

April 26, 2011

Gahagan & Bryant Associates, Inc 3802 West Bay to Bay Boulevard Suite B-22 Tampa, FL 33629-6826

Re: Jupiter Island '10 Sand Search

**Beach Samples** 

American Vibracore Services, Inc. is pleased to submit this report regarding the completion of native beach sample analysis phase of this project.

Overview

American Vibracore Services, Inc. (AVS) under contract from Gahagan & Bryant Associates, Inc. (GBA), conducted testing on Native Beach Samples from Jupiter Island, Florida.

Sample Processing and Laboratory Testing

All samples were collected by Gahagan & Bryant Associates and delivered to AVS's lab in Delray Beach, Florida for analysis. Laboratory testing was conducted in the form of grain size analyses, calcium carbonate content, Munsell color designation, and visual shell content.

Reporting

Results were input into gINT format and hard copies and electronic copies were submitted as part of the final report.

Closing

We appreciate the opportunity to be of service to GBA on this project and look forward to a continued relationship.

Respectfully Submitted,

Frederick G Kaub P.G

Registered Geologist # 1344

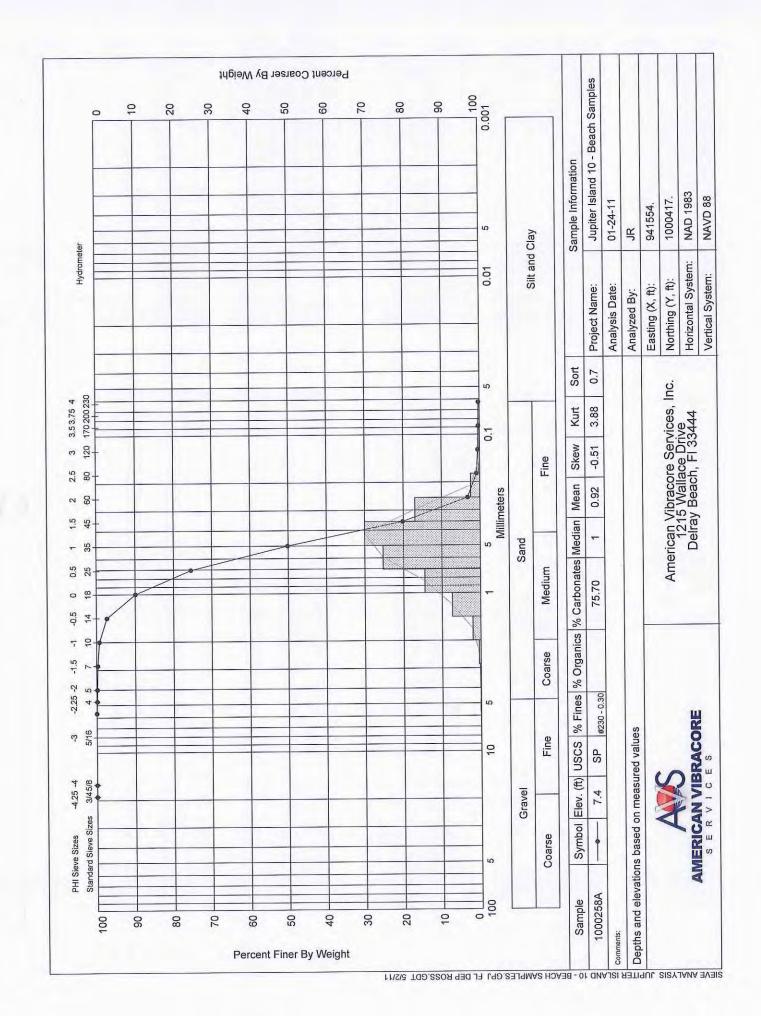
State of Florida

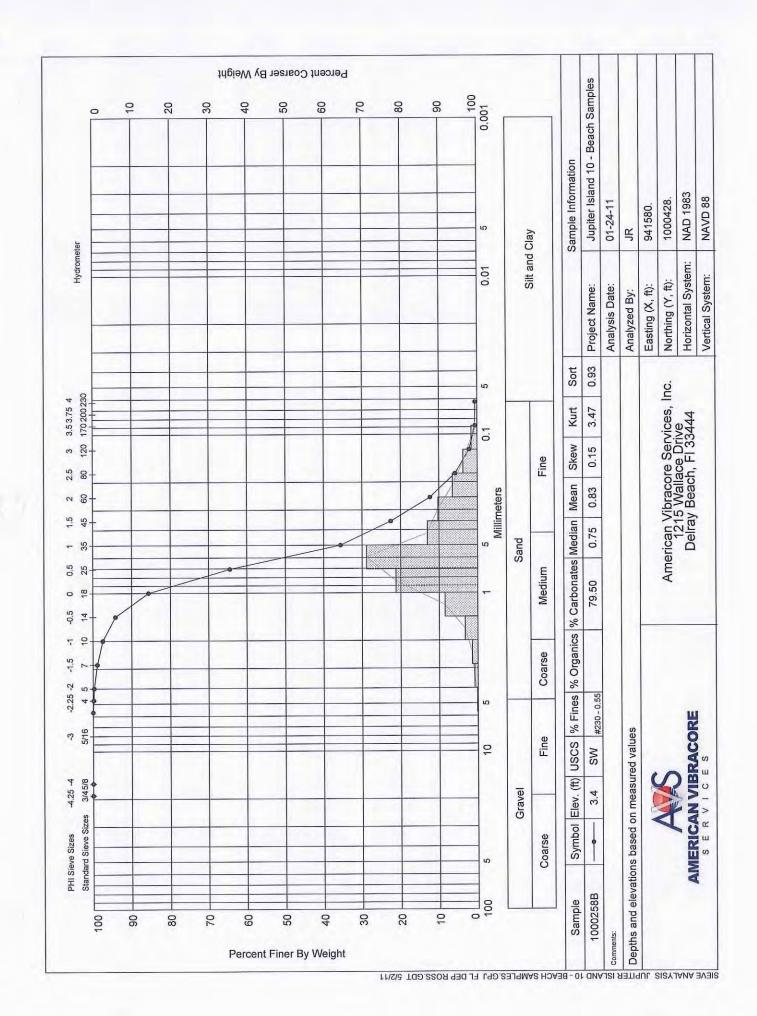
1215 Wallace Drive, Delray Beach, Fl 33444 Ph 561-372-0500 Fax 561-372-0501

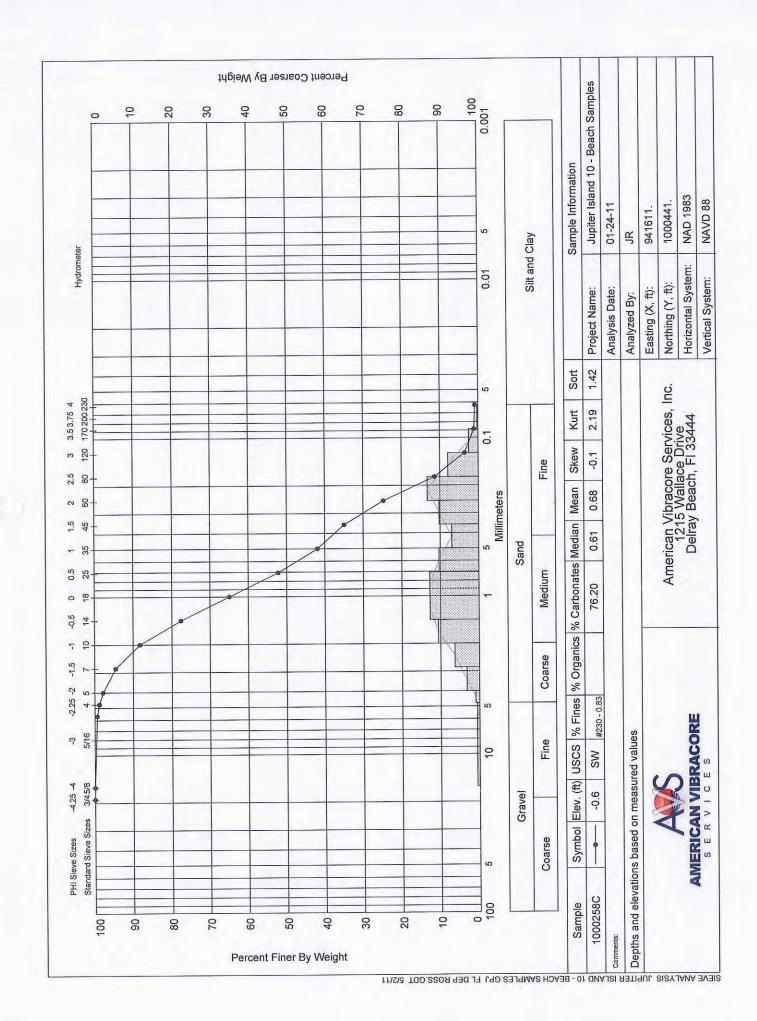
49181 Hwy 51 N, Tickfaw, La. 70466 Ph 985-981-3980 Fax 985-902-8609

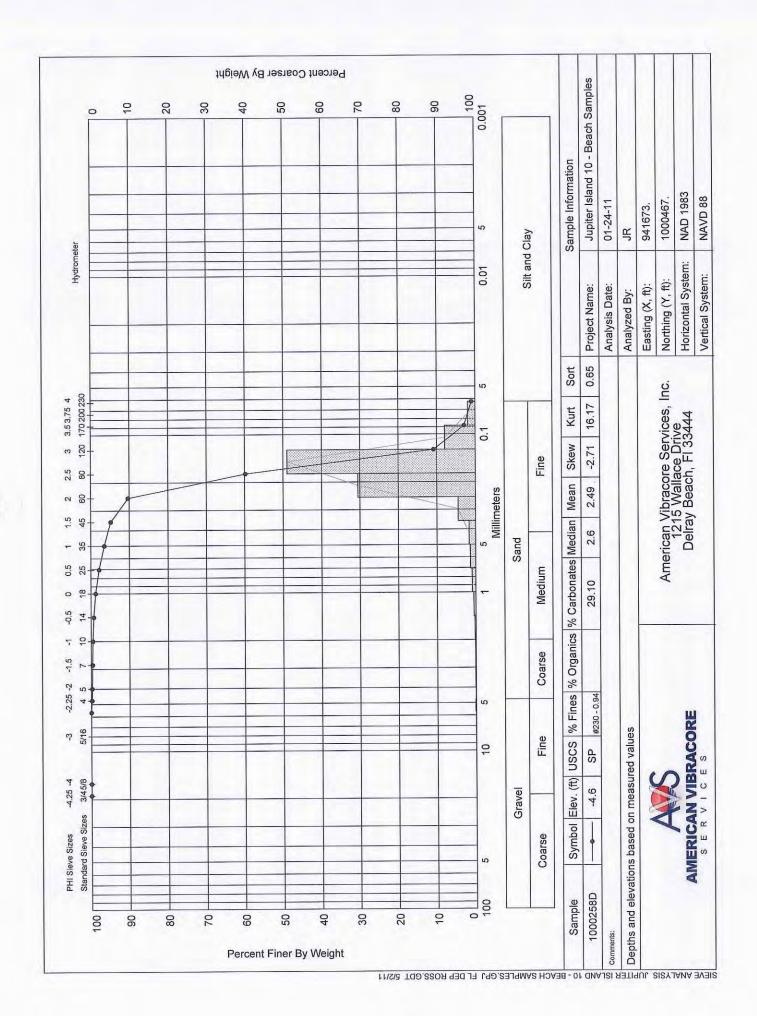
## Sieve Graph

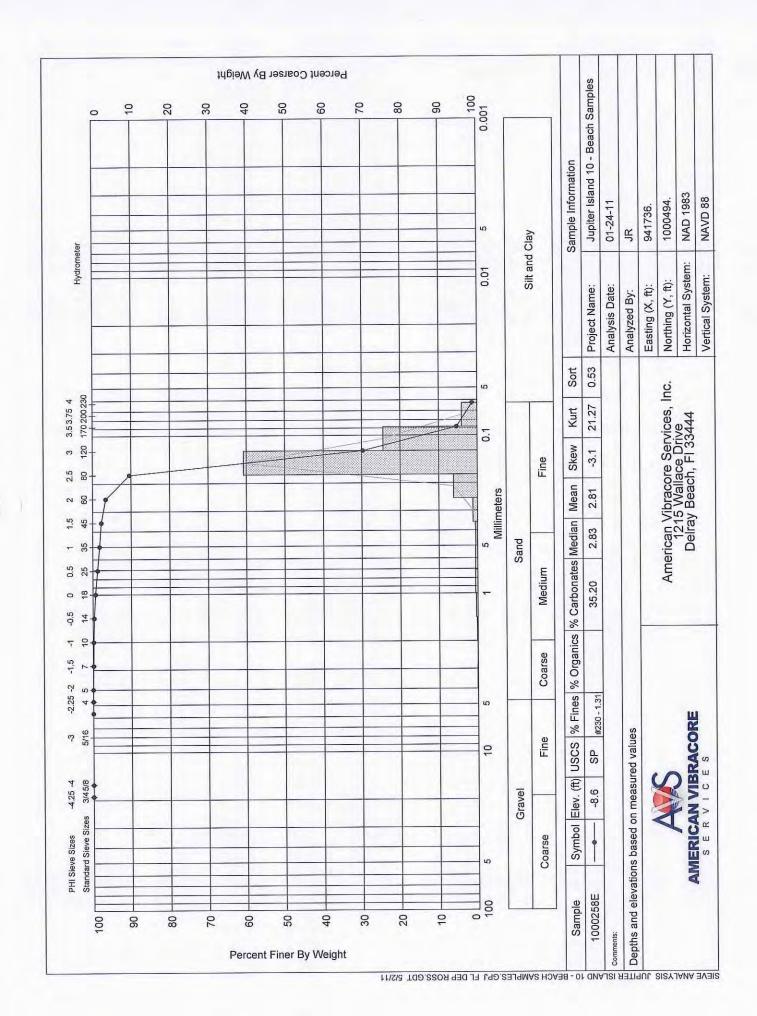


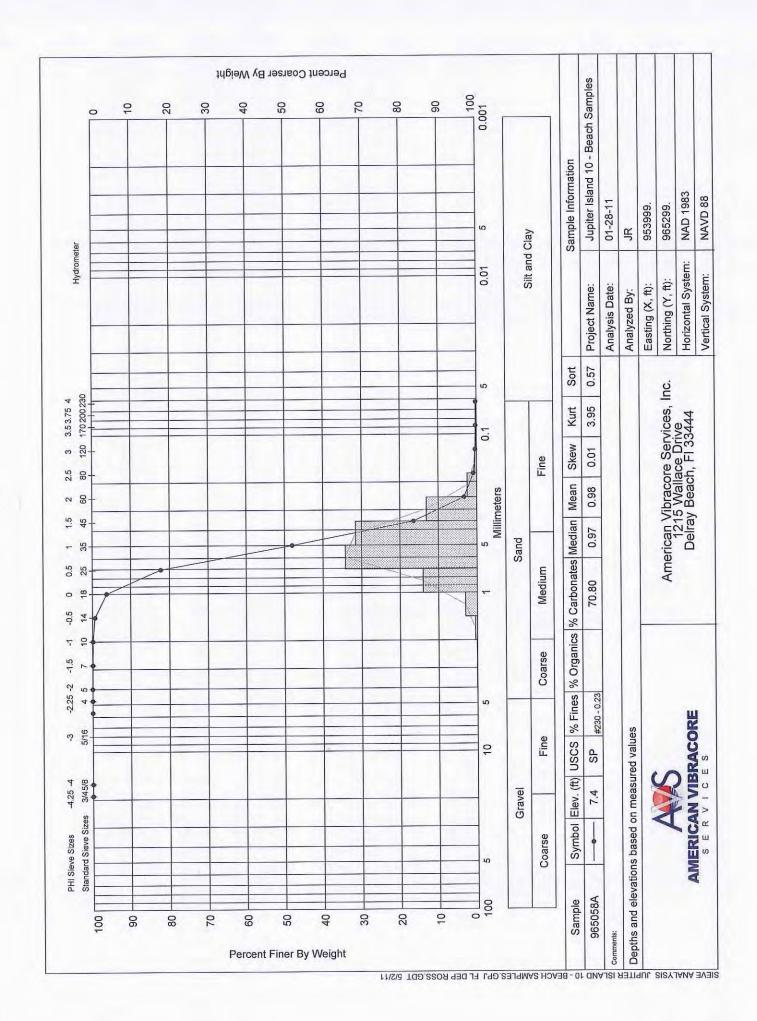


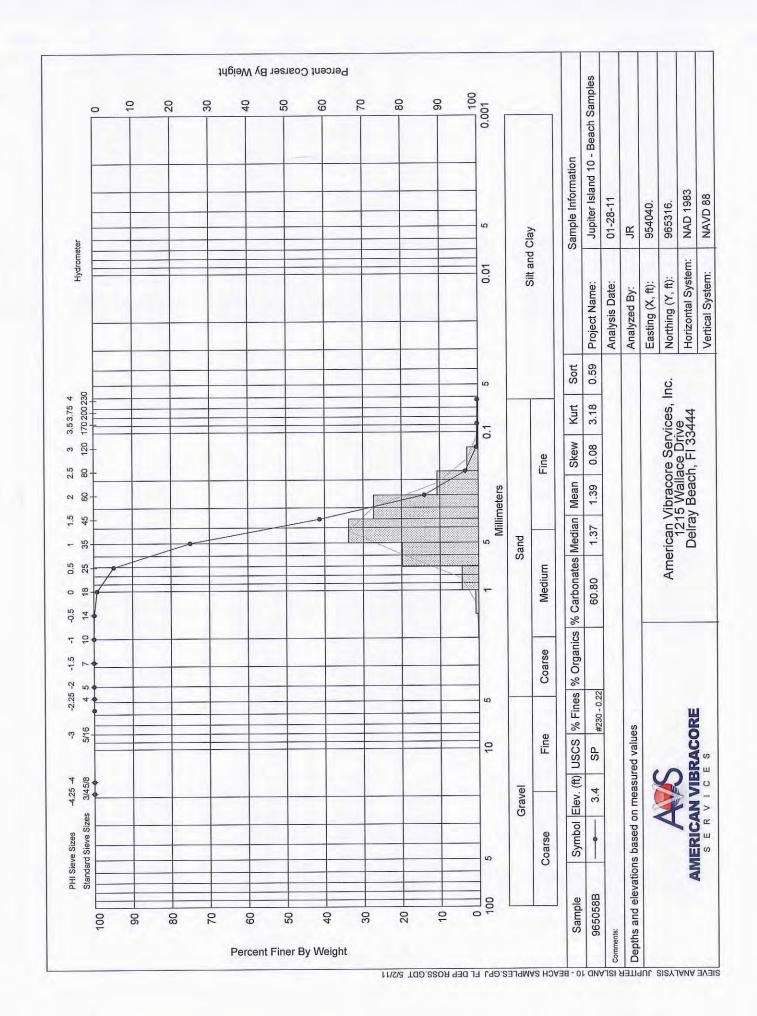


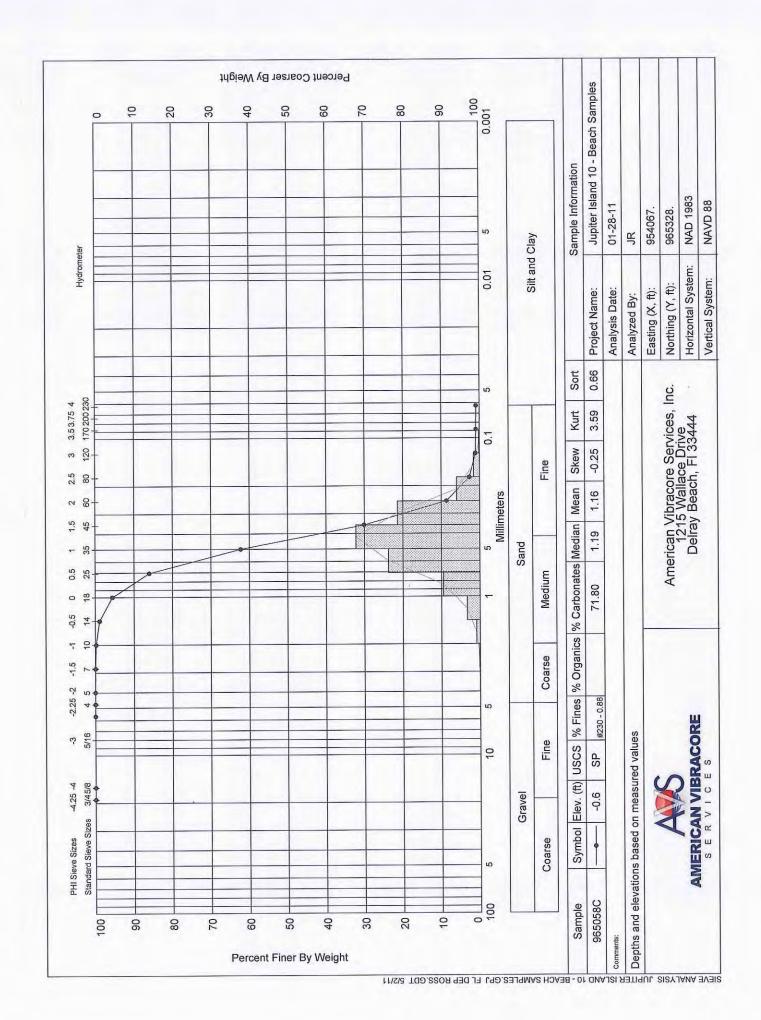


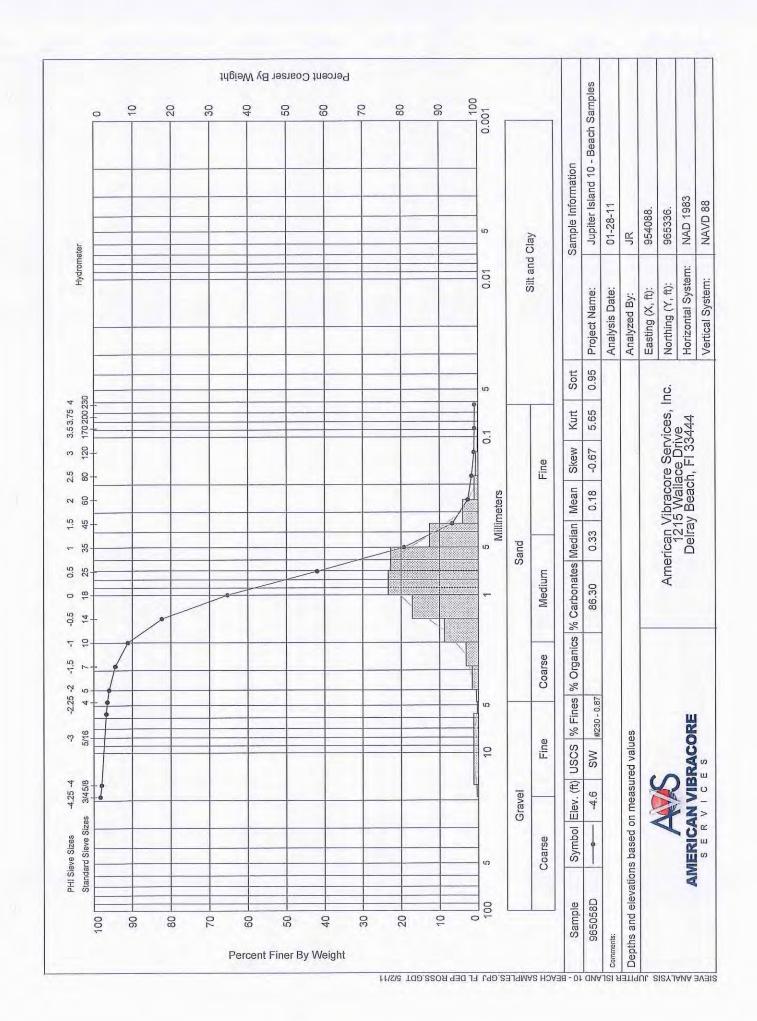


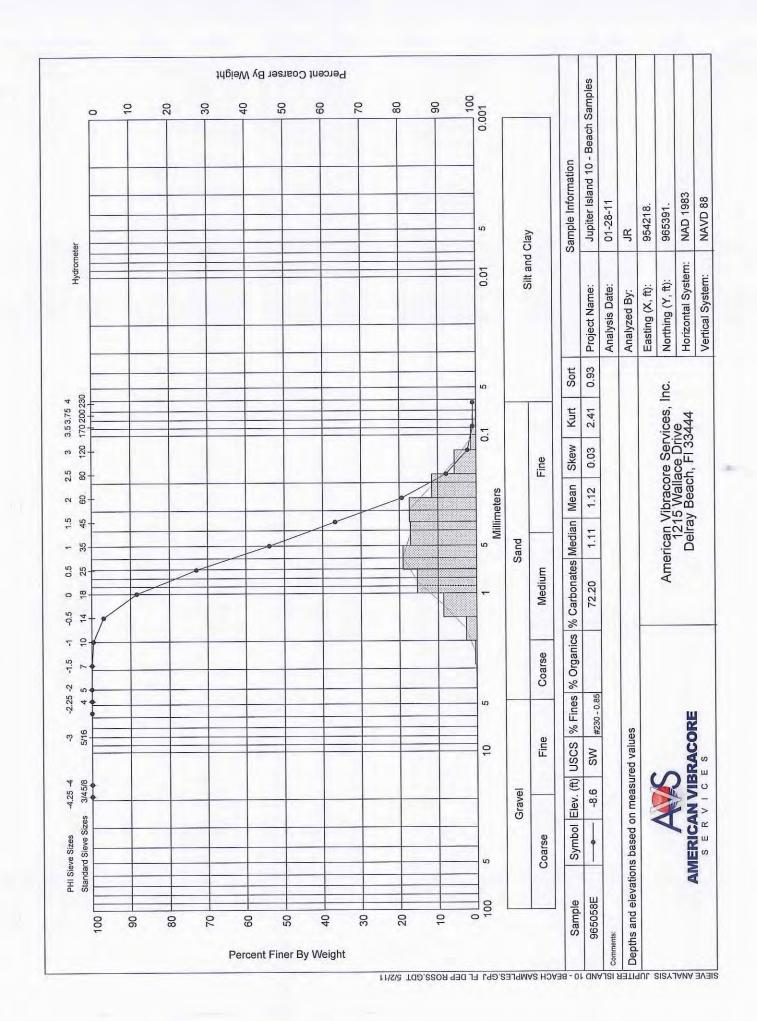


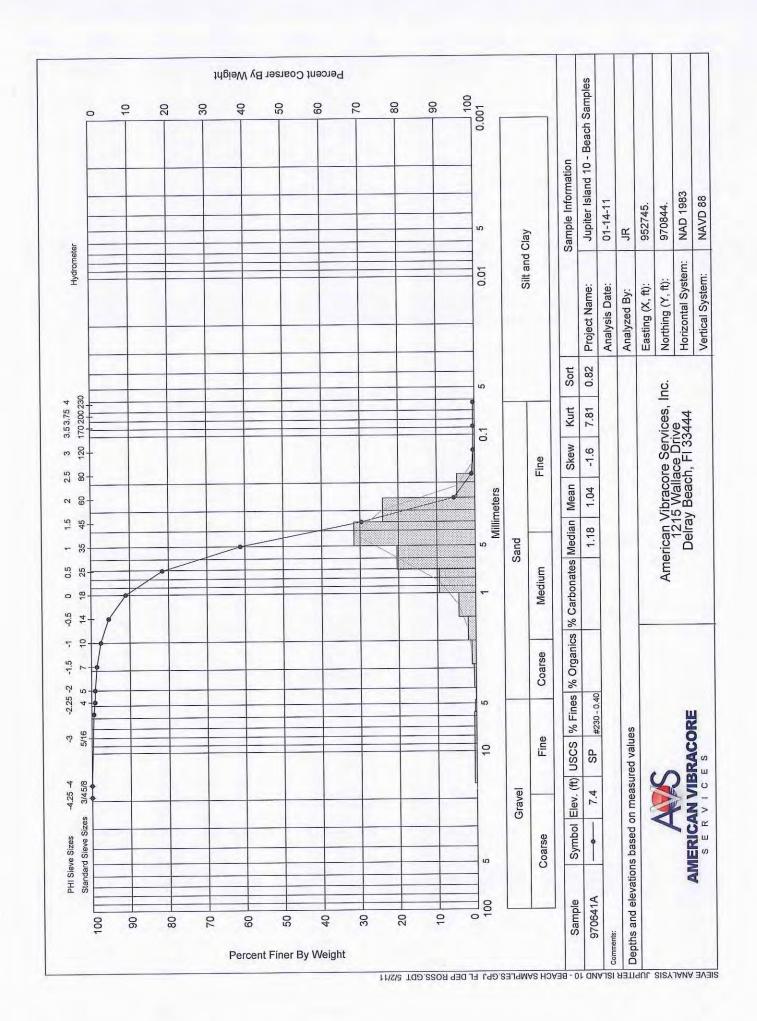


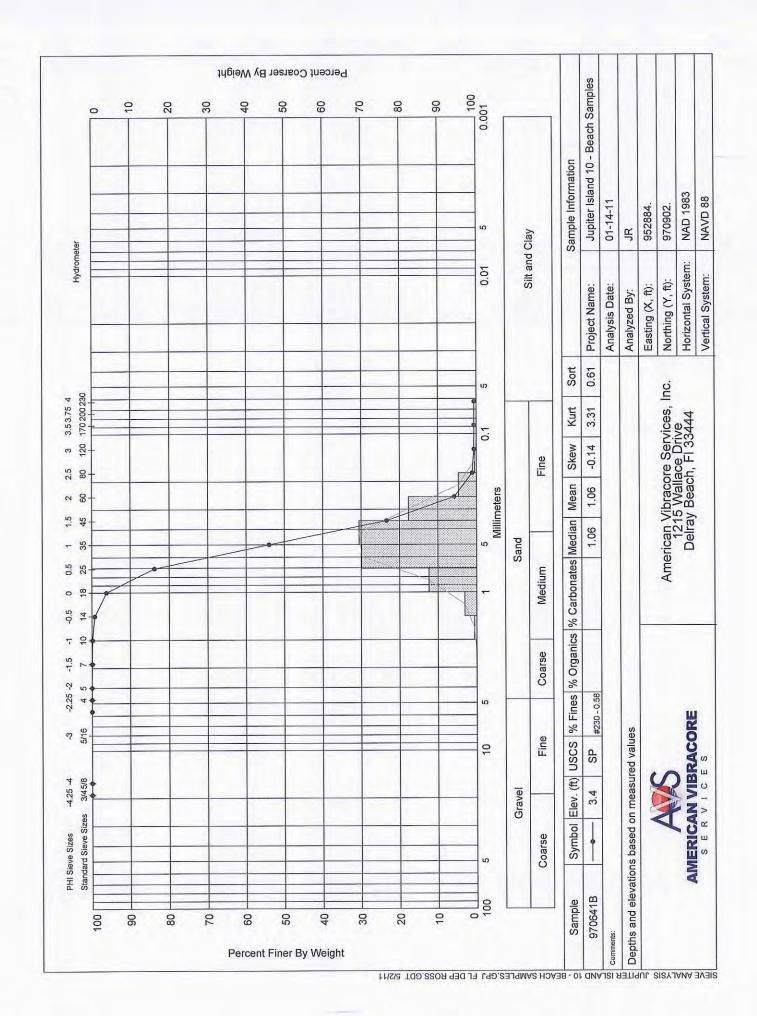


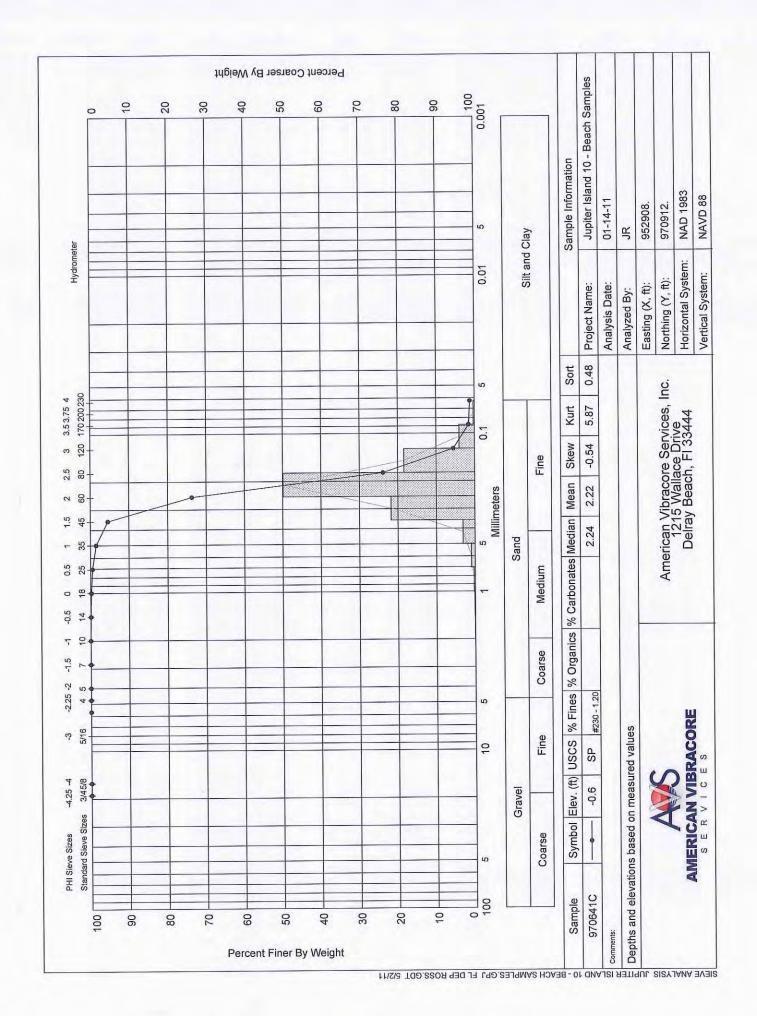


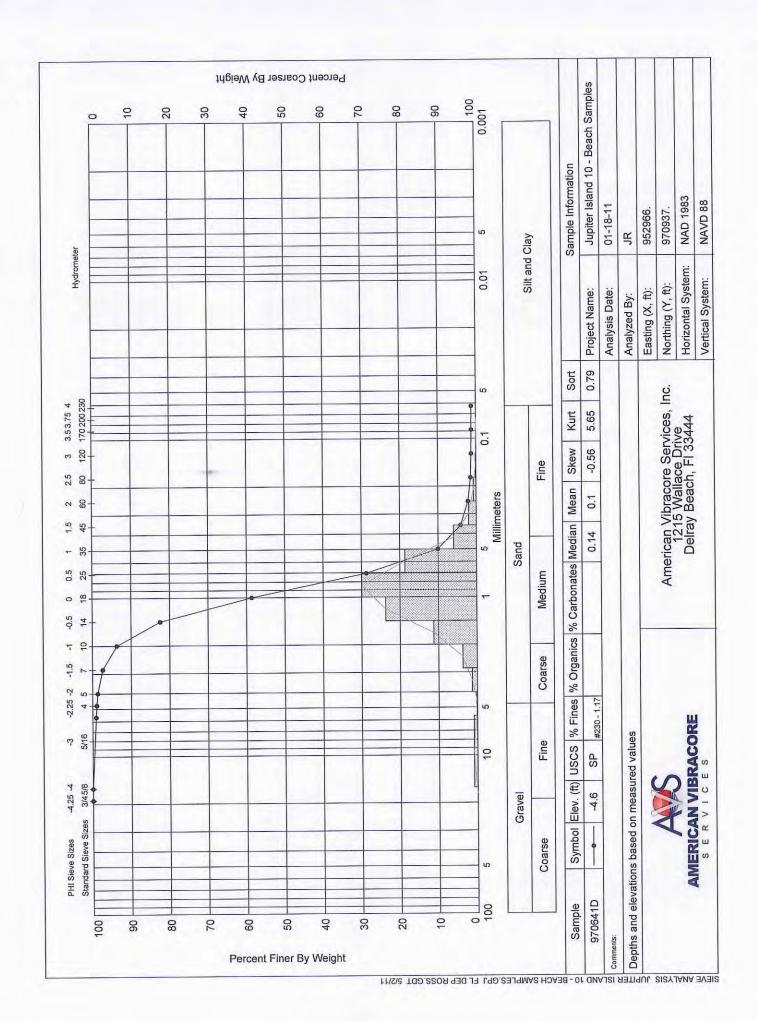


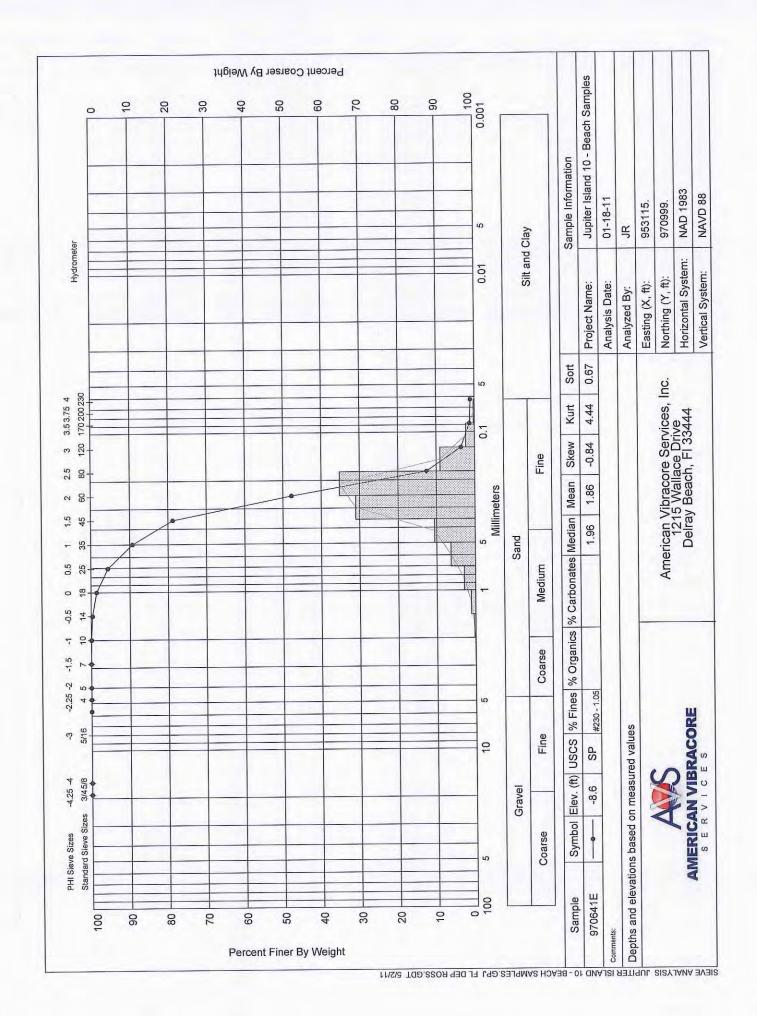


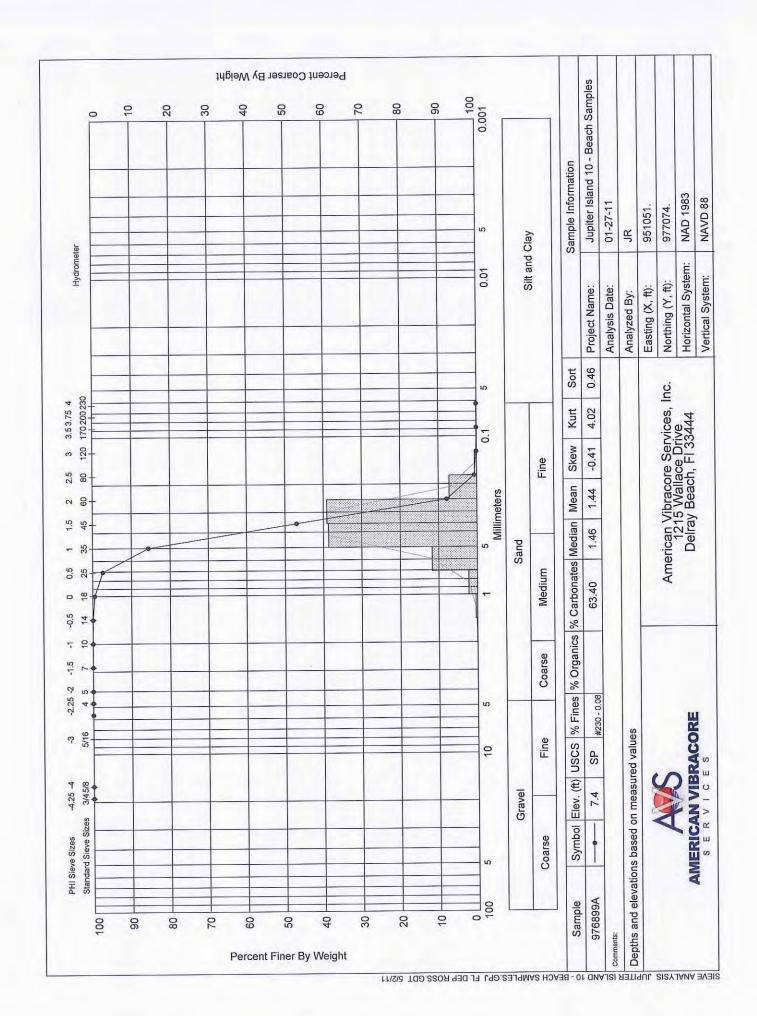


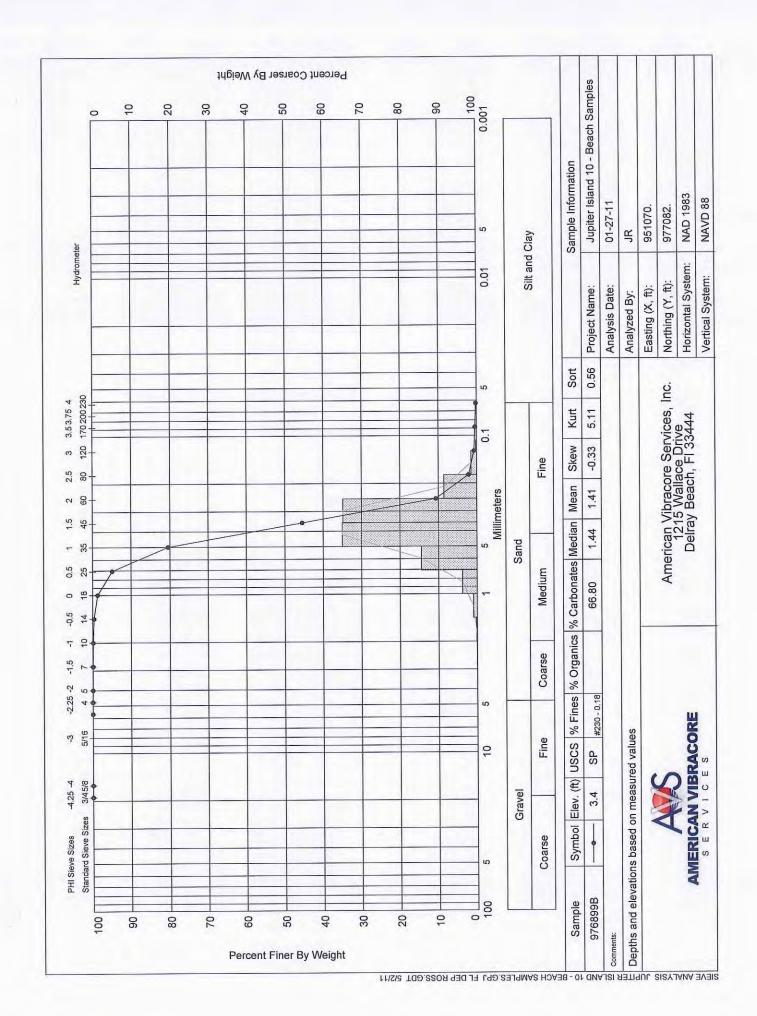


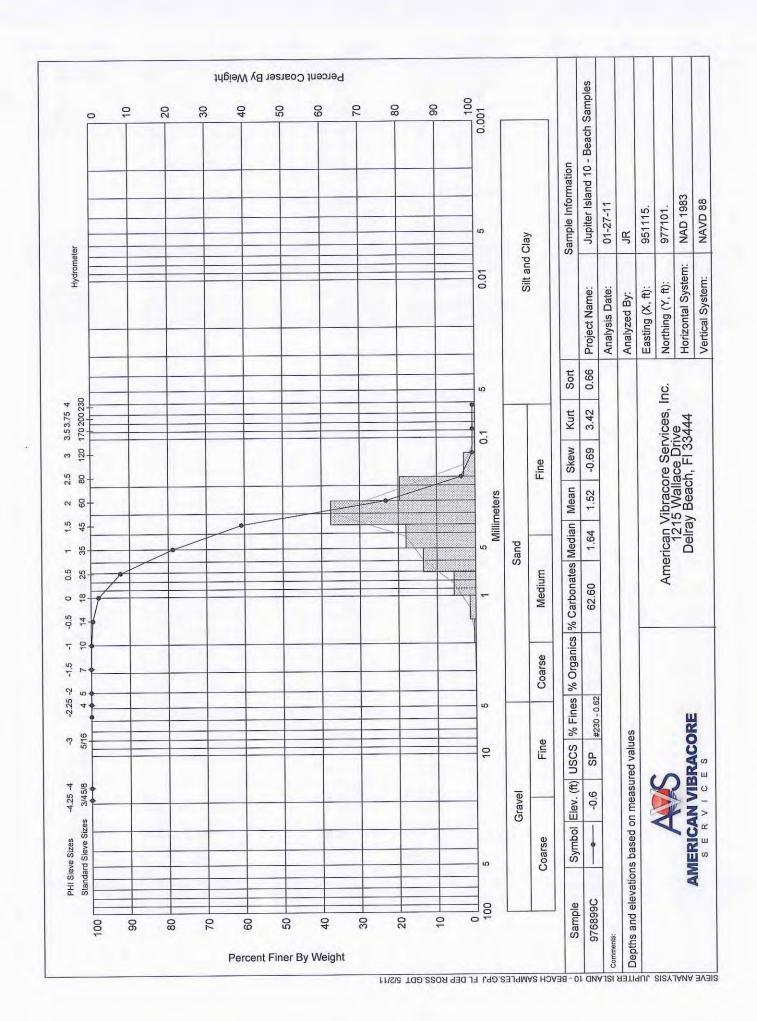


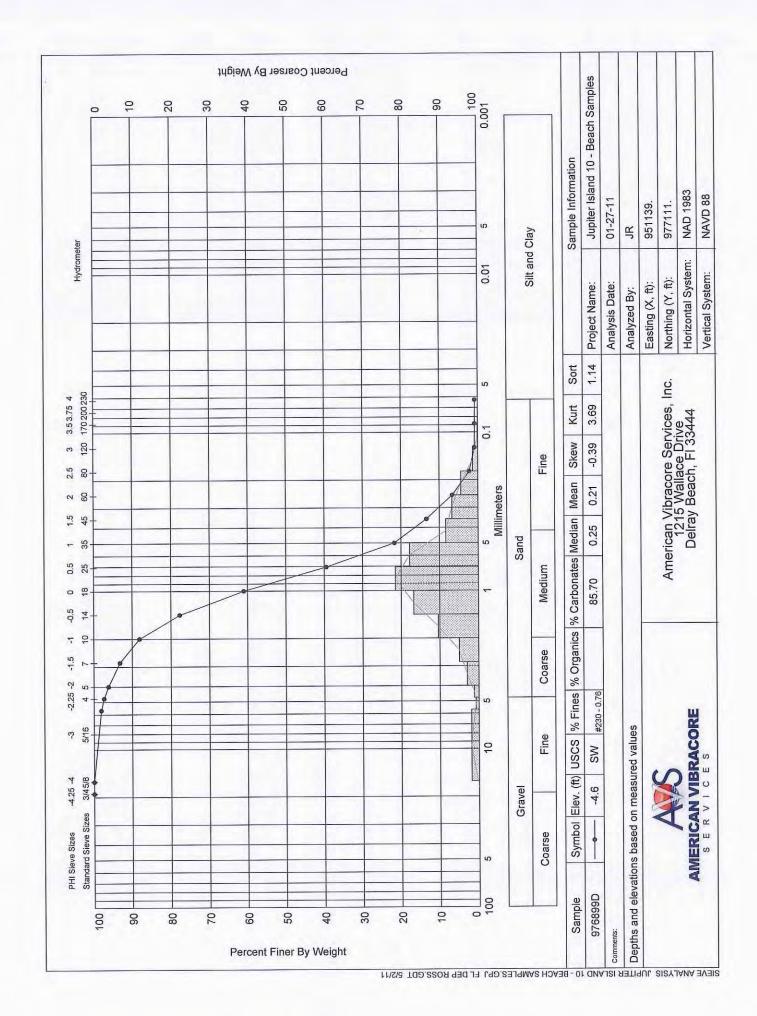


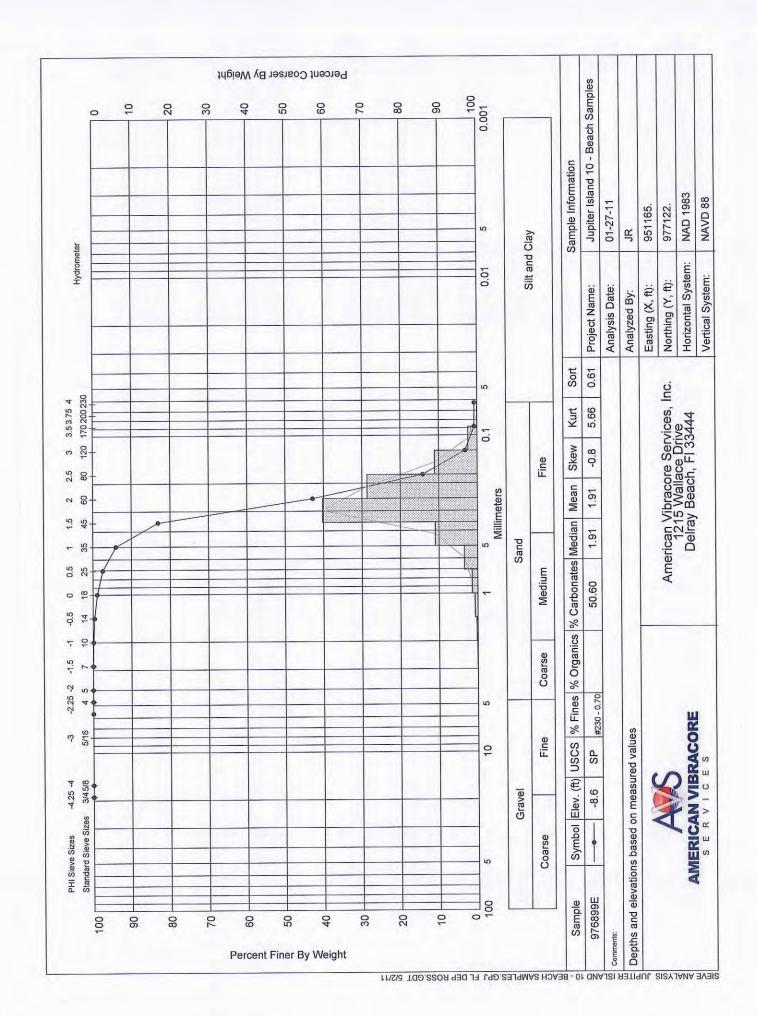


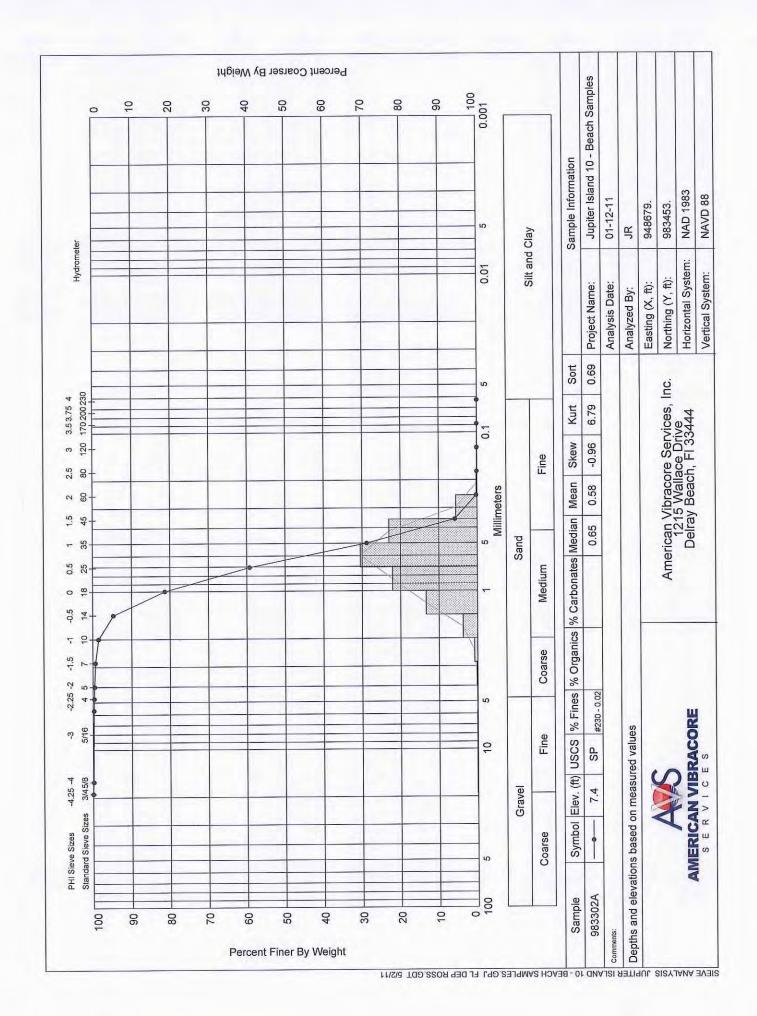


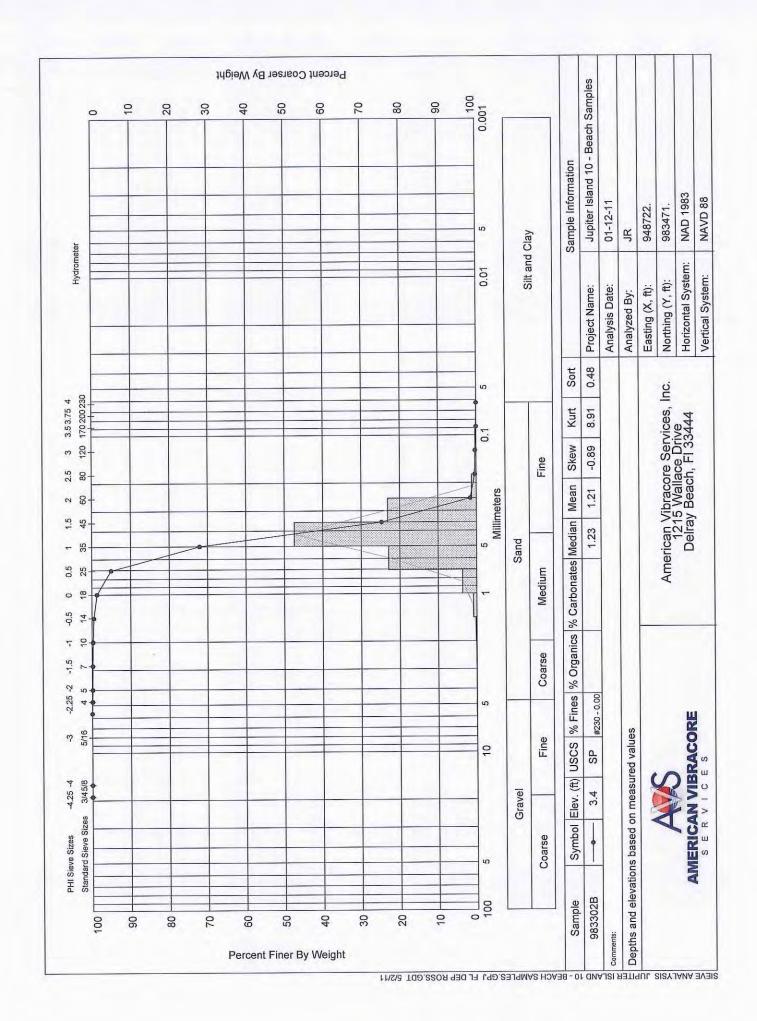


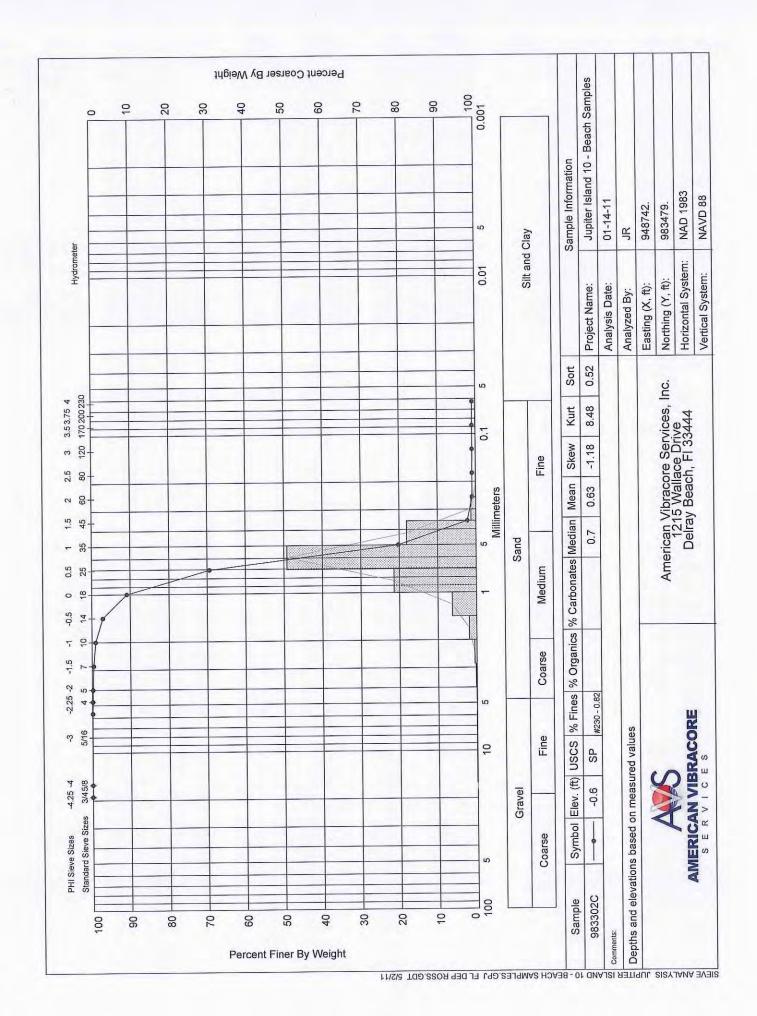


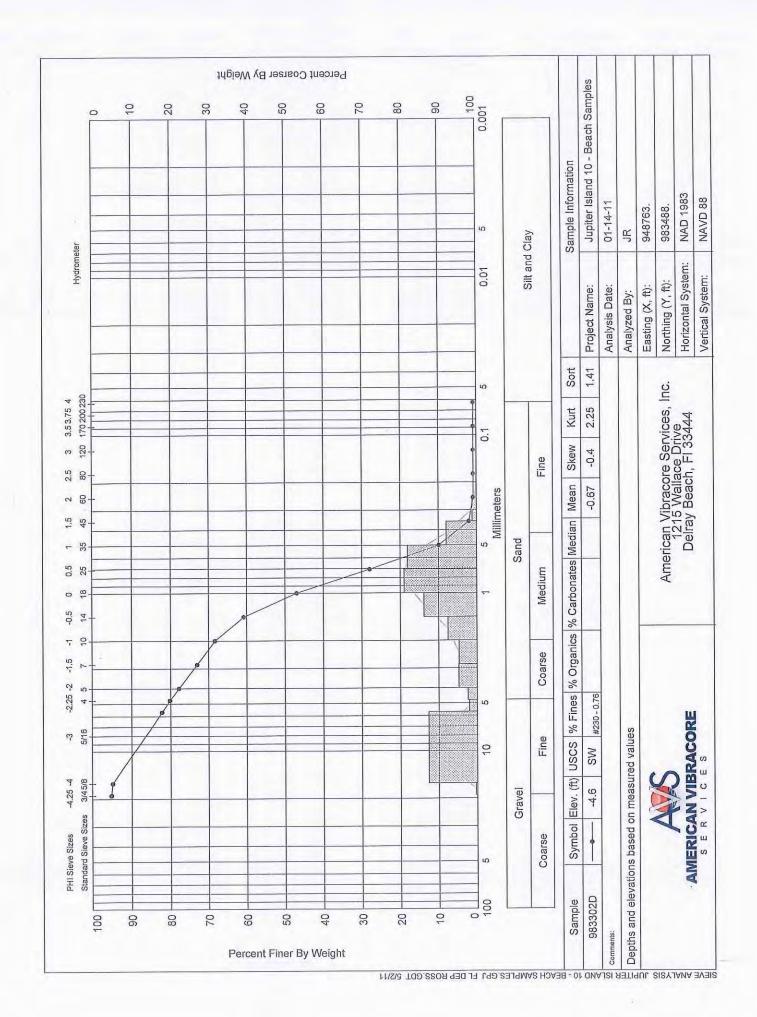


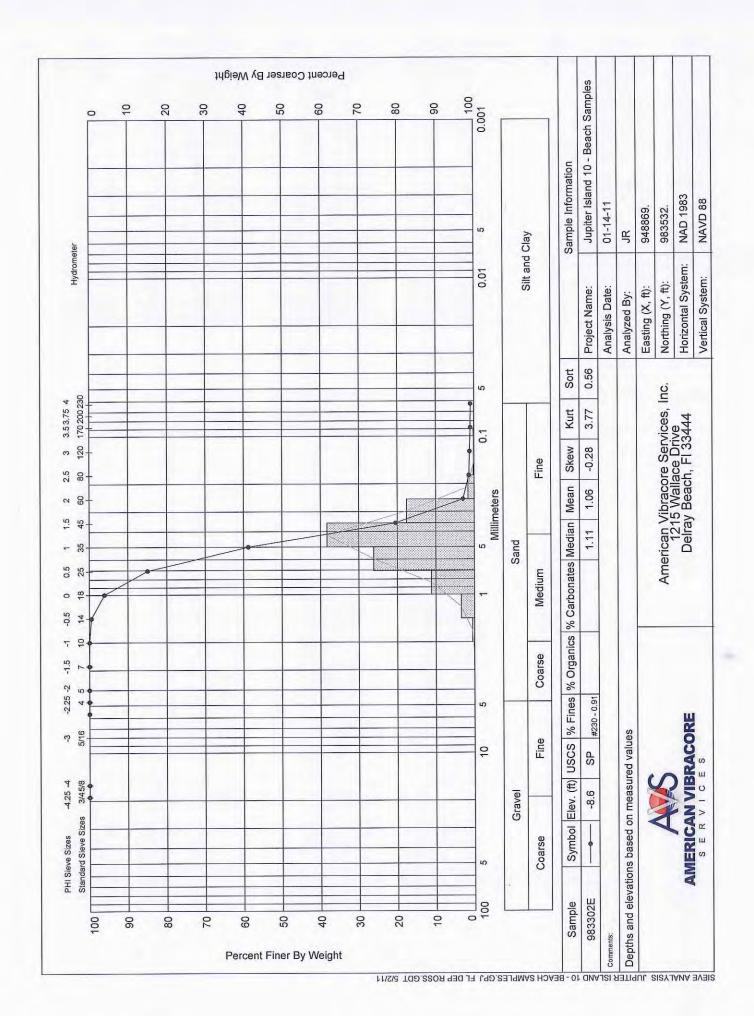


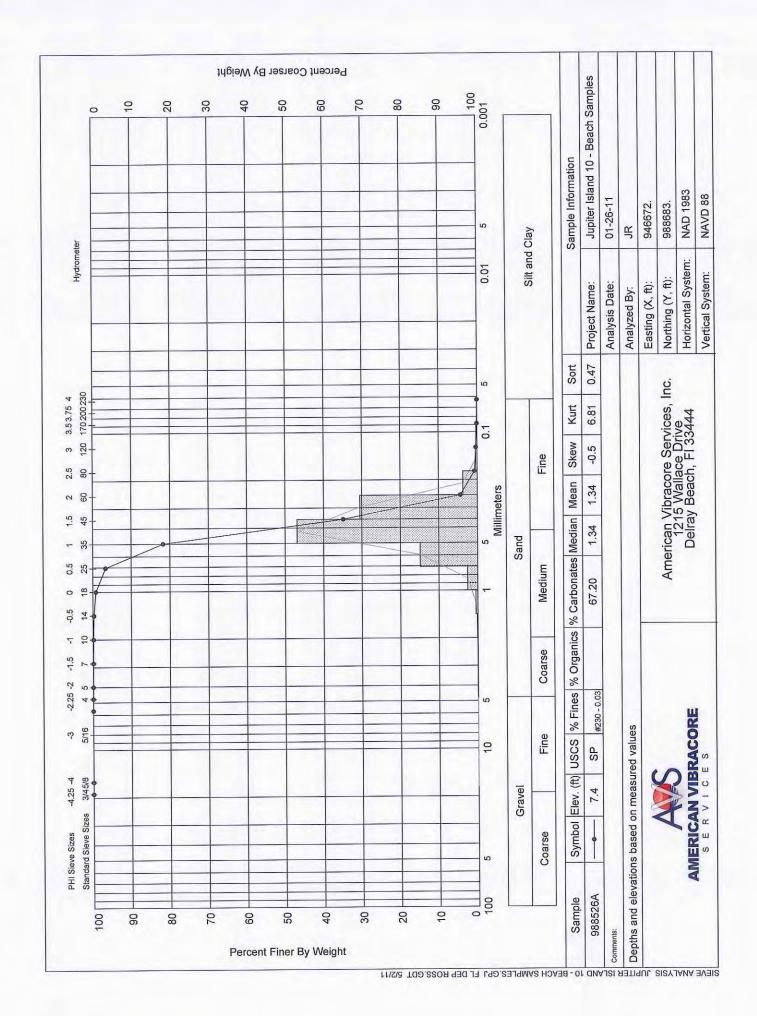


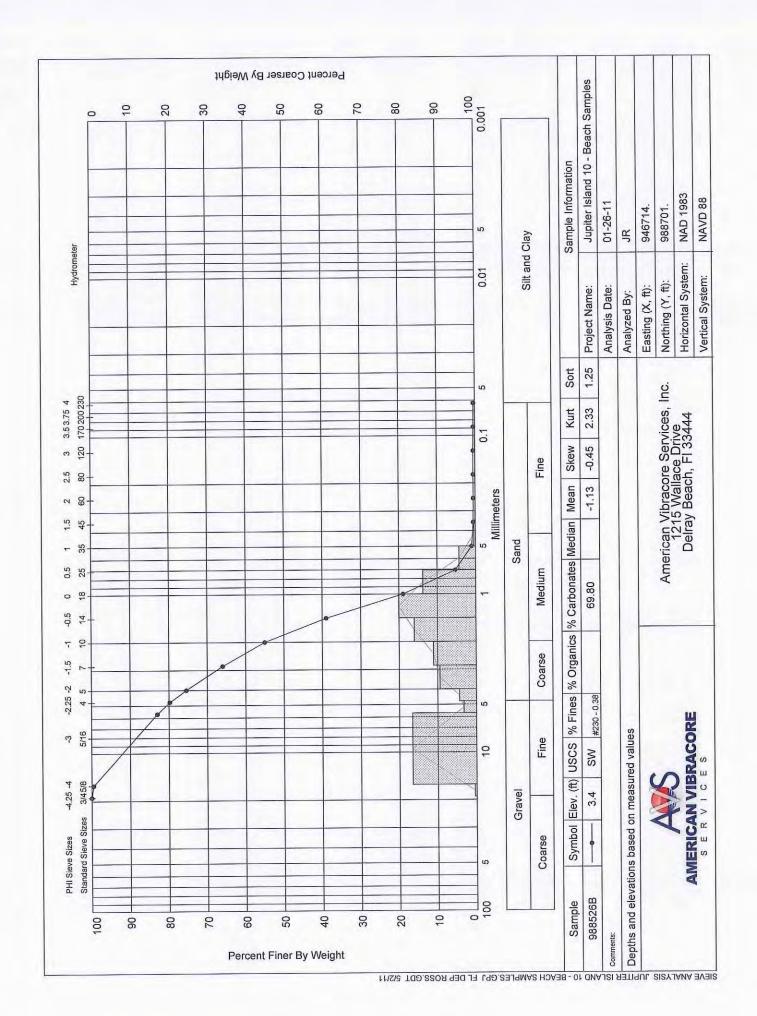


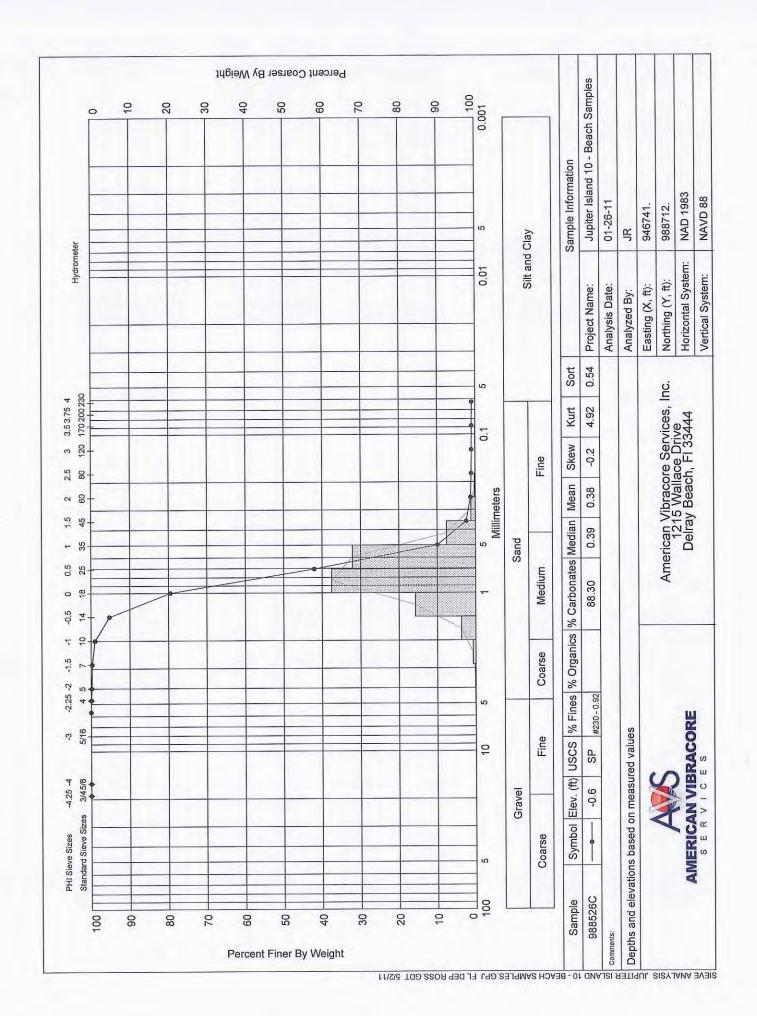


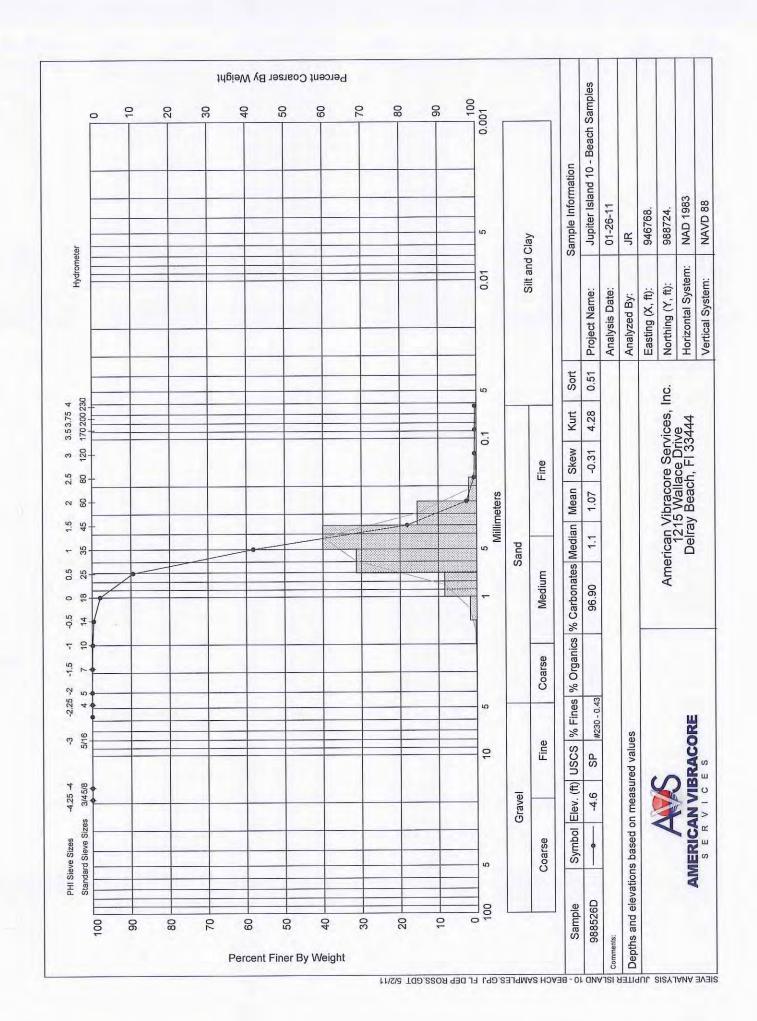


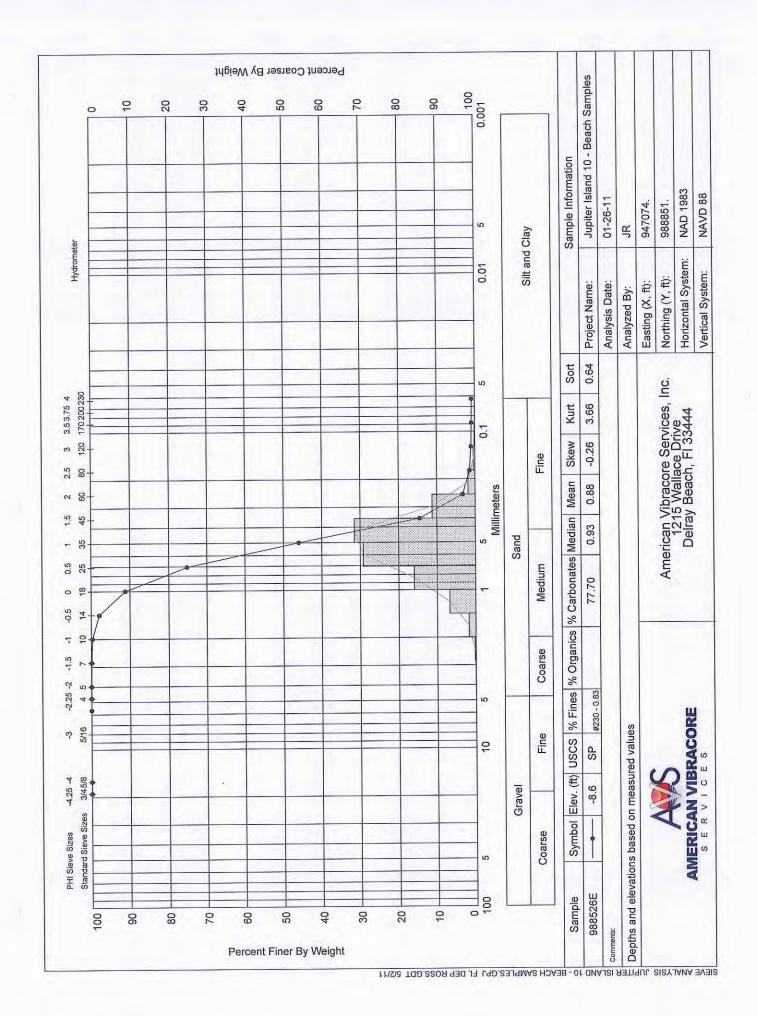


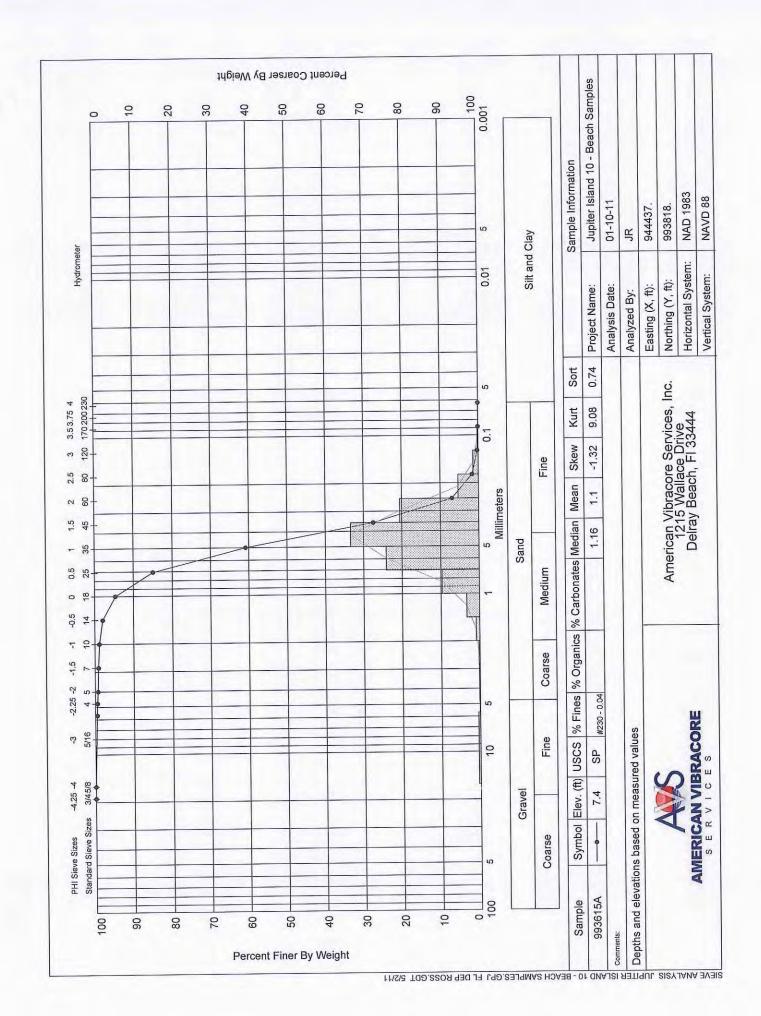


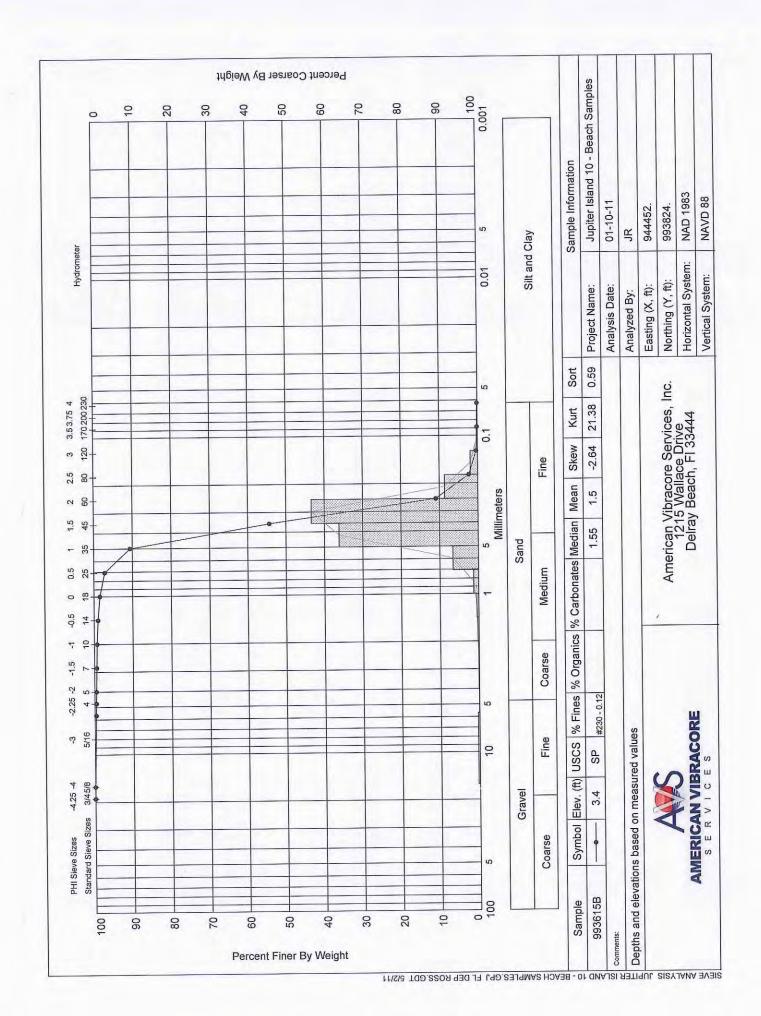


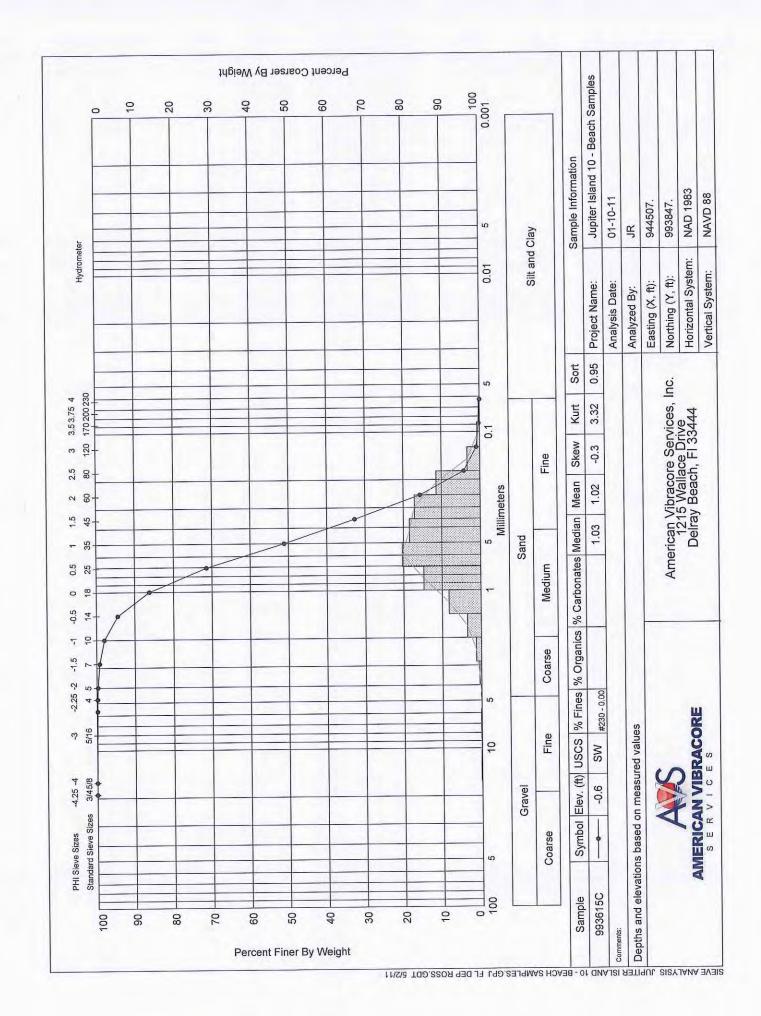


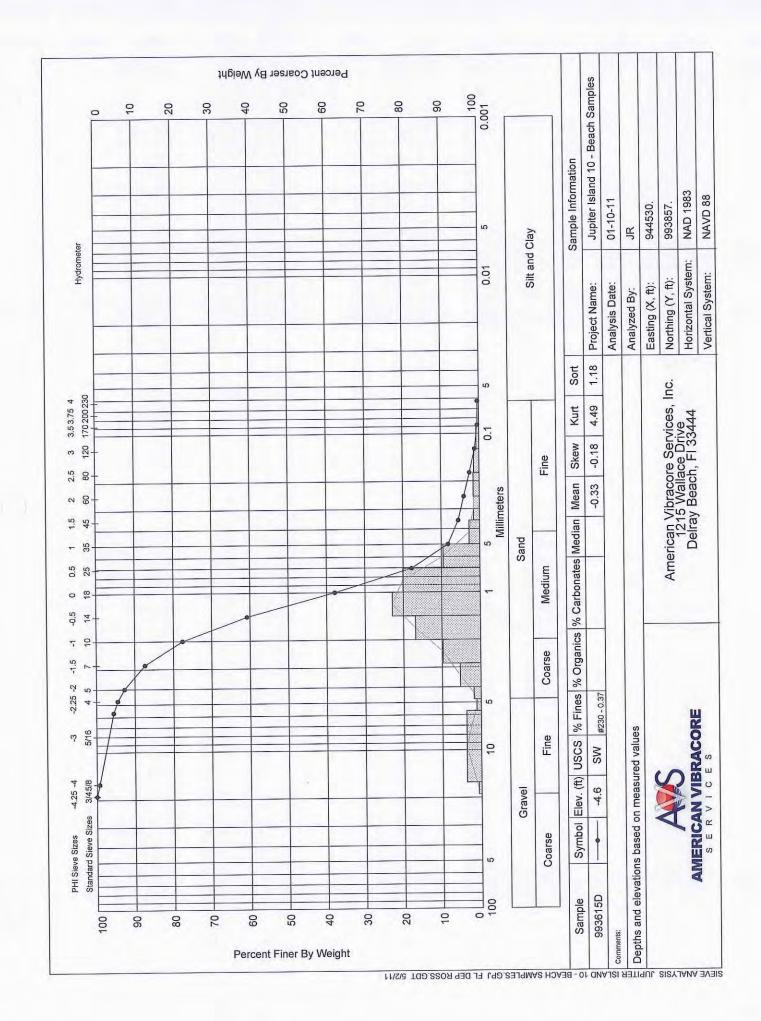


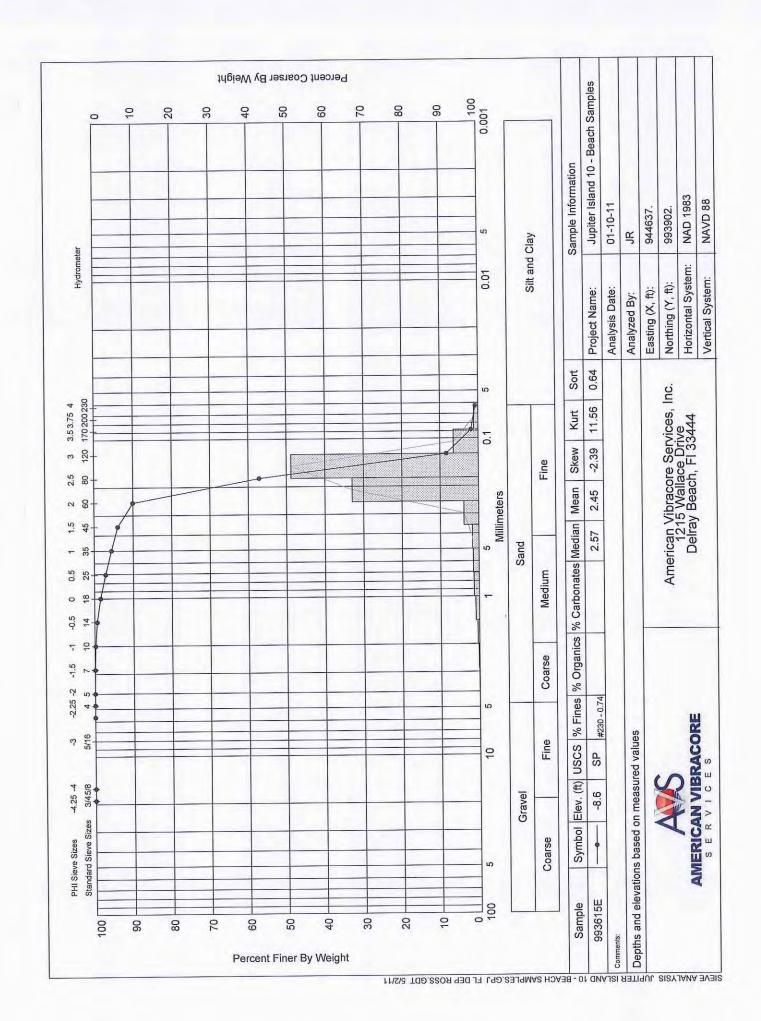


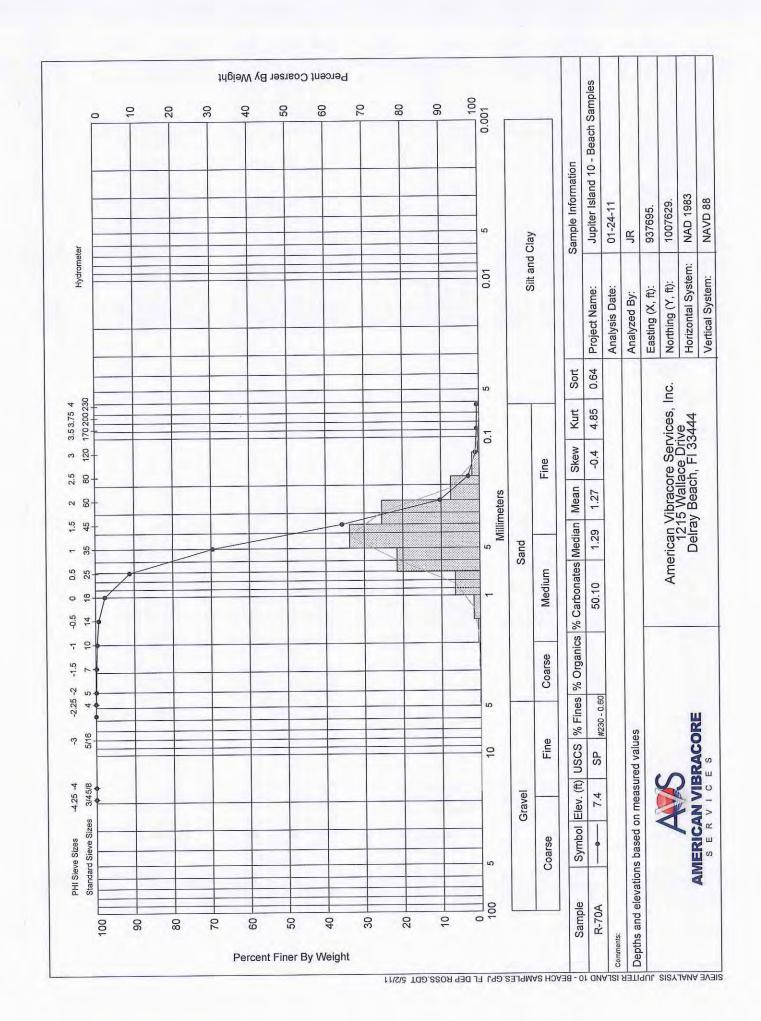


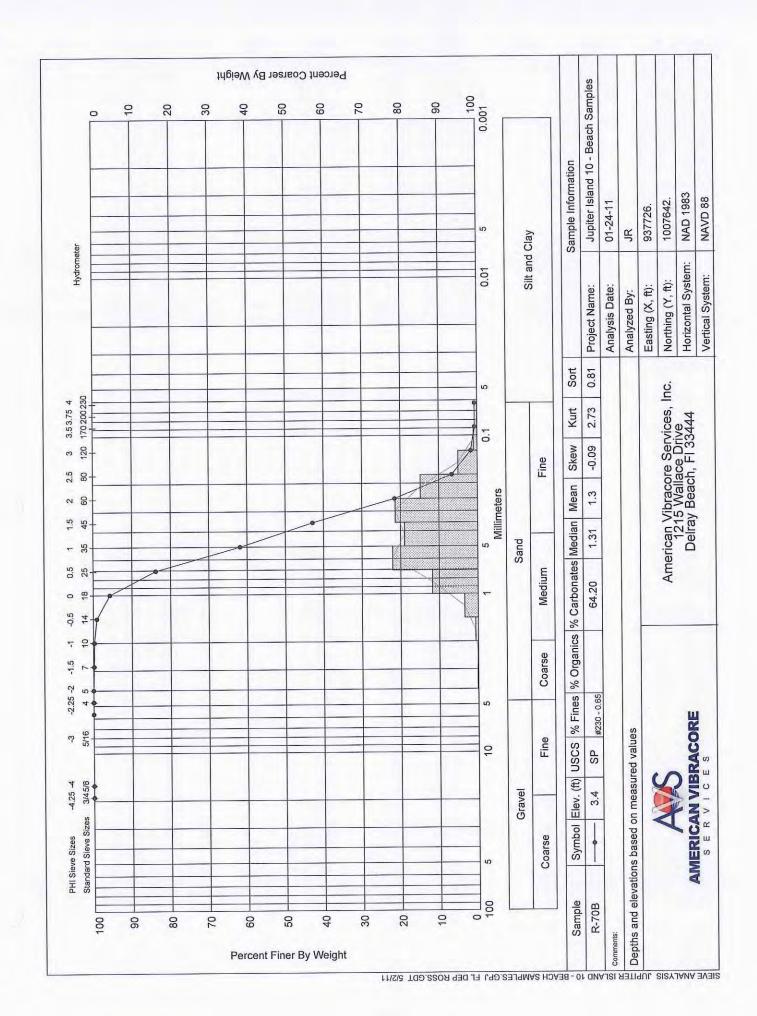


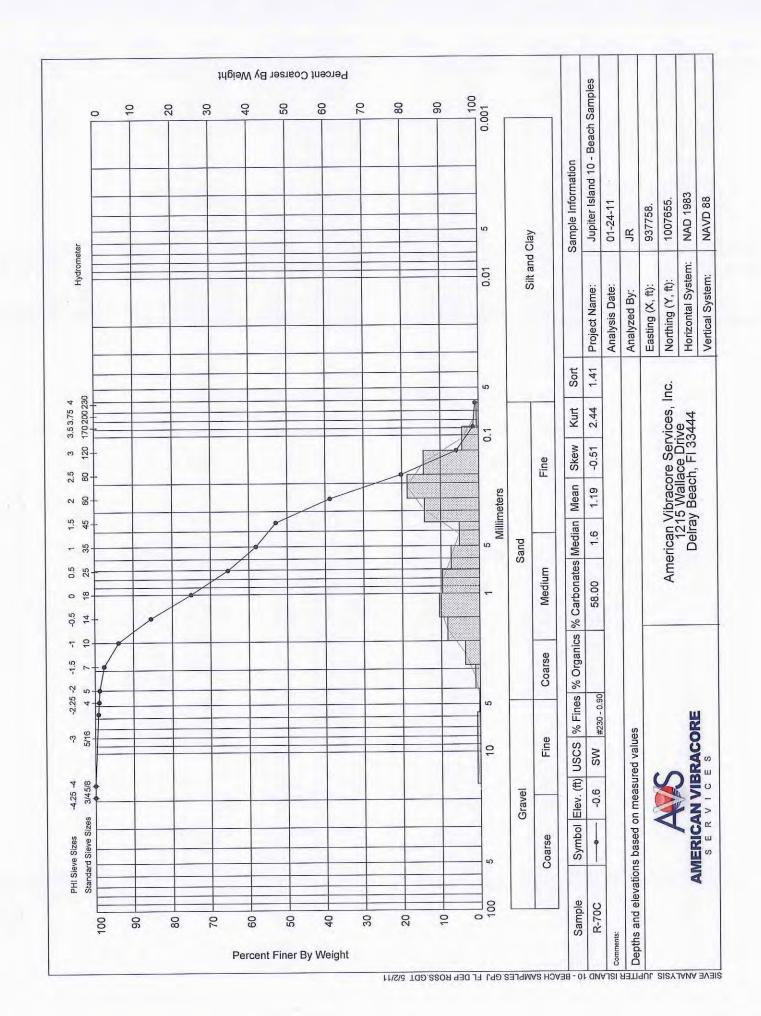


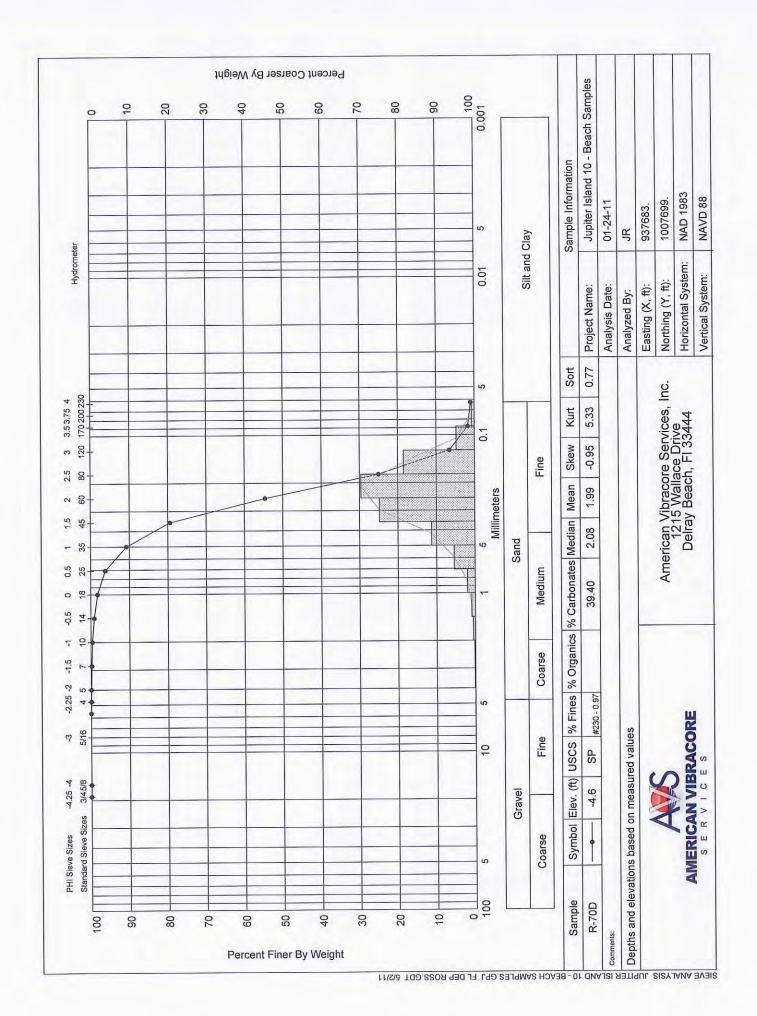


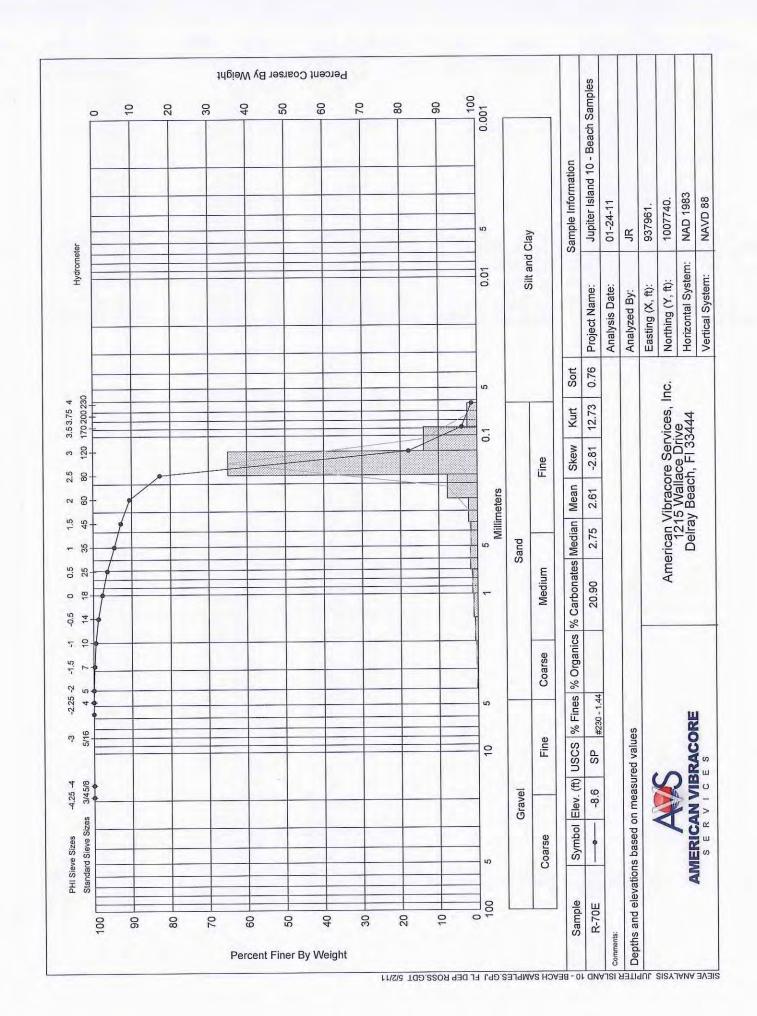


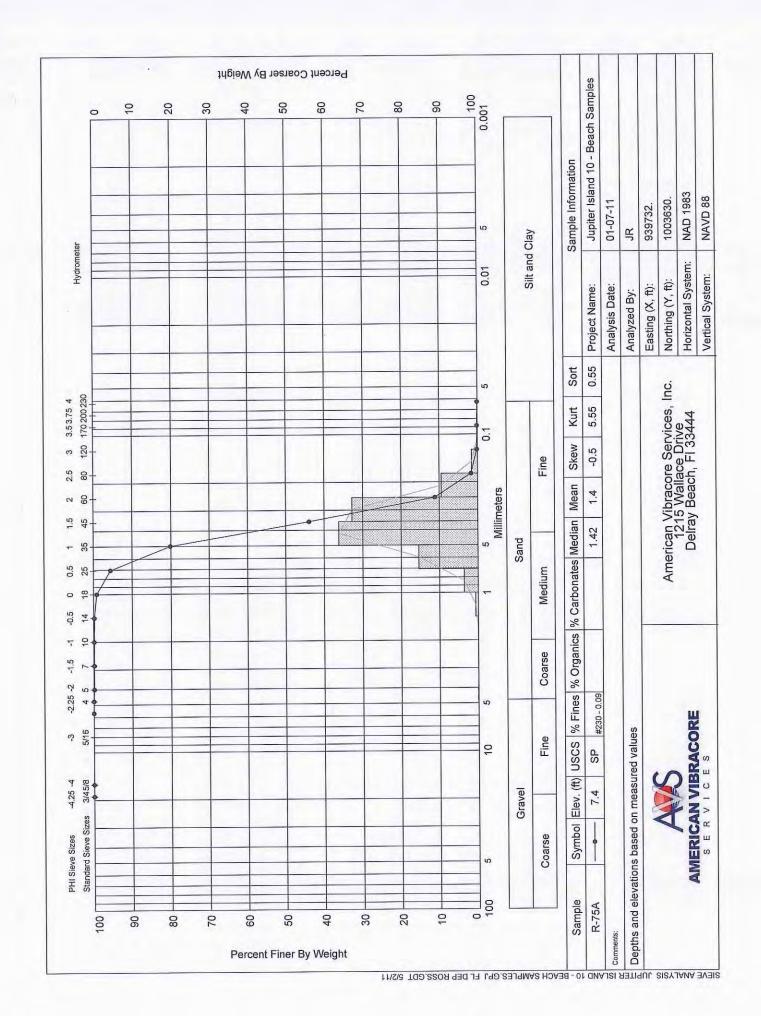


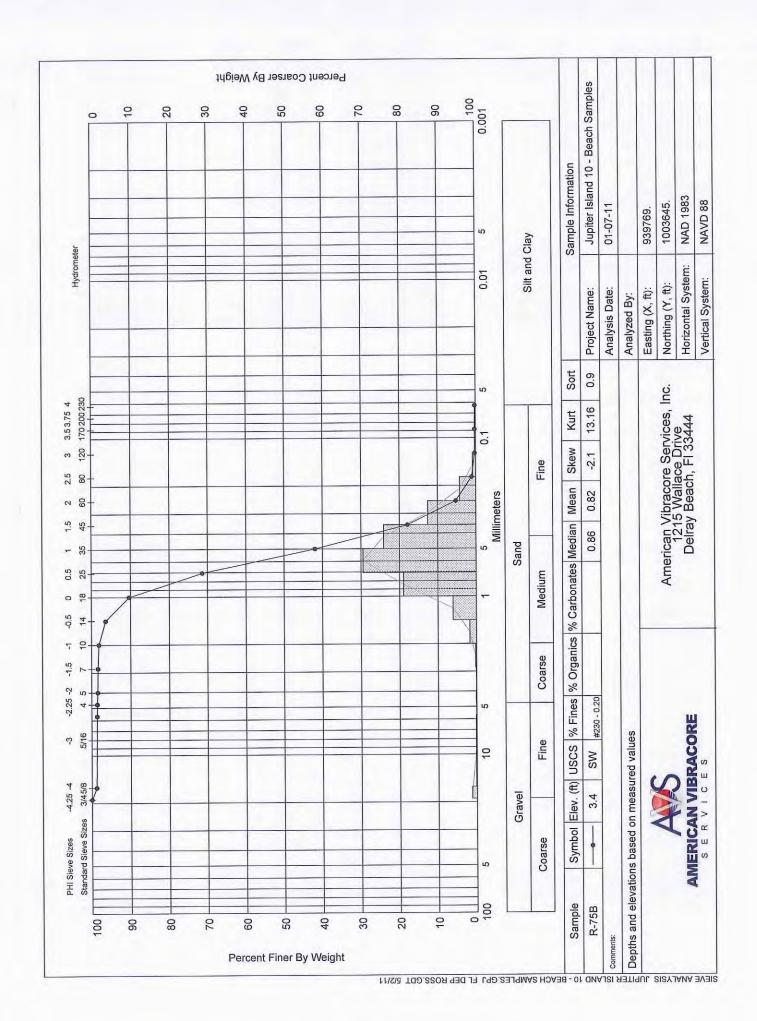


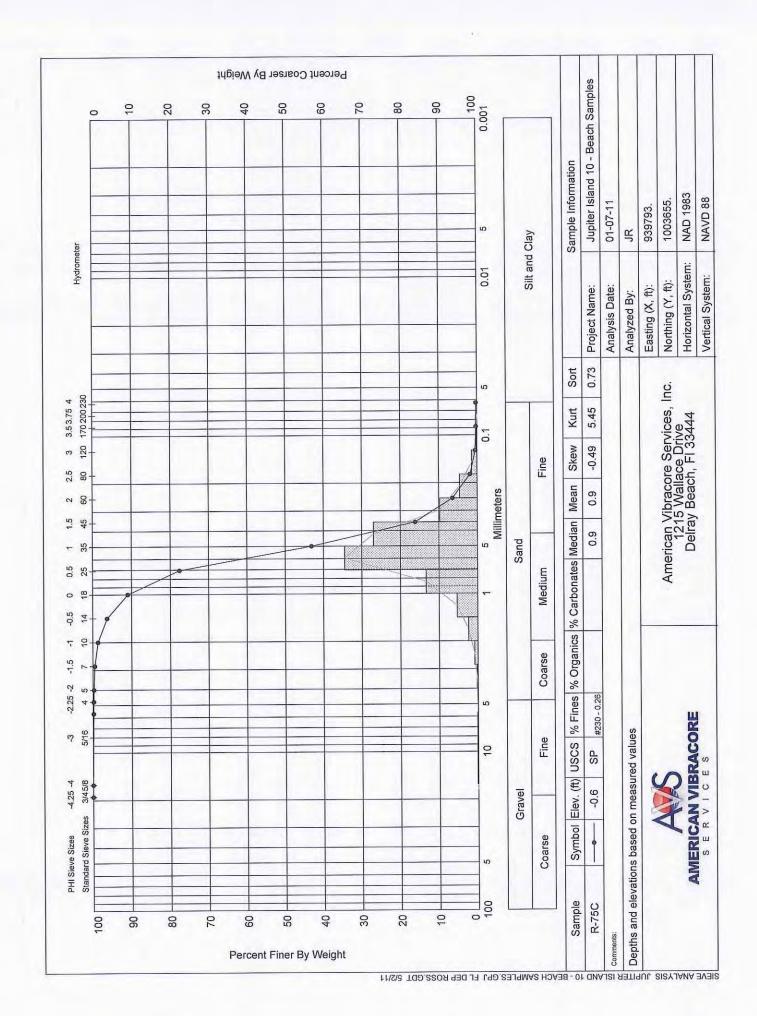


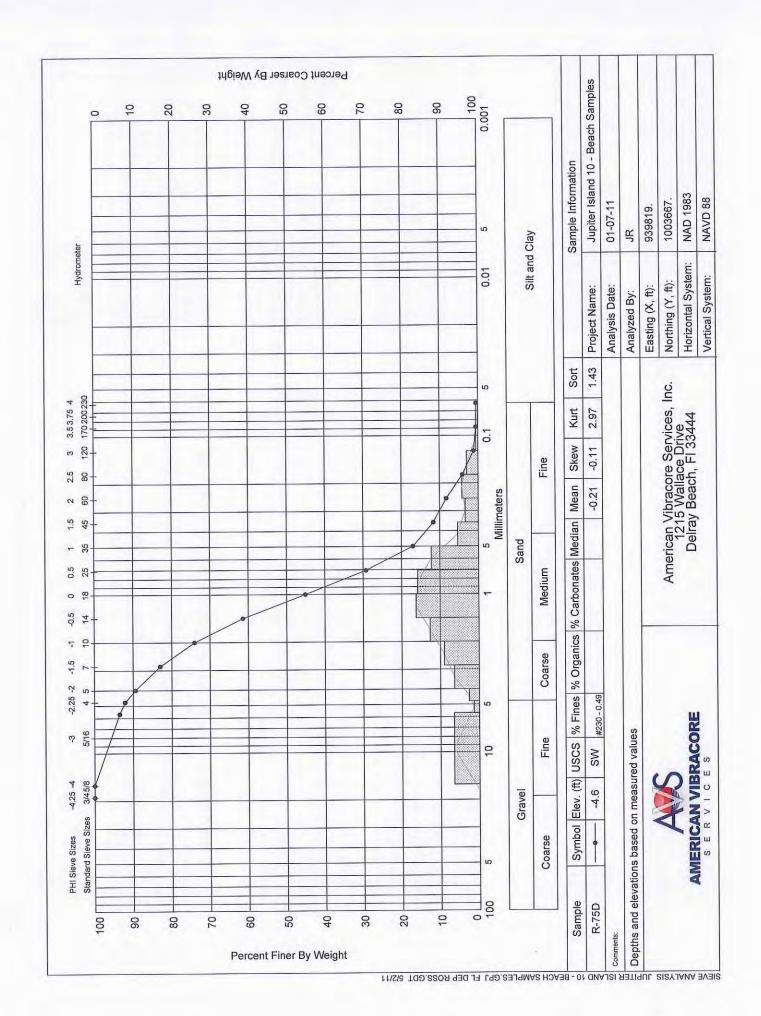


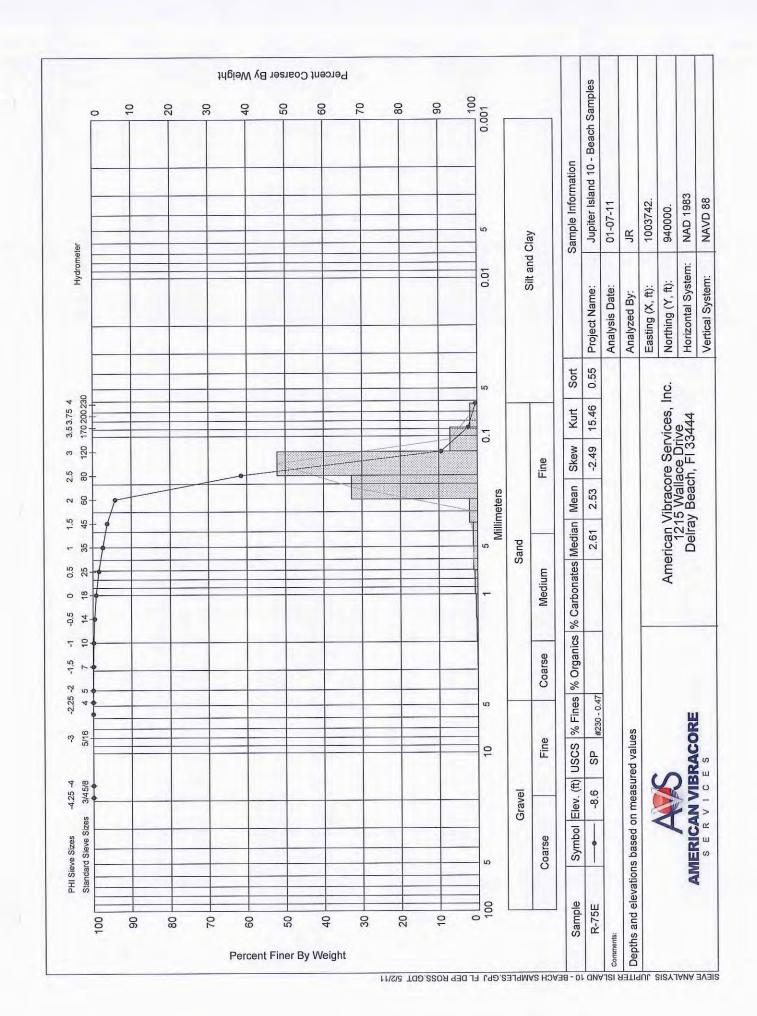












# Sieve Report



Depths and elevations based on measured values

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 1000258A

Analysis Date: 01-24-11

Analyzed By: JR Easting (ft): Northing (ft): AMERIC/

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

Elevation (ft): Coordinate System:

7.4 NAVD 88 1000417. 941554. Florida State Plane East

Comments: USCS: Munsell: SP Wet - 10 YR-4/1 Fines (%): Organics (%): Carbonates (%): Shells (%): Sieve Loss (%): Pan Retained (g): Dry Weight (g): Wash Weight (g): #230 - 0.30 75.70 0.12 0.00 0.10 755.90 758.10 C. % Weight % Weight Cum. Grams Grams Sieve Size Sieve Size Sieve Number Retained Retained Retained Retained (Millimeters) (Phi) 0.00 0.00 0.00 19.03 -4.253/4" 0.00 0.00 0.00 16.00 0.00 -4.005/8" 0.00 0.00 0.00 -2.505.66 0.00 3.5 0.12 0.12 0.90 4.76 0.90 -2.254 1.20 0.16 0.04 4.00 0.30 5 -2.000.29 1.00 0.13 2.20 7 -1.502.83 0.73 0.44 5.50 2.00 3.30 10 -1.002.76 20.90 15.40 2.03 1.41 -0.5014 76.40 10.08 7.32 55.50 1.00 18 0.00 24.54 186.00 14.46 0.50 0.71 109.60 25 49.85 191.90 25.31 377.90 1.00 0.50 35 5/2/11 605.30 79.84 227.40 30.00 0.35 45 1.50 GRANULARMETRIC REPORT JUPITER ISLAND 10 - BEACH SAMPLES.GPJ FL DEP ROSS.GDT 96.81 16.96 733.90 128.60 2.00 0.25 60 751.90 99.18 18.00 2.37 2.50 0.18 80 2.50 0.33 754.40 99.51 0.13 3.00 120 99.64 755.40 1.00 0.13 0.09 170 3.50 755.80 99.70 0.40 0.05 0.06 230 4.00

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
1.95	1.62	1.42	1.00	0.51	0.20	-0.35
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	0.92	0.53	0	7	-0.51	3.88

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 1000258B

Analysis Date: 01-24-11

Analyzed By: JR



American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

Coordinate System: Elevation (ft): Easting (ft): Northing (ft): 3.4 NAVD 88 1000428. 941580. Florida State Plane East

USCS:	Munsell:	Comm	arns.				
SW Dry Weight (g):	Wash Weight (g):	- 10 YR-5/2 Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
475.20	472.70	0.10	0.00	#230 - 0.55		79.50	0.15
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weigh Retained		Grams (	C. % Weigh Retained
3/4"	-4.25	19.03		0.00	0	0.00	0.00
5/8"	-4.00	16.00	0.00	0.00	(	0.00	0.00
3.5	-2.50	5.66	0.00	0.00	C	0.00	0.00
4	-2.25	4.76	0.70	0.15	(	0.70	0.15
5	-2.00	4.00	0.70	0.15	*	1.40	0.29
7	-1.50	2.83	3.90	0.82		5.30	1.12
10	-1.00	2.00	6.90	1.45	1	2.20	2.57
14	-0.50	1.41	15.60	3.28	2	7.80	5.85
18	0.00	1.00	40.30	8.48	6	8.10	14.33
25	0.50	0.71	100.90	21.23	16	69.00	35.56
35	1.00	0.50	137.00	28.83	30	06.00	64.39
45	1.50	0.35	62.00	13.05	36	68.00	77.44
60	2.00	0.25	48.60	10.23	4	16.60	87.67
80	2.50	0.18	31.00	6.52	44	47.60	94.19
120	3.00	0.13	17.60	3.70	46	55.20	97.90
170	3.50	0.09	7.30	1.54	4	72.50	99.43
230	4.00	0.06	0.10	0.02	4	72.60	99.45
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	P	hi 84	Phi 95
2.61	1.82	1.41	0.75	0.25		0.04	-0.63
Moment	Mean Phi	Mean	mm S	Sorting	Skewne	ss	Kurtosis
Statistics	0.83	0.5	6	0.93	0.15		3.47

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.61	1.82	1.41	0.75	0.25	0.04	-0.63
Moment	Mean Phi	Mean mm	Sor	ing	Skewness	Kurtosis
Statistics	0.83	0.56	0.9	93	0.15	3.47

Depths and elevations based on measured values

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 1000258C

Analysis Date: 01-24-11

Analyzed By: JR

Easting (ft):

Northing (ft):

AMERICAN VIBRACORE

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Coordinate System: Elevation (ft):

941611. 1000441. Florida State Plane East -0.6 NAVD 88

USCS: Munsell: Comments: SW Wet - 10 YR-5/2 Pan Retained (g): Organics (%): Carbonates (%): Dry Weight (g): Sieve Loss (%): Fines (%): Shells (%): Wash Weight (g): 917.90 0.10 0.01 #230 - 0.83 76.20 1.17 925.40 Cum. Grams C. % Weight Sieve Size Sieve Size Grams % Weight Sieve Number (Millimeters) Retained Retained Retained Retained (Phi) 3/4" -4.2519.03 0.00 0.00 0.00 5/8" 16.00 0.00 0.00 0.00 0.00 -4.000.61 5.60 0.61 -2.505.66 5.60 3.5 4.76 5.20 0.56 10.80 1.17 4 -2.255 -2.00 4.00 9.20 0.99 20.00 2.16 7 -1.502.83 30.20 3.26 50.20 5.42 10 -1.002.00 58.60 6.33 108.80 11.76 10.58 206.70 22.34 14 -0.501.41 97.90 12.70 324.20 35.03 18 0.00 1.00 117.50 25 0.50 0.71 118.00 12.75 442.20 47.78 537.70 58.10 35 1.00 0.50 95.50 10.32 1.50 0.35 64.20 6.94 601.90 65.04 45 75.29 60 2.00 0.25 94.80 10.24 696.70 80 2.50 0.18 123.20 13.31 819.90 88.60 72.80 120 3.00 0.13 7.87 892.70 96.47 170 3.50 0.09 22.80 2.46 915.50 98.93 2.20 0.24 917.70 230 4.00 0.06 99.17

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.91	2.33	1.99	0.61	-0.40	-0.80	-1.56
Moment	Mean Phi	Mean mm	Sort	ting	Skewness	Kurtosis
Statistics	0.68	0.62	1.4	12	-0.1	2.19

GRANULARMETRIC REPORT JUPITER ISLAND 10 - BEACH SAMPLES.GPJ FL DEP ROSS.GDT

5/2/11

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 1000258D

Analysis Date: 01-24-11

Analyzed By: JR

Easting (ft):

Northing (ft): Coordinate System: American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

**AMERICAN VIBRACORE** 

SERVICES

Elevation (ft): -4.6 NAVD 88

Florida State Plane East

941673. 1000467. USCS: Munsell: Comments:

SP	Wet	- 10 YR-6/1						
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (	%):	Shells (%):
648.20	642.10	0.00	0.00	#230 - 0.94		29.10	)	0.17
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weigh Retained	t Cum. I Ret	Grams ained		% Weigh Retained
3/4"	-4.25	19.03		0.00	0	.00		0.00
5/8"	-4.00	16.00	0.00	0.00	0	.00		0.00
3.5	-2.50	5.66	0.00	0.00	0	.00		0.00
4	-2.25	4.76	1.10	0.17	1	.10		0.17
5	-2.00	4.00	0.40	0.06	1	.50		0.23
7	-1.50	2.83	0.80	0.12	2	.30		0.35
10	-1.00	2.00	0.70	0.11	3	3.00		0.46
14	-0.50	1.41	1.60	0.25	4	.60		0.71
18	0.00	1.00	3.30	0.51	7	.90		1.22
25	0.50	0.71	6.00	0.93	1;	3.90		2.14
35	1.00	0.50	8.90	1.37	22	2.80		3.52
45	1.50	0.35	10.80	1.67	33	3.60		5.18
60	2.00	0.25	29.30	4.52	62	2.90		9.70
80	2.50	0.18	197.80	30.52	26	0.70		40.22
120	3.00	0.13	317.40	48.97	57	8.10		89.19
170	3.50	0.09	51.50	7.95	62	9.60		97.13
230	4.00	0.06	12.50	1.93	64	2.10		99.06

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.37	2.95	2.86	2.60	2.25	2.10	1.45
Moment	Mean Phi	Mean mm	Sort	ting	Skewness	Kurtosis
Statistics	2.49	0.18	0.6	35	-2.71	16.17

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 1000258E

Analysis Date: 01-24-11

Analyzed By: JR

Easting (ft):

**AMERICAN VIBRACORE** SERVICES

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

Northing (ft): Elevation (ft): Coordinate System:

941736	6.	1000494.	Florid	a State Plane	East	-8.6	NAVD 88	
uscs: SP	Munsell:	- 10 YR-6/1						
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%): Organics		Carbonates (	%): Shells (%):	
190.20	187.80	0.00	0.05	#230 - 1.31		35.20	0.00	
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weigh Retaine		. Grams tained	C. % Weigl Retained	
3/4"	-4.25	19.03		0.00	C	0.00	0.00	
5/8"	-4.00	16.00	0.00	0.00	C	0.00	0.00	
3.5	-2.50	5.66	0.00	0.00	C	0.00	0.00	
4	-2.25	4.76	0.00	0.00	C	0.00	0.00	
5	-2.00	4.00	0.00	0.00	C	0.00	0.00	
7	-1.50	2.83	0.20	0.11	C	0.20	0.11	
10	-1.00	2.00	0.10	0.05		0.30	0.16	
14	-0.50	1.41	0.30	0.16	C	0.60	0.32	
18	0.00	1.00	0.70	0.37	1	.30	0.68	
25	0.50	0.71	1.10	0.58	2	2.40	1.26	
35	1.00	0.50	1.00	0.53	3	3.40	1.79	
45	1.50	0.35	0.90	0.47	4	1.30	2.26	
60	2.00	0.25	2.20	1.16	6	8.50	3.42	
80	2.50	0.18	11.70	6.15	1	8.20	9.57	
120	3.00	0.13	115.50	60.73	13	33.70	70.29	
170	3.50	0.09	46.40	24.40	18	30.10	94.69	
230	4.00	0.06	7.60	4.00	18	37.70	98.69	

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.54	3.28	3.10	2.83	2.63	2.55	2.13
Moment	Mean Phi	Mean mm	Sort	ing	Skewness	Kurtosis
Statistics	2.81	0.14	0.8	53	-3.1	21.27

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 965058A

Analysis Date: 01-28-11

Analyzed By: JR

Easting (ft):

Northing (ft): Coordinate System: Elevation (ft):

AMERICAN VIBRACORE SERVICES

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

05000		005000	005000			NAN /D 00	
953999 uscs:	Munsell:	965299.		a State Plane	East	7.4	NAVD 88
SP		: - 10 YR-5/1	nis.				
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	: Organics (%):		%): Shells (%):
791.90	790.10	0.00	0.00	#230 - 0.23		70.80	0.00
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weigh Retained		Grams ained	C. % Weight Retained
3/4"	-4.25	19.03		0.00	0	.00	0.00
5/8"	-4.00	16.00	0.00	0.00	0	.00	0.00
3.5	-2.50	5.66	0.00	0.00	0	.00	0.00
4	-2.25	4.76	0.00	0.00	0	.00	0.00
5	-2.00	4.00	0.00	0.00	0	.00	0.00
7	-1.50	2.83	0.60	0.08	0	.60	0.08
10	-1.00	2.00	0.50	0.06	1	.10	0.14
14	-0.50	1.41	4.00	0.51	5	.10	0.64
18	0.00	1.00	24.10	3.04	29	9.20	3.69
25	0.50	0.71	111.30	14.05	14	0.50	17.74
35	1.00	0.50	271.10	34.23	41	1.60	51.98
45	1.50	0.35	250.00	31.57	66	1.60	83.55
60	2.00	0.25	104.10	13.15	76	5.70	96.69
80	2.50	0.18	19.50	2.46	78	5.20	99.15
120	3.00	0.13	3.70	0.47	78	8.90	99.62
170	3.50	0.09	0.90	0.11	78	9.80	99.73
230	4.00	0.06	0.30	0.04	79	0.10	99.77

Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
1.52	1.36	0.97	0.61	0.44	0.05
Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
0.98	0.51	0.	57	0.01	3.95
	1.52 Mean Phi	1.52 1.36  Mean Phi Mean mm	1.52 1.36 0.97  Mean Phi Mean mm Sor	1.52         1.36         0.97         0.61           Mean Phi         Mean mm         Sorting	1.52         1.36         0.97         0.61         0.44           Mean Phi         Mean mm         Sorting         Skewness

Project Name: Jupiter Island 10 - Beach Samples

Northing (ft):

Sample Name: 965058B

Analysis Date: 01-28-11

Analyzed By: JR

Easting (ft):

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

Coordinate System:

Elevation (ft):

**AMERICAN VIBRACORE** 

SERVICES

Lasting (it).		ording (it).		oodianate dyste			Liovanor (ii).	NIAN / D. O.	
954040		96531	6. Commer		a State Plan	e East	3.4	NAVD 8	8
uscs: SP	Munsell:	M-+ 40 VD 5/4	Commer	115.					
Dry Weight (g):	Wash Weight (g):	Wet - 10 YR-5/1 Pan Retained	(g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates	(%): Shells	(%):
674.30	672.80	0.0	0	0.00	#230 - 0.2	2	60.8	0 0	0.00
Sieve Number	Sieve Si: (Phi)		Size	Grams Retained	% Weig	tht Cun	n. Grams etained	C. % W Retai	
3/4"	-4.25	19.0	03		0.00		0.00	0.0	10
5/8"	-4.00	16.0	00	0.00	0.00		0.00	0.0	10
3.5	-2.50	5.6	6	0.00	0.00		0.00	0.0	10
4	-2.25	4.7	6	0.00	0.00		0.00	0.0	0
5	-2.00	4.0	0	0.00	0.00		0.00	0.0	00
7	-1.50	2.8	3	0.00	0.00		0.00	0.0	00
10	-1.00	2.0	0	0.10	0.01		0.10	0.0	)1
14	-0.50	1.4	1	0.50	0.07		0.60	0.0	9
18	0.00	1.0	0	5.00	0.74		5.60	0.8	33
25	0.50	0.7	1	29.00	4.30		34.60	5.1	3
35	1.00	0.5	0	133.70	19.83	3 1	68.30	24.	96
45	1.50	0.3	5	227.50	33.74	1 3	95.80	58.	70
60	2.00	0.2	5	183.70	27.24	1 5	79.50	85.	94
80	2.50	0.1	8	72.20	10.71	1 6	51.70	96.	65
120	3.00	0.1	3	19.40	2.88	6	71.10	99.	53
170	3.50	0.0	9	1.50	0.22	6	72.60	99.	75
230	4.00	0.0	6	0.20	0.03	6	72.80	99.	78

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.42	1.96	1.80	1.37	1.00	0.77	0.48
Moment	Mean Phi	Mean mm	Sort	ting	Skewness	Kurtosis
Statistics	1.39	0.38	0.5	59	0.08	3.18

Depths and elevations based on measured values

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 965058C

Analysis Date: 01-28-11

Analyzed By: JR

Easting (ft):

AMERICAN VIBRACORE SERVICES

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

Northing (ft): Coordinate System: Elevation (ft):

954067. 965328.

-0.6 NAVD 88 Florida State Plane East Munsell: USCS: Comments: SP Wet - 10 YR-5/1 Organics (%): Carbonates (%): Shells (%): Dry Weight (g): Wash Weight (g): Pan Retained (g): Sieve Loss (%): Fines (%): #230 - 0.88 0.00 453.10 449.10 0.00 0.00 71.80 Cum. Grams C. % Weight Sieve Size Sieve Size Grams % Weight Sieve Number Retained Retained Retained (Phi) (Millimeters) Retained 0.00 0.00 3/4" -4.250.00 19.03 0.00 0.00 0.00 5/8" -4.0016.00 0.00 3.5 -2.505.66 0.00 0.00 0.00 0.00 0.00 4 -2.254.76 0.00 0.00 0.00 0.00 0.00 0.00 5 -2.004.00 0.00 0.04 7 0.04 0.20 -1.502.83 0.20 1.00 0.22 10 -1.002.00 0.80 0.18 -0.50 1.41 4.10 0.90 5.10 1.13 14 18 0.00 1.00 15.10 3.33 20.20 4.46 63.20 13.95 25 0.50 0.71 43.00 9.49 1.00 0.50 107.80 171.00 37.74 35 23.79 316.90 69.94 1.50 0.35 145.90 32.20 45 0.25 97.10 21.43 414.00 91.37 60 2.00 80 2.50 0.18 27.20 6.00 441.20 97.37 448.30 98.94 7.10 1.57 120 3.00 0.13 3.50 449.00 99.10 170 0.09 0.70 0.15 230 0.02 449.10 99.12 4.00 0.06 0.10

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.30	1.83	1.62	1.19	0.73	0.54	0.03
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	1.16	0.45	0.0	66	-0.25	3.59

JUPITER ISLAND 10 - BEACH SAMPLES.GPJ FL DEP ROSS.GDT 5/2/11

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 965058D

Analysis Date: 01-28-11

Analyzed By: JR

AMERICAN VIBRACORE SERVICES

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Easting (ft): Northing (ft): Coordinate System: Elevation (ft):

954088. 965336. -4.6 NAVD 88 Florida State Plane East

USCS: Munsell: Comments:

Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%);	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
676.10	670.20	0.00	0.00	#230 - 0.87		86.30	3.62
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weigh Retained		Grams ( ained	C. % Weigh Retained
3/4"	-4.25	19.03		1.76	11	1.90	1.76
5/8"	-4.00	16.00	2.40	0.35	14	4.30	2.12
3.5	-2.50	5.66	8.30	1.23	22	2.60	3.34
4	-2.25	4.76	1.90	0.28	24	4.50	3.62
5	-2.00	4.00	3.20	0.47	27	7.70	4.10
7	-1.50	2.83	10.70	1.58	38	3.40	5.68
10	-1.00	2.00	21.40	3.17	59	9.80	8.84
14	-0.50	1.41	59.00	8.73	11	8.80	17.57
18	0.00	1.00	115.90	17.14	23	4.70	34.71
25	0.50	0.71	157.90	23.35	39	2.60	58.07
35	1.00	0.50	153.60	22.72	54	6.20	80.79
45	1.50	0.35	84.90	12.56	63	1.10	93.34
60	2.00	0.25	27.10	4.01	65	8.20	97.35
80	2.50	0.18	6.70	0.99	66	4.90	98.34
120	3.00	0.13	4.20	0.62	66	9.10	98.96
170	3.50	0.09	0.90	0.13	67	0.00	99.10
230	4.00	0.06	0.20	0.03	67	0.20	99.13
			22 22/				
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Pł	ni 84	Phi 95
1.71	1.13	0.87	0.33	-0.28	-(	0.59	-1.72
Moment	Mean Phi	Mean n	nm S	orting	Skewnes	ss	Kurtosis
Statistics	0.18	0.88		0.95	-0.67		5.65

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
1.71	1.13	0.87	0.33	-0.28	-0.59	-1.72
Moment	Mean Phi	Mean mm	Sort	ing	Skewness	Kurtosis
Statistics	0.18	0.88	0.9	95	-0.67	5.65

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 965058E

Analysis Date: 01-28-11

Analyzed By: JR

Easting (ft):

Northing (ft): Coordinate System: American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444 Elevation (ft):

AMERICAN VIBRACORE

954218	3.	96539	1.	Florid	a State Plane	- Fast	-8.6	NAVD	88
uscs:	Munsell:	Vet - 10 YR-5/1	Commer		a orate i lant	, Luni			
Dry Weight (g):	Wash Weight (g):	Pan Retained	(g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates	(%): Shell	s (%):
680.50	674.70	0.0	0	0.00	#230 - 0.8	5	72.2	0	0.00
Sieve Number	Sieve Siz (Phi)	e Sieve (Millime		Grams Retained	% Weig Retaine		n. Grams etained	C. % N	Weigh ained
3/4"	-4.25	19.0	03		0.00		0.00	0.	00
5/8"	-4.00	16.0	00	0.00	0.00		0.00	0.	00
3.5	-2.50	5.6	6	0.00	0.00		0.00	0.	00
4	-2.25	4.7	6	0.00	0.00		0.00	0.	00
5	-2.00	4.0	0	0.00	0.00		0.00	0.	00
7	-1.50	2.8	3	0.30	0.04		0.30	0.	04
10	-1.00	2.0	0	2.40	0.35		2.70	0.	40
14	-0.50	1.4	1	18.10	2.66		20.80	3.	06
18	0.00	1.0	0	58.40	8.58		79.20	11	.64
25	0.50	0.7	1	104.90	15.42	. 1	84.10	27	.05
35	1.00	0.5	0	129.80	19.07	3	13.90	46	.13
45	1.50	0.3	5	116.50	17.12	4	30.40	63	.25
60	2.00	0.2	5	118.40	17.40		48.80	80	.65
80	2.50	0.1	8	78.50	11.54	6	27.30	92	.18
120	3.00	0.1	3	38.20	5.61	6	65.50	97	.80
170	3.50	0.0	9	9.00	1.32	6	74.50	99	.12
230	4.00	0.0	6	0.20	0.03	6	74.70	99	.15

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.75	2.15	1.84	1.11	0.43	0.14	-0.39
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	1.12	0.46	0.9	93	0.03	2.41

Depths and elevations based on measured values

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 970641A

Analysis Date: 01-14-11

Analyzed By: JR

Easting (ft):

Northing (ft): Coordinate System: American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

SERVICES

BRACORE

Elevation (ft):

**AMERICAN** 

7.4 NAVD 88 Florida State Plane East

952745. 970844. USCS: Munsell: Comments: SP Wet - 10 YR-4/1 Pan Retained (g): Organics (%): Carbonates (%): Dry Weight (g): Wash Weight (g): Sieve Loss (%): Fines (%): Shells (%): 548.60 0.00 0.02 #230 - 0.40 0.89 550.70 % Weight Cum. Grams C. % Weight Sieve Size Sieve Size Grams Sieve Number (Phi) (Millimeters) Retained Retained Retained Retained 0.00 3/4" -4.2519.03 0.00 0.00 5/8" -4.0016.00 0.00 0.00 0.00 0.00 5.66 0.56 3.10 0.56 -2.503.10 3.5 4.76 1.80 0.33 4.90 0.89 4 -2.255 -2.00 4.00 0.30 0.05 5.20 0.94 7 -1.502.83 2.80 0.51 8.00 1.45 -1.002.00 5.90 1.07 13.90 2.52 10 1.41 11.20 2.03 25.10 4.56 14 -0.501.00 24.30 4.41 49.40 8.97 18 0.00 25 0.50 0.71 52.10 9.46 101.50 18.43 112.20 20.37 213.70 38.81 35 1.00 0.50 70.38 1.50 0.35 173.90 31.58 387.60 45 24.08 520.20 94.46 60 2.00 0.25 132.60 80 2.50 0.18 25.80 4.68 546.00 99.15 120 3.00 0.13 2.20 0.40 548.20 99.55 548.40 170 3.50 0.09 0.20 0.04 99.58 99.60 230 4.00 0.06 0.10 0.02 548.50

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.06	1.78	1.60	1.18	0.66	0.37	-0.45
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	1.04	0.49	0.8	32	-1.6	7.81

JUPITER ISLAND 10 - BEACH SAMPLES.GPJ FL DEP ROSS.GDT

5/2/11

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 970641B

Analysis Date: 01-14-11

Analyzed By: JR

AMERICAN VIBRACORE SERVICES

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Easting (ft):		Northing (	(ft):	Coordinate Syste	m:		Elevation (ft):	
952884			970902.		a State Plane	East	3.4	NAVD 88
USCS:	Munsel	:	Commer	nts:				
SP		30 14-25	10 YR-5/1	I was a second	1 1			The same and the s
Dry Weight (g):	Wash Weight (g		Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates	
704.10	700.0	0	0.00	0.00	#230 - 0.58			0.00
Sieve Number	Sieve S (Phi		Sieve Size (Millimeters)	Grams Retained	% Weigh Retained		. Grams tained	C. % Weigh Retained
3/4"	-4.25	5	19.03		0.00		0.00	0.00
5/8"	-4.00	)	16.00	0.00	0.00		0.00	0.00
3.5	-2.50	)	5.66	0.00	0.00		0.00	0.00
4	-2.25	5	4.76	0.00	0.00		0.00	0.00
5	-2.00	)	4.00	0.00	0.00	(	0.00	0.00
7	-1.50	)	2.83	0.40	0.06		0.40	0.06
10	-1.00	)	2.00	0.50	0.07		0.90	0.13
14	-0.50	)	1.41	4.10	0.58		5.00	0.71
18	0.00	Y	1.00	21.60	3.07	2	6.60	3.78
25	0.50		0.71	87.20	12.38	1	13.80	16.16
35	1.00		0.50	210.40	29.88	32	24.20	46.04
45	1.50		0.35	215.10	30.55	53	39.30	76.59
60	2.00		0.25	124.30	17.65	66	33.60	94.25
80	2.50		0.18	33.00	4.69	69	96.60	98.93
120	3.00		0.13	3.20	0.45	69	99.80	99.39
170	3.50	V.	0.09	0.10	0.01	69	99.90	99.40
230	4.00		0.06	0.10	0.01	70	00.00	99.42

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.08	1.71	1.47	1.06	0.65	0.49	0.05
Moment	Mean Phi	Mean mm	n Sor	ting	Skewness	Kurtosis
Statistics	1.06	0.48	0.	61	-0.14	3.31

Depths and elevations based on measured values

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 970641C

Analysis Date: 01-14-11

Analyzed By: JR



American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

Easting (ft): Northing (ft): Coordinate System: Elevation (ft):

970912. -0.6 NAVD 88 952908.

Florida State Plane East USCS: Munsell: Comments: SP Wet - 10 YR-5/1 Dry Weight (g): Organics (%): Wash Weight (g): Pan Retained (g): Sieve Loss (%): Fines (%): Carbonates (%): Shells (%): 493.20 487.30 0.00 0.00 #230 - 1.20 0.00 Sieve Size % Weight Cum. Grams C. % Weight Sieve Size Grams Sieve Number Retained Retained Retained Retained (Phi) (Millimeters) 3/4" -4.2519.03 0.00 0.00 0.00 5/8" -4.00 16.00 0.00 0.00 0.00 0.00 -2.505.66 0.00 0.00 3.5 0.00 0.00 4.76 0.00 0.00 4 -2.250.00 0.00 0.00 5 -2.004.00 0.00 0.00 0.00 7 -1.502.83 0.00 0.00 0.00 0.00 2.00 0.00 0.00 0.00 10 -1.000.00 0.06 14 -0.501.41 0.30 0.06 0.30 0.00 1.00 18 0.60 0.12 0.90 0.18 0.50 0.71 1.50 0.30 2.40 0.49 25 35 1.00 0.50 4.70 0.95 7.10 1.44 22.30 4.52 45 1.50 0.35 15.20 3.08 21.78 129.70 26.30 60 2.00 0.25 107.40 80 2.50 0.18 245.90 49.86 375.60 76.16 120 3.00 0.13 90.60 466.20 94.53 18.37 170 3.50 0.09 19.60 3.97 485.80 98.50 230 4.00 0.06 1.50 0.30 487.30 98.80

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.06	2.71	2.49	2.24	1.97	1.76	1.51
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	2.22	0.21	0.4	18	-0.54	5.87

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 970641D

Analysis Date: 01-18-11

Analyzed By: JR

Easting (ft):

Northing (ft): Coordinate System:

Elevation (ft):

AMERICAN VIBRACORE

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

952966	3.	970937.	Florid	a State Plane Ea	st	-4.6 N	AVD 88
uscs:	Munsell:	- 10 YR-5/2					
Dry Weight (g): 707.40	Wash Weight (g): 699.20	Pan Retained (g): 0.00	Sieve Loss (%):	Fines (%): Orga #230 - 1.17	anics (%): Ca	rbonates (%):	Shells (%): 1.03
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Gra Retaine		C. % Weight Retained
3/4"	-4.25	19.03		0.00	0.00		0.00
5/8"	-4.00	16.00	0.00	0.00	0.00		0.00
3.5	-2.50	5.66	6.10	0.86	6.10		0.86
4	-2.25	4.76	1.20	0.17	7.30		1.03
5	-2.00	4.00	1.90	0.27	9.20		1.30
7	-1.50	2.83	9.20	1.30	18.40	)	2.60
10	-1.00	2.00	26.10	3.69	44.50	)	6.29
14	-0.50	1,41	79.70	11.27	124.2	0	17.56
18	0.00	1.00	168.20	23.78	292.4	0	41.33
25	0.50	0.71	211.70	29.93	504.1	0	71.26
35	1.00	0.50	132.10	18.67	636.2	0	89.93
45	1.50	0.35	42.20	5.97	678.4	0	95.90
60	2.00	0.25	13.90	1.96	692.3	0	97.87
80	2.50	0.18	5.10	0.72	697.4	0	98.59
120	3.00	0.13	1.20	0.17	698.6	0	98.76
170	3.50	0.09	0.40	0.06	699.0	0	98.81
230	4.00	0.06	0.10	0.01	699.1	0	98.83

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
1.42	0.84	0.60	0.14	-0.34	-0.57	-1.17
Moment	Mean Phi	Mean mm	Sort	ting	Skewness	Kurtosis
Statistics	0.1	0.93	0.7	79	-0.56	5.65

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 970641E

Analysis Date: 01-18-11

Analyzed By: JR

Easting (ft):

Northing (ft):

**AMERICAN VIBRACORE** SERVICES

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

Elevation (ft): Coordinate System:

953115. 970999. -8 6 NAVD 88

Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%	%): Shells (%):	
635.90	629.30	0.10	0.00	#230 - 1.05			0.00	
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weigh Retained	Control of the Contro	Grams ained	C. % Weigh Retained	
3/4"	-4.25	19.03		0.00	0	.00	0.00	
5/8"	-4.00	16.00	0.00	0.00	0	.00	0.00	
3.5	-2.50	5.66	0.00	0.00	0	.00	0.00	
4	-2.25	4.76	0.00	0.00	0	.00	0.00	
5	-2.00	4.00	0.00	0.00	0	.00	0.00	
7	-1.50	2.83	0.00	0.00	0	.00	0.00	
10	-1.00	-1.00 2.00 0.40 0.06		0	.40	0.06		
14	-0.50	1.41	1.80	0.28	2	.20	0.35	
18	0.00	1.00	7.10	1.12	9	.30	1.46	
25	0.50	0.71	18.40	2.89	2	7.70	4.36	
35	1.00	0.50	40.30	6.34	68	8.00	10.69	
45	1.50	0.35	67.10	10.55	13	5.10	21.25	
60	2.00	0.25	197.00	30.98	33	2.10	52.23	
80	2.50	0.18	224.10	35.24	55	6.20	87.47	
120	3.00	0.13	57.20	9.00	61	3.40	96.46	
170	3.50	0.09	14.30	2.25	62	7.70	98.71	
230	4.00	0.06	1.50	0.24	62	9.20	98.95	

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.92	2.45	2.32	1.96	1.56	1.25	0.55
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	1.86	0.28	0.0	67	-0.84	4.44

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 976899A

Analysis Date: 01-27-11

Analyzed By: JR

AMERICAN VIBRACORE

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Easting (ft):	Northing	(ft):	Coordinate Syste	m:		Elevation (ft):	
951051.		977074.	Florid	a State Plane	East	7.4	NAVD 88
uscs:	Munsell: Wet -	10 YR-4/1					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates	(%): Shells (%):
666.00	665.50	0.00	0.00	#230 - 0.08		63.40	0.00
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained		. Grams tained	C. % Weig Retained
3/4"	-4.25	19.03		0.00	(	0.00	0.00
5/8"	-4.00	16.00	0.00	0.00	(	0.00	0.00
3.5	-2.50	5.66	0.00	0.00	(	0.00	0.00
4	-2.25	4.76	0.00	0.00	(	0.00	0.00
5	-2.00	4.00	0.00	0.00	(	0.00	0.00
7	-1.50	2.83	0.00	0.00	(	0.00	0.00
10	-1.00	2.00	0.10	0.02		0.10	0.02
14	-0.50	1.41	0.30	0.05	(	0.40	0.06
18	0.00	1.00	2.80	0.42	3	3.20	0.48
25	0.50	0.71	14.60	2.19	1	7.80	2.67
35	1.00	0.50	78.00	11.71	9	5.80	14.38
45	1.50	0.35	257.30	38.63	35	53.10	53.02
60	2.00	0.25	260.40	39.10	6	13.50	92.12
80	2.50	0.18	48.10	7.22	66	61.60	99.34
120	3.00	0.13	3.70	0.56	66	35.30	99.89
170	3.50	0.09	0.10	0.02	66	65.40	99.91
230	4.00	0.06	0.10	0.02	66	35.50	99.92

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.20	1.90	1.78	1.46	1.14	1.02	0.60
Moment	Mean Phi	Mean mm	Sort	ing	Skewness	Kurtosis
Statistics	1.44	0.37	0.4	16	-0.41	4.02

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 976899B

Analysis Date: 01-27-11

Analyzed By: JR

Northing (ft):

AMERICAN VIBRACORE

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Easting (ft): Coordinate System: Elevation (ft):

951070 3.4 NAVD 88

951070	0.	977082.	Florid	la State Plane I	East	3.4	NA	VD 88
uscs:	Munsell: Wet	- 10 YR-4/1						
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates	(%):	Shells (%):
542.90	542.10	0.10	0.02	#230 - 0.18		66.8	0	0.00
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained		Grams tained		% Weight Retained
3/4"	-4.25	19.03		0.00	0	0.00		0.00
5/8"	-4.00	16.00	0.00	0.00	C	0.00		0.00
3.5	-2.50	5.66	0.00	0.00	C	0.00		0.00
4	-2.25	4.76	0.00	0.00	C	0.00		0.00
5	-2.00	4.00	0.20	0.04	C	0.20		0.04
7	-1.50	2.83	0.10	0.02	C	0.30		0.06
10	-1.00	2.00	0.40	0.07	C	0.70		0.13
14	-0.50	1.41	1.20	0.22	1	.90		0.35
18	0.00	1.00	5.10	0.94	7	7.00		1.29
25	0.50	0.71	20.60	3.79	2	7.60		5.08
35	1.00	0.50	78.40	14.44	10	6.00		19.52
45	1.50	0.35	190.00	35.00	29	96.00		54.52
60	2.00	0.25	189.10	34.83	48	35.10		89.35
80	2.50	0.18	46.40	8.55	53	31.50		97.90
120	3.00	0.13	7.80	1.44	53	39.30		99.34
170	3.50	0.09	1.40	0.26	54	10.70		99.59
230	4.00	0.06	1.20	0.22	54	1.90		99.82

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.33	1.92	1.79	1.44	1.08	0.88	0.49
Moment	Mean Phi	Mean mm	Sorting Skewr		Skewness	Kurtosis
Statistics	1.41	0.38	0.5	56	-0.33	5.11

Depths and elevations based on measured values

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 976899C

Analysis Date: 01-27-11

Analyzed By: JR



American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Easting (ft): Northing (ft): Coordinate System: Elevation (ft): 951115. 977101. -0.6 NAVD 88 Florida State Plane East USCS: Munsell: Comments: SP Wet - 10 YR-4/1 Dry Weight (g): Wash Weight (g): Pan Retained (g): Sieve Loss (%): Fines (%): Organics (%): Carbonates (%): Shells (%): 531.10 0.00 0.00 #230 - 0.62 62.60 0.00 534.40 Cum. Grams Sieve Size Sieve Size Grams % Weight C. % Weight Sieve Number (Phi) (Millimeters) Retained Retained Retained Retained 3/4" -4.2519.03 0.00 0.00 0.00 5/8" -4.0016.00 0.00 0.00 0.00 0.00 3.5 -2.505.66 0.00 0.00 0.00 0.00 4 -2.254.76 0.00 0.00 0.00 0.00 5 -2.004.00 0.00 0.00 0.00 0.00 7 -1.502.83 0.00 0.00 0.00 0.00 10 -1.002.00 0.50 0.09 0.50 0.09 14 -0.501.41 2.50 0.47 2.00 0.37 8.10 18 0.00 1.00 1.52 10.60 1.98 0.50 0.71 25 30.30 5.67 40.90 7.65 35 1.00 0.50 72.40 13.55 113.30 21.20 45 1.50 0.35 96.20 18.00 209.50 39.20 60 2.00 0.25 200.80 37.57 410.30 76.78 80 2.50 0.18 104.60 19.57 514.90 96.35 120 3.00 0.13 15.80 2.96 530.70 99.31 170 3.50 0.09 0.30 0.06 531.00 99.36 230 4.00 0.06 0.10 0.02 531.10 99.38

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.47	2.18	1.98	1.64	1.11	0.81	0.27
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	1.52	0.35	0.0	66	-0.69	3.42

Depths and elevations based on measured values

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 976899D

Analysis Date: 01-27-11

Analyzed By: JR

BRACORE AMERICAN' SERVICES

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Elevation (ft): Easting (ft): Northing (ft): Coordinate System:

977111. -4.6 NAVD 88 951139.

Florida State Plane East USCS: Munsell: Comments: SW Wet - 10 YR-4/1 Fines (%): Organics (%): Carbonates (%): Shells (%): Pan Retained (g): Sieve Loss (%): Dry Weight (g): Wash Weight (g): 664.50 0.00 0.00 #230 - 0.76 85.70 2.66 669.60 % Weight Cum. Grams C. % Weight Sieve Size Sieve Size Grams Sieve Number Retained (Millimeters) Retained Retained Retained (Phi) 0.00 0.00 3/4" -4.2519.03 0.00 0.00 0.00 0.00 16.00 0.00 5/8" -4.0012.70 1.90 12.70 1.90 -2.505.66 3.5 4.76 5.10 0.76 17.80 2.66 4 -2.253.84 5 -2.004.00 7.90 1.18 25.70 6.85 20.20 3.02 45.90 7 -1.502.83 2.00 33.70 5.03 79.60 11.89 10 -1.0010.39 149.20 22.28 1.41 69.60 14 -0.501.00 112.20 16.76 261.40 39.04 18 0.00 25 0.50 0.71 144.00 21.51 405.40 60.54 17.74 524.20 78.29 118.80 35 1.00 0.50 PITER ISLAND 10 - BEACH SAMPLES.GPJ FL DEP ROSS.GDT 5/2/11 8.35 580.10 86.63 1.50 0.35 55.90 45 625.20 93.37 2.00 6.74 60 0.25 45.10 2.50 0.18 29.70 4.44 654.90 97.80 80 99.15 120 3.00 0.13 9.00 1.34 663.90 99.22 0.07 664.40 170 3.50 0.09 0.50 664.50 99.24 0.10 0.01 230 4.00 0.06

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.18	1.34	0.91	0.25	-0.42	-0.80	-1.81
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	0.21	0.86	1.	14	-0.39	3.69

Depths and elevations based on measured values

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 976899E

Analysis Date: 01-27-11

Analyzed By: JR

Easting (ft):

Northing (ft):

AMERIC/ SERVICES

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Coordinate System: Elevation (ft):

-8.6 NAVD 88 951165. 977122.

Florida State Plane East USCS: Comments: Munsell: SP Wet - 10 YR-5/1 Organics (%): Carbonates (%): Dry Weight (g): Wash Weight (g): Pan Retained (g): Sieve Loss (%): Fines (%): Shells (%): 0.00 580.90 0.00 0.00 #230 - 0.70 50.60 585.00 C. % Weight % Weight Cum. Grams Sieve Size Sieve Size Grams Sieve Number Retained Retained Retained (Phi) (Millimeters) Retained -4.2519.03 0.00 0.00 0.00 3/4" 5/8" -4.0016.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 -2.505.66 0.00 3.5 0.00 0.00 -2.254.76 0.00 0.00 4 0.00 4.00 0.00 0.00 0.00 5 -2.007 -1.502.83 0.10 0.02 0.10 0.02 0.10 0.70 0.12 10 -1.002.00 0.60 2.30 0.39 1.41 1.60 0.27 14 -0.504.20 1.00 0.72 6.50 1.11 18 0.00 0.71 8.40 1.44 14.90 2.55 0.50 25 35 1.00 0.50 19.90 3.40 34.80 5.95 45 1.50 0.35 64.10 10.96 98.90 16.91 57.16 60 2.00 0.25 235.50 40.26 334.40 0.18 167.70 28.67 502.10 85.83 80 2.50 11.08 566.90 96.91 120 3.00 0.13 64.80 170 3.50 0.09 13.80 2.36 580.70 99.26 230 4.00 0.06 0.20 0.03 580.90 99.30

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.91	2.47	2.31	1.91	1.60	1.46	0.86
Moment	Mean Phi	Mean mm	n Sor	ting	Skewness	Kurtosis
Statistics	1.91	0.27	0.0	61	-0.8	5.66

JPITER ISLAND 10 - BEACH SAMPLES.GPJ FL DEP ROSS.GDT

Depths and elevations based on measured values

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 983302A

Analysis Date: 01-12-11

Analyzed By: JR

Northing (ft):

SERVICES

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

Easting (ft): Coordinate System: Elevation (ft): 983453. 7.4 NAVD 88 948679. Florida State Plane East USCS: Munsell: Comments: SP Wet - 10 YR-4/1 Organics (%): Carbonates (%): Shells (%): Dry Weight (g): Wash Weight (g): Pan Retained (g): Sieve Loss (%): Fines (%): 598.10 0.00 0.00 #230 - 0.02 0.33 598.20 Sieve Size Cum. Grams C. % Weight Sieve Size Grams % Weight Sieve Number (Millimeters) Retained Retained Retained Retained (Phi) 3/4" -4.2519.03 0.00 0.00 0.00 0.13 0.13 0.80 5/8" -4.0016.00 0.80 1.50 0.25 -2.505.66 0.70 0.12 3.5 2.00 0.33 -2.254.76 0.50 0.08 4 -2.004.00 0.60 0.10 2.60 0.43 5 7 -1.502.83 1.30 0.22 3.90 0.65 0.84 8.90 1.49 10 -1.002.00 5.00 5.28 1.41 22.70 3.79 31.60 14 -0.501.00 80.00 13.37 111.60 18.66 18 0.00 25 0.50 0.71 132.10 22.08 243.70 40.74 71.20 35 1.00 0.50 182.20 30.46 425.90 0.35 1.50 137.50 22.99 563.40 94.18 45 0.25 33.20 2.00 5.55 596.60 99.73 60 0.18 1.10 0.18 597.70 99.92 80 2.50 120 3.00 0.13 0.10 0.02 597.80 99.93

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
1.57	1.28	1.08	0.65	0.14	-0.10	-0.54	
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis	
Statistics	0.58	0.67	0.0	69	-0.96	6.79	

0.10

0.20

0.02

0.03

597.90

598.10

99.95

99.98

GRANULARMETRIC REPORT JUPITER ISLAND 10 - BEACH SAMPLES.GPJ FL DEP ROSS.GDT 5/2/11

170

230

3.50

4.00

0.09

0.06

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 983302B

Analysis Date: 01-12-11

Analyzed By: JR

**AMERICAN VIBRACORE** SERVICES

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

Easting (ft): Northing (ft): Coordinate System: Elevation (ft): 3.4 NAVD 88 948722. 983471. Florida State Plane East USCS: Munsell: Comments:

Dry Weight (g): 665.60	Wash Weight (g): 665.60	Pan Retained (g): 0.00	Sieve Loss (%): 0.00	Fines (%): #230 - 0.00	Organics (%):	Carbonates (9	%): Shells (%): 0.09
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weig Retaine	ht Cum	n. Grams etained	C. % Weight
3/4"	-4.25	19.03		0.00		0.00	0.00
5/8"	-4.00	16.00	0.00	0.00		0.00	0.00
3.5	-2.50	5.66	0.00	0.00		0.00	0.00
4	-2.25	4.76	0.60	0.09		0.60	0.09
5	-2.00	4.00	0.30	0.05		0.90	0.14
7	-1.50	2.83	0.20	0.03		1.10	0.17
10	-1.00	2.00	0.70	0.11		1.80	
14	-0.50	1.41	1.40	0.21		3.20	0.48
18	0.00	1.00	5.70	0.86		8.90	1.34
25	0.50	0.71	24.50	3.68	3	33.40	5.02
35	1.00	0.50	152.50	22.91	1	85.90	27.93
45	1.50	0.35	315.20	47.36	5	01.10	75.29
60	2.00	0.25	154.00	23.14	6	55.10	98.42
80	2.50	0.18	8.10	1.22	6	63.20	99.64
120	3.00	0.13	0.50	0.08	6	63.70	99.71
170	3.50	0.09	1.70	0.26	6	65.40	99.97
230	4.00	0.06	0.20	0.03	6	65.60	100.00

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
1.93	1.69	1.50	1.23	0.94	0.74	0.50	
Moment	Mean Phi	Mean mm	Sor	ing	Skewness	Kurtosis	
Statistics	1.21	0.43	0.4	18	-0.89	8.91	

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 983302C

Analysis Date: 01-14-11

Analyzed By: JR



American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

Elevation (ft): Easting (ft): Northing (ft): Coordinate System:

-0.6 NAVD 88 983479 9/87/2

SP Dry Weight (g):	Wash Weight (g):	- 10 YR-4/1 Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (	%): Shells	(%):
820.10	813.40	0.00	0.00	#230 - 0.82			C	0.11
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters		% Weight Retained	t Cum. Ret	Grams ained	C. % W Retai	
3/4"	-4.25	19.03		0.00	0	.00	0.0	00
5/8"	-4.00	16.00	0.00	0.00	0	.00	0.0	00
3.5	-2.50	5.66	0.70	0.09	0	.70	0.0	)9
4	-2.25	4.76	0.20	0.02	0	.90	0.1	11
5	-2.00	4.00	0.70	0.09	1	1.60		20
7	-1.50	2.83	1.70	0.21	3	3.30		40
10	-1.00	2.00	4.50	0.55	7	'.80	0.9	95
14	-0.50	1.41	15.80	1.93	23	3.60	2.8	38
18	0.00	1.00	51.60	6.29	7:	5.20	9.1	17
25	0.50	0.71	175.60	21.41	25	08.00	30.	58
35	1.00	0.50	403.40	49.19	65	64.20	79.	77
45	1.50	0.35	147.90	18.03	80	2.10	97.	81
60	2.00	0.25	10.40	1.27	81	2.50	99.	07
80	2.50	0.18	0.20	0.02	81	2.70	99.	10
120	3.00	0.13	0.20	0.02	81	2.90	99.	12
170	3.50	0.09	0.10	0.01	81	3.00	99.	13
230	4.00	0.06	0.40	0.05	81	3.40	99.	18

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
1.42	1.12	0.95	0.70	0.37	0.16	-0.33
Moment	Mean Phi	Mean mm	Sort	ing	Skewness	Kurtosis
Statistics	0.63	0.65	0.5	52	-1.18	8.48

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 983302D

Analysis Date: 01-14-11

Analyzed By: JR

Easting (ft):

Northing (ft): Coordinate System: Elevation (ft):

AMERICAN VIBRACORE

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

948763	3.	983488.	Florid	a State Plane	Fast	-4.6	NAVD 88
uscs: SW	Munsell:	- 10 YR-4/2		o vidio i inite			
Dry Weight (g): 693,50	Wash Weight (g): 688.20	Pan Retained (g): 0.00	Sieve Loss (%):	Fines (%): #230 - 0.76	Organics (%):	Carbonates (9	%): Shells (%):
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained		Grams ained	C. % Weigh Retained
3/4"	-4.25	19.03		4.77	33	3.10	4.77
5/8"	-4.00	16.00	2.20	0.32	35	5.30	5.09
3.5	-2.50	5.66	87.70	12.65	12	3.00	17.74
4	-2.25	4.76	14.20	2.05	13	7.20	19.78
5	-2.00	4.00	16.70	2.41	15	3.90	22.19
7	-1.50	2.83	33.20	4.79	18	7.10	26.98
10	-1.00	2.00	32.70	4.72	21	9.80	31.69
14	-0.50	1.41	52.30	7.54	27	2.10	39.24
18	0.00	1.00	95.70	13.80	36	7.80	53.04
25	0.50	0.71	131.80	19.01	49	9.60	72.04
35	1.00	0.50	125.40	18.08	62	5.00	90.12
45	1.50	0.35	54.80	7.90	67	9.80	98.02
60	2.00	0.25	7.80	1.12	68	7.60	99.15
80	2.50	0.18	0.30	0.04	68	7.90	99.19
120	3.00	0.13	0.10	0.01	68	8.00	99.21
170	3.50	0.09	0.10	0.01	68	8.10	99.22
230	4.00	0.06	0.10	0.01	68	8.20	99.24

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
1.31	0.83	0.58	-0.11	-1.71	-2.71	-4.07
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	-0.67	1.59	1.	41	-0.4	2.25

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 983302E

Analysis Date: 01-14-11

Analyzed By: JR



American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Easting (ft): Northing (ft): Coordinate System: Elevation (ft): 948869. 983532. -8.6 NAVD 88 Florida State Plane East

Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%)	
770.80	763.90	0.10	0.00	#230 - 0.91			0.00
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained		Grams ined	C. % Weight Retained
3/4"	-4.25	19.03		0.00	0.	00	0.00
5/8"	-4.00	16.00	0.00	0.00	0.	00	0.00
3.5	-2.50	5.66	0.00	0.00	0.	00	0.00
4	-2.25	4.76	0.00	0.00	0.	00	0.00
5	-2.00	4.00	0.00	0.00	0.	00	0.00
7	-1.50	2.83	0.10	0.01	0.	10	0.01
10	-1.00	2.00	0.20	0.03	0.	30	0.04
14	-0.50	1.41	3.70	0.48	4.	00	0.52
18	0.00	1.00	26.30	3.41	30	.30	3.93
25	0.50	0.71	86.10	11.17	116	6.40	15.10
35	1.00	0.50	201.40	26.13	317	7.80	41.23
45	1.50	0.35	295.30	38.31	613	3.10	79.54
60	2.00	0.25	135.20	17.54	748	3.30	97.08
80	2.50	0.18	12.10	1.57	760	0.40	98.65
120	3.00	0.13	1.50	0.19	761	1.90	98.85
170	3.50	0.09	1.60	0.21	763	3.50	99.05
230	4.00	0.06	0.30	0.04	763	3.80	99.09

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
1.94	1.63	1.44	1.11	0.69	0.52	0.05
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	1.06	0.48	0.	56	-0.28	3.77

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 988526A

Analysis Date: 01-26-11

Analyzed By: JR



American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

Easting (ft): Northing (ft): Coordinate System: Elevation (ft): 946672. 988683. 7.4 NAVD 88 Florida State Plane East

USCS:	Munsell:	Comme	nts:				
SP		- 10 YR-4/1	Towns	T- T-	To the same of the		Tan want
Dry Weight (g): 597.20	Wash Weight (g): 597.10	Pan Retained (g): 0.00	Sieve Loss (%): 0.02	Fines (%): #230 - 0.03	Organics (%):	67.20	Shells (%): 0.00
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. C Retai		C. % Weight Retained
3/4"	-4.25	19.03		0.00	0.0	00	0.00
5/8"	-4.00	16.00	0.00	0.00	0.0	00	0.00
3.5	-2.50	5.66	0.00	0.00	0.0	00	0.00
4	-2.25	4.76	0.00	0.00	0.0	00	0.00
5	-2.00	4.00	0.20	0.03	0.2	20	0.03
7	-1.50	2.83	0.29	0.05	0.4	19	0.08
10	-1.00	2.00	0.33	0.06	0.8	32	0.14
14	-0.50	1.41	0.79	0.13	1.6	31	0.27
18	0.00	1.00	3.04	0.51	4.6	35	0.78
25	0.50	0.71	15.45	2.59	20.	10	3.37
35	1.00	0.50	88.89	14.88	108.	.99	18.25
45	1.50	0.35	279.95	46.88	388.	.94	65.13
60	2.00	0.25	182.08	30.49	571.	.02	95.62
80	2.50	0.18	22.11	3.70	593	.13	99.32
120	3.00	0.13	2.11	0.35	595	.24	99.67
170	3.50	0.09	1.58	0.26	596	.82	99.94
230	4.00	0.06	0.19	0.03	597	.01	99.97

35	1.00	0.50	88.89	14.88	108.99	18.25
45	1.50	0.35	279.95	46.88	388.94	65.13
60	2.00	0.25	182.08	30.49	571.02	95.62
80	2.50	0.18	22.11	3.70	593.13	99.32
120	3.00	0.13	2.11	0.35	595.24	99.67
170	3.50	0.09	1.58	0.26	596.82	99.94
230	4.00	0.06	0.19	0.03	597.01	99.97
					I was	
				Phi 75	Phi 84	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
				Phi 75 1.07	Phi 84 0.92	
Phi 5	Phi 16	Phi 25	Phi 50	1.07	1 1111111111111111111111111111111111111	Phi 95

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 988526B

Analysis Date: 01-26-11

Analyzed By: JR

Easting (ft):

Northing (ft):



American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

Coordinate System: Elevation (ft):

946714. 3.4 NAVD 88 988701. Florida State Plane Fact

946/14	ł.	988701.	Florid	a State Plane F	ast	3.4 N/	4VD 88
uscs:	Munsell: Wet	- 10 YR-5/1					
Dry Weight (g): 630.50	Wash Weight (g): 628.10	Pan Retained (g):	Sieve Loss (%): 0.00	Fines (%): C	Organics (%):	Carbonates (%): 69.80	Shells (%): 20.21
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. ( Reta		C. % Weight Retained
3/4"	-4.25	19.03		0.00	0.0	00	0.00
5/8"	-4.00	16.00	2.80	0.44	2.8	30	0.44
3.5	-2.50	5.66	104.50	16.57	107	.30	17.02
4	-2.25	4.76	20.10	3.19	127	.40	20.21
5	-2.00	4.00	27.40	4.35	154	.80	24.55
7	-1.50	2.83	59.40	9.42	214	.20	33.97
10	-1.00	2.00	69.50	11.02	283	.70	45.00
14	-0.50	1.41	101.10	16.03	384	.80	61.03
18	0.00	1.00	126.40	20.05	511	.20	81.08
25	0.50	0.71	86.40	13.70	597	.60	94.78
35	1.00	0.50	26.80	4.25	624	.40	99.03
45	1.50	0.35	2.70	0.43	627	.10	99.46
60	2.00	0.25	0.20	0.03	627	.30	99.49
80	2.50	0.18	0.10	0.02	627	.40	99.51
120	3.00	0.13	0.10	0.02	627	.50	99.52
170	3.50	0.09	0.30	0.05	627	.80	99.57
230	4.00	0.06	0.30	0.05	628	.10	99.62

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
0.53	0.11	-0.15	-0.84	-1.98	-2.59	-3.59
Moment	Mean Phi	Mean mm	n Sor	ting	Skewness	Kurtosis
Statistics	-1.13	2.19	1.	25	-0.45	2.33

JUPITER ISLAND 10 - BEACH SAMPLES.GPJ FL DEP ROSS.GDT 5/2/11

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 988526C

Analysis Date: 01-26-11

Analyzed By: JR

**VIBRACORE AMERICAN** SERVICES

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Elevation (ft): Easting (ft): Northing (ft): Coordinate System: 988712. -0.6 NAVD 88 946741. Florida State Plane East

USCS: Munsell: Comments:

SP	Wet	- 10 YR-5/1					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (9	%): Shells (%):
616.40	610.80	0.00	0.02	#230 - 0.92		88.30	0.06
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weigh Retained		Grams ained	C. % Weight Retained
3/4"	-4.25	19.03		0.00	0	.00	0.00
5/8"	-4.00	16.00	0.00	0.00	0	.00	0.00
3.5	-2.50	5.66	0.00	0.00	0	.00	0.00
4	-2.25	4.76	0.40	0.06	0	.40	0.06
5	-2.00	4.00	0.50	0.08	0	.90	0.15
7	-1.50	2.83	0.90	0.15	1	.80	0.29
10	-1.00	2.00	4.40	0.71	6	5.20	1.01
14	-0.50	1.41	23.20	3.76	29	9.40	4.77
18	0.00	1.00	96.90	15.72	12	6.30	20.49
25	0.50	0.71	231.10	37.49	35	7.40	57.98
35	1.00	0.50	197.80	32.09	55	5.20	90.07
45	1.50	0.35	46.40	7.53	60	1.60	97.60
60	2.00	0.25	7.10	1.15	60	8.70	98.75
80	2.50	0.18	1.30	0.21	61	0.00	98.96
120	3.00	0.13	0.30	0.05	61	0.30	99.01
170	3.50	0.09	0.30	0.05	61	0.60	99.06
230	4.00	0.06	0.10	0.02	61	0.70	99.08

35	1.00	0.50	197.80	32.09	555.20	90.07
45	1.50	0.35	46.40	7.53	601.60	97.60
60	2.00	0.25	7.10	1.15	608.70	98.75
80	2.50	0.18	1.30	0.21	610.00	98.96
120	3.00	0.13	0.30	0.05	610.30	99.01
170	3.50	0.09	0.30	0.05	610.60	99.06
230	4.00	0.06	0.10	0.02	610.70	99.08
					1	1
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	
						Phi 95
Phi 5	Phi 16	Phi 25	Phi 50 0.39	Phi 75 0.06	Phi 84	Phi 95 -0.49 Kurtosis

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 988526D

Analysis Date: 01-26-11

Analyzed By: JR

**AMERICAN VIBRACORE** SERVICES

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Elevation (ft): Easting (ft): Coordinate System: Northing (ft): 946768. 988724. -4.6 NAVD 88 Florida State Plane East

SP Dry Weight (g):	Wash Weight (g):	- 10 YR-5/2 Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (	(%):	Shells (%):
437.40	435.50	0.00	0.00	#230 - 0.43		96.90	)	0.00
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weigh Retained		Grams ained		% Weight Retained
3/4"	-4.25	19.03		0.00	0	.00		0.00
5/8"	-4.00	16.00	0.00	0.00	0	.00		0.00
3.5	-2.50	5.66	0.00	0.00	0	.00		0.00
4	-2.25	4.76	0.00	0.00	0	.00		0.00
5	-2.00	4.00	0.00	0.00	0	.00		0.00
7	-1.50	2.83	0.20	0.05	0	.20		0.05
10	-1.00	2.00	0.40	0.09	0	.60		0.14
14	-0.50	1.41	1.20	0.27	1	.80		0.41
18	0.00	1.00	7.40	1.69	9	.20		2.10
25	0.50	0.71	36.70	8.39	4	5.90		10.49
35	1.00	0.50	137.10	31.34	18	3.00		41.84
45	1.50	0.35	175.10	40.03	35	8.10		81.87
60	2.00	0.25	67.90	15.52	42	6.00		97.39
80	2.50	0.18	8.70	1.99	43	4.70		99.38
120	3.00	0.13	0.60	0.14	43	5.30		99.52
170	3.50	0.09	0.10	0.02	43	5.40		99.54
230	4.00	0.06	0.10	0.02	43	5.50		99.57

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
1.92	1.57	1.41	1.10	0.73	0.59	0.17
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	1.07	0.48	0.	51	-0.31	4.28

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 988526E

Analysis Date: 01-26-11

Analyzed By: JR

Easting (ft):

Northing (ft):

AMERICAN VIBRACORE

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

Elevation (ft): Coordinate System:

-8.6 NAVD 88 947074. 988851. Florida State Plane Fast

94/0/2	t-	900001.	Florid	a State Plane	East	-0.0	NAVD 00
uscs:	Munsell:	- 10 YR-4/1	nts:				
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%	%): Shells (%):
766.70	760.30	0.00	0.00	#230 - 0.83		77.70	0.01
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained		Grams ained	C. % Weigh Retained
3/4"	-4.25	19.03		0.00	0	.00	0.00
5/8"	-4.00	16.00	0.00	0.00	0	.00	0.00
3.5	-2.50	5.66	0.00	0.00	0	.00	0.00
4	-2.25	4.76	0.10	0.01	0	.10	0.01
5	-2.00	4.00	0.10	0.01	0	.20	0.03
7	-1.50	2.83	0.40	0.05	0	.60	0.08
10	-1.00	2.00	1.80	0.23	2	.40	0.31
14	-0.50	1.41	13.60	1.77	16	6.00	2.09
18	0.00	1.00	51.80	6.76	67	7.80	8.84
25	0.50	0.71	122.30	15.95	19	0.10	24.79
35	1.00	0.50	223.70	29.18	41	3.80	53.97
45	1.50	0.35	241.60	31.51	65	5.40	85.48
60	2.00	0.25	86.30	11.26	74	1.70	96.74
80	2.50	0.18	14.20	1.85	75	5.90	98.59
120	3.00	0.13	3.10	0.40	75	9.00	99.00
170	3.50	0.09	1.10	0.14	76	0.10	99.14
230	4.00	0.06	0.20	0.03	76	0.30	99.17

35	1.00	0.50	223.70	29.18	413.80	53.97
45	1.50	0.35	241.60	31.51	655.40	85.48
60	2.00	0.25	86.30	11.26	741.70	96.74
80	2.50	0.18	14.20	1.85	755.90	98.59
120	3.00	0.13	3.10	0.40	759.00	99.00
170	3.50	0.09	1.10	0.14	760.10	99.14
230	4.00	0.06	0.20	0.03	760.30	99.17
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
Phi 5	Phi 16	Phi 25	Phi 50 0.93	Phi 75 0.50	Phi 84	Phi 95
Phi 5 1.92 Moment	Phi 16 1.48 Mean Phi		0.93	0.50		

Depths and elevations based on measured values

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 993615A

Analysis Date: 01-10-11

Analyzed By: JR

Easting (ft):

Northing (ft):



American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Coordinate System: Elevation (ft):

944437. 993818. Florida State Plane East 7.4 NAVD 88

USCS: Comments: Munsell: SP Wet - 10 YR-4/1 Organics (%): Carbonates (%): Shells (%): Sieve Loss (%): Fines (%): Dry Weight (g): Wash Weight (g): Pan Retained (g): #230 - 0.04 0.54 1091.80 0.10 0.00 1092.10 Cum. Grams C. % Weight Sieve Size Grams % Weight Sieve Size Sieve Number Retained Retained Retained Retained (Phi) (Millimeters) 0.00 -4.2519.03 0.00 0.00 3/4" 0.00 0.00 5/8" -4.0016.00 0.00 0.00 0.47 5.66 0.47 5.10 -2.505.10 3.5 0.54 4.76 0.07 5.90 -2.250.80 4 0.16 7.70 0.71 -2.004.00 1.80 5 7 -1.502.83 1.90 0.17 9.60 0.88 12.60 1.15 0.27 10 -1.002.00 3.00 2.05 1.41 22.40 9.80 0.90 14 -0.5058.50 5.36 1.00 3.31 36.10 18 0.00 0.71 106.10 9.72 164.60 15.07 25 0.50 39.20 35 1.00 0.50 263.50 24.13 428.10 72.56 33.36 792.40 45 1.50 0.35 364.30 93.04 20.48 1016.10 60 2.00 0.25 223.70 1074.20 98.36 2.50 0.18 58.10 5.32 80 14.90 1.36 1089.10 99.73 120 3.00 0.13 170 3.50 0.09 2.30 0.21 1091.40 99.94 0.03 1091.70 99.96 230 4.00 0.06 0.30

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.18	1.78	1.56	1.16	0.71	0.52	-0.05
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	1.1	0.47	0.7	74	-1.32	9.08

GRANULARMETRIC REPORT JUPITER ISLAND 10 - BEACH SAMPLES.GPJ FL DEP ROSS.GDT 5/2/11

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 993615B Analysis Date: 01-10-11

Analyzed By: JR



American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Coordinate System: Elevation (ft): Northing (ft): Easting (ft): 3.4 NAVD 88 944452. 993824. Florida State Plane East USCS: Comments: Munsell:

Dry Weight (g): 942.50	Wash Weight (g): 941.50	Pan Retained (g): 0.00	Sieve Loss (%): 0.01	Fines (%): #230 - 0.12	Organics (%):	Carbonates (	%): Shells (%): 0.41
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weigh Retained		Grams tained	C. % Weight Retained
3/4"	-4.25	19.03		0.00	C	0.00	0.00
5/8"	-4.00	16.00	0.00	0.00	C	0.00	0.00
3.5	-2.50	5.66	3.40	0.36	3	3.40	0.36
4	-2.25	4.76	0.50	0.05	3	3.90	0.41
5	-2.00	4.00	0.30	0.03	4	1.20	0.45
7	-1.50	2.83	1.20	0.13	5	5.40	0.57
10	-1.00	2.00	1.30	0.14	6	6.70	0.71
14	-0.50	1.41	2.90	0.31	9	9.60	1.02
18	0.00	1.00	4.80	0.51	1.	4.40	1.53
25	0.50	0.71	12.30	1.31	2	6.70	2.83
35	1.00	0.50	62.10	6.59	8	8.80	9.42
45	1.50	0.35	341.40	36.22	43	30.20	45.64
60	2.00	0.25	409.20	43.42	83	39.40	89.06
80	2.50	0.18	81.40	8.64	92	20.80	97.70
120	3.00	0.13	18.00	1.91	93	38.80	99.61
170	3.50	0.09	2.30	0.24	94	11.10	99.85
230	4.00	0.06	0.30	0.03	94	11.40	99.88

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.34	1.94	1.84	1.55	1.22	1.09	0.66
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	1.5	0.35	0.9	59	-2.64	21.38

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 993615C

Analysis Date: 01-10-11

Analyzed By: JR

Easting (ft):

Northing (ft): Coordinate System: Elevation (ft):

AMERICAN VIBRACORE SERVICES

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

944507	7.	993847.	Florid	a State Plane E	ast	-0.6	NAVD 88
uscs:	Munsell: Wet	- 10 YR-4/2					
Dry Weight (g): 755.01	Wash Weight (g): 755.00	Pan Retained (g):	Sieve Loss (%):	Fines (%): Or #230 - 0.00	rganics (%):	Carbonates (%	6): Shells (%): 0.17
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained		Grams ained	C. % Weigh Retained
3/4"	-4.25	19.03		0.00	0	.00	0.00
5/8"	-4.00	16.00	0.00	0.00	0	.00	0.00
3.5	-2.50	5.66	1.10	0.15	1	.10	0.15
4	-2.25	4.76	0.20	0.03	1	.30	0.17
5	-2.00	4.00	0.90	0.12	2	.20	0.29
7	-1.50	2.83	3.40	0.45	5	.60	0.74
10	-1.00	2.00	9.70	1.28	15	5.30	2.03
14	-0.50	1.41	26.80	3.55	42	2.10	5.58
18	0.00	1.00	62.20	8.24	10	4.30	13.81
25	0.50	0.71	111.50	14.77	21	5.80	28.58
35	1.00	0.50	153.40	20.32	36	9.20	48.90
45	1.50	0.35	138.90	18.40	50	8.10	67.30
60	2.00	0.25	129.10	17.10	63	7.20	84.40
80	2.50	0.18	86.00	11.39	72	3.20	95.79
120	3.00	0.13	25.00	3.31	74	8.20	99.10
170	3.50	0.09	4.90	0.65	75	3.10	99.75
230	4.00	0.06	1.90	0.25	75	5.00	100.00

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.47	1.99	1.73	1.03	0.38	0.07	-0.58
Moment	Mean Phi	Mean mm	Sort	ing	Skewness	Kurtosis
Statistics	1.02	0.49	0.9	95	-0.3	3.32

GRANULARMETRIC REPORT JUPITER ISLAND 10 - BEACH SAMPLES.GPJ FL DEP ROSS.GDT 5/2/11

Depths and elevations based on measured values

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 993615D

Analysis Date: 01-10-11

Analyzed By: JR

Easting (ft):

5/2/11

Northing (ft):

BRACORE

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Coordinate System: Elevation (ft):

-4.6 NAVD 88 944530. 993857.

Florida State Plane East USCS: Comments: Munsell: SW Wet - 10 YR-4/2 Dry Weight (g): Wash Weight (g): Pan Retained (g): Sieve Loss (%): Fines (%): Organics (%): Carbonates (%): Shells (%): 0.07 #230 - 0.37 5.48 666.20 0.00 668.20 % Weight Cum. Grams C. % Weight Sieve Size Sieve Size Grams Sieve Number Retained Retained Retained Retained (Millimeters) (Phi) 0.00 0.00 0.00 3/4" -4.2519.03 5/8" -4.00 16.00 4.60 0.69 4.60 0.69 3.5 -2.505.66 24.80 3.71 29.40 4.40 7.20 1.08 36.60 5.48 4 -2.254.76 1.80 7.27 12.00 48.60 5 -2.004.00 7 35.70 5.34 84.30 12.62 -1.502.83 10 -1.002.00 65.10 9.74 149.40 22.36 14 -0.501.41 112.80 16.88 262.20 39.24 18 0.00 1.00 153.10 22.91 415.30 62.15 20.07 549.40 82.22 0.50 0.71 134.10 25 91.77 0.50 63.80 9.55 613.20 35 1.00 0.35 18.00 2.69 631.20 94.46 45 1.50 2.00 0.25 10.00 1.50 641.20 95.96 60 1.54 651.50 97.50 80 2.50 0.18 10.30 98.86 3.00 9.10 1.36 660.60 120 0.13 99.58 3.50 0.09 4.80 0.72 665.40 170 230 4.00 0.06 0.30 0.04 665.70 99.63

45	1.50	0.35	18.00	2.69	631.20	94.46
60	2.00	0.25	10.00	1.50	641.20	95.96
80	2.50	0.18	10.30	1.54	651.50	97.50
120	3.00	0.13	9.10	1.36	660.60	98.86
170	3.50	0.09	4.80	0.72	665.40	99.58
230	4.00	0.06	0.30	0.04	665.70	99.63
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
Phi 5	Phi 16	Phi 25 0.32	Phi 50 -0.27	Phi 75 -0.92	Phi 84 -1.33	Phi 95
200707			-0.27			

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 993615E

Analysis Date: 01-10-11

Analyzed By: JR

Easting (ft):

Northing (ft):

AMERICAN VIBRACORE

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Elevation (ft): Coordinate System:

993902. -8.6 NAVD 88 944637. Florida State Plane East

344037		990902.		a State Plane	casi	0.0	17 17 00
USCS:	Munsell:	Comme	nts:				
SP	C18.743	- 10 YR-6/1				1	n Davidonia
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%	
813.20	808.40	0.90	0.04	#230 - 0.74			0.00
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	t Cum. Reta	Grams ained	C. % Weigh Retained
3/4"	-4.25	19.03		0.00	0.	.00	0.00
5/8"	-4.00	16.00	0.00	0.00	0.	.00	0.00
3.5	-2.50	5.66	0.00	0.00	0.	.00	0.00
4	-2.25	4.76	0.00	0.00	0.	.00	0.00
5	-2.00	4.00	0.10	0.01	0.	.10	0.01
7	-1.50	2.83	0.40	0.05	0.	.50	0.06
10	-1.00	2.00	1.20	0.15	1.	.70	0.21
14	-0.50	1.41	3.50	0.43	5	.20	0.64
18	0.00	1.00	7.50	0.92	12	2.70	1.56
25	0.50	0.71	10.70	1.32	23	3.40	2.88
35	1.00	0.50	12.20	1.50	35	5.60	4.38
45	1.50	0.35	13.60	1.67	49	9.20	6.05
60	2.00	0.25	31.60	3.89	80	0.80	9.94
80	2.50	0.18	267.70	32.92	34	8.50	42.86
120	3.00	0.13	396.70	48.78	74	5.20	91.64
170	3.50	0.09	52.90	6.51	79	8.10	98.14
230	4.00	0.06	9.10	1.12	80	7.20	99.26

35	1.00	0.50	12.20	1.50	35.60	4.38
45	1.50	0.35	13.60	1.67	49.20	6.05
60	2.00	0.25	31.60	3.89	80.80	9.94
80	2.50	0.18	267.70	32.92	348.50	42.86
120	3.00	0.13	396.70	48.78	745.20	91.64
170	3.50	0.09	52.90	6.51	798.10	98.14
230	4.00	0.06	9.10	1.12	807.20	99.26
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
Phi 5 3.26	Phi 16 2.92	Phi 25 2.83	Phi 50 2.57	Phi 75 2.23	Phi 84 2.09	Phi 95
		2.00	2.57	2.23		Phi 95 1.19 Kurtosis

Depths and elevations based on measured values

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: R-70A

Analysis Date: 01-24-11

Analyzed By: JR

Easting (ft):

Northing (ft):

AMERIC/ SERVICES

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Coordinate System: Elevation (ft):

7.4 NAVD 88 937695. 1007629.

Florida State Plane East USCS: Munsell: Comments: SP Wet - 10 YR-6/2 Organics (%): Carbonates (%): Shells (%): Dry Weight (g): Wash Weight (g): Pan Retained (g): Sieve Loss (%): Fines (%): 0.00 592.80 0.00 0.00 #230 - 0.60 50.10 596.40 % Weight Cum. Grams C. % Weight Sieve Size Sieve Size Grams Sieve Number Retained Retained Retained (Phi) (Millimeters) Retained 3/4" -4.2519.03 0.00 0.00 0.00 0.00 5/8" -4.0016.00 0.00 0.00 0.00 0.00 0.00 -2.505.66 0.00 0.00 3.5 0.00 0.00 4 -2.254.76 0.00 0.00 0.70 0.12 5 -2.004.00 0.70 0.12 7 -1.502.83 0.50 0.08 1.20 0.20 0.18 2.30 0.39 10 -1.002.00 1.10 2.70 5.00 0.84 14 1.41 0.45 -0.501.00 14.60 2.45 18 0.00 9.60 1.61 0.50 0.71 38.30 6.42 52.90 8.87 25 35 1.00 0.50 128.50 21.55 181.40 30.42 383.10 64.24 45 1.50 0.35 201.70 33.82 89.69 60 2.00 0.25 151.80 25.45 534.90 97.13 2.50 0.18 44.40 7.44 579.30 80 3.00 1.86 590.40 98.99 120 0.13 11.10 170 3.50 0.09 2.30 0.39 592.70 99.38 99.40 230 4.00 0.06 0.10 0.02 592.80

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.36	1.89	1.71	1.29	0.87	0.67	0.20
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	1.27	0.41	0.0	64	-0.4	4.85

PITER ISLAND 10 - BEACH SAMPLES.GPJ FL DEP ROSS.GDT

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: R-70B

Analysis Date: 01-24-11

Analyzed By: JR

AMERICAN VIBRACORE SERVICES

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

Easting (ft): Northing (ft): Coordinate System: Elevation (ft):

937726	5.	1007642.	Florid	la State Plane	East	3.4 NA		VD 88	
USCS:	Munsell:	Comn	nents:						
SP		- 10 YR-5/2	Too y an	Two con		10	(0/)	01 11 (04)	
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates		Shells (%):	
382.30	380.00	0.10	0.03	#230 - 0.65		64.20		0.00	
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters	Grams Retained	% Weigh Retained	100	. Grams tained		% Weight Retained	
3/4"	-4.25	19.03		0.00	C	0.00		0.00	
5/8"	-4.00	16.00	0.00	0.00	C	0.00		0.00	
3.5	-2.50	5.66	0.00	0.00	0	0.00		0.00	
4	-2.25	4.76	0.00	0.00	0	0.00		0.00	
5	-2.00	4.00	0.00	0.00	0	0.00		0.00	
7	-1.50	2.83	0.60	0.16		0.60		0.16	
10	-1.00	2.00	0.40	0.10	1	1.00		0.26	
14	-0.50	1.41	2.50	0.65	3	3.50		0.92	
18	0.00	1.00	13.20	3.45	1	6.70		4.37	
25	0.50	0.71	44.90	11.74	6	1.60		16.11	
35	1.00	0.50	84.40	22.08	14	16.00		38.19	
45	1.50	0.35	72.40	18.94	21	18.40		57.13	
60	2.00	0.25	81.70	21.37	30	00.10		78.50	
80	2.50	0.18	56.70	14.83	35	56.80		93.33	
120	3.00	0.13	19.20	5.02	37	76.00		98.35	
170	3.50	0.09	3.70	0.97	37	79.70		99.32	
230	4.00	0.06	0.10	0.03	37	79.80		99.35	

Phi 5 2.67  Moment	Phi 16 2.19 Mean Phi	Phi 25 1.92 Mean m	Phi 50	Phi 75 0.70 rting S	Phi 84 0.50 Skewness	Phi 98
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	-
23.00	l sees as I				1	·
230	4.00	0.06	0.10	0.03	379.80	99.35
170	3.50	0.09	3.70	0.97	379.70	99.32
120	3.00	0.13	19.20	5.02	376.00	98.35
80	2.50	0.18	56.70	14.83	356.80	93.33
60	2.00	0.25	81.70	21.37	300.10	78.50
40	1.50	0.35	72.40	18.94	218.40	57.13
45						

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: R-70C

Analysis Date: 01-24-11

Analyzed By: JR

ERICAN VIBRACORE SERVICES **AMERICAN** 

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Elevation (ft): Easting (ft): Northing (ft): Coordinate System: 1007655. -0.6 NAVD 88 937758. Florida State Plane East USCS: Munsell: Comments:

Dry Weight (g): 499.10	Wash Weight (g): 494.70	Pan Retained (g):	Sieve Loss (%): 0.02	Fines (%): #230 - 0.90	Organics (%):	Carbonates (	
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weigh Retained		Grams ained	C. % Weigh Retained
3/4"	-4.25	19.03		0.00	0	0.00 0.00	
5/8"	-4.00	16.00	0.00	0.00	0	.00	0.00
3.5	-2.50	5.66	4.00	0.80	4	.00	0.80
4	-2.25	4.76	1.00	0.20	5	.00	1.00
5	-2.00	4.00	0.80	0.16	5	.80	1.16
7	-1.50	2.83	5.80	1.16	1	1.60	2.32
10	-1.00	2.00	18.90	3.79	30	0.50	6.11
14	-0.50	1.41	41.60	8.34	72	2.10	14.45
18	0.00	1.00	52.30	10.48	12	4.40	24.92
25	0.50	0.71	48.00	9.62	17	2.40	34.54
35	1.00	0.50	36.50	7.31	20	8.90	41.86
45	1.50	0.35	25.90	5.19	23	4.80	47.04
60	2.00	0.25	70.70	14.17	30	5.50	61.21
80	2.50	0.18	92.90	18.61	39	8.40	79.82
120	3.00	0.13	71.70	14.37	47	0.10	94.19
170	3.50	0.09	21.70	4.35	49	1.80	98.54
230	4.00	0.06	2.80	0.56	49	4.60	99.10

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.09	2.65	2.37	1.60	0.00	-0.43	-1.15
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	1.19	0.44	1.4	11	-0.51	2.44

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: R-70D

Analysis Date: 01-24-11

Analyzed By: JR

**AMERICAN VIBRACORE** SERVICES

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Elevation (ft): Easting (ft): Coordinate System: Northing (ft):

937683. 1007699. -4.6 NAVD 88

93/683	5.	1007699.	Florid	la State Plane	East	-4.6 [	NAVD 88
uscs:	Munsell:	- 10 YR-6/1	nts:		7.11.01.0		
Dry Weight (g): 723.20	Wash Weight (g): 716.40	Pan Retained (g):	Sieve Loss (%): 0.01	Fines (%): #230 - 0.97	Organics (%):	Carbonates (% 39.40	Shells (%): 0.06
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weigh Retained		Grams ained	C. % Weight Retained
3/4"	-4.25	19.03		0.00	0	.00	0.00
5/8"	-4.00	16.00	0.00	0.00	0	.00	0.00
3.5	-2.50	5.66	0.00	0.00	0	.00	0.00
4	-2.25	4.76	0.40	0.06	0	.40	0.06
5	-2.00	4.00	0.10	0.01	0	.50	0.07
7	-1.50	2.83	1.00	0.14	1	.50	0.21
10	-1.00	2.00	1.30	0.18	2	.80	0.39
14	-0.50	1.41	3.60	0.50	6	.40	0.88
18	0.00	1.00	6.50	0.90	1:	2.90	1.78
25	0.50	0.71	14.60	2.02	2	7.50	3.80
35	1.00	0.50	39.40	5.45	66	5.90	9.25
45	1.50	0.35	81.50	11.27	14	8.40	20.52
60	2.00	0.25	179.60	24.83	32	28.00	45.35
80	2.50	0.18	214.10	29.60	54	2.10	74.96
120	3.00	0.13	133.70	18.49	67	5.80	93.45
170	3.50	0.09	34.80	4.81	71	0.60	98.26
230	4.00	0.06	5.60	0.77	71	6.20	99.03

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.16	2.74	2.50	2.08	1.59	1.30	0.61
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	1.99	0.25	0.7	77	-0.95	5.33

JUPITER ISLAND 10 - BEACH SAMPLES.GPJ FL DEP ROSS.GDT 5/2/11

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: R-70E

Analysis Date: 01-24-11

Analyzed By: JR

**AMERICAN VIBRACORE** SERVICES

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

Elevation (ft): Easting (ft): Coordinate System: Northing (ft): 937961. 1007740. -8.6 NAVD 88 Florida State Plane East

USCS:	Munsell:	Commer	nts;				
SP Dry Weight (g):	Wet Wash Weight (g):	- 10 YR-6/1 Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%	%): Shells (%):
494.50	488.00	0.60	0.00	#230 - 1.44		20.90	0.00
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained		Grams ained	C. % Weigh Retained
3/4"	-4.25	19.03		0.00	0	.00	0.00
5/8"	-4.00	16.00	0.00	0.00	0	.00	0.00
3.5	-2.50	5.66	0.00	0.00	0	.00	0.00
4	-2.25	4.76	0.00	0.00	0	.00	0.00
5	-2.00	4.00	0.30	0.06	0	.30	0.06
7	-1.50	2.83	1.00	0.20	1	.30	0.26
10	-1.00	2.00	1.60	0.32	2	.90	0.59
14	-0.50	1.41	3.40	0.69	6	.30	1.27
18	0.00	1.00	5.20	1.05	11	1.50	2.33
25	0.50	0.71	6.50	1.31	18	3.00	3.64
35	1.00	0.50	9.10	1.84	27	7.10	5.48
45	1.50	0.35	8.40	1.70	35	5.50	7.18
60	2.00	0.25	11.40	2.31	46	6.90	9.48
80	2.50	0.18	38.40	7.77	85	5.30	17.25
120	3.00	0.13	321.00	64.91	40	6.30	82.16
170	3.50	0.09	68.50	13.85	47	4.80	96.02
230	4.00	0.06	12.60	2.55	48	7.40	98.56

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.46	3.07	2.94	2.75	2.56	2.42	0.87
Moment	Mean Phi	Mean mm	Sort	ing	Skewness	Kurtosis
Statistics	2.61	0.16	0.7	76	-2.81	12.73

GRANULARMETRIC REPORT JUPITER ISLAND 10 - BEACH SAMPLES GPJ FL DEP ROSS GDT 5/2/11

Depths and elevations based on measured values

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: R-75A

Analysis Date: 01-07-11

Analyzed By: JR

Easting (ft):

Northing (ft):

AMERICAN VIBRACORE

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

Coordinate System: Elevation (ft):

939732. 1003630. Florida State Plane East 7.4 NAVD 88

USCS: Comments: Munsell: SP Wet - 10 YR-5/1 Organics (%): Carbonates (%): Shells (%): Dry Weight (g): Wash Weight (g): Pan Retained (g): Sieve Loss (%): Fines (%): 0.00 0.02 #230 - 0.09 572.80 0.10 573.10 C. % Weight % Weight Cum. Grams Sieve Size Grams Sieve Size Sieve Number Retained Retained Retained (Millimeters) Retained (Phi) 0.00 0.00 0.00 3/4" -4.2519.03 0.00 5/8" -4.00 16.00 0.00 0.00 0.00 0.00 0.00 -2.505.66 0.00 0.00 3.5 0.00 0.00 4.76 0.00 0.00 4 -2.250.80 0.14 4.00 0.80 0.14 5 -2.007 -1.502.83 0.00 0.00 0.80 0.14 0.90 0.16 10 -1.002.00 0.10 0.02 1.10 0.19 0.20 0.03 14 -0.501.41 4.80 0.84 1.00 3.70 0.65 18 0.00 0.71 20.60 3.59 25.40 4.43 25 0.50 35 1.00 0.50 88.30 15.41 113.70 19.84 321.30 56.06 45 1.50 0.35 207.60 36.22 509.20 88.85 60 2.00 0.25 187.90 32.79 98.31 54.20 9.46 563.40 80 2.50 0.18 1.54 572.20 99.84 120 3.00 0.13 8.80 170 3.50 0.09 0.10 0.02 572.30 99.86 99.91 230 4.00 0.06 0.30 0.05 572.60

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.33	1.93	1.79	1.42	1.07	0.88	0.52
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	1.4	0.38	0.9	55	-0.5	5.55

REPORT JUPITER ISLAND 10 - BEACH SAMPLES.GPJ FL DEP ROSS.GDT

5/2/11

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: R-75B

Analysis Date: 01-07-11

Analyzed By:

Easting (ft):

Northing (ft): Coordinate System: American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444 Elevation (ft):

**AMERICAN VIBRACORE** SERVICES

939769	).	1003645.	Florid	a State Plane	East	3.4	NAVE	88
uscs:	Munsell: Wet	- 10 YR-5/2						
Dry Weight (g): 594.50	Wash Weight (g): 593.40	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 0.20	Organics (%):	Carbonates (	%): Sh	nells (%):
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weigh Retained		Grams tained		6 Weigh etained
3/4"	-4.25	19.03		0.00	C	0.00		0.00
5/8"	-4.00	16.00	7.10	1.19	7	'.10		1.19
3.5	-2.50	5.66	1.00	0.17	8	3.10		1.36
4	-2.25	4.76	0.30	0.05	8	3.40	3	1.41
5	-2.00	4.00	0.80	0.13	9	0.20		1.55
7	-1.50	2.83	0.40	0.07	9	0.60		1.61
10	-1.00	2.00	1.60	0.27	1	1.20		1.88
14	-0.50	1.41	10.20	1.72	2	1.40		3.60
18	0.00	1.00	36.10	6.07	5	7.50		9.67
25	0.50	0.71	112.60	18.94	17	0.10	2	28.61
35	1.00	0.50	175.10	29.45	34	15.20	5	58.07
45	1.50	0.35	143.20	24.09	48	88.40	8	32.15
60	2.00	0.25	74.90	12.60	56	33.30	9	94.75
80	2.50	0.18	24.90	4.19	58	38.20	9	98.94
120	3.00	0.13	4.80	0.81	59	93.00	9	99.75
170	3.50	0.09	0.10	0.02	59	93.10	9	99.76
230	4.00	0.06	0.20	0.03	59	93.30	9	99.80

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.03	1.57	1.35	0.86	0.40	0.17	-0.38
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	0.82	0.57	0.	9	-2.1	13.16

GRANULARMETRIC REPORT JUPITER ISLAND 10 - BEACH SAMPLES GPJ FL DEP ROSS GDT 5/2/11

Depths and elevations based on measured values

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: R-75C Analysis Date: 01-07-11

Analyzed By: JR



American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Easting (ft): Northing (ft): Coordinate System: Elevation (ft): -0.6 NAVD 88 1003655. 939793. Florida State Plane East

Comments: USCS: Munsell: SP Wet - 10 YR-5/2 Organics (%): Fines (%): Carbonates (%): Shells (%): Dry Weight (g): Wash Weight (g): Pan Retained (g): Sieve Loss (%): 649.10 647.40 0.00 0.00 #230 - 0.26 0.17 Sieve Size Sieve Size Grams % Weight Cum. Grams C. % Weight Sieve Number Retained (Phi) (Millimeters) Retained Retained Retained 0.00 0.00 0.00 3/4" -4.2519.03 0.00 0.00 0.00 5/8" -4.00 16.00 0.00 -2.500.15 1.00 0.15 5.66 1.00 3.5 -2.254.76 0.10 0.02 1.10 0.17 4 4.00 0.60 0.09 1.70 0.26 5 -2.007 0.52 1.70 0.26 3.40 -1.502.83 0.85 8.90 1.37 10 -1.002.00 5.50 2.37 24.30 3.74 14 -0.501.41 15.40 58.80 9.06 18 0.00 1.00 34.50 5.32 0.50 0.71 86.50 13.33 145.30 22.38 25 34.49 369.20 56.88 35 1.00 0.50 223.90 0.35 175.00 26.96 544.20 83.84 45 1.50 60 2.00 0.25 63.20 9.74 607.40 93.58 637.10 98.15 80 2.50 0.18 29.70 4.58 9.20 1.42 646.30 99.57 120 3.00 0.13 170 3.50 0.09 1.00 0.15 647.30 99.72 0.02 647.40 99.74 0.06 0.10 230 4.00

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.16	1.51	1.34	0.90	0.54	0.26	-0.38
Moment	Mean Phi	Mean mm	Sor	ing	Skewness	Kurtosis
Statistics	0.9	0.54	0.7	73	-0.49	5.45

GRANULARMETRIC REPORT JUPITER ISLAND 10 - BEACH SAMPLES.GPJ FL DEP ROSS.GDT

5/2/11

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: R-75D Analysis Date: 01-07-11

Analyzed By: JR

Easting (ft):



American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Elevation (ft): Northing (ft): Coordinate System:

-4.6 NAVD 88 1003667. 939819. Florida State Plane East

Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates	(%):	Shells (%):
654.50	651.40	0.10	0.00	#230 - 0.49				7.94
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained		Grams ained		% Weigh Retained
3/4"	-4.25	19.03		0.00	0	.00		0.00
5/8"	-4.00	16.00	0.00	0.00	0	.00		0.00
3.5	-2.50	5.66	42.90	6.55	42	2.90		6.55
4	-2.25	4.76	9.10	1.39	52	2.00		7.94
5	-2.00	4.00	17.20	2.63	69	9.20		10.57
7	-1.50	2.83	42.00	6.42	11	1.20		16.99
10	-1.00	2.00	58.80	8.98	17	0.00		25.97
14	-0.50	1.41	82.80	12.65	25	2.80		38.62
18	0.00	1.00	106.50	16.27	35	9.30		54.90
25	0.50	0.71	103.70	15.84	46	3.00		70.74
35	1.00	0.50	80.10	12.24	54	3.10		82.98
45	1.50	0.35	35.10	5.36	57	8.20		88.34
60	2.00	0.25	22.00	3.36	60	0.20		91.70
80	2.50	0.18	27.60	4.22	62	7.80		95.92
120	3.00	0.13	19.40	2.96	64	7.20		98.88
170	3.50	0.09	3.80	0.58	65	1.00		99.47
230	4.00	0.06	0.30	0.05	65	1.30		99.51

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.39	1.10	0.67	-0.15	-1.05	-1.58	-2.91
Moment	Mean Phi	Mean mm	Sort	ing	Skewness	Kurtosis
Statistics	-0.21	1.16	1.4	13	-0.11	2.97

Depths and elevations based on measured values

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: R-75E

Analysis Date: 01-07-11

Analyzed By: JR

IBRACORE AMERICA

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Easting (ft): Northing (ft): Coordinate System: Elevation (ft):

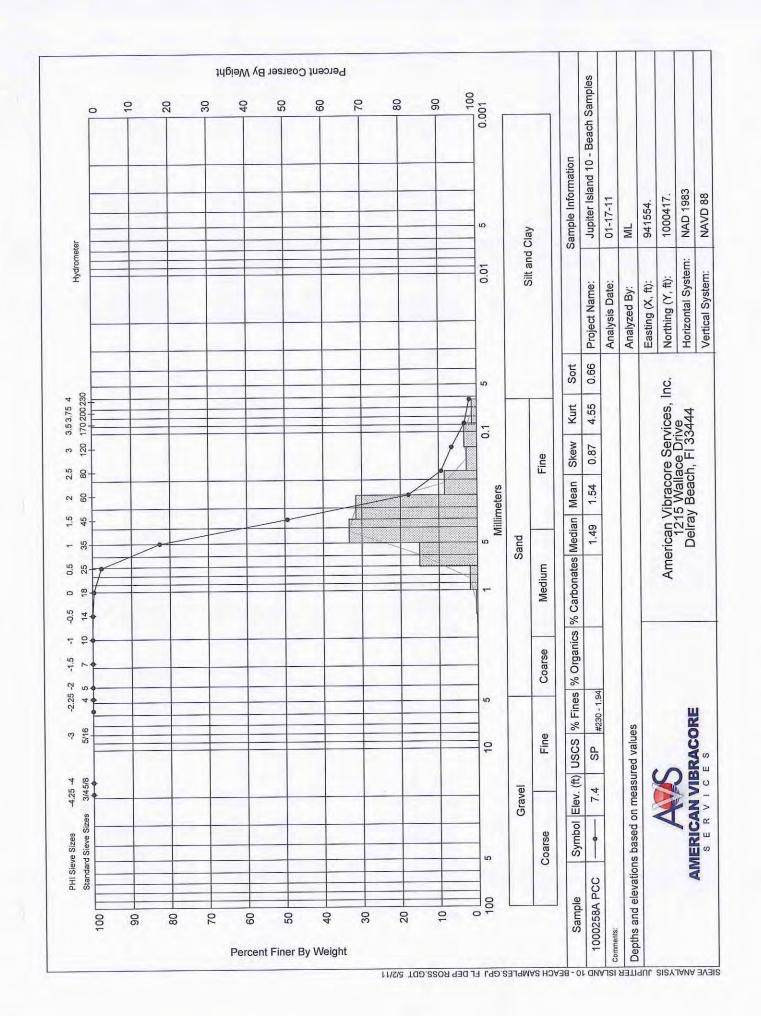
1003742. 940000. -8.6 NAVD 88 Florida State Plane East

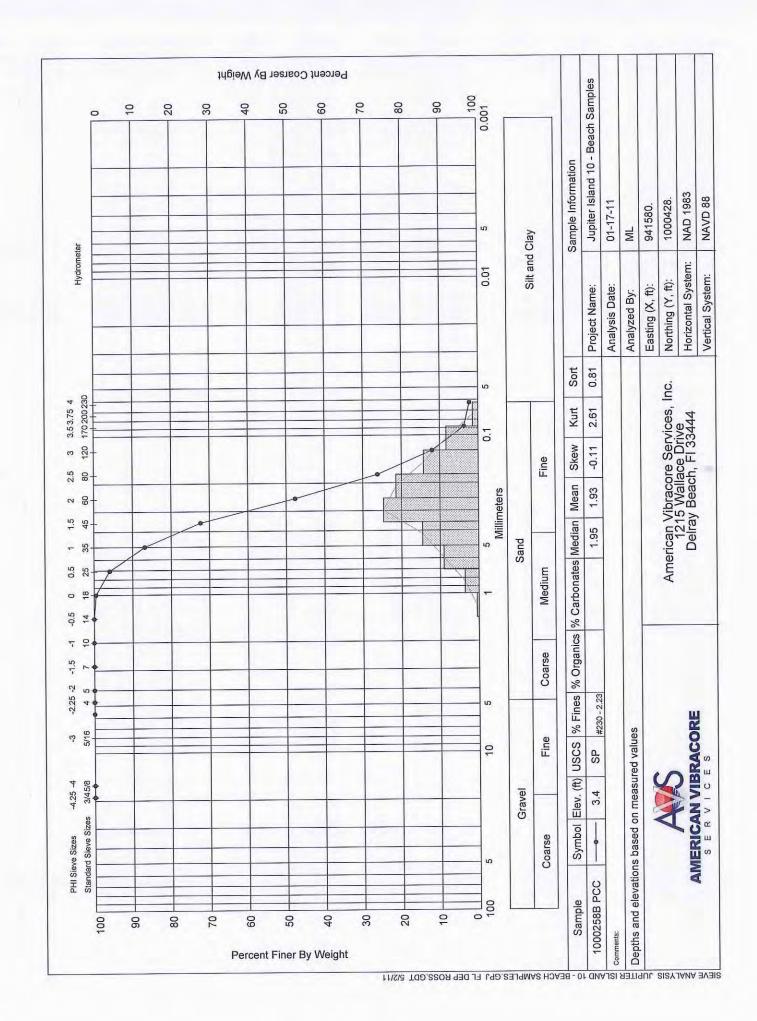
USCS: Munsell Comments: SP Wet - 10 YR-6/1 Dry Weight (g): Sieve Loss (%): Fines (%): Organics (%): Carbonates (%): Shells (%): Wash Weight (g): Pan Retained (g): #230 - 0.47 0.00 767.10 770.50 C. % Weight Sieve Size % Weight Cum. Grams Sieve Size Grams Sieve Number Retained Retained Retained (Phi) (Millimeters) Retained 0.00 0.00 3/4" -4.25 19.03 0.00 0.00 0.00 0.00 0.00 5/8" -4.0016.00 0.00 0.00 3.5 -2.505.66 0.00 0.00 4.76 0.00 0.00 0.00 0.00 4 -2.250.20 0.03 0.20 0.03 5 -2.004.00 0.08 7 -1.502.83 0.40 0.05 0.60 0.10 1.40 0.18 10 -1.002.00 0.80 3.20 0.42 -0.50 1.41 1.80 0.23 14 0.84 6.50 18 0.00 1.00 3.30 0.43 25 0.71 0.71 12.00 1.56 0.50 5.50 35 1.00 0.50 8.00 1.04 20.00 2.60 28.60 3.71 45 1.50 0.35 8.60 1.12 2.10 5.81 60 2.00 0.25 16.20 44.80

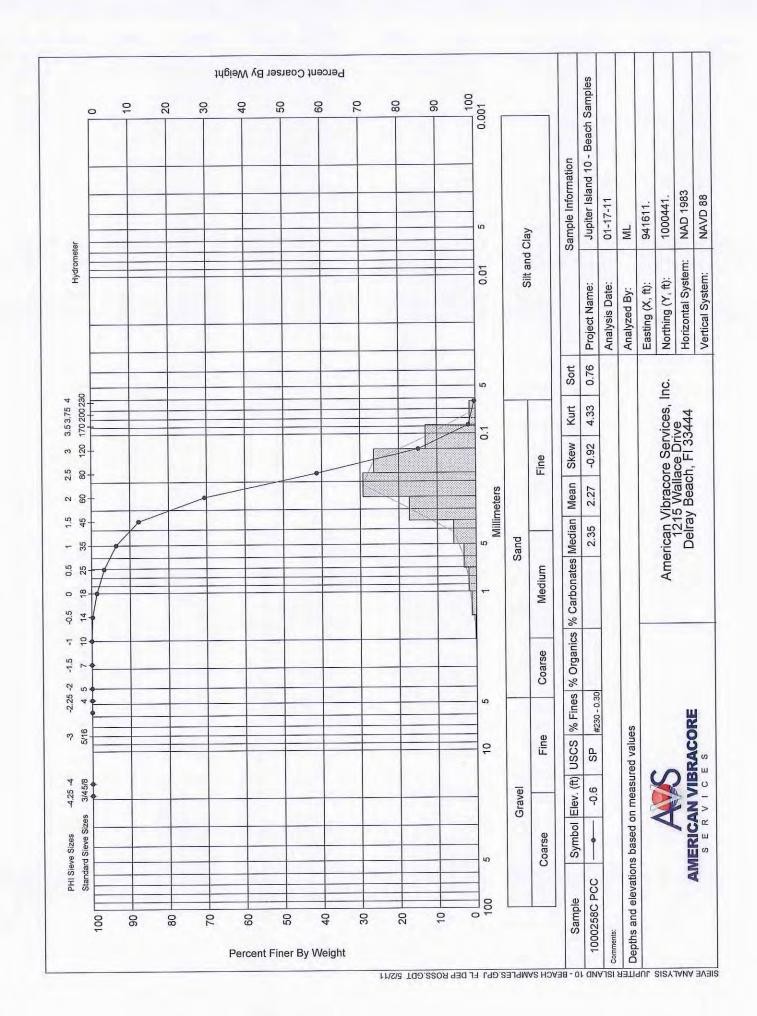
2.94 2.85 2.61 2.29	Phi 5 3.31 Moment	2.94	2.85	2.61		Phi 84 2.16 Skewness	Phi 95 1.81 Kurtosis
		1000					
Phi 16 Phi 25 Phi 50 Phi 75	Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
	230				0.00	0.00	
0.06 14.40 1.87	3.50 4.00	1	177777	NAVAYA NA		752.50 766.90	97.66 99.53
3.50 0.09 54.30 7.05	120 170	3.00	0.13	401.50	52.11	698.20	90.62
	80	2.50	0.18	251.90	32.69	296.70	38.51
3.00 0.13 401.50 52.11	60	2.00	0.25	16.20	2.10	44.80	5.81
2.50     0.18     251.90     32.69       3.00     0.13     401.50     52.11		1.50	0.35	8.60	1.12	28.60	3.71
2.50     0.18     251.90     32.69       3.00     0.13     401.50     52.11	45	1.50	0.25	0.00	100	The state of the s	100000000000000000000000000000000000000

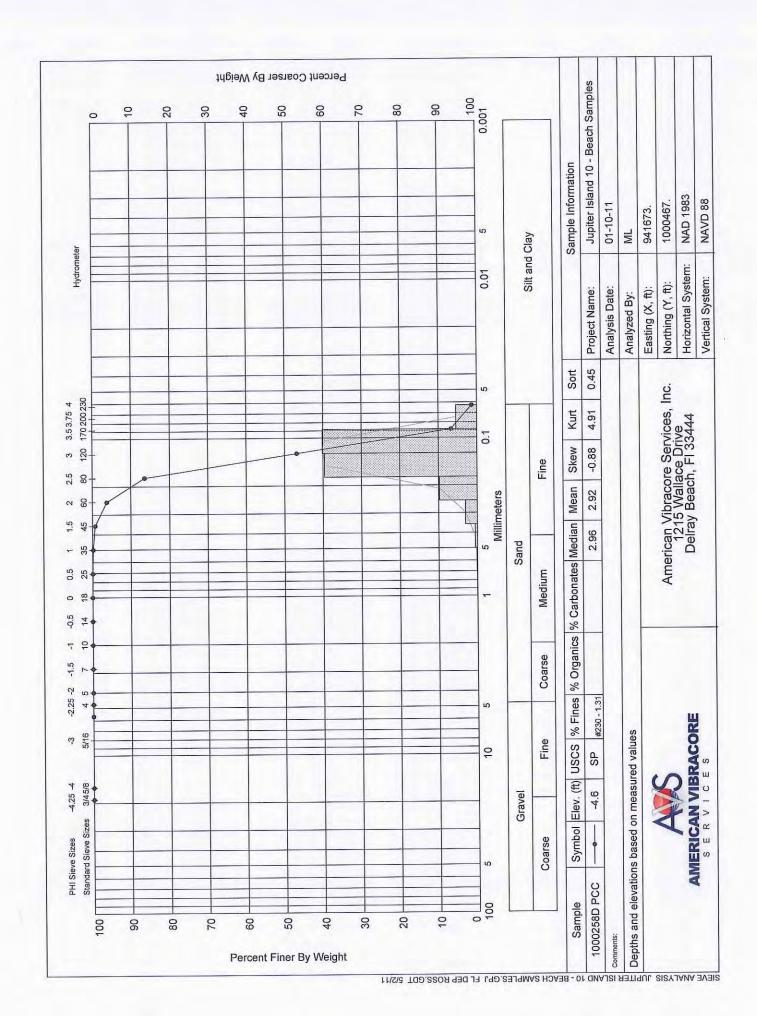
# Post CC Sieve Graph

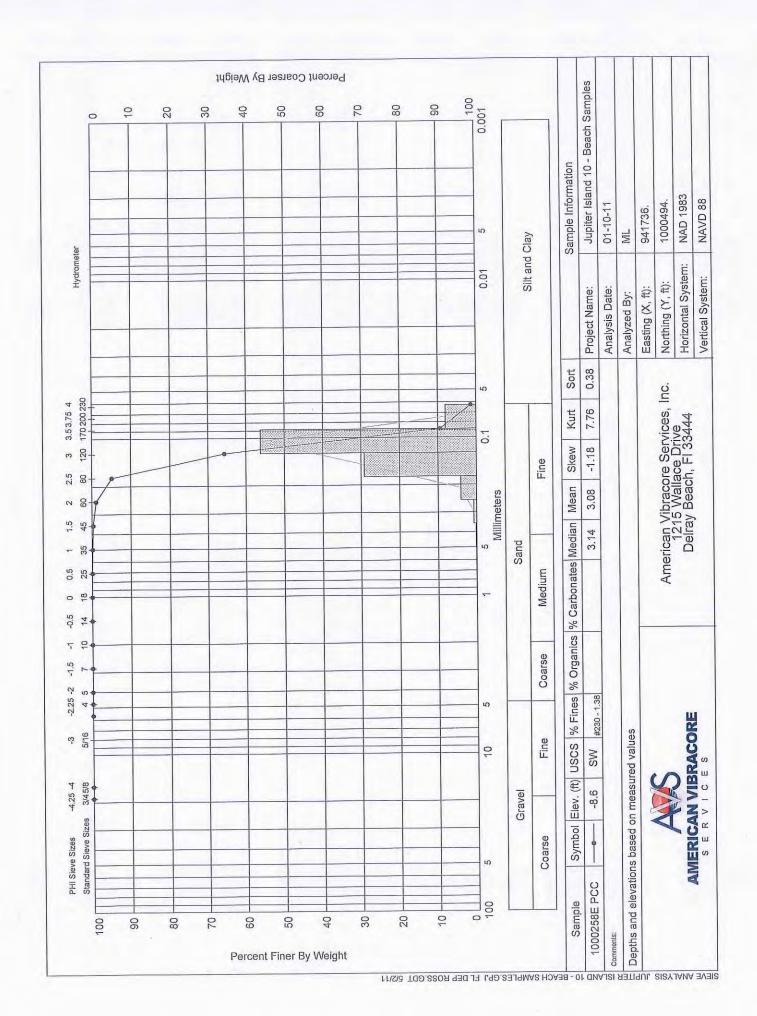


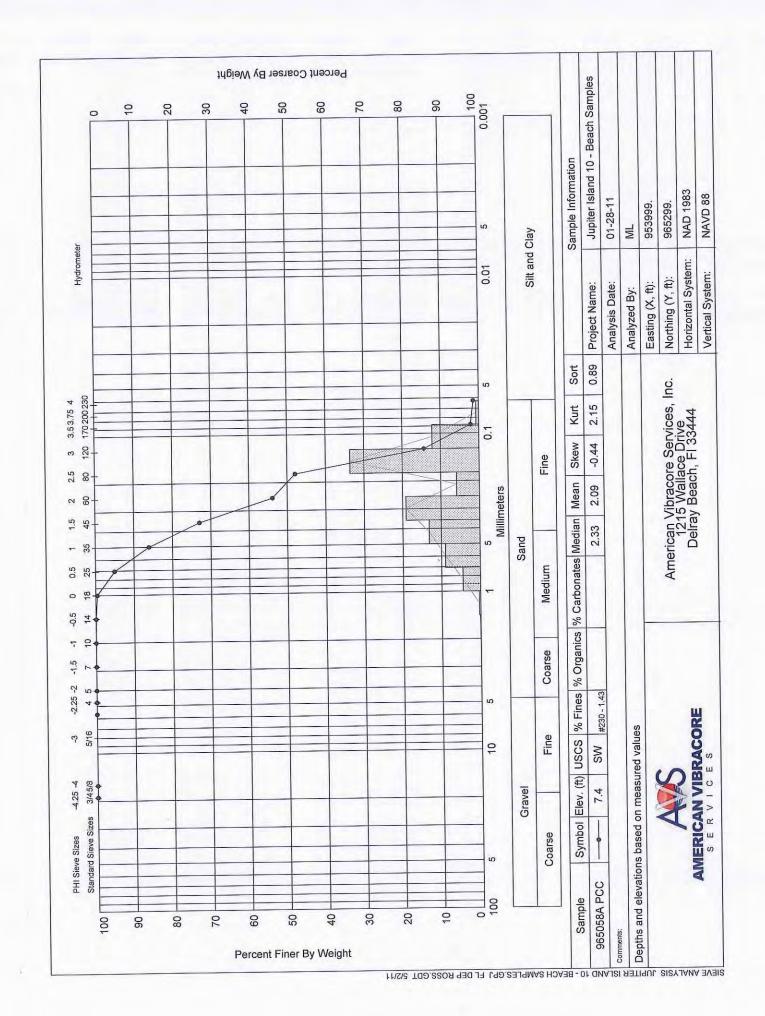


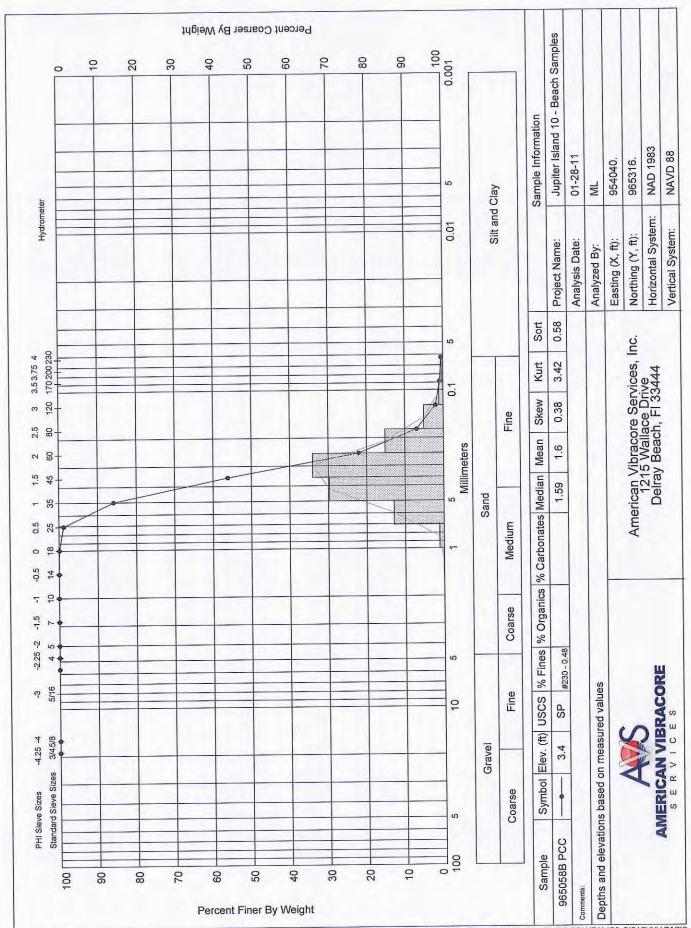


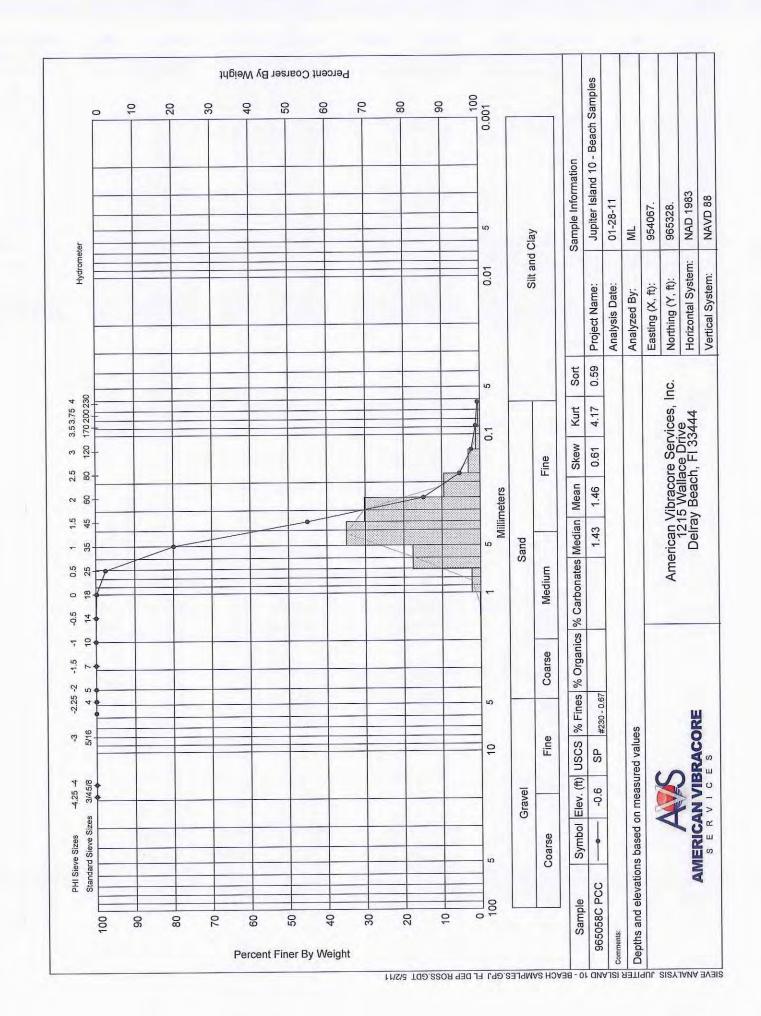


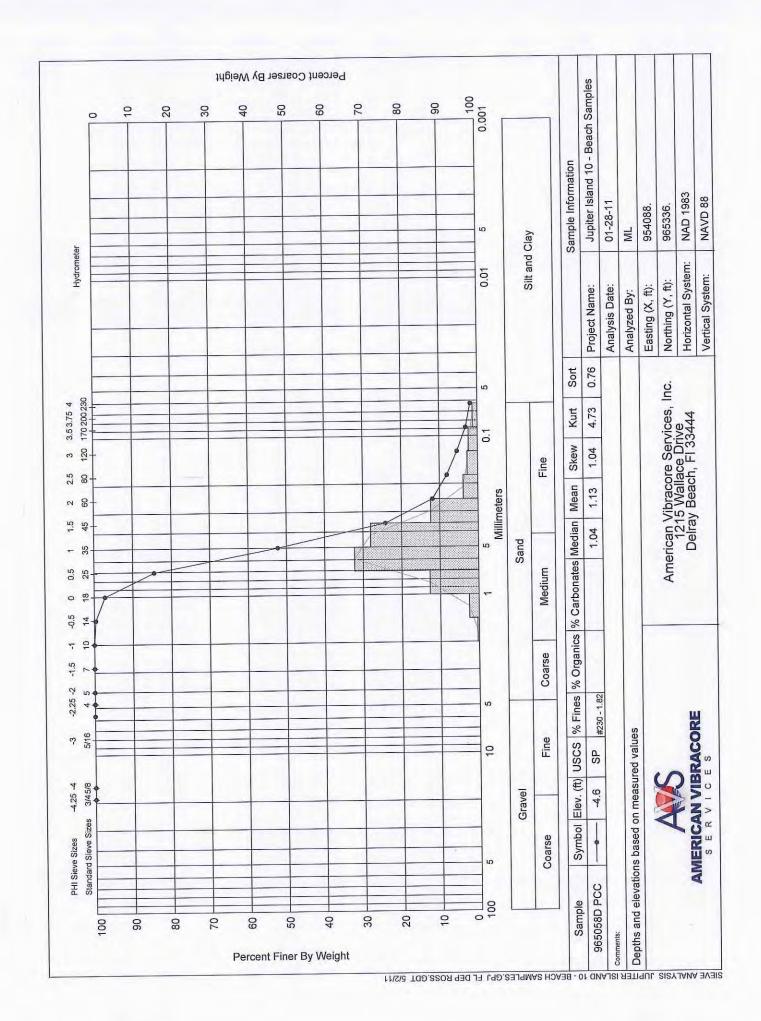


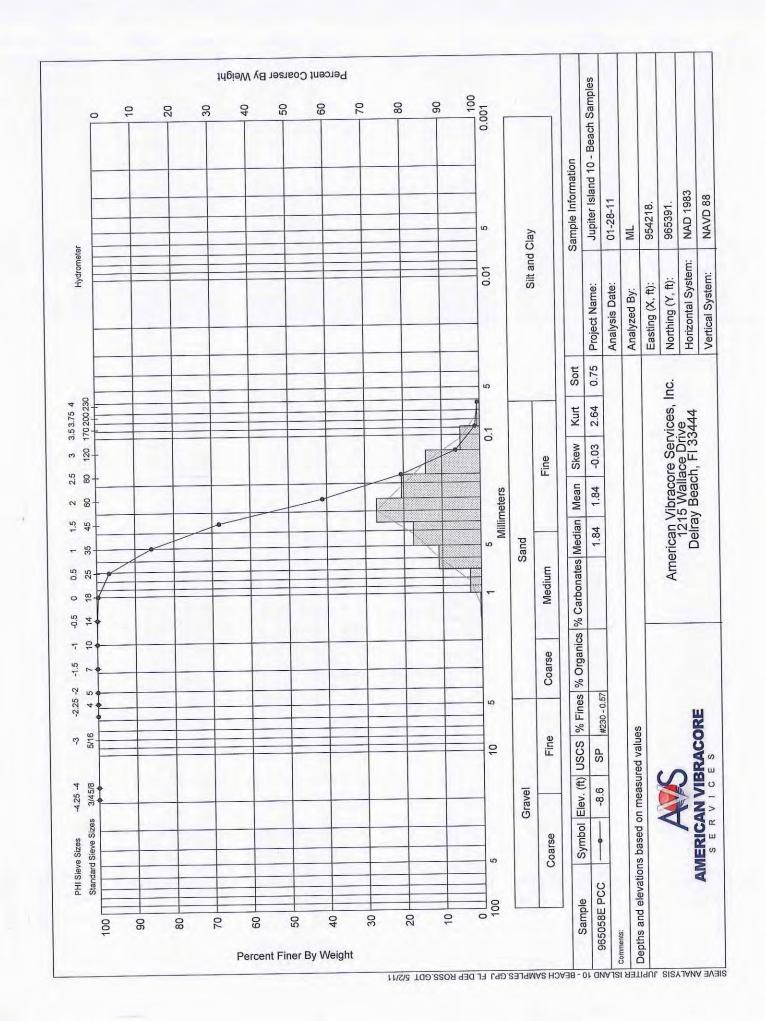


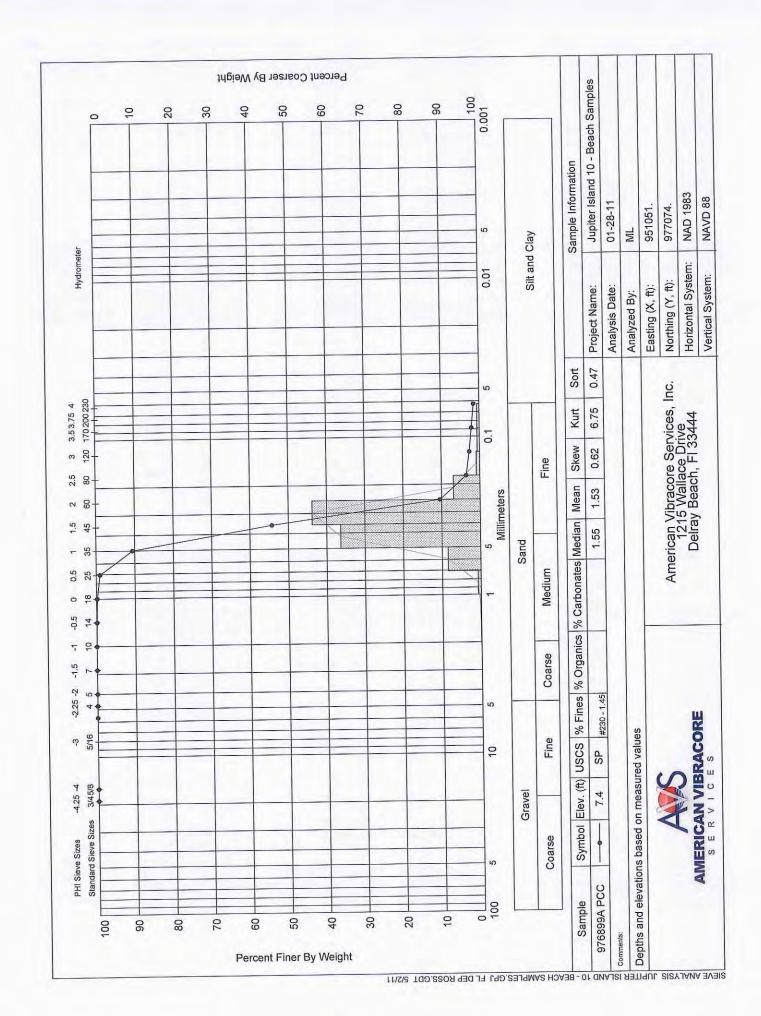


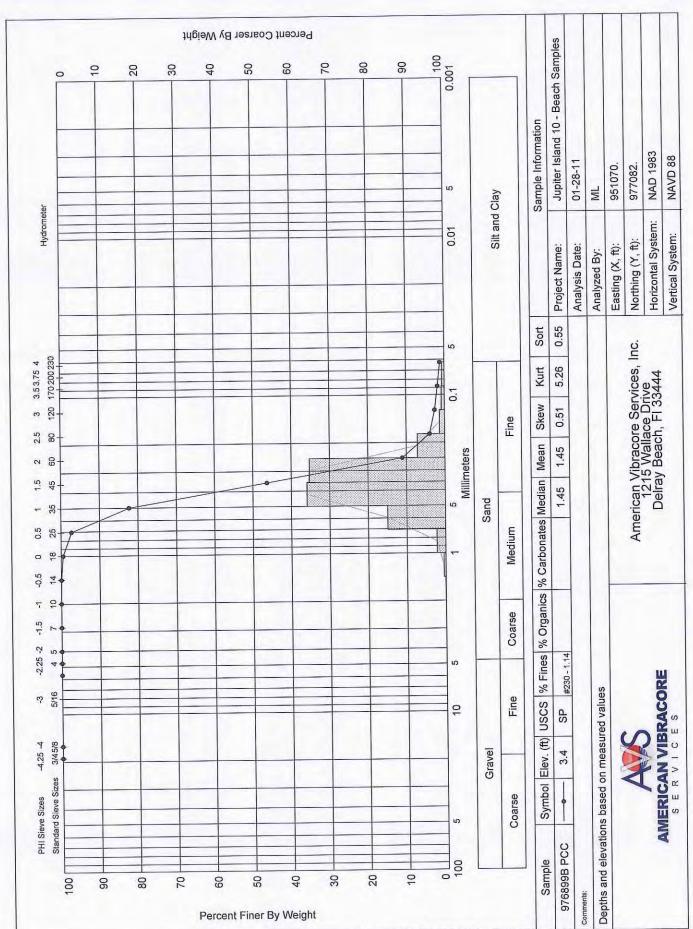


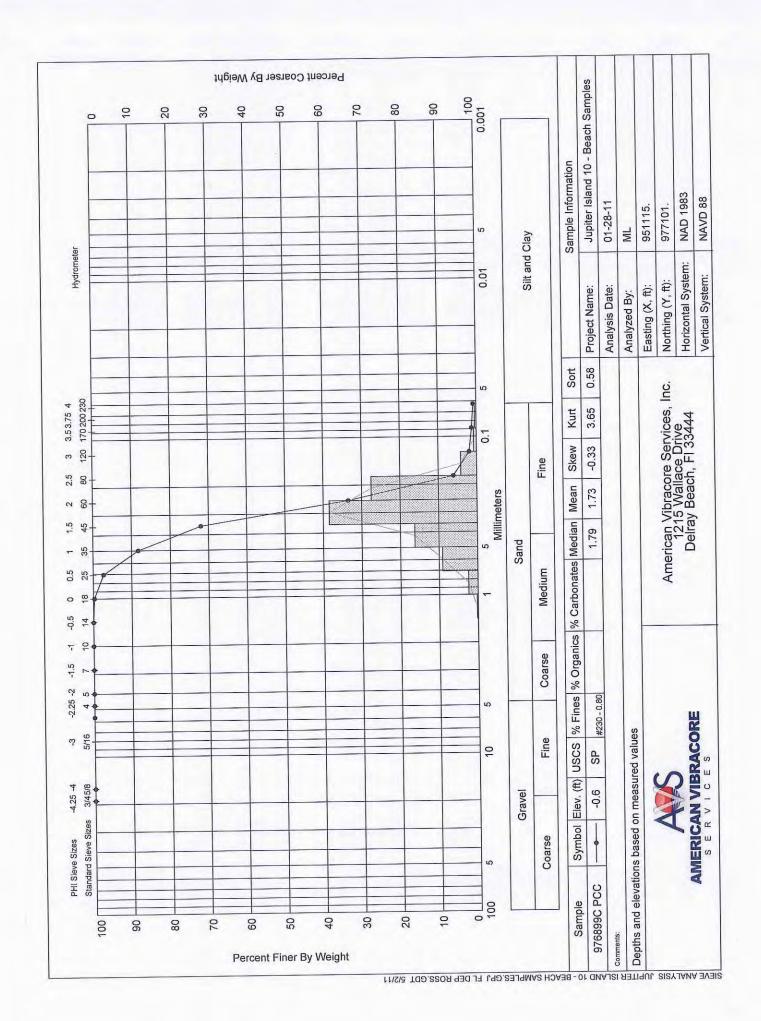


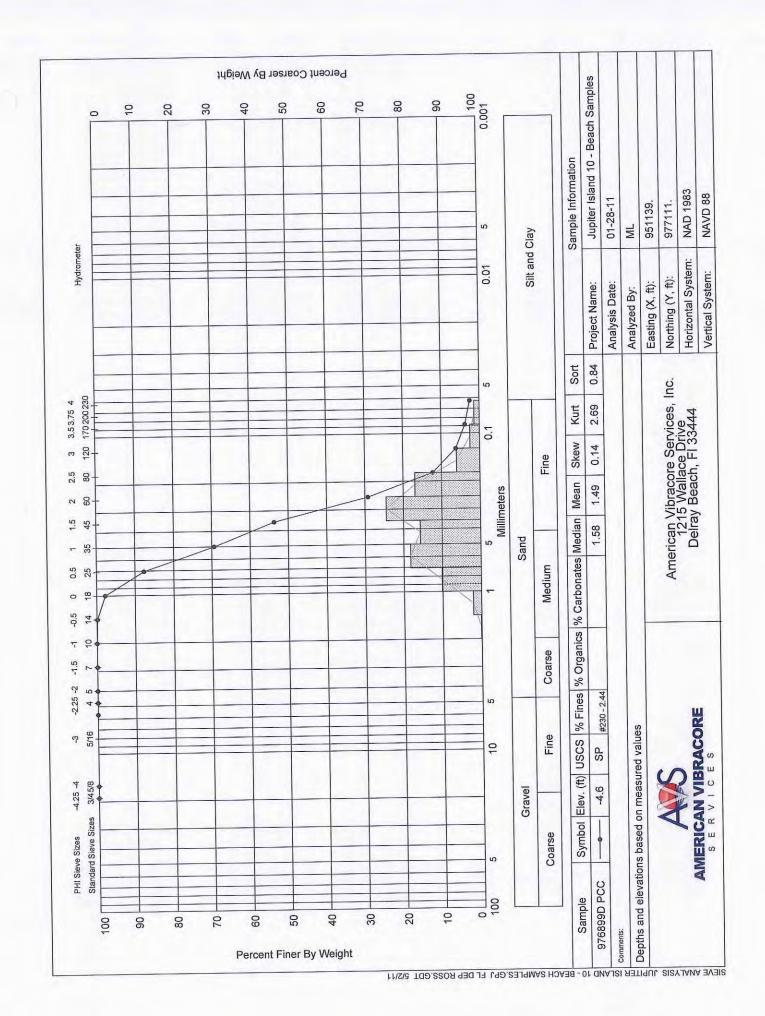


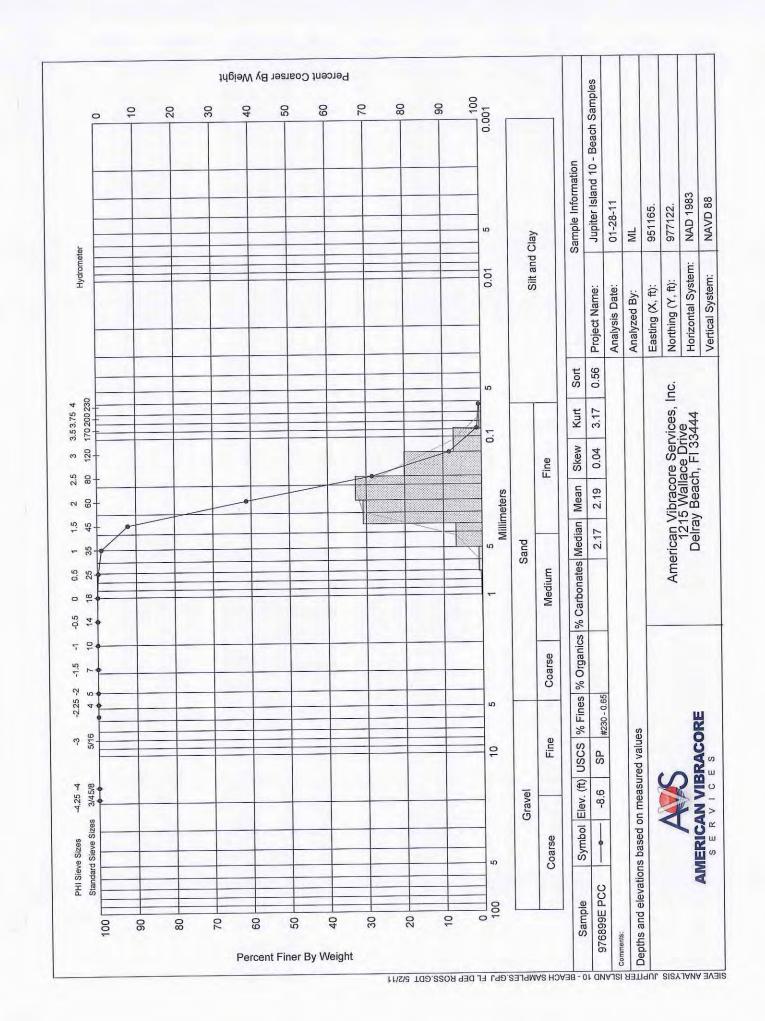


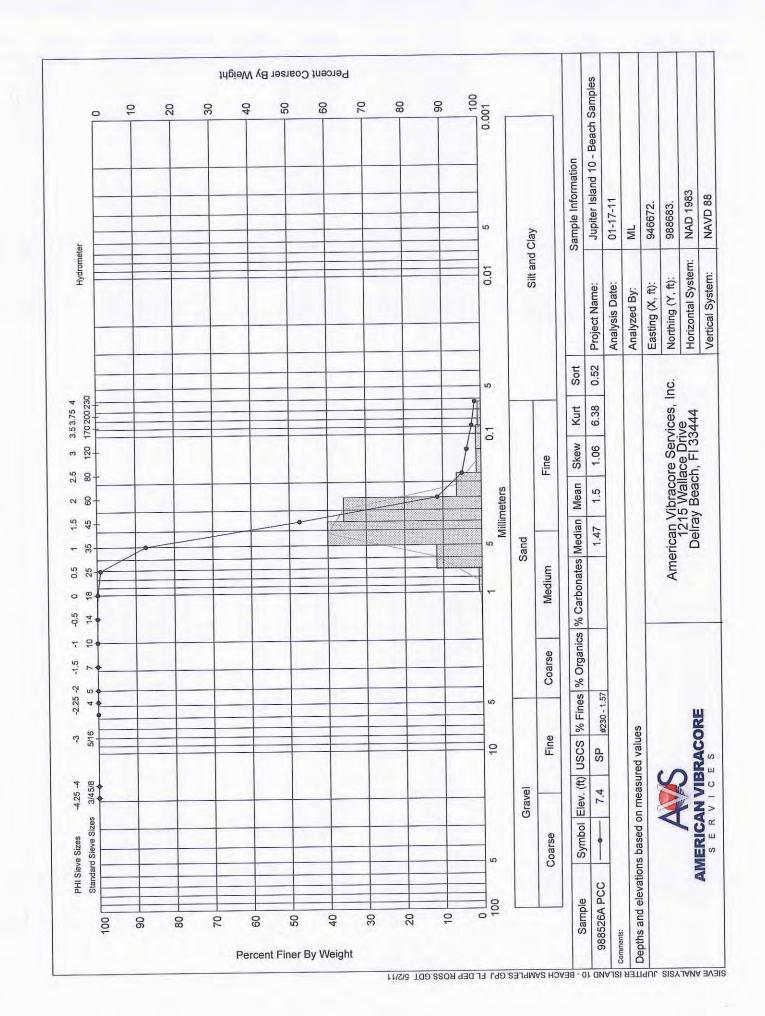


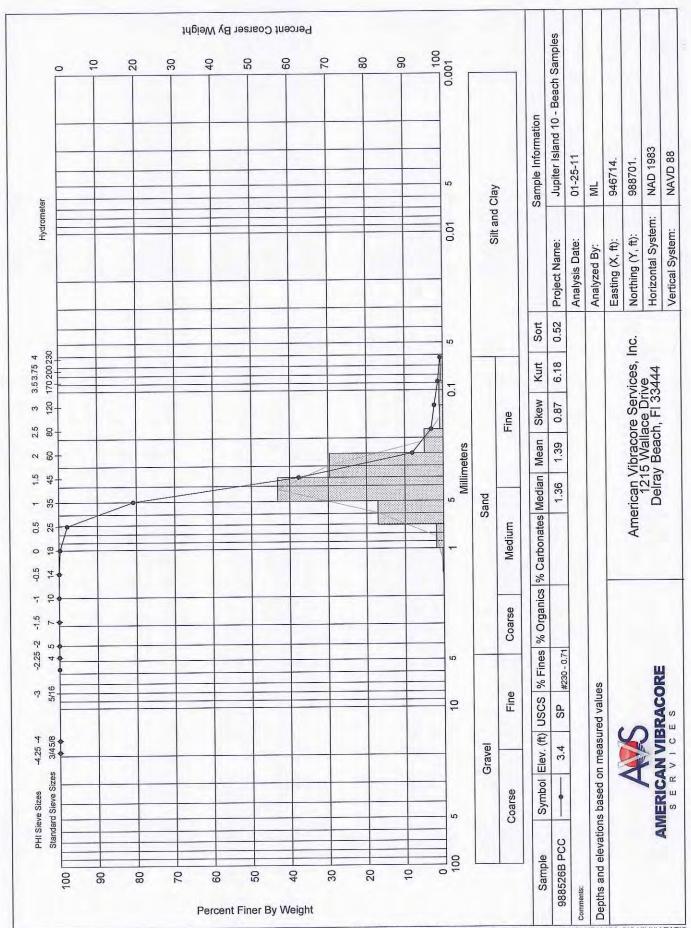


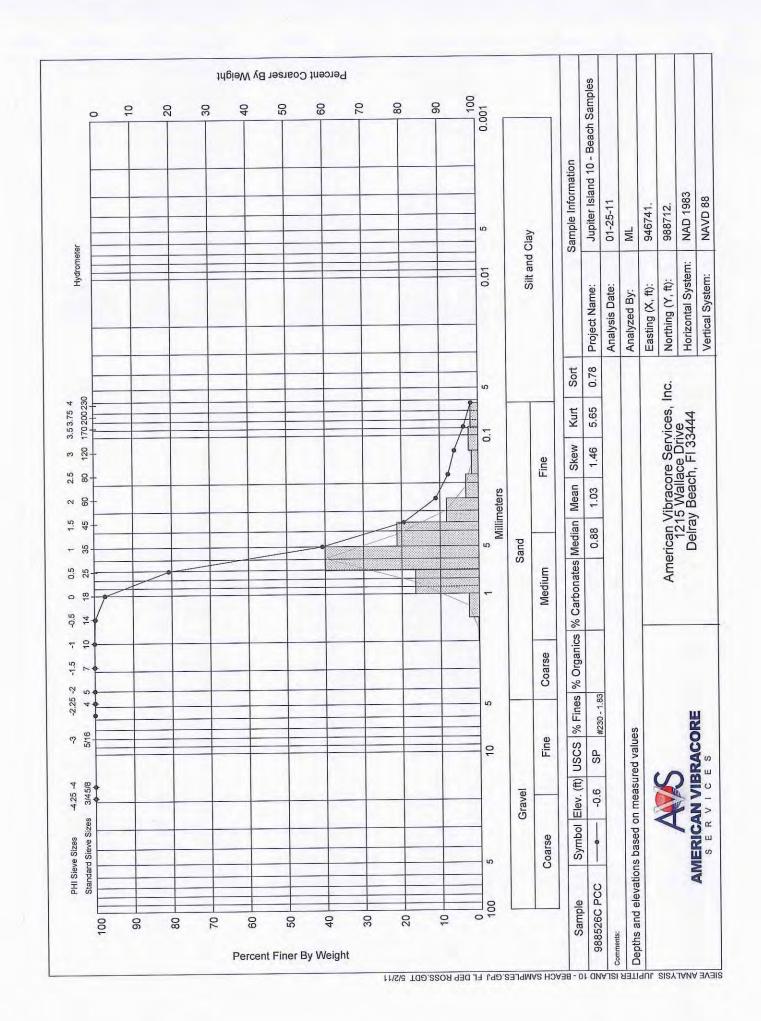


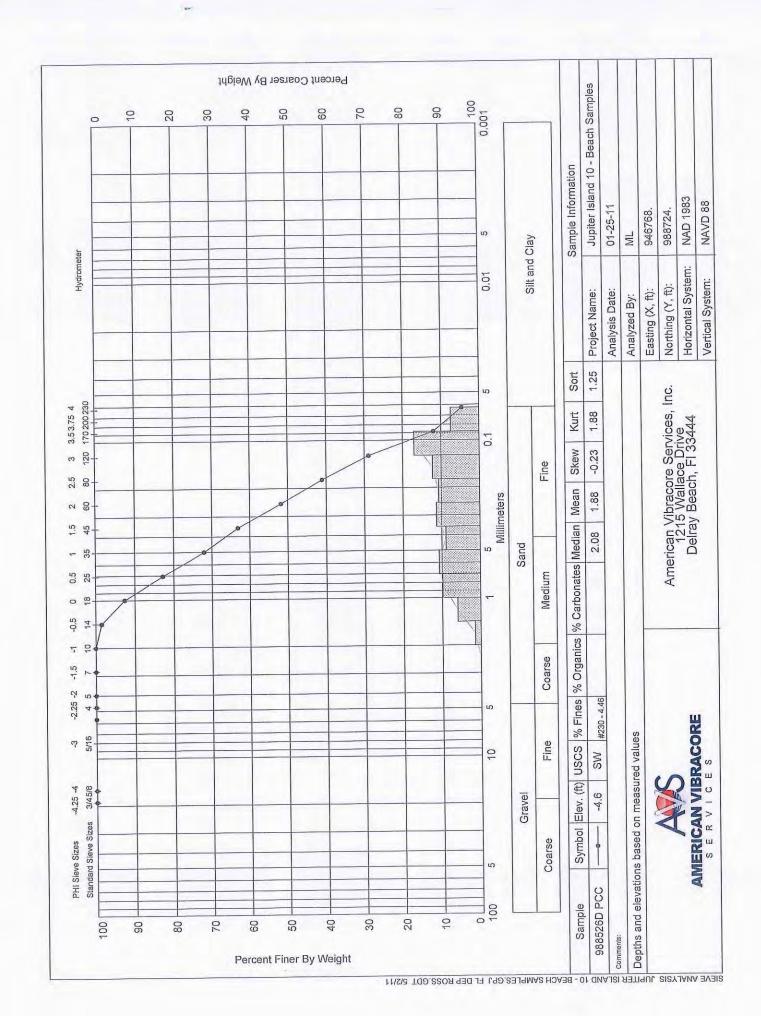


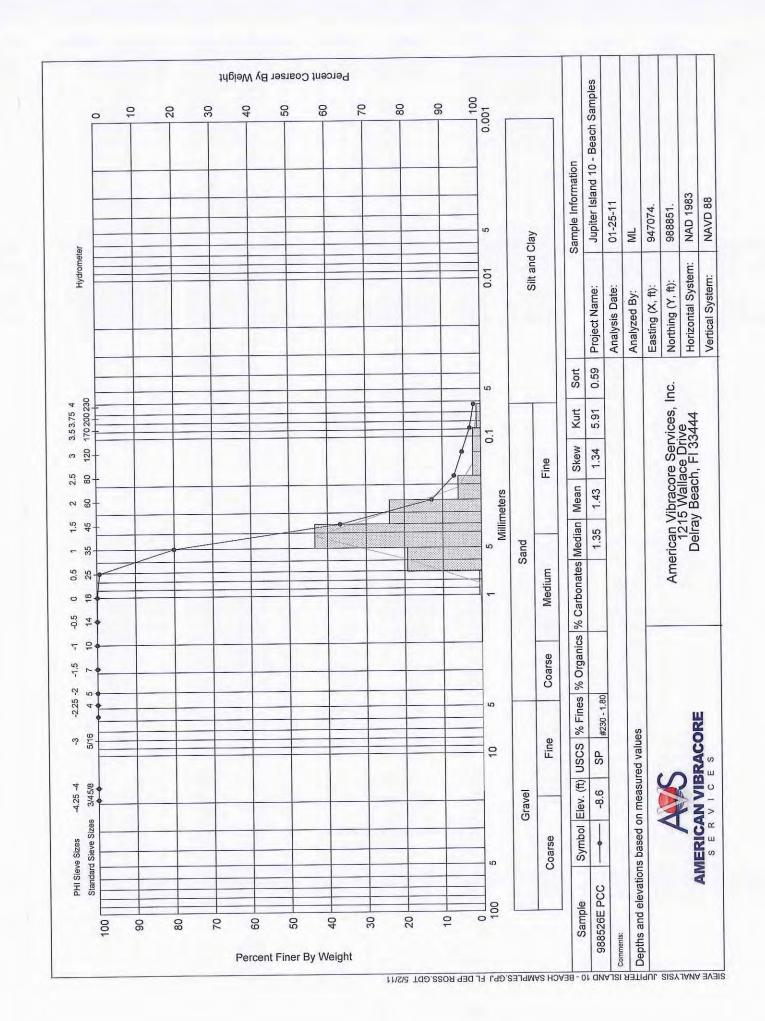


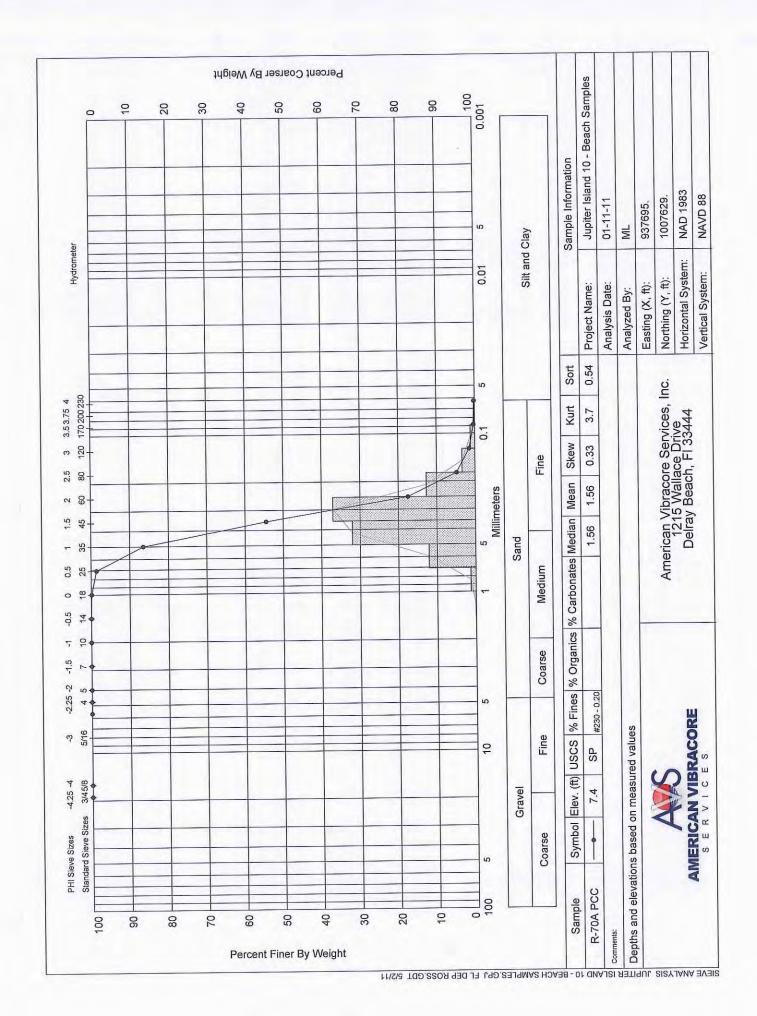


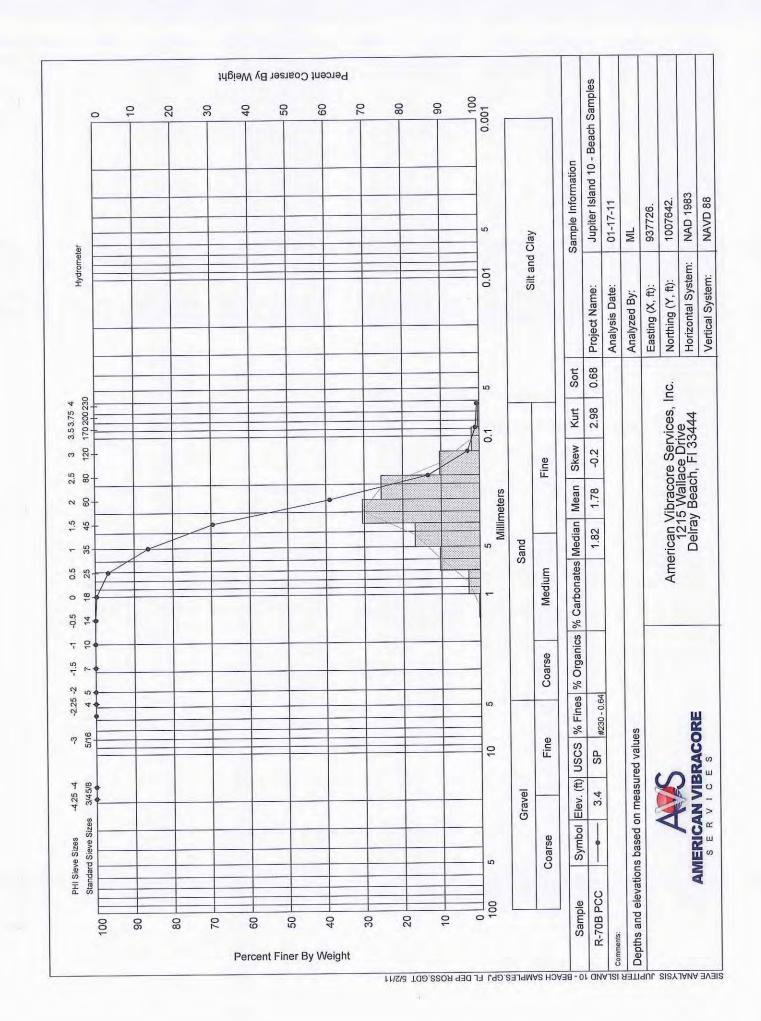


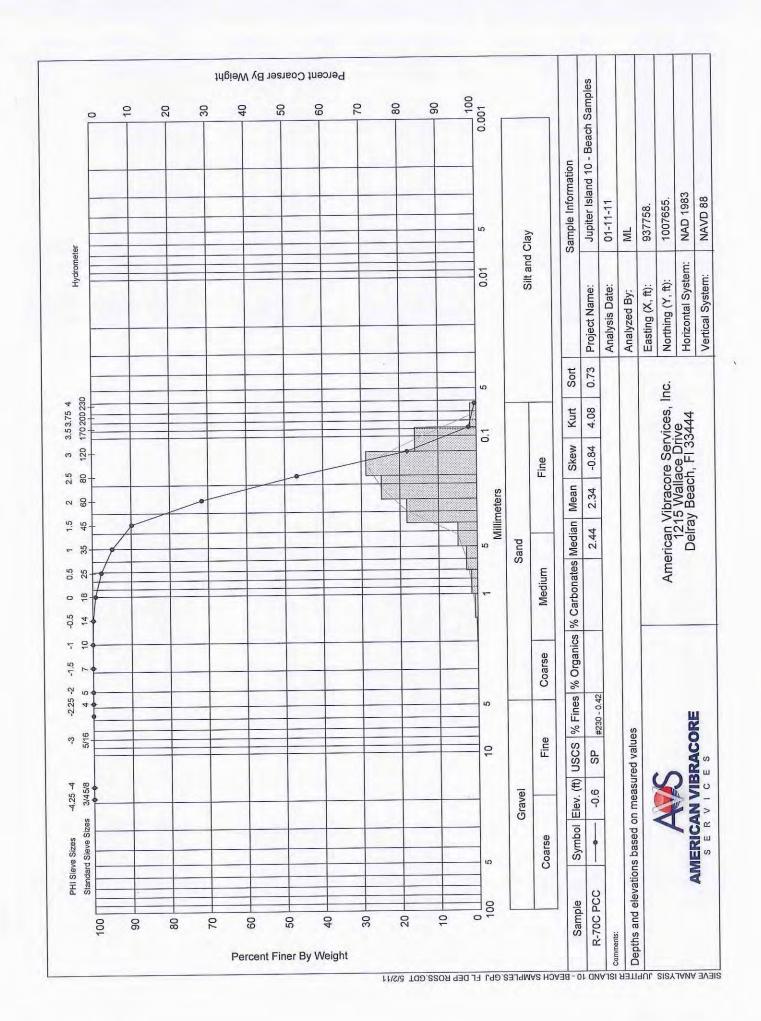


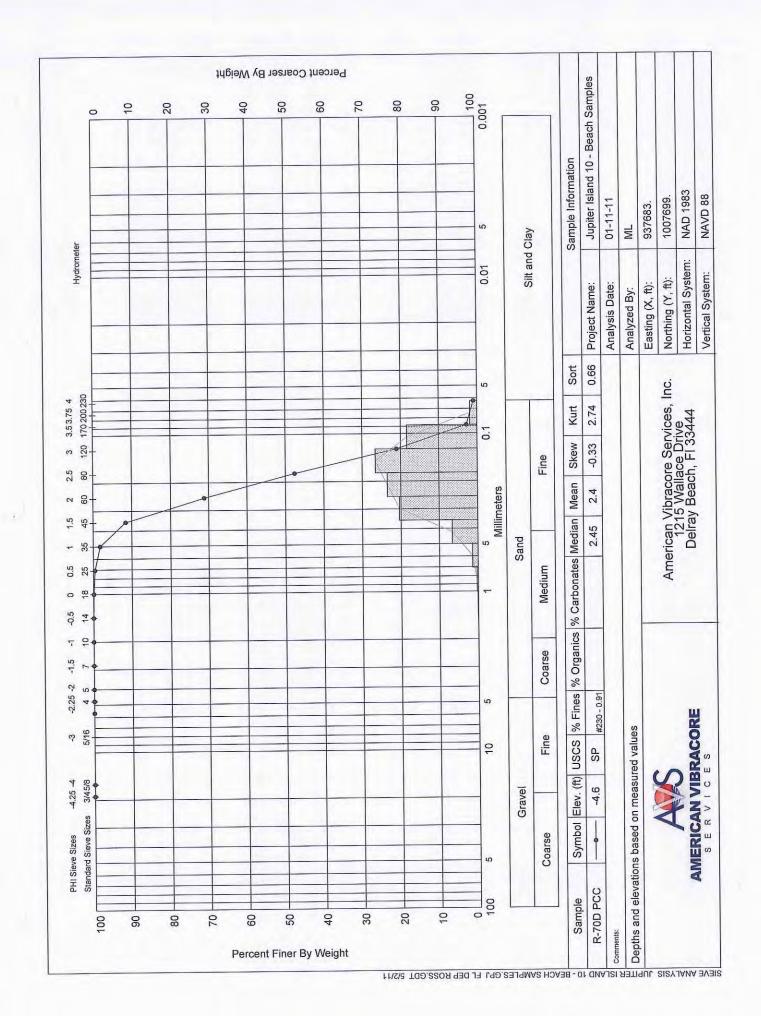


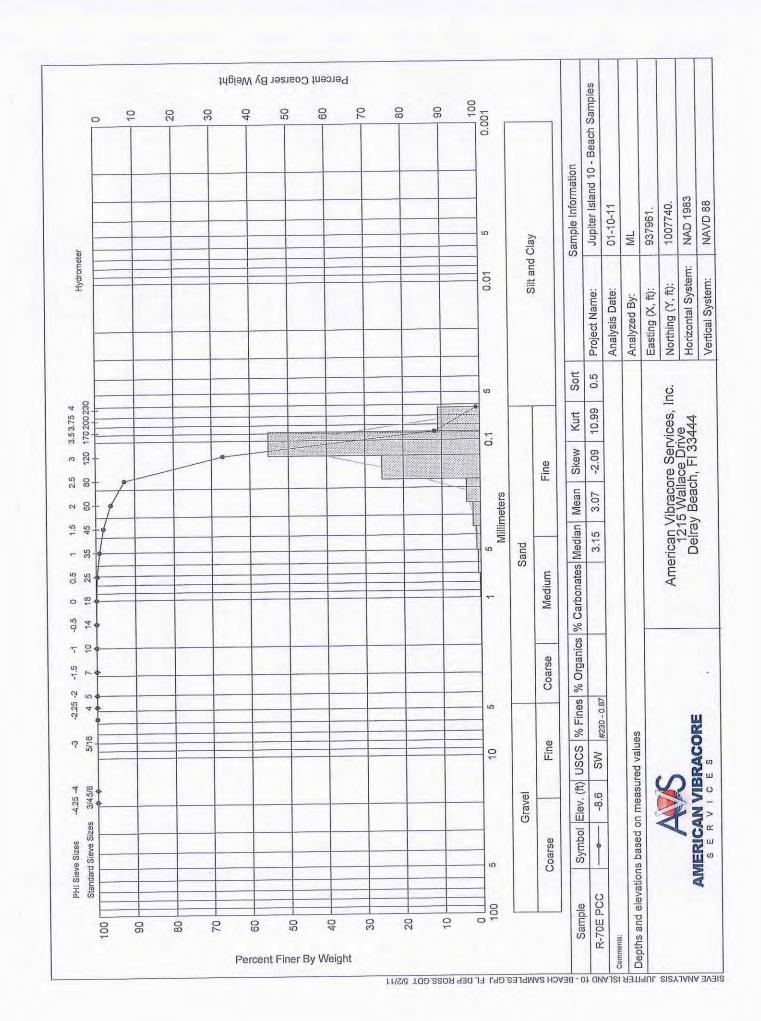












# Post CC Sieve Report



Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 1000258A PCC

Analysis Date: 01-17-11

Analyzed By: ML

AMERICAN VIBRACORE

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Coordinate System: Elevation (ft): Northing (ft): Easting (ft): 7.4 NAVD 88 941554. 1000417. Florida State Plane East

uscs:	Wet	- 10 YR-4/1				
Dry Weight (g): 24.24	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%): Org	ganics (%): Carbonates	(%): Shells (%):
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained
3/4"	-4.25	19.03		0.00	0.00	0.00
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00
3.5	-2.50	5.66	0.00	0.00	0.00	0.00
4	-2.25	4.76	0.00	0.00	0.00	0.00
5	-2.00	4.00	0.00	0.00	0.00	0.00
7	-1.50	2.83	0.00	0.00	0.00	0.00
10	-1.00	2.00	0.00	0.00	0.00	0.00
14	-0.50	1.41	0.01	0.04	0.01	0.04
18	0.00	1.00	0.08	0.33	0.09	0.37
25	0.50	0.71	0.47	1.94	0.56	2.31
35	1.00	0.50	3.65	15.06	4.21	17.37
45	1.50	0.35	8.07	33.29	12.28	50.66
60	2.00	0.25	7.63	31.48	19.91	82.14
80	2.50	0.18	2.06	8.50	21.97	90.64
120	3.00	0.13	0.67	2.76	22.64	93.40
170	3.50	0.09	0.81	3.34	23.45	96.74
230	4.00	0.06	0.32	1.32	23.77	98.06

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.24	2.11	1.89	1.49	1.11	0.95	0.59
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	1.54	0.34	0.0	36	0.87	4.55

GRANULARMETRIC REPORT JUPITER ISLAND 10 - BEACH SAMPLES. GPJ FL DEP ROSS. GDT 5/2/11

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 1000258B PCC

Analysis Date: 01-17-11

Analyzed By: ML

AMERICAN VIBRACORE SERVICES

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

Easting (ft):	Northin			Coordinate Syste	m:		Elevation (ft):	
941580	Munsell:	100042	8.		a State Plane	e East	3.4	NAVD 88
USCS:		40.45 5/0	Commer	no.				
SP Dry Weight (g):	Wash Weight (g):	- 10 YR-5/2 Pan Retained (	g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates	(%): Shells (%):
21.93	21.50	0.04	4	0.09	#230 - 2.23	3		
Sieve Number	Sieve Size (Phi)	Sieve S (Millime		Grams Retained	% Weigl Retaine		. Grams tained	C. % Weigl Retained
3/4"	-4.25	19.0	3		0.00	(	0.00	0.00
5/8"	-4.00	16.0	0	0.00	0.00	(	0.00	0.00
3.5	-2.50	5.66	3	0.00	0.00	(	0.00	0.00
4	-2.25	4.76	3	0.00	0.00	(	0.00	0.00
5	-2.00	4.00	)	0.00	0.00	(	0.00	0.00
7	-1.50	2.83	3	0.00	0.00		0.00	0.00
10	-1.00	2.00	0	0.00	0.00	(	0.00	0.00
14	-0.50	1.4	1	0.00	0.00	(	0.00	0.00
18	0.00	1.00	0	0.11	0.50	(	0.11	0.50
25	0.50	0.7	1	0.79	3.60	(	0.90	4.10
35	1.00	0.5	0	1.98	9.03	2	2.88	13.13
45	1.50	0.3	5	3.19	14.55	(	3.07	27.68
60	2.00	0.2	5	5.41	24.67	1	1.48	52.35
80	2.50	0.1	8	4.70	21.43	1	6.18	73.78
120	3.00	0.1	3	3.12	14.23	1	9.30	88.01
170	3.50	0.0	9	1.83	8.34	2	1.13	96.35
230	4.00	0.0	6	0.31	1.41	2	1.44	97.77
Phi 5	Phi 16	Phi :	25	Phi 50	Phi 75	Б	hi 84	Phi 95
3.42	2.86	2.5	4	1.95	1.41		1.10	0.55
Moment	Mean Ph	i N	lean r	nm S	orting	Skewne	ss	Kurtosis
Statistics	1.93		0.26		0.81	-0.11		2.61

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.42	2.86	2.54	1.95	1.41	1.10	0.55
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	1.93	0.26	0.0	31	-0.11	2.61

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 1000258C PCC

Analysis Date: 01-17-11

Analyzed By: ML

Easting (ft):

Northing (ft):

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

AMERICAN VIBRACORE SERVICES

Elevation (ft): Coordinate System:

0 6 NAVD 88

941611	0	1000441.	Florid	a State Plane Eas	st -0.6	S NAVD 88
uscs: SP	Munsell:	- 10 YR-5/2				
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%): Orga	anics (%): Carbonates	(%): Shells (%):
23.37	23.33	0.02	0.04	#230 - 0.30		
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained
3/4"	-4.25	19.03		0.00	0.00	0.00
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00
3.5	-2.50	5.66	0.00	0.00	0.00	0.00
4	-2.25	4.76	0.00	0.00	0.00	0.00
5	-2.00	4.00	0.00	0.00	0.00	0.00
7	-1.50	2.83	0.00	0.00	0.00	0.00
10	-1.00	2.00	0.00	0.00	0.00	0.00
14	-0.50	1.41	0.05	0.21	0.05	0.21
18	0.00	1.00	0.27	1.16	0.32	1.37
25	0.50	0.71	0.45	1.93	0.77	3.29
35	1.00	0.50	0.74	3.17	1.51	6.46
45	1.50	0.35	1.35	5.78	2.86	12.24
60	2.00	0.25	4.03	17.24	6.89	29.48
80	2.50	0.18	6.83	29.23	13.72	58.71
120	3.00	0.13	6.17	26.40	19.89	85.11
170	3.50	0.09	3.05	13.05	22.94	98.16
230	4.00	0.06	0.36	1.54	23.30	99.70

Phi 5	Phi 16	Phi 25	Phi 50	Phi 7	5	Phi 84	Phi 95
3.38	2.98	2.81	2.35	1.87		1.61	0.77
Moment	Mean Phi	Mean mm	Sor	ting	Ske	wness	Kurtosis
Statistics	2.27	0.21	0.	76	-(	0.92	4.33

TER ISLAND 10 - BEACH SAMPLES.GPJ FL DEP ROSS.GDT 5/2/11

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 1000258D PCC

Analysis Date: 01-10-11

Analyzed By: ML

AMERICAN VIBRACORE SERVICES

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

Elevation (ft): Coordinate System: Easting (ft): Northing (ft):

-4.6 NAVD 88 1000467 0/1673

941673		1000467.		a State Plane	East	-4.6	NAVD 88
SCS:	Munsell:	Commer	nts:				
SP ry Weight (g):	Wet -	10 YR-6/1 Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (9	%): Shells (%):
70.78	70.29	0.43	0.01	#230 - 1.31	N. S. CO. L. S. C.		
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weigh	nt Cum	. Grams	C. % Weigl
3/4"	-4.25	19.03	11010111011	0.00		0.00	0.00
5/8"	-4.00	16.00	0.00	0.00		0.00	0.00
3.5	-2.50	5.66	0.00	0.00		0.00	0.00
4	-2.30	4.76	0.00	0.00		0.00	0.00
5	-2.23	4.00	0.00	0.00		0.00	0.00
7	-1.50	2.83	0.00	0.00		0.00	0.00
10	-1.00	2.00	0.00	0.00		0.00	0.00
14	-0.50	1.41	0.00	0.00		0.00	0.00
18	0.00	1.00	0.00	0.00		0.00	
25	0.50	0.71	0.04	0.06		0.04	0.06
35	1.00	0.50	0.09	0.13		0.13	0.18
45	1.50	0.35	0.38	0.54		0.51	0.72
60	2.00	0.25	2.15	3.04		2.66	3.76
80	2.50	0.18	6.94	9.81	3	9.60	13.56
120	3.00	0.13	28.01	39.57	3	37.61	53.14
170	3.50	0.09	28.43	40.17	6	6.04	93.30
230	4.00	0.06	3.81	5.38	6	9.85	98.69
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	F	hi 84	Phi 95
3.66	3.38	3.27	2.96	2.64		2.53	2.06
Moment	Mean Phi	Mean r	mm S	Sorting	Skewne	ess	Kurtosis
Statistics	2.92	0.13		0.45	-0.88		4.91

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.66	3.38	3.27	2.96	2.64	2.53	2.06
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	2.92	0.13	0.4	45	-0.88	4.91

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 1000258E PCC

Analysis Date: 01-10-11

Analyzed By: ML

Easting (ft):

Northing (ft):



American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

Elevation (ft): Coordinate System:

-8.6 NAVD 88 941736. 1000494. Florida State Plane East

sw	Wet -	10 YR-6/1				Land	
ry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
52.06	51.75	0.39	0.04	#230 - 1.38			
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weigh Retained		. Grams C tained	C. % Weigh Retained
3/4"	-4.25	19.03		0.00	(	0.00	0.00
5/8"	-4.00	16.00	0.00	0.00	(	0.00	0.00
3.5	-2.50	5.66	0.00	0.00	(	0.00	0.00
4	-2.25	4.76	0.00	0.00	(	0.00	0.00
5	-2.00	4.00	0.00	0.00		0.00	0.00
7	-1.50	2.83	0.00	0.00		0.00	0.00
10	-1.00	2.00	0.00	0.00		0.00	0.00
14	-0.50	1.41	0.00	0.00		0.00	0.00
18	0.00	1.00	0.01	0.02		0.01	0.02
25	0.50	0.71	0.02	0.04		0.03	0.06
35	1.00	0.50	0.05	0.10		0.08	0.15
45	1.50	0.35	0.08	0.15		0.16	0.31
60	2.00	0.25	0.40	0.77		0.56	1.08
80	2.50	0.18	2.15	4.13		2.71	5.21
120	3.00	0.13	15.17	29.14		17.88	34.34
170	3.50	0.09	29.27	56.22	4	17.15	90.57
230	4.00	0.06	4.19	8.05		51.34	98.62
		0.06	4.19	8.05		51.34	98.62
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	5 F	Phi 84	Phi 95
3.78	3.44	3.36	3.14	2.84		2.69	2.47
Moment	Mean Phi	Mean	mm S	Sorting	Skewne	ess	Kurtosis
Statistics	3.08	0.1	0	0.38	-1.18	2	7.76

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.78	3.44	3.36	3.14	2.84	2.69	2.47
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	3.08	0.12	0.3	38	-1.18	7.76

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 965058A PCC

Analysis Date: 01-28-11

Analyzed By: ML

AMERICAN VIBRACORE

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Elevation (ft): Coordinate System: Easting (ft): Northing (ft): 7.4 NAVD 88 953999 965299. Florida State Plane Fast

953999	).	965299.	Florid	a State Plane Ea	st 7.4	INTIVID OO
uscs: SW	Munsell: Wet	- 10 YR-5/1	nts:			
Dry Weight (g): 29.33	Wash Weight (g): 28.95	Pan Retained (g):	Sieve Loss (%): 0.03	Fines (%): Org	anics (%): Carbonates	(%): Shells (%):
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained
3/4"	-4.25	19.03		0.00	0.00	0.00
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00
3.5	-2.50	5.66	0.00	0.00	0.00	0.00
4	-2.25	4.76	0.00	0.00	0.00	0.00
5	-2.00	4.00	0.00	0.00	0.00	0.00
7	-1.50	2.83	0.00	0.00	0.00	0.00
10	-1.00	2.00	0.00	0.00	0.00	0.00
14	-0.50	1.41	0.01	0.03	0.01	0.03
18	0.00	1.00	0.10	0.34	0.11	0.38
25	0.50	0.71	1.34	4.57	1.45	4.94
35	1.00	0.50	2.62	8.93	4.07	13.88
45	1.50	0.35	3.86	13.16	7.93	27.04
60	2.00	0.25	5.61	19.13	13.54	46.16
80	2.50	0.18	1.73	5.90	15.27	52.06
120	3.00	0.13	9.86	33.62	25.13	85.68
170	3.50	0.09	3.57	12.17	28.70	97.85
230	4.00	0.06	0.21	0.72	28.91	98.57

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.38	2.98	2.84	2.33	1.42	1.08	0.50
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	2.09	0.23	0.	89	-0.44	2.15

JUPITER ISLAND 10 - BEACH SAMPLES.GPJ FL DEP ROSS.GDT 5/2/11

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 965058B PCC

Analysis Date: 01-28-11

Analyzed By: ML

Easting (ft):

AMERICAN VIBRACORE SERVICES

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Elevation (ft): Northing (ft): Coordinate System:

3.4 NAVD 88 065216

954040	).	965316.	Florid	a State Plane Ea	st 3	.4 NAVD 88
uscs:	Munsell:	- 10 YR-5/1	nts:			
Dry Weight (g): 39.49	Wash Weight (g):	Pan Retained (g): 0.02	Sieve Loss (%): 0.03	Fines (%): Orga #230 - 0.48	anics (%): Carbona	tes (%): Shells (%):
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained
3/4"	-4.25	19.03		0.00	0.00	0.00
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00
3.5	-2.50	5.66	0.00	0.00	0.00	0.00
4	-2.25	4.76	0.00	0.00	0.00	0.00
5	-2.00	4.00	0.00	0.00	0.00	0.00
7	-1.50	2.83	0.00	0.00	0.00	0.00
10	-1.00	2.00	0.00	0.00	0.00	0.00
14	-0.50	1.41	0.00	0.00	0.00	0.00
18	0.00	1.00	0.04	0.10	0.04	0.10
25	0.50	0.71	0.44	1.11	0.48	1.22
35	1.00	0.50	5.10	12.91	5.58	14.13
45	1.50	0.35	11.73	29.70	17.31	43.83
60	2.00	0.25	13.46	34.08	30.77	77.92
80	2.50	0.18	5.99	15.17	36.76	93.09
120	3.00	0.13	1.97	4.99	38.73	98.08
170	3.50	0.09	0.43	1.09	39.16	99.16
230	4.00	0.06	0.14	0.35	39.30	99.52

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.69	2.20	1.96	1.59	1.18	1.03	0.65
Moment	Mean Phi	Mean mm	Sort	ing	Skewness	Kurtosis
Statistics	1.6	0.33	0.8	58	0.38	3.42

PITER ISLAND 10 - BEACH SAMPLES.GPJ FL DEP ROSS.GDT 5/2/11

Depths and elevations based on measured values

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 965058C PCC

Analysis Date: 01-28-11

Analyzed By: ML

BRACORE SERVICES

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

Elevation (ft): Coordinate System: Easting (ft): Northing (ft): -0.6 NAVD 88 965328. 954067. Florida State Plane East Comments: USCS: Munsell: SP Wet - 10 YR-5/1 Organics (%): Carbonates (%): Shells (%): Sieve Loss (%): Fines (%): Dry Weight (g): Wash Weight (g): Pan Retained (g): 0.04 #230 - 0.67 0.04 28.25 28.11 Cum. Grams C. % Weight Grams % Weight Sieve Size Sieve Size Sieve Number Retained Retained Retained Retained (Millimeters) (Phi) 0.00 0.00 0.00 19.03 3/4" -4.250.00 0.00 0.00 0.00 5/8" -4.0016.00 0.00 0.00 5.66 0.00 0.00 3.5 -2.500.00 0.00 0.00 0.00 -2.254.76 4 0.00 0.00 0.00 4.00 0.00 5 -2.000.00 0.00 7 2.83 0.00 0.00 -1.500.00 0.00 0.00 0.00 -1.002.00 10 0.04 0.04 0.01 1.41 0.01 -0.5014 0.05 0.18 0.14 18 0.00 1.00 0.04 0.70 2.48 0.71 0.65 2.30 0.50 25 5.68 20.11 0.50 4.98 17.63 1.00 35 GRANULARMETRIC REPORT JUPITER ISLAND 10 - BEACH SAMPLES, GPJ FL DEP ROSS, GDT 5/2/11 54.97 34.87 15.53 0.35 9.85 1.50 45 85.17 24.06 0.25 8.53 30.19 60 2.00 26.73 94.62 0.18 2.67 9.45 80 2.50 97.70 3.08 27.60 0.87 0.13 120 3.00 27.92 98.83 0.32 1.13 0.09 170 3.50 99.33 0.14 0.50 28.06 4.00 0.06 230

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.56	1.98	1.83	1.43	1.07	0.88	0.57
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	1.46	0.36	0.	59	0.61	4.17

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 965058D PCC

Analysis Date: 01-28-11

Analyzed By: ML

Easting (ft):

Northing (ft):

AMERICAN VIBRACORE

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

Elevation (ft): Coordinate System:

954088	8.	965336.	Florid	a State Plane	East	-4.6	-4.6 NAVD 88	
JSCS:	Munsell:	Comme	nts;					
SP Dry Weight (g):	Wet Wash Weight (g):	- 10 YR-5/1 Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (	(%): Shells (%):	
13.76	13.54	0.03	0.00	#230 - 1.82				
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weigh		Grams	C. % Weigh Retained	
3/4"	-4.25	19.03		0.00	(	0.00	0.00	
5/8"	-4.00	16.00	0.00	0.00	(	0.00	0.00	
3.5	-2.50	5.66	0.00	0.00	(	0.00	0.00	
4	-2.25	4.76	0.00	0.00	(	0.00	0.00	
5	-2.00	4.00	0.00	0.00	(	0.00	0.00	
7	-1.50			0.00		0.00	0.00	
10	-1.00	2.00	0.00	0.00	(	0.00	0.00	
14	-0.50	1.41	0.05	0.36	0.36		0.36	
18	0.00	1.00	0.34	2.47	(	0.39	2.83	
25	0.50	0.71	1.74	12.65	2	2.13	15.48	
35	1.00	0.50	4.44	32.27	(	3.57	47.75	
45	1.50	0.35	3.86	28.05	1	0.43	75.80	
60	2.00	0.25	1.70	12.35	1	2.13	88.15	
80	2.50	0.18	0.52	3.78	1	2.65	91.93	
120	3.00	0.13	0.37	2.69	1	3.02	94.62	
170	3.50	0.09	0.32	2.33	1	3.34	96.95	
230	4.00	0.06	0.17	1.24	1	3.51	98.18	
95 60 80 120 170 230 Phi 5 3.08 Moment Statistics	Phi 16	Phi 25	Phi 50	Phi 75	F	hi 84	Phi 95	
3.08	1.83	1.49	1.04	0.65		0.51	0.09	
Moment	Mean Ph	i Mean	mm §	Sorting	Skewness		Kurtosis	
Statistics	1.13	0.40	6	0.76	1.04		4.73	

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.08	1.83	1.49	1.04	0.65	0.51	0.09
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	1.13	0.46	0.	76	1.04	4.73

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 965058E PCC

Analysis Date: 01-28-11

Analyzed By: ML

Easting (ft):

Northing (ft): Coordinate System: American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

AMERICAN VIBRACORE

Elevation (ft):

954218	3.	965391.	Florid	a State Plane	East	-8.6	NAVD 88
uscs:	Munsell:	t - 10 YR-5/1	nts:				
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates	(%): Shells (%):
28.07	27.95	0.03	0.04	#230 - 0.57			
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weigh Retained	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Grams tained	C. % Weigh Retained
3/4"	-4.25	19.03		0.00	C	0.00	0.00
5/8"	-4.00	16.00	0.00	0.00	0	0.00	0.00
3.5	-2.50	5.66	0.00	0.00	(	0.00	0.00
4	-2.25	4.76	0.00	0.00		0.00	0.00
5	-2.00	4.00	0.00	0.00	(	0.00	0.00
7	-1.50	2.83	0.00	0.00	(	0.00	0.00
10	-1.00	2.00	0.00	0.00	(	0.00	0.00
14	-0.50	1.41	0.02	0.07	(	0.02	0.07
18	0.00	1.00	0.07	0.25		0.09	0.32
25	0.50	0.71	0.81	2.89		0.90	3.21
35	1.00	0.50	3.09	11.01		3.99	14.21
45	1.50	0.35	4.94	17.60		3.93	31.81
60	2.00	0.25	7.59	27.04	1	6.52	58.85
80	2.50	0.18	5.77	20.56	2	2.29	79.41
120	3.00	0.13	3.99	14.21	2	6.28	93.62
170	3.50	0.09	1.44	5.13	2	7.72	98.75
230	4.00	0.06	0.19	0.68	2	7.91	99.43

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.13	2.66	2.39	1.84	1.31	1.05	0.58
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	1.84	0.28	0.	75	-0.03	2.64

GRANULARMETRIC REPORT JUPITER ISLAND 10 - BEACH SAMPLES.GPJ FL DEP ROSS.GDT 5/2/11

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 976899A PCC

Analysis Date: 01-28-11

Analyzed By: ML

Easting (ft):

Northing (ft):



American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

Elevation (ft): Coordinate System:

951051		977074		Florid	a State Plane	East	7.4 NAVD 88		
uscs:	Munsell:	- 10 YR-4/1	Comments:						
Dry Weight (g):	Wash Weight (g):	Pan Retained (	g): Sie	eve Loss (%):	Fines (%):	Organics (%):	Carbonates	(%): Shells (%):	
36.64	36.17	0.03	3	0.08	#230 - 1.45	5			
Sieve Number	Sieve Size (Phi)	Sieve S (Millime	Section of the sectio	Grams Retained	% Weigl Retaine		. Grams tained	C. % Weigh Retained	
3/4"	-4.25	19.0	3		0.00	1	0.00	0.00	
5/8"	-4.00	16.0	0	0.00	0.00		0.00	0.00	
3.5	-2.50	5.66	3	0.00	0.00		0.00	0.00	
4	-2.25	4.76	3	0.00	0.00		0.00	0.00	
5	-2.00	4.00	)	0.00	0.00		0.00	0.00	
7	-1.50	2.83	3	0.00	0.00		0.00	0.00	
10	-1.00	2.00	0	0.00	0.00		0.00	0.00	
14	-0.50	1.4	1	0.03	0.08		0.03	0.08	
18	0.00	1.0	0	0.04	0.11		0.07	0.19	
25	0.50	0.7	1	0.28	0.76		0.35	0.96	
35	1.00	0.5	0	3.11	8.49		3.46	9.44	
45	1.50	0.3	5	13.31	36.33		16.77	45.77	
60	2.00	0.2	5	16.05	43.80	:	32.82	89.57	
80	2.50	0.1	8	2.53	6.91		35.35	96.48	
120	3.00	0.1	3	0.32	0.87		35.67	97.35	
170	3.50	0.0	9	0.22	0.60		35.89	97.95	
230	4.00	0.0	6	0.22	0.60		36.11	98.55	

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.39	1.94	1.83	1.55	1.21	1.09	0.74
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	1.53	0.35	0.	47	0.62	6.75

GRANULARMETRIC REPORT JUPITER ISLAND 10 - BEACH SAMPLES GPJ FL DEP ROSS GDT 5/2/11

Depths and elevations based on measured values

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 976899B PCC

Analysis Date: 01-28-11

Analyzed By: ML

Northing (ft):

BRACORE SERVICES

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

Elevation (ft): Coordinate System: Easting (ft): 3.4 NAVD 88

977082. 951070. Florida State Plane East Comments: Munsell: USCS: SP Wet - 10 YR-4/1 Organics (%): Carbonates (%): Shells (%): Sieve Loss (%): Fines (%): Pan Retained (g): Wash Weight (g): Dry Weight (g): #230 - 1.14 0.03 32.88 0.02 33.23 Cum. Grams C. % Weight % Weight Sieve Size Grams Sieve Size Sieve Number Retained Retained Retained Retained (Millimeters) (Phi) 0.00 0.00 0.00 19.03 -4.253/4" 0.00 0.00 0.00 -4.0016.00 0.00 5/8" 0.00 0.00 0.00 0.00 -2.505.66 3.5 0.00 0.00 0.00 0.00 4.76 4 -2.250.00 0.00 0.00 0.00 5 -2.004.00 0.00 0.00 2.83 0.00 0.00 7 -1.500.00 0.00 0.00 2.00 0.00 -1.0010 0.01 0.03 0.01 0.03 -0.501.41 14 0.51 0.17 0.48 0.00 1.00 0.16 18 2.74 0.71 0.74 2.23 0.91 25 0.50 5.88 17.69 4.97 14.96 0.50 35 1.00 JUPITER ISLAND 10 - BEACH SAMPLES.GPJ FL DEP ROSS.GDT 5/2/11 17.83 53.66 35.96 0.35 11.95 1.50 45 88.96 29.56 11.73 35.30 2.00 0.25 60 96.09 31.93 2.37 7.13 2.50 0.18 80 97.44 1.35 32.38 0.45 0.13 120 3.00 32.64 98.22 0.26 0.78 0.09 170 3.50 98.86 0.63 32.85 0.06 0.21 4.00 230

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.42	1.93	1.80	1.45	1.10	0.94	0.58
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	1.45	0.37	0.	55	0.51	5.26

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 976899C PCC

Analysis Date: 01-28-11

Analyzed By: ML

AMERICAN VIBRACORE SERVICES

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

Elevation (ft): Coordinate System: Northing (ft): Easting (ft):

-0.6 NAVD 88 951115. 977101. Florida State Plane Fast

SP Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):		rganics (%): Carbonate	s (%): Shells (%):
37.66	37.40	0.01	0.08	#230 - 0.80	Cum Crama	C. % Weight
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	Retained
3/4"	-4.25	19.03		0.00	0.00	0.00
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00
3.5	-2.50	5.66	0.00	0.00	0.00	0.00
4	-2.25	4.76	0.00	0.00	0.00	0.00
5	-2.00	4.00	0.00	0.00	0.00	0.00
7	-1.50	2.83	0.00	0.00	0.00	0.00
10	-1.00	2.00	0.00	0.00	0.00	0.00
14	-0.50	1.41	0.00	0.00	0.00	0.00
18	0.00	1.00	0.10	0.27	0.10	0.27
25	0.50	0.71	0.91	2.42	1.01	2.68
35	1.00	0.50	3.42	9.08	4.43	11.76
45	1.50	0.35	6.12	16.25	10.55	28.01
45 60 80 120 170 230	2.00	0.25	14.48	38.45	25.03	66.46
80	2.50	0.18	10.35	27.48	35.38	93.95
120	3.00	0.13	1.56	4.14	36.94	98.09
170	3.50	0.09	0.26	0.69	37.20	98.78
230	4.00	0.06	0.16	0.42	37.36	99.20

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	5 Ph	ni 84	Phi 95
2.63	2.32	2.16	1.79	1.41	1	.13	0.63
Moment	Mean Phi	Mean mm	Sor	ting	Skewnes	s	Kurtosis
Statistics	1.73	0.30	0.8	58	-0.33		3.65

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 976899D PCC

Analysis Date: 01-28-11

Analyzed By: ML

Easting (ft):

Northing (ft):

AMERICAN VIBRACORE

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Elevation (ft): Coordinate System:

951139	).	977111.		Florid	a State Plane	e East	-4.6	NAVD 88
uscs:	Munsell:	- 10 YR-4/1	Comments:					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g)	: Sieve	Loss (%):	Fines (%):	Organics (%):	Carbonates	(%): Shells (%):
14.34	14.00	0.01		0.00	#230 - 2.44	4		
Sieve Number	Sieve Size (Phi)	Sieve S (Millimet	Control of the Contro	Grams Retained	% Weig Retains	1 C T	n. Grams etained	C. % Weigh Retained
3/4"	-4.25	19.03	3		0.00		0.00	0.00
5/8"	-4.00	16.00	)	0.00	0.00		0.00	0.00
3.5	-2.50	5.66		0.00	0.00		0.00	0.00
4	-2.25	4.76		0.00	0.00		0.00	0.00
5	-2.00	4.00		0.00	0.00		0.00	0.00
7	-1.50	2.83		0.00	0.00		0.00	0.00
10	-1.00	2.00		0.00	0.00		0.00	0.00
14	-0.50	1.41		0.02	0.14		0.02	0.14
18	0.00	1.00		0.30	2.09		0.32	2.23
25	0.50	0.71		1.45	10.11		1.77	12.34
35	1.00	0.50		2.62	18.27	7	4.39	30.61
45	1.50	0.35		2.25	15.69	)	6.64	46.30
60	2.00	0.25		3.51	24.48	3	10.15	70.78
80	2.50	0.18	3	2.43	16.95	5	12.58	87.73
120	3.00	0.13	3	0.87	6.07		13.45	93.79
170	3.50	0.09	)	0.35	2.44		13.80	96.23
230	4.00	0.06	3	0.19	1.32		13.99	97.56

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.25	2.39	2.12	1.58	0.85	0.60	0.14
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	1.49	0.36	0.	84	0.14	2.69

FER ISLAND 10 - BEACH SAMPLES.GPJ FL DEP ROSS.GDT 5/2/11

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 976899E PCC

Analysis Date: 01-28-11

Analyzed By: ML

Easting (ft):

Northing (ft):

AMERICAN VIBRACORE SERVICES

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

Elevation (ft): Coordinate System:

-8.6 NAVD 88 951165 977122 Florida State Plane Fast

951165	)	977122.		a State Plan	e East	-8.6	NAVD 00
JSCS:	Munsell:	Commer	nts:				
SP		- 10 YR-5/1 Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (	%): Shells (%):
Dry Weight (g): 49.09	Wash Weight (g): 48.83	0.04	0.04	#230 - 0.6			
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weig Retain		. Grams tained	C. % Weigl Retained
3/4"	-4.25	19.03		0.00		0.00	0.00
5/8"	-4.00	16.00	0.00	0.00		0.00	0.00
3.5	-2.50	5.66	0.00	0.00	( )	0.00	0.00
4	-2.25	4.76	0.00	0.00		0.00	0.00
5	-2.00	4.00	0.00	0.00		0.00	0.00
7	-1.50	2.83	0.00	0.00		0.00	0.00
10	-1.00	2.00	0.00	0.00	)	0.00	0.00
14	-0.50	1.41	0.01	0.02	2	0.01	0.02
18	0.00	1.00	0.02	0.04	L	0.03	0.06
25	0.50	0.71	0.10	0.20	)	0.13	0.26
35	1.00	0.50	0.42	0.86	3	0.55	1.12
45	1.50	0.35	3.33	6.78	3	3.88	7.90
60	2.00	0.25	15.14	30.8	4	19.02	38.75
80	2.50	0.18	16.08	32.7	6 3	35.10	71.50
120	3.00	0.13	9.86	20.0	9	44.96	91.59
170	3.50	0.09	3.57	7.27	7	48.53	98.86
230	4.00	0.06	0.24	0.49	9	48.77	99.35
Phi 5 3.23 Moment Statistics					ė		
Phi 5	Phi 16	Phi 25	Phi 50	Phi	75	Phi 84	Phi 95
3.23	2.81	2.59	2.17	1.7	8	1.63	1.29
Moment	Mean Ph	i Mean	mm S	Sorting	Skewn	ess	Kurtosis
Statistics	2.19	0.23	2	0.56	0.04		3.17

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.23	2.81	2.59	2.17	1.78	1.63	1.29
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	2.19	0.22	0.	56	0.04	3.17

Depths and elevations based on measured values

Project Name: Jupiter Island 10 - Beach Samples

4.00

230

Sample Name: 988526A PCC

Analysis Date: 01-17-11

Analyzed By: ML

AMERIC/ SERVICES

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Elevation (ft): Coordinate System: Easting (ft): Northing (ft): 7.4 NAVD 88 946672. 988683. Florida State Plane East Comments: USCS: Munsell: SP Wet - 10 YR-4/1 Pan Retained (g): Sieve Loss (%): Fines (%): Organics (%): Carbonates (%): Shells (%): Dry Weight (g): Wash Weight (g): #230 - 1.57 0.03 32.68 0.03 33.16 Cum. Grams C. % Weight % Weight Sieve Size Grams Sieve Size Sieve Number Retained Retained Retained Retained (Phi) (Millimeters) 0.00 0.00 0.00 19.03 -4.253/4" 0.00 0.00 0.00 -4.0016.00 0.00 5/8" 0.00 0.00 0.00 0.00 3.5 -2.505.66 0.00 0.00 0.00 -2.254.76 0.00 4 0.00 0.00 0.00 0.00 -2.004.00 5 0.00 0.00 2.83 0.00 0.00 7 -1.500.00 0.00 0.00 10 -1.002.00 0.00 0.03 0.01 0.03 0.01 -0.50 1.41 14 0.04 0.12 0.09 1.00 0.03 0.00 18 0.90 0.26 0.78 0.30 25 0.50 0.71 4.18 12.61 0.50 3.88 11.70 35 1.00 JUPITER ISLAND 10 - BEACH SAMPLES.GPJ FL DEP ROSS.GDT 5/2/11 40.05 17.46 52.65 13.28 1.50 0.35 45 88.54 11.90 29.36 35.89 0.25 60 2.00 31.50 94.99 6.45 0.18 2.14 80 2.50 0.42 1.27 31.92 96.26 3.00 0.13 120 97.59 1.33 32.36 0.09 0.44 170 3.50

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.50	1.94	1.81	1.47	1.15	1.04	0.68
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	1.5	0.35	0.	52	1.06	6.38

0.28

0.06

0.84

32.64

98.43

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 988526B PCC

Analysis Date: 01-25-11

Analyzed By: ML

Easting (ft):

Northing (ft):

AMERICAN VIBRACORE SERVICES

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Elevation (ft): Coordinate System:

946714	1.	988701.	Florid	a State Plane	East	3.4	NAVD 88
uscs: SP	Munsell:	- 10 YR-5/1	nts:				
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (	%): Shells (%):
32.20	32.00	0.03	0.00	#230 - 0.71			
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weigh Retained	200	Grams tained	C. % Weigh Retained
3/4"	-4.25	19.03		0.00	0	0.00	0.00
5/8"	-4.00	16.00	0.00	0.00	(	0.00	0.00
3.5	-2.50	5.66	0.00	0.00	(	0.00	0.00
4	-2.25	4.76	0.00	0.00	(	0.00	0.00
5	-2.00	4.00	0.00	0.00	(	0.00	0.00
7	-1.50	2.83	0.00	0.00	(	0.00	0.00
10	-1.00	2.00	0.00	0.00	(	0.00	0.00
14	-0.50	1.41	0.01	0.03	(	0.01	0.03
18	0.00	1.00	0.08	0.25	(	0.09	0.28
25	0.50	0.71	0.61	1.89		0.70	2.17
35	1.00	0.50	5.49	17.05	(	5.19	19.22
45	1.50	0.35	13.89	43.14	2	0.08	62.36
60	2.00	0.25	9.53	29.60	2	9.61	91.96
80	2.50	0.18	1.59	4.94	3	1.20	96.89
120	3.00	0.13	0.27	0.84	3	1.47	97.73
170	3.50	0.09	0.31	0.96	3	1.78	98.70
35 45 60 80 120 170 230	4.00	0.06	0.19	0.59	3	1.97	99.29

Mean Phi	Mean mm	301	ung	OKCWIICOO	
		Sor	rting	Skewness	Kurtosis
1.87	1.71	1.36	1.07	0.91	0.58
Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
				711110	711110

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 988526C PCC

Analysis Date: 01-25-11

Analyzed By: ML

Coordinate System: Northing (ft):

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

**AMERICAN VIBRACORE** SERVICES

Easting (ft):

Elevation (ft):

946741		988712.	Florid	a State Plane	East	-0.6	NAVD 88
uscs:	Munsell:	Commer t - 10 YR-5/1	nts:				
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates	(%): Shells (%):
10.91	10.76	0.05	0.00	#230 - 1.83			
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weigh Retained	A	. Grams tained	C. % Weigh Retained
3/4"	-4.25	19.03		0.00	(	0.00	0.00
5/8"	-4.00	16.00	0.00	0.00	(	0.00	0.00
3.5	-2.50	5.66	0.00	0.00	(	0.00	0.00
4	-2.25	4.76	0.00	0.00	(	0.00	0.00
5	-2.00	4.00	0.00	0.00		0.00	0.00
7	-1.50	2.83	0.00	0.00		0.00	0.00
10	-1.00	2.00	0.00	0.00		0.00	0.00
14	-0.50	1.41	0.02	0.18		0.02	0.18
18	0.00	1.00	0.28	2.57		0.30	2.75
25	0.50	0.71	1.80	16.50		2.10	19.25
35	1.00	0.50	4.37	40.05		6.47	59.30
45	1.50	0.35	2.32	21.26		8.79	80.57
60	2.00	0.25	0.91	8.34		9.70	88.91
80	2.50	0.18	0.35	3.21		10.05	92.12
120	3.00	0.13	0.18	1.65		10.23	93.77
170	3.50	0.09	0.27	2.47		10.50	96.24
35 45 60 80 120 170 230	4.00	0.06	0.21	1.92		10.71	98.17

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.25	1.71	1.37	0.88	0.57	0.40	0.07
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	1.03	0.49	0.7	78	1.46	5.65

GRANULARMETRIC REPORT JUPITER ISLAND 10 - BEACH

Depths and elevations based on measured values

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 988526D PCC

Analysis Date: 01-25-11

Analyzed By: ML

Coordinate System:

BRACORE AMERIC/ SERVICES

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Elevation (ft): Northing (ft): Easting (ft): -4.6 NAVD 88 988724. 946768. Florida State Plane East Comments: USCS: Munsell: SW Wet - 10 YR-5/2 Organics (%): Carbonates (%): Shells (%): Fines (%): Sieve Loss (%): Dry Weight (g): Wash Weight (g): Pan Retained (g): 0.04 #230 - 4.46 0.00 3.36 3.25 C. % Weight Cum. Grams % Weight Sieve Size Grams Sieve Size Sieve Number Retained Retained Retained Retained (Millimeters) (Phi) 0.00 0.00 0.00 -4.2519.03 3/4" 0.00 0.00 0.00 0.00 16.00 5/8" -4.000.00 0.00 0.00 5.66 0.00 3.5 -2.500.00 0.00 0.00 0.00 4.76 -2.254 0.00 0.00 0.00 4.00 0.00 5 -2.000.00 0.00 0.00 0.00 7 -1.502.83 0.00 0.00 0.00 0.00 -1.002.00 10 1.49 1.49 0.05 0.05 1.41 14 -0.507.44 0.25 0.20 5.95 1.00 18 0.00 0.58 17.26 9.82 0.71 0.33 25 0.50 27.98 10.71 0.94 0.50 0.36 1.00 35 5/2/11 36.90 8.93 1.24 0.30 1.50 0.35 45 ISLAND 10 - BEACH SAMPLES.GPJ FL DEP ROSS.GDT 48.21 11.31 1.62 0.25 0.38 60 2.00 58.93 1.98 10.71 0.18 0.36 80 2.50 12.20 2.39 71.13 0.41 0.13 3.00 120 88.10 16.96 2.96 0.09 0.57 3.50 170 95.54 7.44 3.21 0.25 230 4.00 0.06

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.96	3.38	3.11	2.08	0.86	0.44	-0.21
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	1.88	0.27	1.2	25	-0.23	1.88

Depths and elevations based on measured values

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: 988526E PCC

Analysis Date: 01-25-11

Analyzed By: ML

ISLAND 10 - BEACH

TER

Northing (ft):

BRACORE AMERIC/ SERVICES

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

Coordinate System: Elevation (ft): Easting (ft):

-8.6 NAVD 88 988851. 947074. Florida State Plane East Comments: USCS: Munsell: Wet - 10 YR-4/1 SP Organics (%): Carbonates (%): Shells (%): Sieve Loss (%): Fines (%): Pan Retained (g): Dry Weight (g): Wash Weight (g): #230 - 1.80 0.04 0.05 21.31 21.65 C. % Weight Cum. Grams % Weight Grams Sieve Size Sieve Size Sieve Number Retained Retained Retained Retained (Millimeters) (Phi) 0.00 0.00 0.00 3/4" -4.2519.03 0.00 0.00 0.00 0.00 16.00 5/8" -4.000.00 0.00 0.00 5.66 0.00 -2.503.5 0.00 0.00 0.00 0.00 4.76 -2.254 0.00 0.00 0.00 -2.004.00 0.00 5 0.00 0.00 0.00 0.00 2.83 7 -1.500.00 0.00 0.00 0.00 2.00 10 -1.000.05 0.05 0.01 0.01 1.41 -0.5014 0.09 0.02 1.00 0.01 0.05 0.00 18 0.60 0.15 0.69 0.50 0.71 0.13 25 19.95 19.26 4.32 4.17 1.00 0.50 35 5/2/1 63.23 13.69 43.28 9.37 0.35 45 1.50 DEP ROSS.GDT 87.11 23.88 18.86 0.25 5.17 2.00 60 93.03 5.91 20.14 0.18 1.28 2.50 80 Η 20.59 95.10 2.08 0.45 3.00 0.13 120 SAMPLES.GPJ 97.14 2.03 21.03 0.44 170 3.50 0.09 21.26 98.20 0.23 1.06 0.06 230 4.00

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.98	1.93	1.75	1.35	1.06	0.90	0.61
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	1.43	0.37	0.	59	1.34	5.91

Depths and elevations based on measured values

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: R-70A PCC

Analysis Date: 01-11-11

Analyzed By: ML

Coordinate System: Northing (ft):

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444 Elevation (ft):

SERVICES

BRACORE

Easting (ft): 7.4 NAVD 88 1007629. 937695. Florida State Plane East Comments: USCS: Munsell: SP Wet - 10 YR-6/2 Organics (%): Carbonates (%): Shells (%): Fines (%): Pan Retained (g): Sieve Loss (%): Wash Weight (g): Dry Weight (g): 0.02 #230 - 0.20 0.01 49.71 49.79 Cum. Grams C. % Weight % Weight Sieve Size Sieve Size Grams Sieve Number Retained Retained Retained Retained (Millimeters) (Phi) 0.00 0.00 0.00 19.03 -4.253/4" 0.00 0.00 0.00 0.00 -4.0016.00 5/8" 0.00 0.00 0.00 0.00 -2.505.66 3.5 0.00 0.00 0.00 0.00 4.76 4 -2.250.00 0.00 0.00 0.00 5 -2.004.00 0.00 0.00 2.83 0.00 0.00 7 -1.500.00 0.00 0.00 2.00 0.00 -1.0010 0.01 0.02 0.02 0.01 -0.501.41 14 0.12 0.06 0.05 0.10 0.00 1.00 18 1.43 0.71 0.65 1.31 0.71 25 0.50 6.74 13.54 6.03 12.11 0.50 1.00 35 5/2/11 22.67 45.53 31.99 0.35 15.93 1.50 45 82.51 41.08 18.41 36.98 2.00 0.25 60 95.22 47.41 6.33 12.71 2.50 0.18 80 49.07 98.55 3.33 1.66 0.13 120 3.00 49.63 99.68 0.56 1.12 0.09 3.50 170 99.80 0.12 49.69 0.06 0.06 4.00 230

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.49	2.06	1.90	1.56	1.18	1.04	0.65
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	1.56	0.34	0.8	54	0.33	3.7

ISLAND 10 - BEACH SAMPLES.GPJ FL DEP ROSS.GDT PITER I

Depths and elevations based on measured values

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: R-70B PCC

Analysis Date: 01-17-11

Analyzed By: ML

Easting (ft):

Coordinate System:

Elevation (ft):

**AMERICAN** 

SERVICES

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, Fl 33444

Northing (ft):

3.4 NAVD 88 1007642. 937726. Florida State Plane East Comments: USCS: Munsell: SP Wet - 10 YR-5/2 Carbonates (%): Shells (%): Sieve Loss (%): Fines (%): Organics (%): Pan Retained (g): Dry Weight (g): Wash Weight (g): #230 - 0.64 0.01 0.00 34.57 34.36 C. % Weight Cum. Grams Grams % Weight Sieve Size Sieve Size Sieve Number Retained Retained Retained (Phi) (Millimeters) Retained 0.00 0.00 0.00 3/4" -4.2519.03 0.00 0.00 16.00 0.00 0.00 -4.00 5/8" 0.00 0.00 0.00 5.66 0.00 -2.503.5 0.00 0.00 0.00 0.00 4.76 4 -2.250.00 0.00 5 -2.004.00 0.00 0.00 0.00 0.00 0.00 0.00 2.83 7 -1.500.00 0.00 0.00 0.00 2.00 10 -1.000.02 0.06 0.02 0.06 1.41 14 -0.500.32 1.00 0.09 0.26 0.11 0.00 18 1.14 3.30 1.03 2.98 0.50 0.71 25 4.71 13.62 3.57 10.33 35 1.00 0.50 30.46 16.84 10.53 5.82 0.35 45 1.50 30.52 21.08 60.98 0.25 10.55 2.00 60 29.94 86.61 0.18 8.86 25.63 2.50 80 96.93 33.51 3.57 10.33 3.00 0.13 120 34.22 98.99 2.05 0.71 170 3.50 0.09 99.36 0.13 0.38 34.35 0.06 4.00 230

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.91	2.45	2.27	1.82	1.34	1.07	0.58
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	1.78	0.29	0.	68	-0.2	2.98

JUPITER ISLAND 10 - BEACH SAMPLES.GPJ FL DEP ROSS.GDT 5/2/1 GRANULARMETRIC REPORT

Depths and elevations based on measured values

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: R-70C PCC

Analysis Date: 01-11-11

Analyzed By: ML



American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Elevation (ft): Easting (ft): Northing (ft): Coordinate System: 937758. 1007655. -0.6 NAVD 88 Florida State Plane East Comments: USCS: Munsell: SP Wet - 10 YR-6/2 Organics (%): Carbonates (%): Shells (%): Dry Weight (g): Wash Weight (g): Pan Retained (g): Sieve Loss (%): Fines (%): 40.35 40.25 0.05 0.05 #230 - 0.42 Cum. Grams C. % Weight Sieve Size Sieve Size Grams % Weight Sieve Number Retained Retained Retained Retained (Phi) (Millimeters) 3/4" -4.2519.03 0.00 0.00 0.00 0.00 0.00 0.00 5/8" -4.0016.00 0.00

0.00 0.00 0.00 -2.505.66 0.00 3.5 0.00 0.00 4.76 0.00 0.00 4 -2.255 4.00 0.00 0.00 0.00 0.00 -2.007 -1.502.83 0.00 0.00 0.00 0.00 0.00 0.00 10 -1.002.00 0.00 0.00 1.41 0.05 0.12 14 -0.500.05 0.12 0.77 0.00 1.00 0.26 0.64 0.31 18 0.71 0.63 1.56 0.94 2.33 25 0.50 35 1.00 0.50 1.14 2.83 2.08 5.15 5/2/11 10.14 45 1.50 0.35 2.01 4.98 4.09 0.25 7.36 18.24 11.45 28.38 60 2.00

10.01

11.60

6.48

0.64

0.18

0.13

0.09

0.06

24.81

28.75

16.06

1.59

21.46

33.06

39.54

40.18

53.18

81.93

97.99 99.58

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.41	3.06	2.88	2.44	1.91	1.66	0.97
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	2.34	0.20	0.	73	-0.84	4.08

REPORT JUPITER ISLAND 10 - BEACH SAMPLES GPJ FL DEP ROSS GDT

80

120

170

230

2.50

3.00

3.50

4.00

Depths and elevations based on measured values

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: R-70D PCC

Analysis Date: 01-11-11

Analyzed By: ML

Easting (ft):

Coordinate System:

American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

AMERICAN VIBRACORE SERVICES

Northing (ft):

-4.6 NAVD 88 937683. 1007699. Florida State Plane East

USCS: Munsell: Comments: SP Wet - 10 YR-6/1 Dry Weight (g): Wash Weight (g): Pan Retained (g): Sieve Loss (%): Fines (%): Organics (%): Carbonates (%): Shells (%): 0.15 #230 - 0.91 52.71 52.68 0.37 Cum. Grams C. % Weight Sieve Size Sieve Size Grams % Weight Sieve Number Retained (Millimeters) Retained Retained Retained (Phi) 3/4" -4.25 19.03 0.00 0.00 0.00 5/8" -4.0016.00 0.00 0.00 0.00 0.00 0.00 0.00 3.5 -2.505.66 0.00 0.00 4.76 4 -2.250.00 0.00 0.00 0.00 -2.004.00 0.00 0.00 0.00 0.00 5 2.83 0.00 0.00 0.00 0.00 7 -1.5010 -1.002.00 0.00 0.00 0.00 0.00 1.41 0.00 0.00 0.00 14 -0.500.00 0.00 1.00 0.09 0.05 0.09 18 0.05 25 0.50 0.71 0.30 0.21 0.40 0.16 1.40 0.95 1.80 35 1.00 0.50 0.74 45 1.50 0.35 3.51 6.66 4.46 8.46 15.21 28.86 60 2.00 0.25 10.75 20.39 27.61 52.38 80 2.50 0.18 12.40 23.52 120 41.61 78.94 3.00 0.13 14.00 26.56 170 3.50 0.09 9.66 18.33 51.27 97.27 230 4.00 0.06 0.96 1.82 52.23 99.09

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.44	3.14	2.93	2.45	1.91	1.68	1.24
Moment	Mean Phi	Mean mm	Sor	ting	Skewness	Kurtosis
Statistics	2.4	0.19	0.6	66	-0.33	2.74

JUPITER ISLAND 10 - BEACH SAMPLES.GPJ FL DEP ROSS.GDT

5/2/11

Project Name: Jupiter Island 10 - Beach Samples

Sample Name: R-70E PCC

Analysis Date: 01-10-11

Analyzed By: MI



American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444

Analyzed By: M							
Easting (ft):	Northing		Coordinate Syste	m:		Elevation (ft):	
The second secon	937961. 1007740. S: Munsell: Comments:		Florid	a State Plane Ea	ast	-8.6 NAVD 88	
USCS:	Munsell;	Commen	ts:				
SW		10 YR-6/1	1	Tax and Tax	Tene		
	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):		ganics (%): Carbo	onates (%): Shells (%):	
69.09	68.64	0.14	0.01	#230 - 0.87			
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grar Retained		
3/4"	-4.25	19.03		0.00	0.00	0.00	
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00	
3.5	-2.50	5.66	0.00	0.00	0.00	0.00	
4	-2.25	4.76	0.00	0.00	0.00	0.00	
5	-2.00	4.00	0.00	0.00	0.00	0.00	
7	-1.50	2.83	0.00	0.00	0.00	0.00	
10	-1.00	2.00	0.01	0.01	0.01	0.01	
14	-0.50	1.41	0.02	0.03	0.03	0.04	
18	0.00	1.00	0.03	0.04	0.06	0.09	
25	0.50	0.71	0.12	0.17	0.18	0.26	
35	1.00	0.50	0.44	0.64	0.62	0.90	
45	1.50	0.35	0.70	1.01	1.32	1.91	
60	2.00	0.25	1.33	1.93	2.65	3.84	
80	2.50	0.18	2.44	3.53	5.09	7.37	
120	3.00	0.13	17.64	25.53	22.73	32.90	
170	3.50	0.09	38.18	55.26	60.91	88.16	
230	4.00	0.06	7.58	10.97	68.49	99.13	

35	1.00	0.50	0.44	0.64	0.62	0.90
45	1.50	0.35	0.70	1.01	1.32	1.91
60	2.00	0.25	1.33	1.93	2.65	3.84
80	2.50	0.18	2.44	3.53	5.09	7.37
120	3.00	0.13	17.64	25.53	22.73	32.90
170	3.50	0.09	38.18	55.26	60.91	88.16
230	4.00	0.06	7.58	10.97	68.49	99.13
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
Phi 5 3.81	Phi 16 3.46	Phi 25 3.38	Phi 50 3.15	Phi 75 2.85	Phi 84 2.67	Phi 95
			3.15	2.85		

# Calcium Carbonate Testing



DATE: 1/27/2011 Project No.: 10-0100

CLIENT: Gahagan & Bryant Lab ID:

PROJECT: Jupiter Island 10 Beach Samples

SAMPLED BY: AVS DATE: 12-29-10

TESTED BY: Michael Lenz DATE: 1/27/2011

MATERIAL

**DESCRIPTION: (Refer to individual description on grain size distribution)** 

INTENDED USE: N/A

# **RESULTS**

Location	Mass of Sample (g )	Insoluble residue ( g )	Carbonates Content
			(%)
988,526E	96.96	21.65	77.7
976,899A	100.15	36.64	63.4
976,899B	100.01	33.23	66.8
976,899C	100.64	37.66	62.6
976,899D	100.38	14.34	85.7
976,899E	99.29	49.09	50.6

Respectfully Submitted. FBPE CA # 4930

Paul Danforth, P.E. Professional Engineer # 44653 State of Florida

DATE: 1/28/2011 Project No.: 10-0100

CLIENT: Gahagan & Bryant Lab ID:

PROJECT: Jupiter Island 10 Beach Samples

SAMPLED BY: AVS DATE: 12-29-10

TESTED BY: Michael Lenz DATE: 1/28/2011

MATERIAL

**DESCRIPTION: (Refer to individual description on grain size distribution)** 

INTENDED USE: N/A

# **RESULTS**

Location	Mass of Sample (g )	Insoluble residue ( g )	Carbonates Content
			(%)
965,058A	100.47	29.33	70.8
965,058B	100.83	39.49	60.8
965,058C	100.03	28.25	71.8
965,058D	100.76	13.76	86.3
965,058E	100.89	28.07	72.2

Respectfully Submitted. FBPE CA # 4930

Paul Danforth, P.E. Professional Engineer # 44653 State of Florida

DATE: 1/3/2011 Project No.: 10-0100

CLIENT: Gahagan & Bryant Lab ID:

PROJECT: Jupiter Island 10 Beach Samples

SAMPLED BY: AVS DATE: 12-29-10

TESTED BY: Michael Lenz DATE: 1/3/2011

MATERIAL

**DESCRIPTION: (Refer to individual description on grain size distribution)** 

INTENDED USE: N/A

## RESULTS

NEOULIO						
Location	Mass of Sample (g )	Insoluble residue ( g )	Carbonates Content			
			(%)			
R-70A	99.73	49.79	50.1			
R-70B	96.49	34.57	64.2			
R-70C	96.16	40.35	58.0			
R-70D	87.03	52.71	39.4			
R-70E	87.31	69.09	20.9			

Respectfully Submitted. FBPE CA # 4930

Paul Danforth, P.E. Professional Engineer # 44653 State of Florida

DATE: 1/3/2011 Project No.: 10-0100

CLIENT: Gahagan & Bryant Lab ID:

PROJECT: Jupiter Island 10 Beach Samples

SAMPLED BY: AVS DATE: 12-29-10

TESTED BY: Michael Lenz DATE: 1/3/2011

MATERIAL

**DESCRIPTION: (Refer to individual description on grain size distribution)** 

INTENDED USE: N/A

# RESULTS

Location	Mass of Sample (g )	Insoluble residue ( g )	Carbonates Content
	(3)	(3)	(%)
1,000,258A	99.73	24.24	75.7
1,000,258B	106.96	21.93	79.5
1,000,258C	98.13	23.37	76.2
1,000,258D	99.89	70.78	29.1
1,000,258E	80.37	52.06	35.2
988,526A	101.15	33.16	67.2
988,526B	106.53	32.20	69.8
988,526C	93.58	10.91	88.3
988,526D	108.29	3.36	96.9

Respectfully Submitted. FBPE CA # 4930

Paul Danforth, P.E. Professional Engineer # 44653 State of Florida