

DRILLING LOG		HUMISTON & MOORE ENGINEERS		INSTALLATION		SHEET 9 OF 12 SHEETS	
1. PROJECT KNIGHT ISLAND BEACH NOURISHMENT				10. SIZE AND TYPE OF BIT 2.5 INCHES			
2. LOCATION CHARLOTTE COUNTY, FLORIDA				11. DATUM FOR ELEVATION SHOWN NGVD			
3. DRILLING AGENCY EXMAR				12. MANUFACTURERS DESIGNATION OF DRILL VIBRACORE			
4. HOLE NO. 7				13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		DISTURBED NA	UNDISTURBED NA
5. NAME OF DRILLER MIKE CLARK				14. TOTAL NUMBER OF CORE BOXES (SECTIONS) 2			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION OF GROUND WATER TIDAL			
7. THICKNESS OF OVERBURDEN NA				16. DATE HOLE		STARTED 9/19/93	FINISHED
8. DEPTH DRILLED INTO ROCK NONE				17. ELEVATION TOP OF HOLE -15.1 FEET NGVD			
9. TOTAL DEPTH OF HOLE 11				18. TOTAL CORE RECOVERY FOR BORING 7			
				19. SIGNATURE OF INSPECTOR			

ELEVATION (Feet) a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY e	BOX OR SAMPLE NO. f	REMARKS g
-16.4	1	(S)	SHELLY SILTY SAND, (SM)		7-1	EL. = -16.1
-17.4	2	(S)	FINE QUARTZ SAND, (SP), SOME SHELL AND SILT		7-2	EL. = -17.1
-20.2	3 4 5	(S)	FINE QUARTZ SAND, (SP), TRACE SHELL, TRACE SILT		7-3	EL. = -19.1
-22.4	6 7	(S)	FINE QUARTZ SAND, (SP), SOME SHELL AND SILT		7-4	EL. = -22.1
	8 9 10 11 12 13 14 15 16 17 18 19					

LAW ENGINEERING
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REPORT OF GRAINSIZE ANALYSIS WITH WASH 200 AND WATER CONTENT

CLIENT: Humiston, Moore Engineers

DATE: October 22, 1993

PROJECT: Knight Island Beach Restoration Project

TECHNICIAN: SC

JOB NUMBER: 76-611005-01

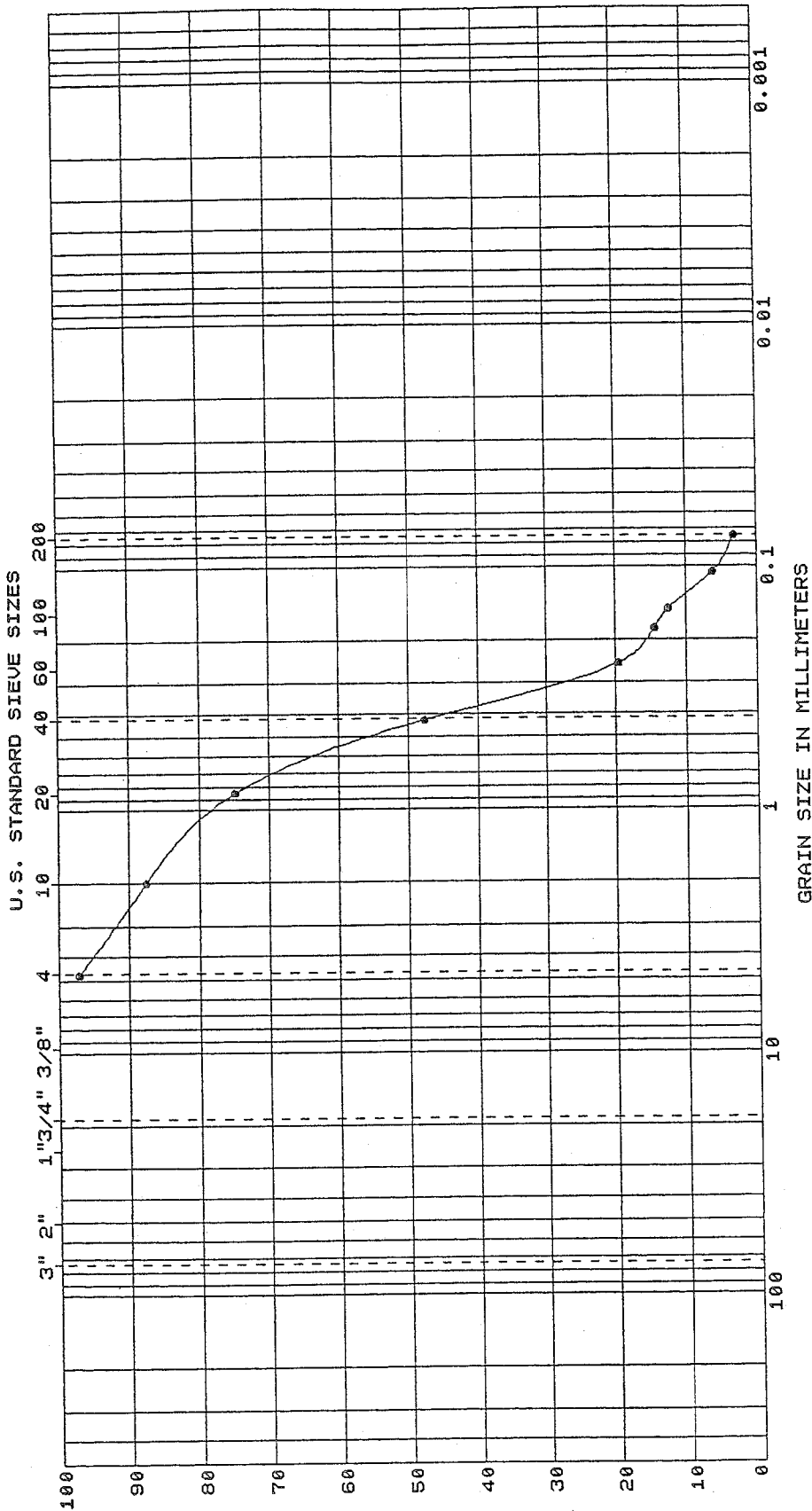
BORING NUMBER: 7

SAMPLE NUMBER: 1

Sample Description: Dary gray with shell fragments

SIEVE NO.	WEIGHT RETAINED	% RETAINED	% PASSING
1 in.	0.0	0.0	100.0
3/4 in.	0.0	0.0	100.0
1/2 in.	0.0	0.0	100.0
3/8 in.	0.0	0.0	100.0
4	8.5	2.9	97.1
10	36.8	12.5	87.5
20	74.3	25.2	74.8
40	154.2	52.4	47.6
60	236.6	80.4	19.6
80	251.5	85.5	14.5
100	257.4	87.5	12.5
140	276.2	93.8	62.2
200	284.8	96.8	3.2

Boulders	GRAVEL		SAND			FINES	
	Coarse	Fine	Coarse	Medium	Fine	Silt Sizes	Clay Sizes



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REPORT OF GRAINSIZE ANALYSIS WITH WASH 200 AND WATER CONTENT

CLIENT: Humiston, Moore Engineers

DATE: October 20, 1993

PROJECT: Knight Island Beach Restoration Project

TECHNICIAN: SC

DB NUMBER: 76-611005-01

BORING NUMBER: 7

SAMPLE NUMBER: 2

Sample Description: Gray slightly silty fine SAND

SIEVE NO.	WEIGHT RETAINED	% RETAINED	% PASSING
1 in.	0.0	0.0	100.0
3/4 in.	0.0	0.0	100.0
1/2 in.	0.0	0.0	100.0
3/8 in.	0.0	0.0	100.0
4	11.6	4.0	96.0
10	32.1	11.2	88.8
20	49.1	17.1	82.9
40	60.9	21.2	78.8
60	76.4	26.6	73.4
80	86.6	30.2	69.8
100	99.1	34.5	65.5
140	213.9	74.5	25.5
200	267.0	93.0	7.0

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REPORT OF GRAINSIZE ANALYSIS WITH WASH 200 AND WATER CONTENT

CLIENT: Humiston, Moore Engineers DATE: October 22, 1993
PROJECT: Knight Island Beach Restoration Project TECHNICIAN: SC
OB NUMBER: 76-611005-01 BORING NUMBER: 7 SAMPLE NUMBER: 3

Sample Description: Gray fine SAND

SIEVE NO.	WEIGHT RETAINED	% RETAINED	% PASSING
1 in.	0.0	0.0	100.0
3/4 in.	0.0	0.0	100.0
1/2 in.	0.0	0.0	100.0
3/8 in.	0.0	0.0	100.0
4	0.0	0.0	100.0
10	0.0	0.0	100.0
20	1.1	0.4	99.6
40	2.0	0.7	99.3
60	5.7	2.0	98.0
80	26.7	9.5	90.5
100	119.4	42.7	57.3
140	255.9	91.5	8.5
200	274.7	98.2	1.8

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REPORT OF GRAINSIZE ANALYSIS WITH WASH 200 AND WATER CONTENT

CLIENT: Humiston, Moore Engineers **DATE:** October 22, 1993
PROJECT: Knight Island Beach Restoration Project **TECHNICIAN:** SC
JOB NUMBER: 76-611005-01 **BORING NUMBER:** 7 **SAMPLE NUMBER:** 4

Sample Description: Gray fine SAND

<i>SIEVE NO.</i>	<i>WEIGHT RETAINED</i>	<i>% RETAINED</i>	<i>% PASSING</i>
<i>1 in.</i>	<i>0.0</i>	<i>0.0</i>	<i>100.0</i>
<i>3/4 in.</i>	<i>0.0</i>	<i>0.0</i>	<i>100.0</i>
<i>1/2 in.</i>	<i>0.0</i>	<i>0.0</i>	<i>100.0</i>
<i>3/8 in.</i>	<i>0.0</i>	<i>0.0</i>	<i>100.0</i>
<i>4</i>	<i>0.0</i>	<i>0.0</i>	<i>100.0</i>
<i>10</i>	<i>0.7</i>	<i>0.2</i>	<i>99.8</i>
<i>20</i>	<i>0.7</i>	<i>0.2</i>	<i>99.8</i>
<i>40</i>	<i>0.8</i>	<i>0.3</i>	<i>99.7</i>
<i>60</i>	<i>1.6</i>	<i>0.6</i>	<i>99.4</i>
<i>80</i>	<i>4.1</i>	<i>1.4</i>	<i>98.6</i>
<i>100</i>	<i>35.9</i>	<i>12.7</i>	<i>87.3</i>
<i>140</i>	<i>250.1</i>	<i>88.2</i>	<i>11.8</i>
<i>200</i>	<i>277.6</i>	<i>98.0</i>	<i>2.0</i>

