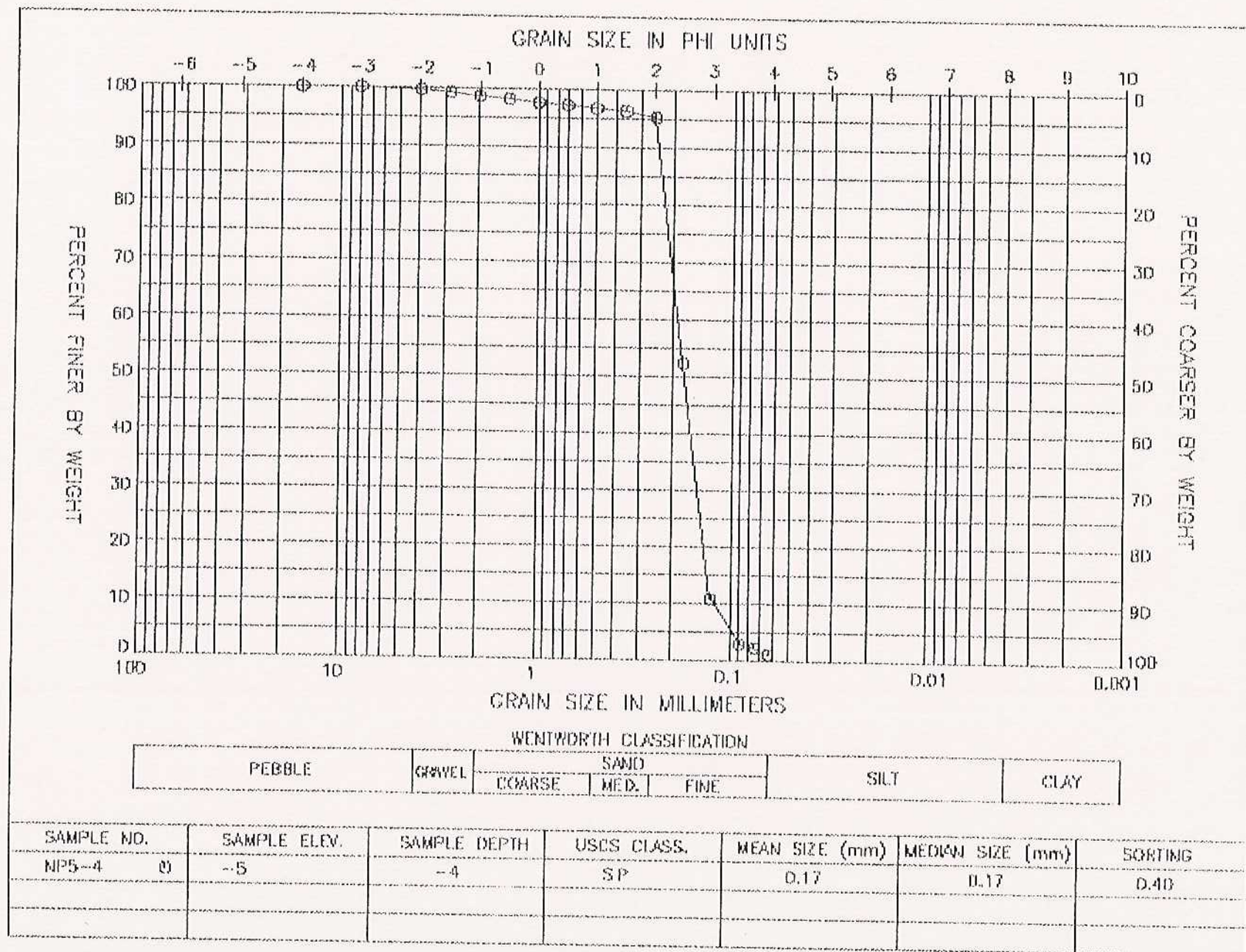
SIEVE LOSS(g):	-.01		
MEDIAN (mm):	.206	MEAN (mm):	.185
SILT/CLAY:	2.79%	SORTING:	.199
SKEWNESS:	.771	KURTOSIS:	1.817

PHI(5):	2.01	PHI(16):	2.08	PHI(25):	2.13
PHI(50):	2.28	PHI(75):	2.42	PHI(84):	2.48
PHI(95):	3.31				
COEFFICIENT OF CURVATURE :	1.110				
COEFFICIENT OF UNIFORMITY:	1.416				

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  
DATA FILE NAME: NP5-10.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			
NP5-8	0	-5			SP	0.19	0.21	0.19

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
NP5-8 ①	-5	-8	SP	0.19	0.21	0.19



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

