

DRILLING LOG				HUMISTON & MOORE ENGINEERS		INSTALLATION		SHEET 10 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. 8				13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		DISTURBED NA		UNDISTURBED NA	
5. NAME OF DRILLER MIKE CLARK				14. TOTAL NUMBER OF CORE BOXES (SECTIONS) 3					
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 9/19/93	
8. DEPTH DRILLED INTO ROCK NONE				17. ELEVATION TOP OF HOLE -5.7 FEET NGVD					
9. TOTAL DEPTH OF HOLE 10				18. TOTAL CORE RECOVERY FOR BORING 10 FEET					
				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
	1		FINE QUARTZ SAND, (SP), LT. GRAY, TRACE SHELL, TRACE SILT		8-1	EL. = -7.5
	2					
	3					
	4					
	5					
	6					
	7					
-13.7	8					
	9		FINE QUARTZ SAND, (SP), DK. GRAY, TRACE SHELL, TRACE SILT		8-3	EL. = -14.7
-15.9	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 28, 1993

PROJECT: Knight Island Beach Restoration Project **TECHNICIAN:** SC

JOB NUMBER: 76-611005-01 **BORING NUMBER:** 8 **SAMPLE NUMBER:** 1

Sample Description: Gray fine SAND

<i>SIEVE NO.</i>	<i>WEIGHT RETAINED</i>	<i>% RETAINED</i>	<i>% PASSING</i>
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	6.2	2.1	97.9
10	19.5	6.7	93.3
20	49.3	16.9	83.1
40	81.9	28.0	72.0
60	132.9	45.5	54.5
80	177.2	60.6	39.4
100	223.9	76.6	23.4
140	283.6	97.0	3.0
200	289.9	99.1	0.9

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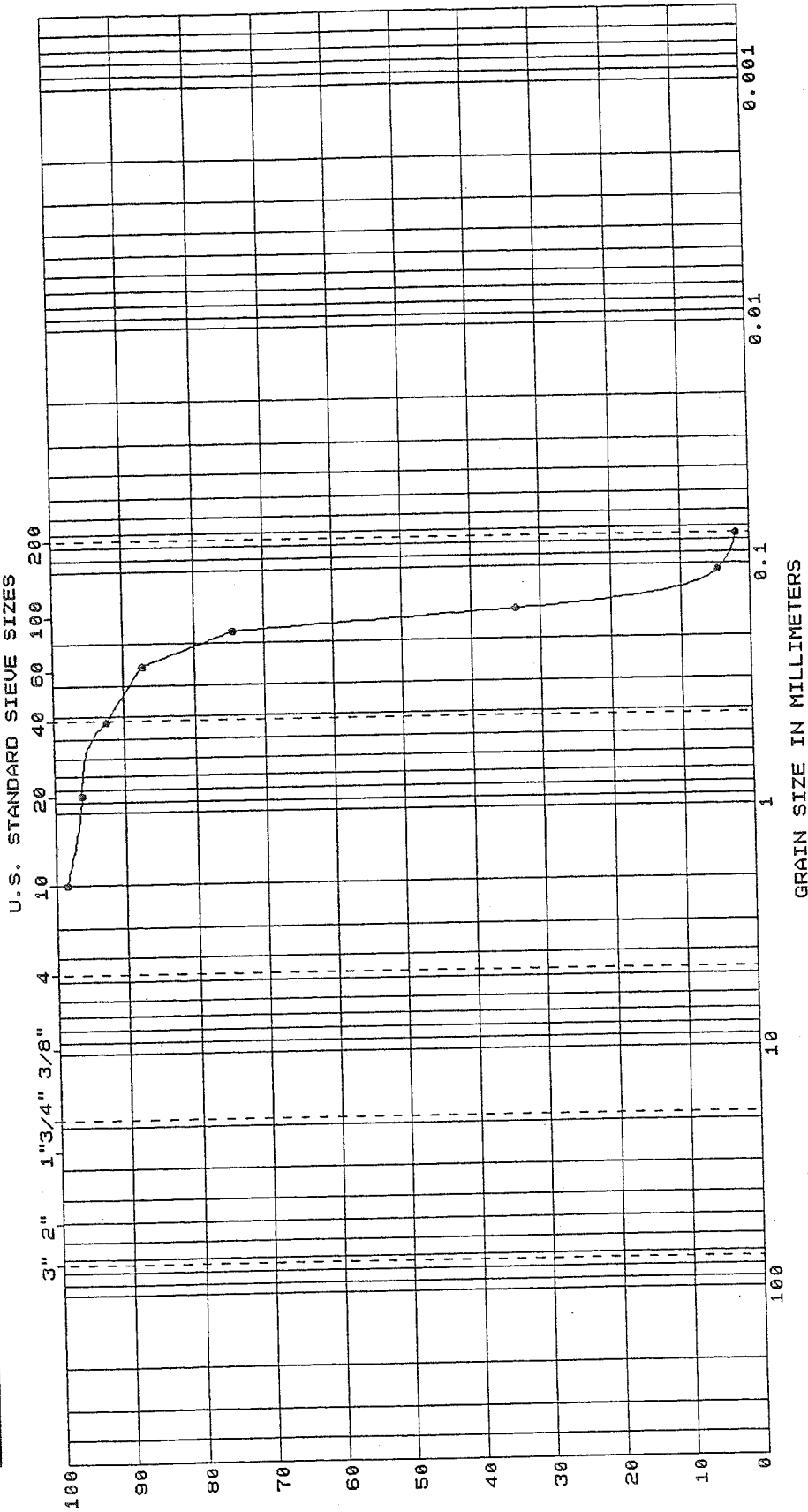
REPORT OF GRAINSIZE ANALYSIS WITH WASH 200 AND WATER CONTENT

CLIENT: Humiston, Moore Engineers **DATE:** October 28, 1993
PROJECT: Knight Island Beach Restoration Project **TECHNICIAN:** SC
JOB NUMBER: 76-611005-01 **BORING NUMBER:** 8 **SAMPLE NUMBER:** 2

Sample Description: Gray fine SAND

<i>SIEVE NO.</i>	<i>WEIGHT RETAINED</i>	<i>% RETAINED</i>	<i>% PASSING</i>
<i>1 in.</i>	0.0	0.0	100.0
<i>3/4 in.</i>	0.0	0.0	100.0
<i>1/2 in.</i>	0.0	0.0	100.0
<i>3/8 in.</i>	0.0	0.0	100.0
<i>4</i>	0.0	0.0	100.0
<i>10</i>	4.2	1.6	98.4
<i>20</i>	10.5	3.9	96.1
<i>40</i>	20.0	7.5	92.5
<i>60</i>	34.2	12.8	87.2
<i>80</i>	68.3	25.6	74.4
<i>100</i>	177.4	66.5	33.5
<i>140</i>	254.1	95.3	4.7
<i>200</i>	261.4	98.0	2.0

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



PERCENT FINER BY WEIGHT

DESCRIPTION					
DEPTH	NAT WC	LL	PL	PI	
0.0					Gray fine sand

GRAIN SIZE DISTRIBUTION	
BORING NUMBER	SAMPLE 2
PROJECT NUMBER	8
PROJECT	76-611005-01
	KNIGHT ISLAND BEACH RESTORATION
LAW ENGINEERING	

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REPORT OF GRAINSIZE ANALYSIS WITH WASH 200 AND WATER CONTENT

CLIENT: Humiston, Moore Engineers

DATE: October 28, 1993

PROJECT: Knight Island Beach Restoration Project

TECHNICIAN: SC

LAB NUMBER: 76-611005-01

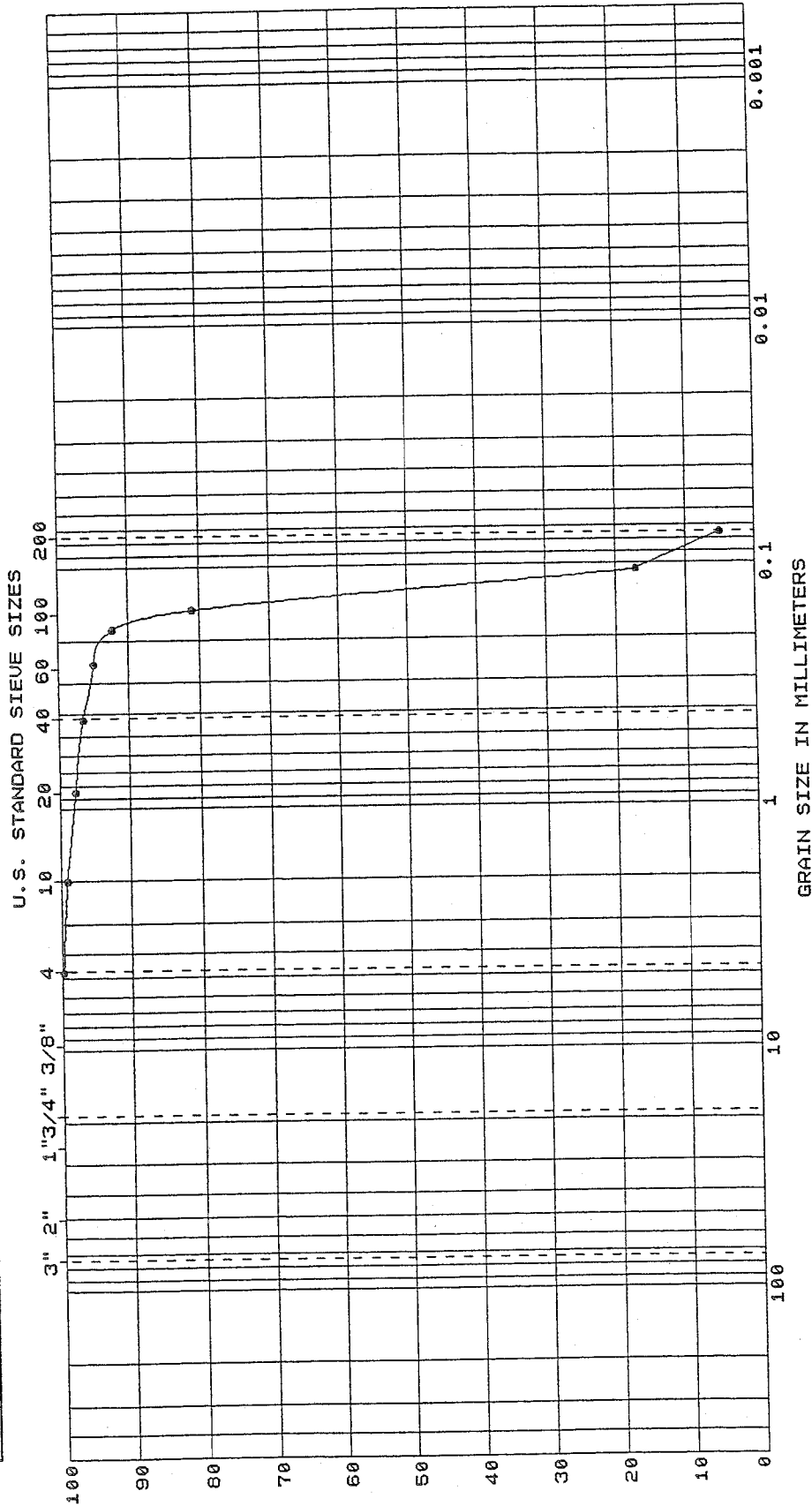
BORING NUMBER: 8

SAMPLE NUMBER: 3

Sample Description: Gray slightly silty fine SAND

<i>SIEVE NO.</i>	<i>WEIGHT RETAINED</i>	<i>% RETAINED</i>	<i>% PASSING</i>
<i>1 in.</i>	0.0	0.0	100.0
<i>3/4 in.</i>	0.0	0.0	100.0
<i>1/2 in.</i>	0.0	0.0	100.0
<i>3/8 in.</i>	0.0	0.0	100.0
<i>4</i>	0.8	0.3	99.7
<i>10</i>	2.8	1.0	99.0
<i>20</i>	6.4	2.3	97.7
<i>40</i>	9.7	3.5	96.5
<i>60</i>	14.1	5.1	94.9
<i>80</i>	21.3	7.8	92.2
<i>100</i>	52.0	19.0	81.0
<i>140</i>	226.9	82.9	17.1
<i>200</i>	260.0	95.0	5.0

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



PERCENT FINER BY WEIGHT

DESCRIPTION				
DEPTH	NAT WC	LL	PL	PI
0.0				
Gray slightly silty fine sand				

GRAIN SIZE DISTRIBUTION				
BORING NUMBER		SAMPLE 3		
PROJECT NUMBER		8		
PROJECT		76-611005-01		
		KNIGHT ISLAND BEACH RESTORATION		
		LAW ENGINEERING		