

VIBRACORE LOG

Project: NEW PASS EBB SHOALCore No: NP - 7

Coordinates:

N = 1,085.798E = 306,669Date: 10/23/91Start Time 1108End Time 1120Water Depth 8.1 NGVDDriller MIKE CLARKE - EXMARClient Rep. JEFF ANDREWS - CPECore Diam. 3"Length of Barrel 20'

Penetration Depth

Length Recovered 13.3Length Retained 13.3

Remarks:

Support Vessel MARINER MARINE

Positioning

System

TRISPOUNDERPositioning Remarks: HYPACTWeather CLEAR

Wind

Dir: SEEst. Speed 5-10 KNTS.

Waves

Dir: _____

Height CALM

Current

Dir: NA

Est. Speed: _____

Analysis By: FK

Date: _____

Analysis Method: SIEVECore Logged By: PH

Elev.	Depth	Legend	Description	Samp. No.	Remarks
-8.1	0				
-8.9	0.8'		FINE WHITE QUARTZ SAND W/SHELL HASH L.O. 25"		
	5		FINE WHITE QUARTZ SAND	-4'	MEAN 0.14mm SILT 8.3%
-15.6	7.5'				
-16.6	7.9		SHELL HASH		
	10		FINE WHITE QUARTZ SAND	-8.5	MEAN 0.16mm SILT 5.1%
-20.7	12.6				
-21.4	13.3		FINE GRAY QUARTZ SAND W/SHELL HASH L.O. 25"	-13'	MEAN 0.17mm SILT 4.7%
	15				
	20				

GRADATION ANALYSIS REPORT
LIDO KEY SAND SAMPLES, OCT 23 1991

TESTED BY: ON: 11-13-91

SAMPLE NO.: NP7-4
SAMPLE ELEV. (FT. NGVD): -5
SAMPLE DEPTH (FT.): -4
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 189.62
SAMPLE WEIGHT AFTER WASH (GRAMS): 173.98

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	.13	.07	99.93
7	-1.5	2.800	.13	.07	99.93
10	-1.0	2.000	.34	.18	99.82
14	-0.5	1.400	.53	.28	99.72
18	0.0	1.000	.80	.42	99.58
25	0.5	.710	1.13	.60	99.40
35	1.0	.500	1.74	.92	99.08
45	1.5	.355	2.49	1.31	98.69
60	2.0	.250	4.40	2.32	97.68
80	2.5	.180	49.37	26.04	73.96
120	3.0	.125	154.48	81.47	18.53
170	3.5	.090	172.75	91.10	8.90
200	3.75	.075	173.88	91.70	8.30
230	4.0	.063	181.75	95.85	4.15
PAN			189.60	99.99	.01

SIEVE LOSS(g):	.02		
MEDIAN (mm):	.152	MEAN (mm):	.141
SILT/CLAY:	8.30%	SORTING:	.421
SKEWNESS:	.573	KURTOSIS:	1.673

PHI(5):	2.06	PHI(16):	2.29	PHI(25):	2.48
PHI(50):	2.72	PHI(75):	2.94	PHI(84):	3.13
PHI(95):	3.95				
COEFFICIENT OF CURVATURE : 1.210					
COEFFICIENT OF UNIFORMITY: 1.761					

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: NP7-04.TAB

GRADATION ANALYSIS REPORT
LIDO KEY SAND SAMPLES, OCT 23 1991

TESTED BY: ON: 11-13-91

SAMPLE NO.: NP7-8
SAMPLE ELEV. (FT. NGVD): -5
SAMPLE DEPTH (FT.): -8.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 233.32
SAMPLE WEIGHT AFTER WASH (GRAMS): 223.07

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	.31	.13	99.87
7	-1.5	2.800	.59	.25	99.75
10	-1.0	2.000	1.33	.57	99.43
14	-0.5	1.400	2.19	.94	99.06
18	0.0	1.000	3.66	1.57	98.43
25	0.5	.710	5.50	2.36	97.64
35	1.0	.500	9.06	3.88	96.12
45	1.5	.355	12.75	5.46	94.54
60	2.0	.250	18.87	8.09	91.91
80	2.5	.180	71.19	30.51	69.49
120	3.0	.125	186.69	80.01	19.99
170	3.5	.090	217.97	93.42	6.58
200	3.75	.075	221.35	94.87	5.13
230	4.0	.063	226.90	97.25	2.75
PAN			233.28	99.98	.02

SIEVE LOSS(g):	.04		
MEDIAN (mm):	.154	MEAN (mm):	.162
SILT/CLAY:	5.13%	SORTING:	.486
SKEWNESS:	-.277	KURTOSIS:	1.726

PHI(5):	1.35	PHI(16):	2.18	PHI(25):	2.38
PHI(50):	2.70	PHI(75):	2.95	PHI(84):	3.15
PHI(95):	3.76				
COEFFICIENT OF CURVATURE :	1.125				
COEFFICIENT OF UNIFORMITY:	1.713				

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: NP7-08.TAB

GRADATION ANALYSIS REPORT
LIDO KEY SAND SAMPLES, OCT 23 1991

TESTED BY: ON: 11-13-91

SAMPLE NO.: NP7-13
SAMPLE ELEV. (FT. NGVD): -5
SAMPLE DEPTH (FT.): -13
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 201.02
SAMPLE WEIGHT AFTER WASH (GRAMS): 192.06

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	.94	.47	99.53
7	-1.5	2.800	2.63	1.31	98.69
10	-1.0	2.000	5.19	2.58	97.42
14	-0.5	1.400	7.44	3.70	96.30
18	0.0	1.000	9.87	4.91	95.09
25	0.5	.710	11.56	5.75	94.25
35	1.0	.500	13.52	6.73	93.27
45	1.5	.355	15.01	7.47	92.53
60	2.0	.250	16.84	8.38	91.62
80	2.5	.180	22.40	11.14	88.86
120	3.0	.125	106.70	53.08	46.92
170	3.5	.090	182.50	90.79	9.21
200	3.75	.075	191.64	95.33	4.67
230	4.0	.063	196.31	97.66	2.34
PAN			200.99	99.99	.01

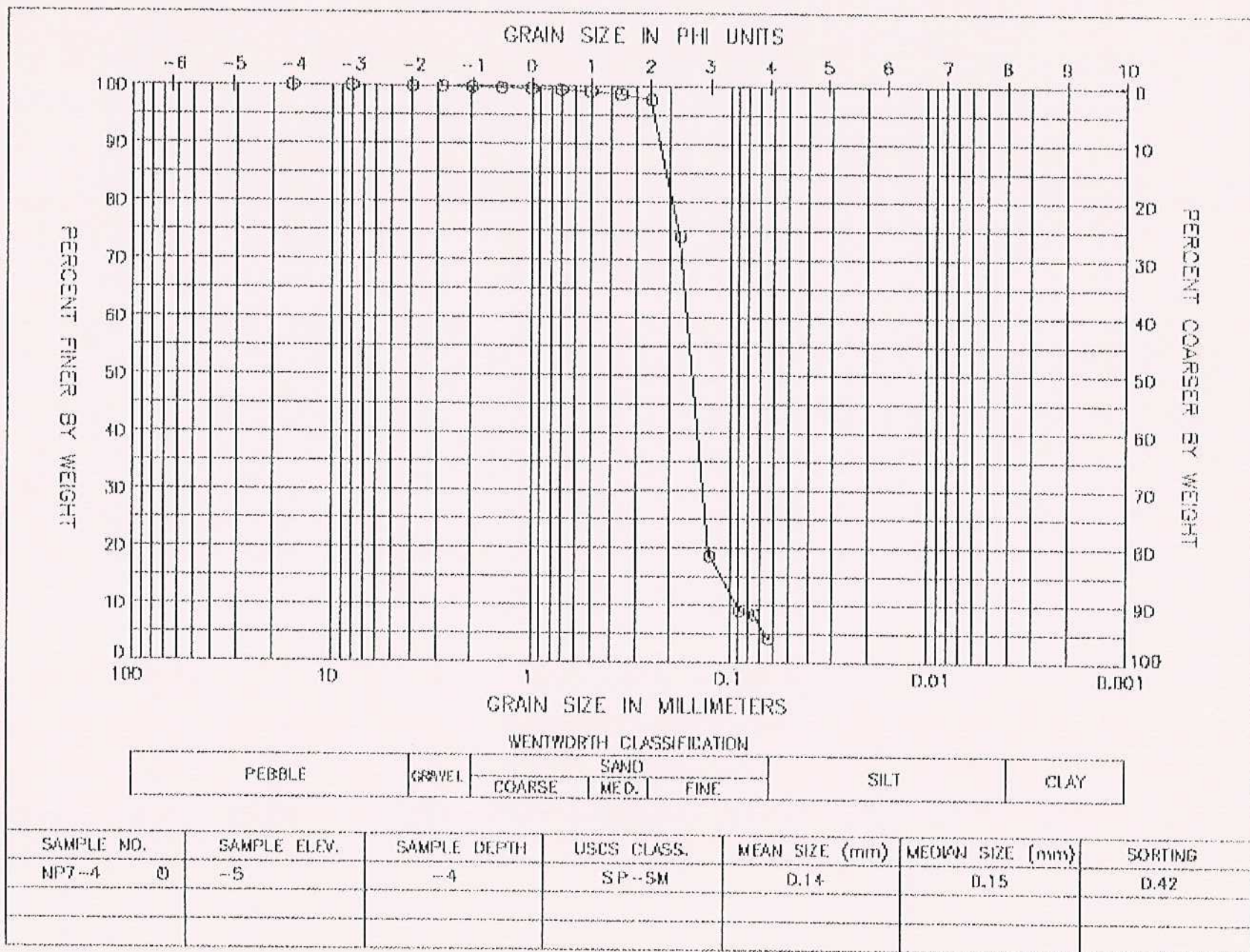
SIEVE LOSS(g): .03
MEDIAN (mm): .128
SILT/CLAY: 4.67%
SKEWNESS: -2.141

MEAN (mm): .172
SORTING: .426
KURTOSIS: 2.410

PHI(5): .05 PHI(16): 2.56 PHI(25): 2.67
PHI(50): 2.96 PHI(75): 3.29 PHI(84): 3.41
PHI(95): 3.73
COEFFICIENT OF CURVATURE : .923
COEFFICIENT OF UNIFORMITY: 1.564

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: NP7-13.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
			COARSE	MED.	FINE			
NP7-8	0	-8.5	SP	SM		0.16	0.15	0.49

UNIFORMITY CLASSIFICATION						
PEBBLE	GRAVEL	SAND			SILT	CLAY
		COARSE	MED.	FINE		

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
MP7-8	0	-8.5	SP-SM	0.16	0.15	0.49

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

