



April 28, 2010

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

**Re: Jupiter Island '10 Sand Search
Recon Cores**

American Vibracore Services, Inc. is pleased to submit this report regarding the completion of the vibracore field work phase of this project.

Overview

American Vibracore Services, Inc. (AVS) under contract from Gahagan & Bryant Associates, Inc. (GBA), conducted vibracore sampling operations offshore Jupiter Island, Florida on January, 14th, 2009. A total of 16 vibracores were collected.

Equipment

AVS's 85 foot steel hulled research vessel "Thunderforce" was used as a work platform for vibracore operations. AVS's large pneumatic coring machine was used to take all the vibracore samples. A penetrometer was used to record all coring.

Core Processing and Laboratory Testing

All cores collected from the project were transported to our US Army Corps of Engineers certified lab where they were split, logged, photographed and preserved. Laboratory testing was conducted in the form of grain size analyses, calcium carbonate content and Munsell color designation.

Reporting

The penetrometer logs and laboratory analysis results are all contained in this 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 5/20/2010
State of Florida

1215 Wallace Drive,
Delray Beach, FL 33444
Ph 561-372-0500
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49181 Hwy 51 N,
Tickfaw, La. 70466
Ph 985-981-3980
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Penetrometer Graphs

Depth

vs.

Time



Project

Jupiter Island '10



Date 01/14/2010

Water Depth -41.8 navd

Core Identifier JI-6

Coordinate System

Start Time 10:20:09

State Plane Coordinates (SPC)

End Time 10:27:49

Penetration 20.0'

967434.061 **X**

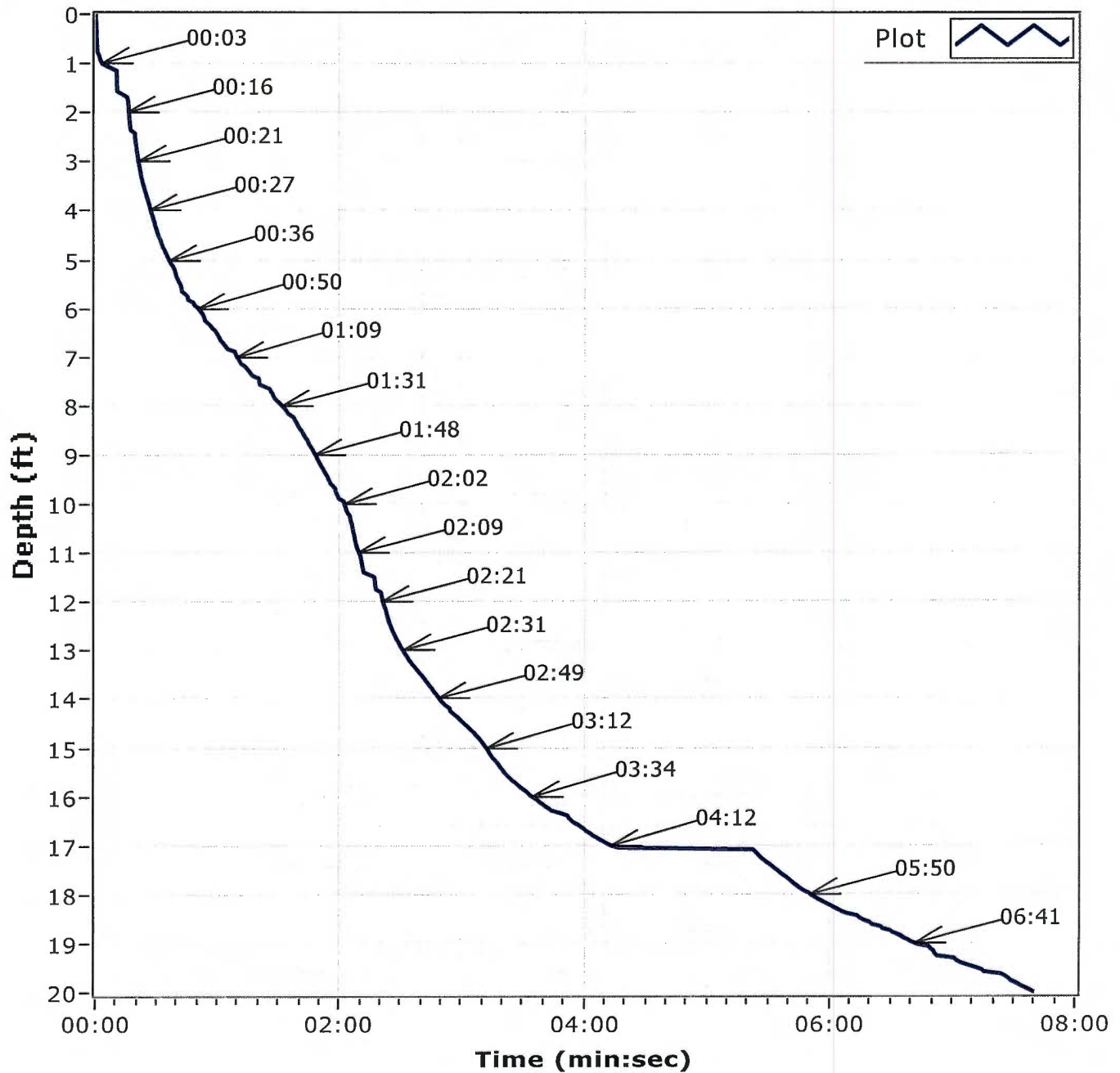
Total Time 00:07:40

Recovery 19.0'

976918.605 **Y**

FL East **Zone**

Comments



Project

Jupiter Island 10



Date 01/14/2010

Water Depth --46.3 navd

Core Identifier JI-7

Coordinate System

Start Time 10:48:12

State Plane Coordinates (SPC)

End Time 10:56:11

Penetration 18.6'

968386.926 **X**

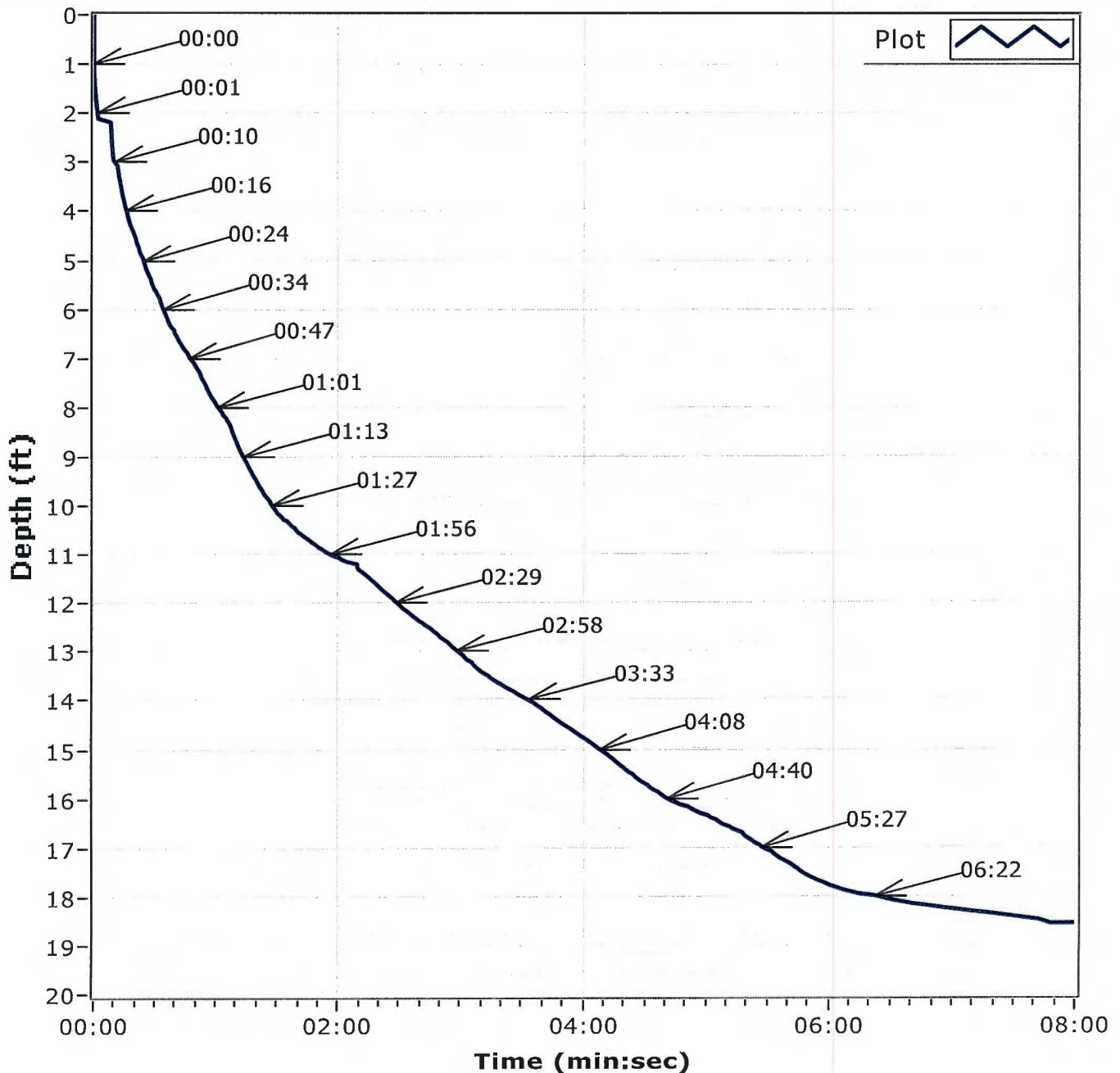
Total Time 00:07:59

Recovery 18.6'

977216.686 **Y**

FL East **Zone**

Comments



Project

Jupiter Island '10



Date 01/14/2010

Water Depth -48.1 navd

Core Identifier JI-9

Coordinate System

State Plane Coordinates (SPC)

965828.685 X

975349.228 Y

FL East Zone

Start Time 09:24:23

End Time 09:34:08

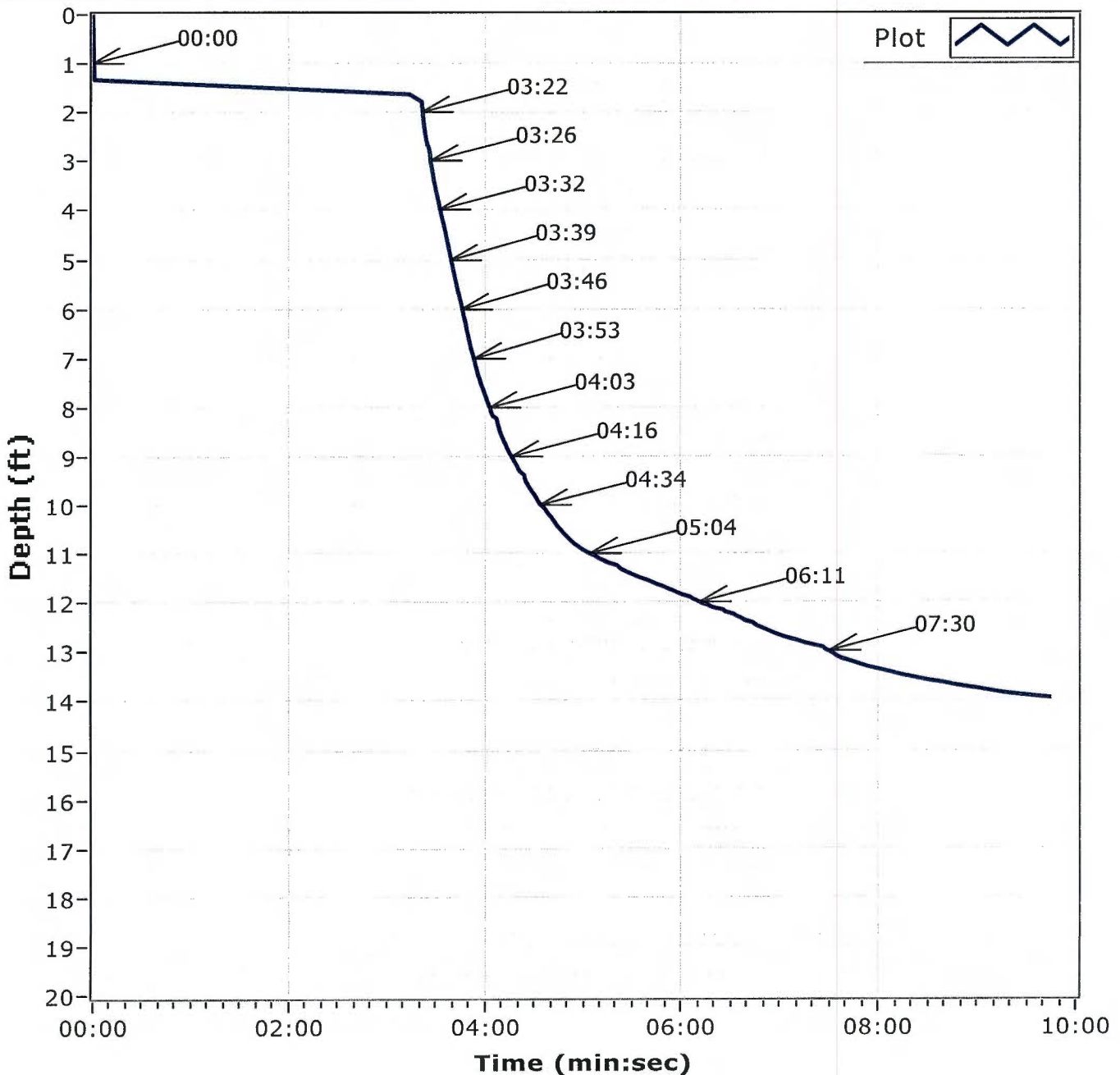
Total Time 00:09:44

Penetration 14.0'

Recovery 12.3'

Comments

Note: Compressor stalled then restarted



Project

Jupiter Island 10



Date 01/14/2010

Water Depth -42.9 navd

Core Identifier JI-10

Coordinate System

State Plane Coordinates (SPC)

966727.193 X

975665.037 Y

FL East Zone

Start Time 09:54:18

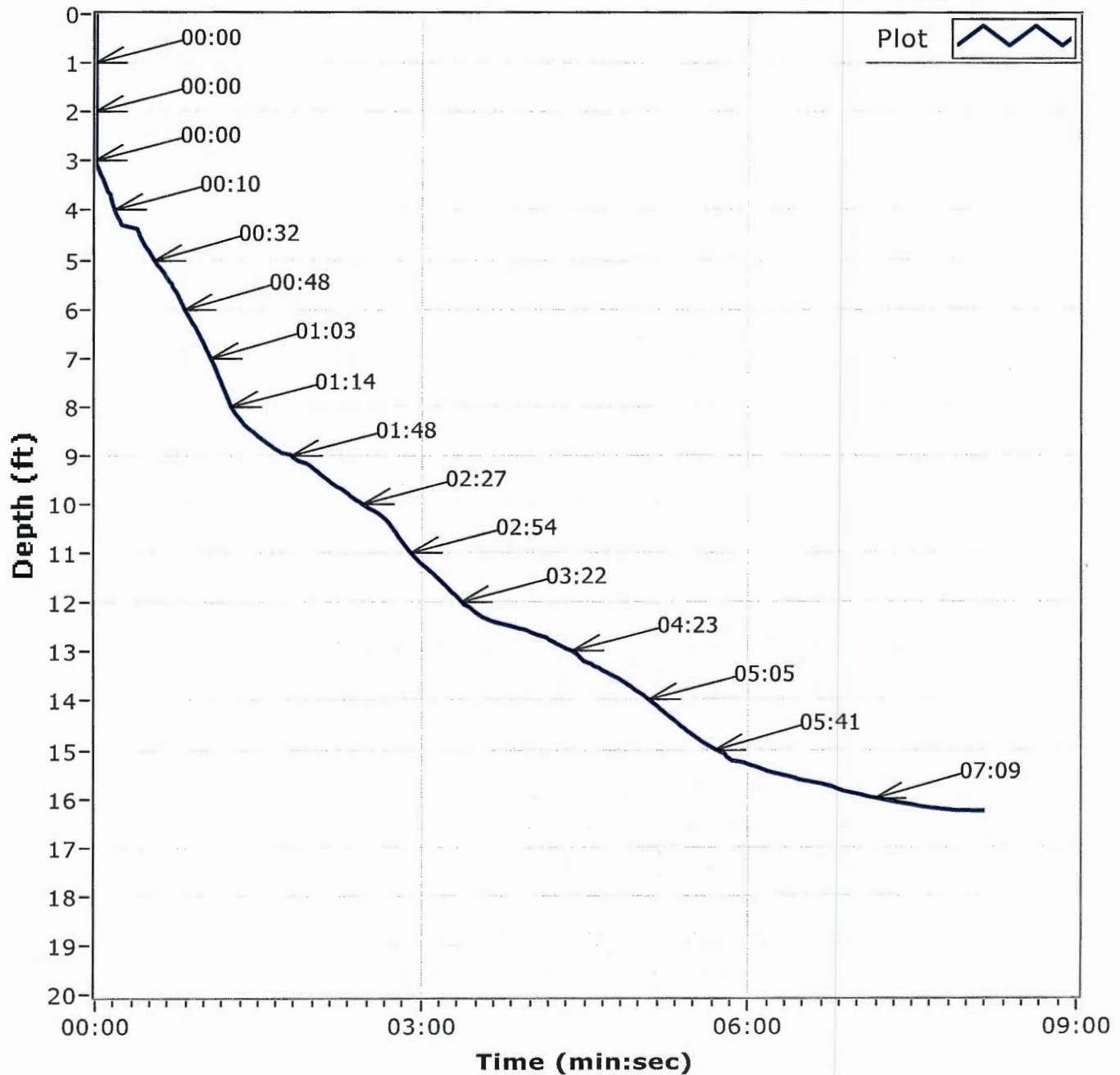
End Time 10:02:27

Total Time 00:08:09

Penetration 16.3'

Recovery 14.2'

Comments



Project

Jupiter Island '10



Date 01/14/2010

Water Depth -42.9 navd

Core Identifier JI-11

Coordinate System

State Plane Coordinates (SPC)

967745.259 X

975957.536 Y

FL East Zone

Start Time 11:17:41

End Time 11:24:22

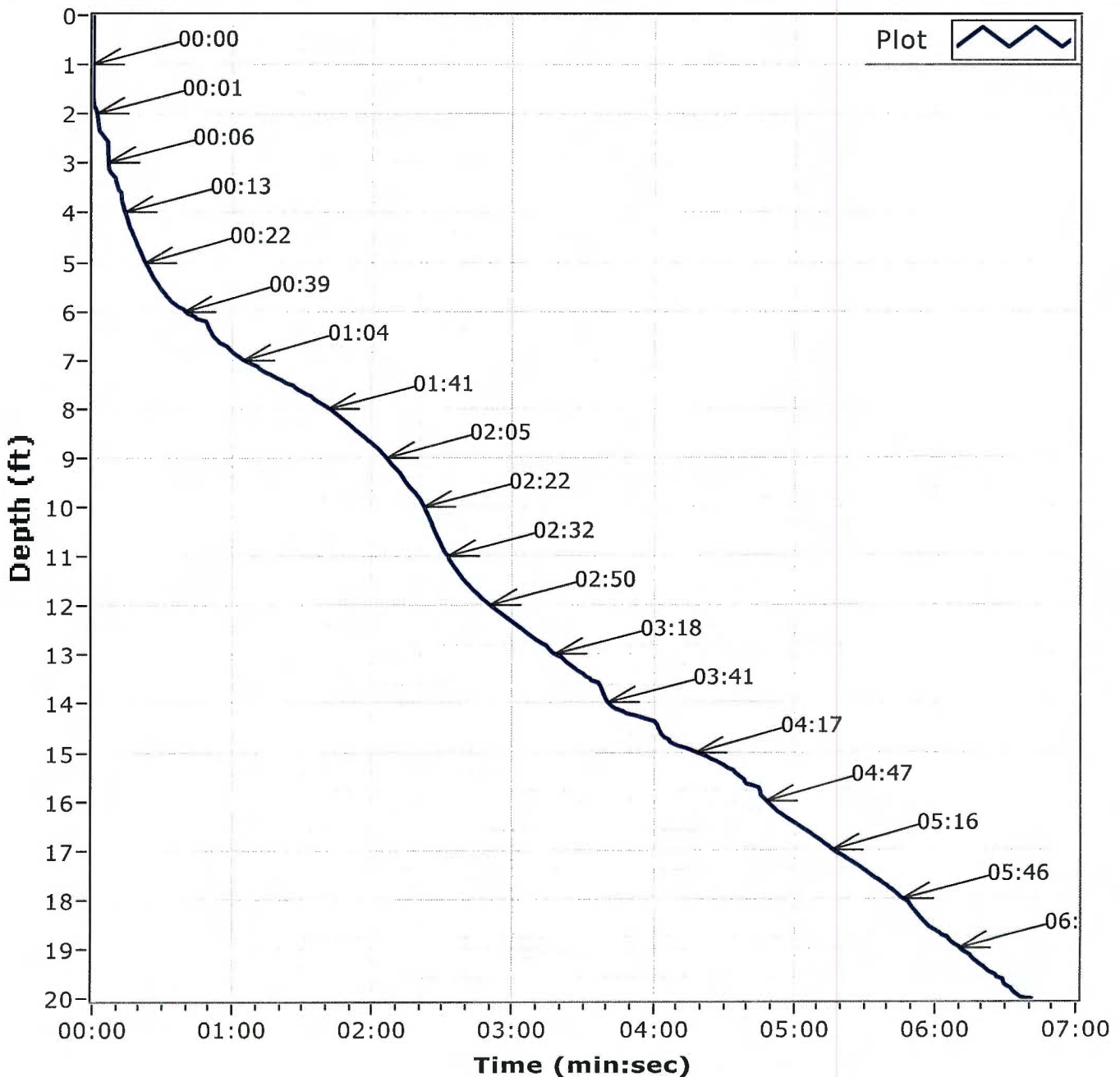
Total Time 00:06:41

Penetration 20.0'

Recovery 19.7'

Comments

Empty comment box.



Project

Jupiter Island 10



Date 01/14/2010

Water Depth -43.5 navd

Core Identifier JI-12

Coordinate System

State Plane Coordinates (SPC)

968692.81 X

976243.464 Y

FL East Zone

Start Time 17:23:06

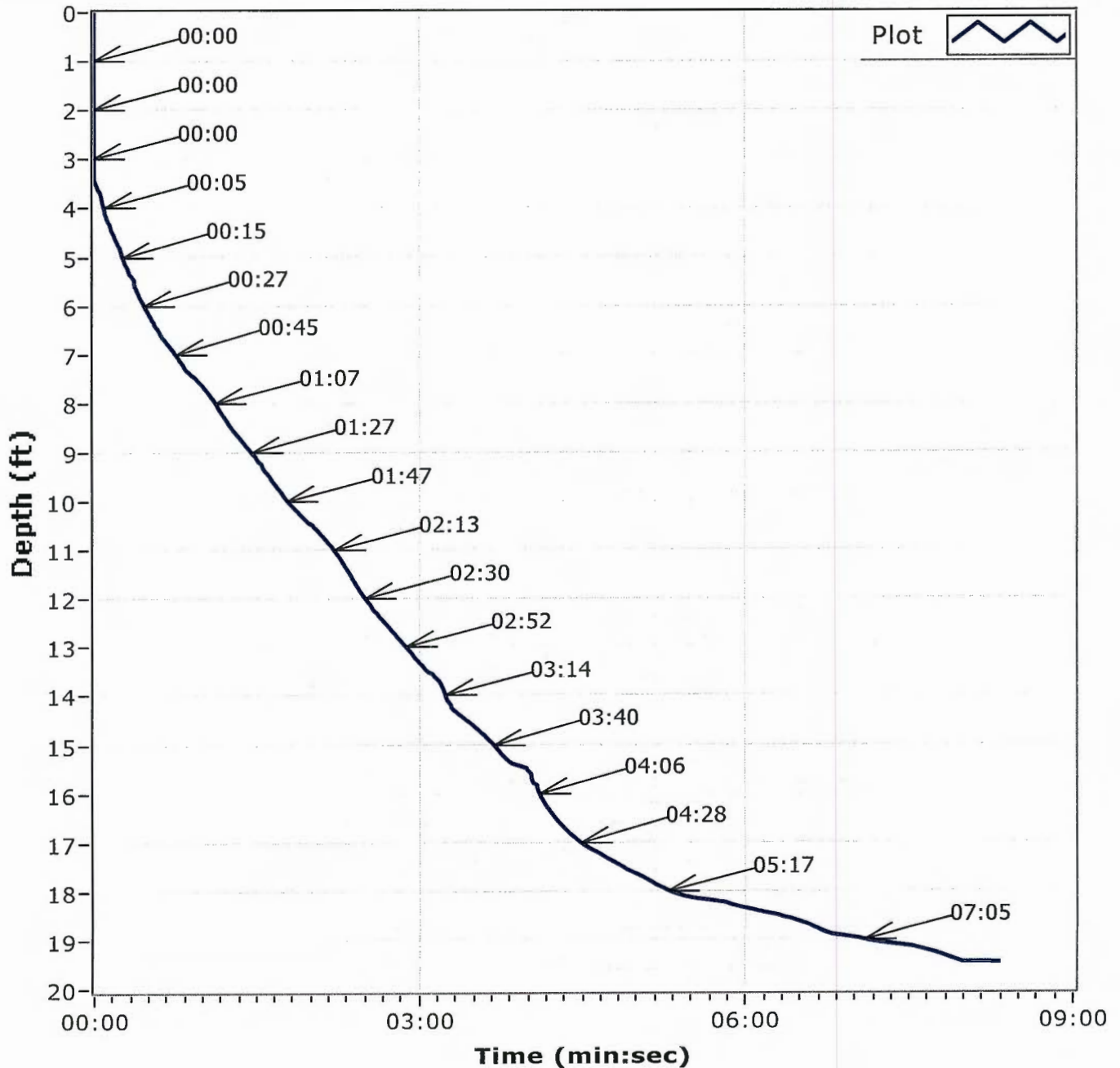
End Time 17:31:25

Total Time 00:08:19

Penetration 19.5'

Recovery 19.5'

Comments



Project

Jupiter Island 10



Date 01/14/2010

Water Depth -44.7 navd

Core Identifier JI-14

Coordinate System

State Plane Coordinates (SPC)

966134.337 X

974400.225 Y

FL East Zone

Start Time 16:26:45

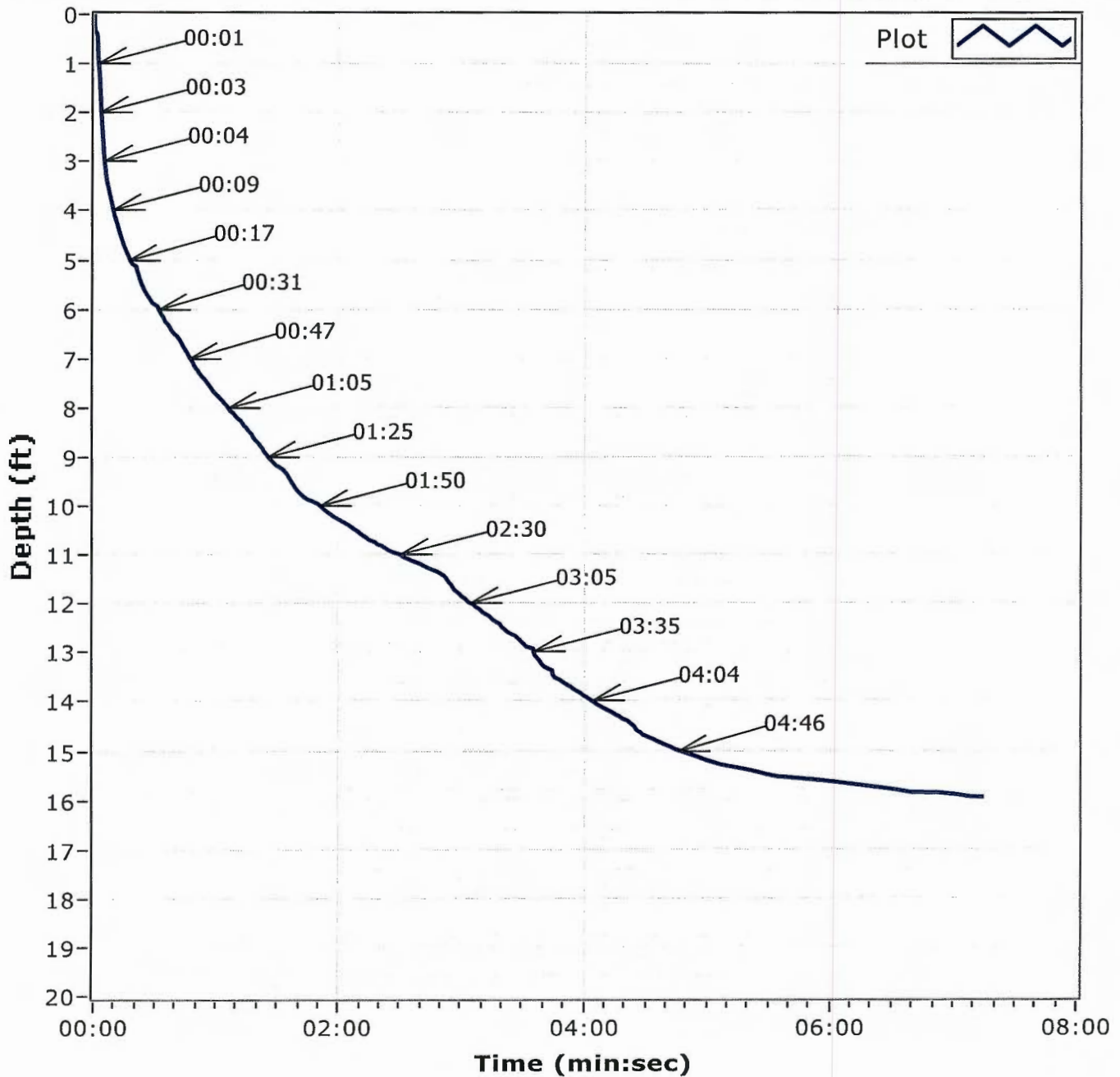
End Time 16:33:59

Total Time 00:07:14

Penetration 16.0'

Recovery 15.0'

Comments



Project

Jupiter Island '10



Date 01/14/2010

Water Depth -41.9 navd

Core Identifier JI-15 B

Coordinate System

Start Time 12:07:17

State Plane Coordinates (SPC)

End Time 12:13:22

Penetration 13.2'

966633.016 **X**

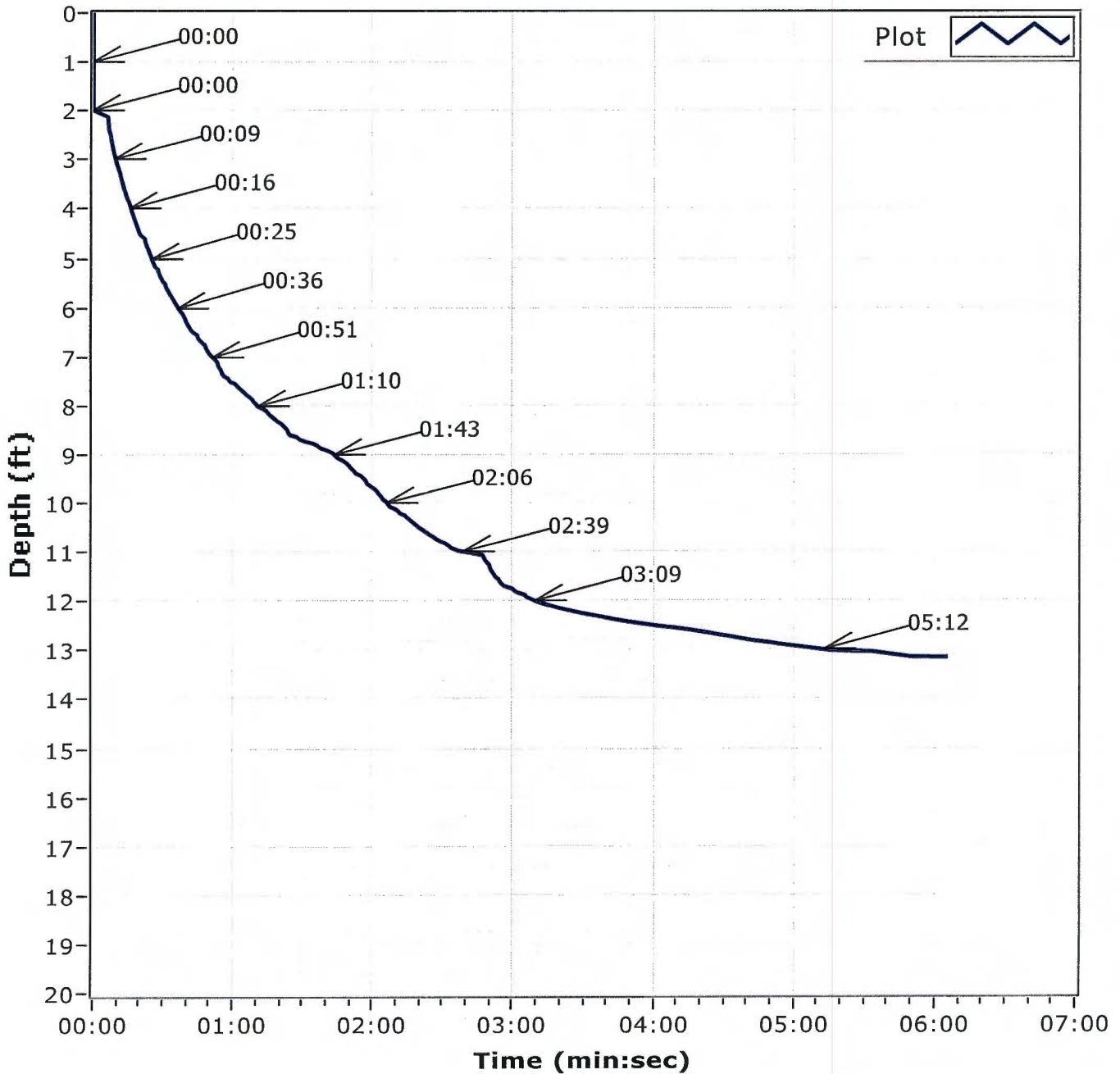
Total Time 00:06:05

Recovery 13.0'

974482.762 **Y**

FL East **Zone**

Comments



Project

Jupiter Island '10



Date 01/14/2010

Water Depth -41.3 navd

Core Identifier JI-16

Coordinate System

Start Time 16:52:29

State Plane Coordinates (SPC)

End Time 16:57:48

Penetration 14.1'

968034.717 **X**

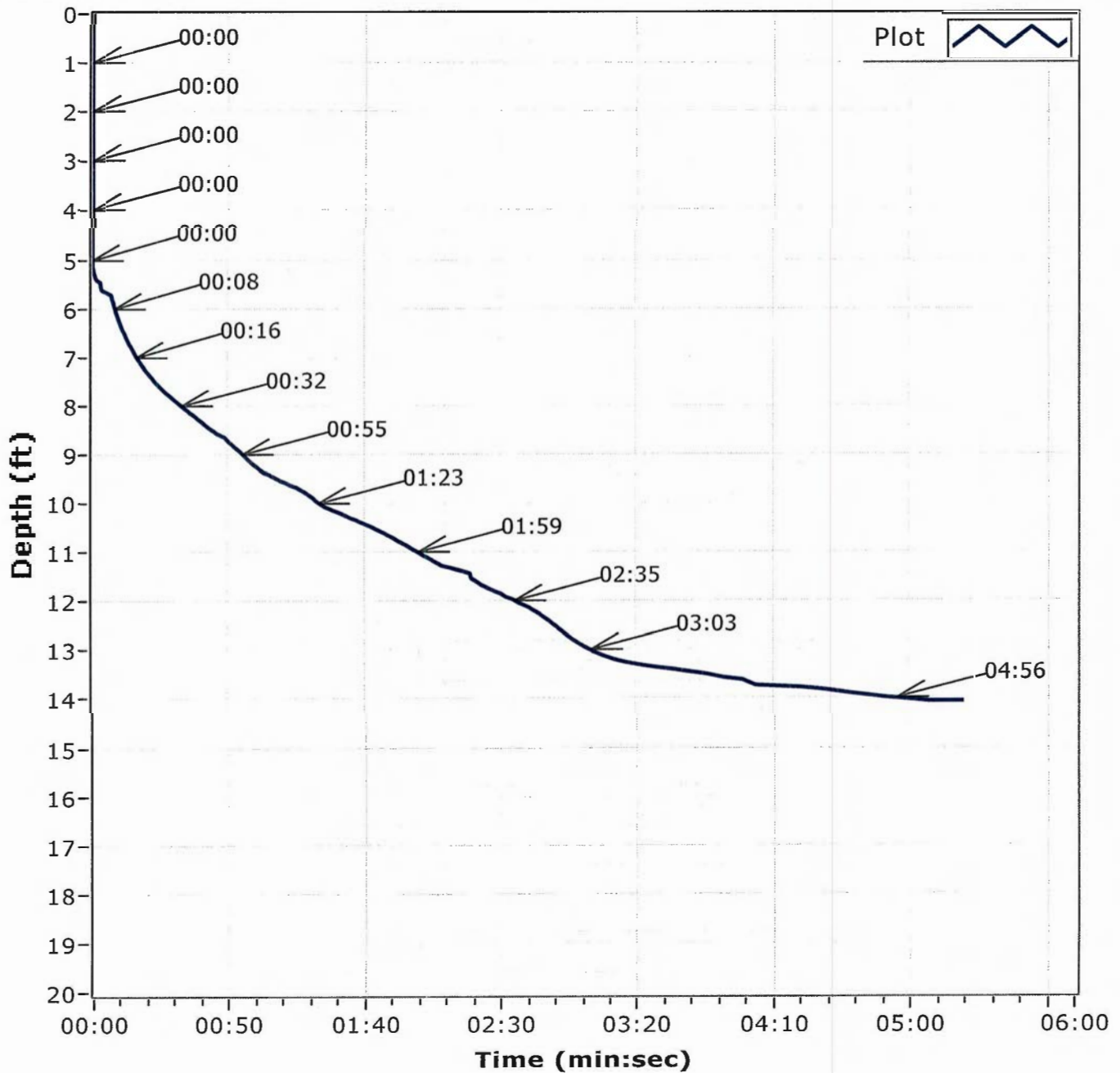
Total Time 00:05:19

Recovery 12.4'

975002.363 **Y**

FL East **Zone**

Comments



Project

Jupiter Island '10



Date 01/14/2010

Water Depth -44.4 navd

Core Identifier JI-18

Coordinate System

Start Time 13:00:42

State Plane Coordinates (SPC)

End Time 13:07:00

Penetration 13.0'

966445.612 **X**

Total Time 00:06:18

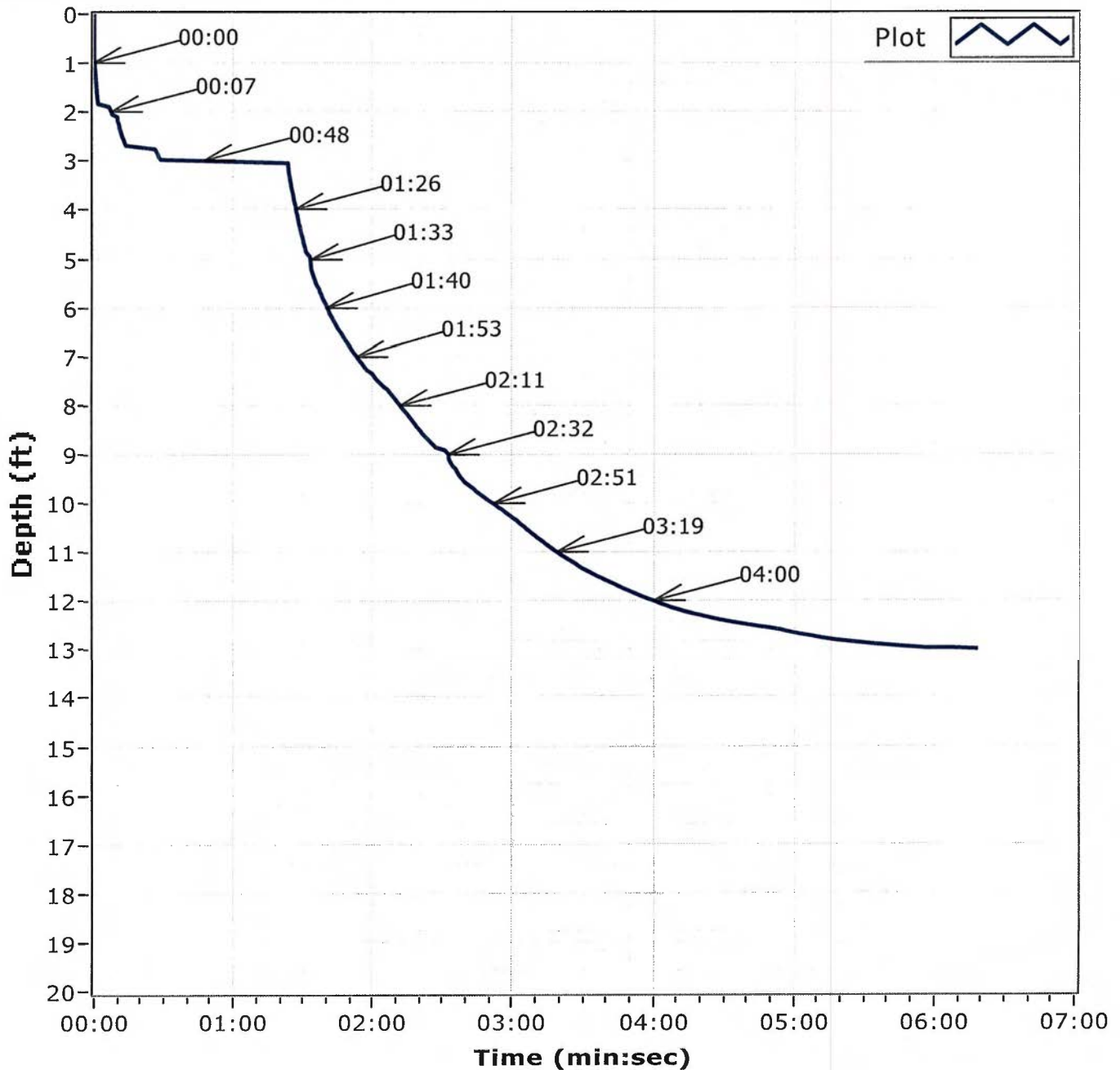
Recovery 12.2'

973427.029 **Y**

FL East **Zone**

Comments

Empty comment box.



Project

Jupiter Island '10



Date 01/14/2010

Water Depth -49.0 navd

Core Identifier JI-19

Coordinate System

State Plane Coordinates (SPC)

967398.474 **X**

973737.202 **Y**

FL East **Zone**

Start Time 15:58:20

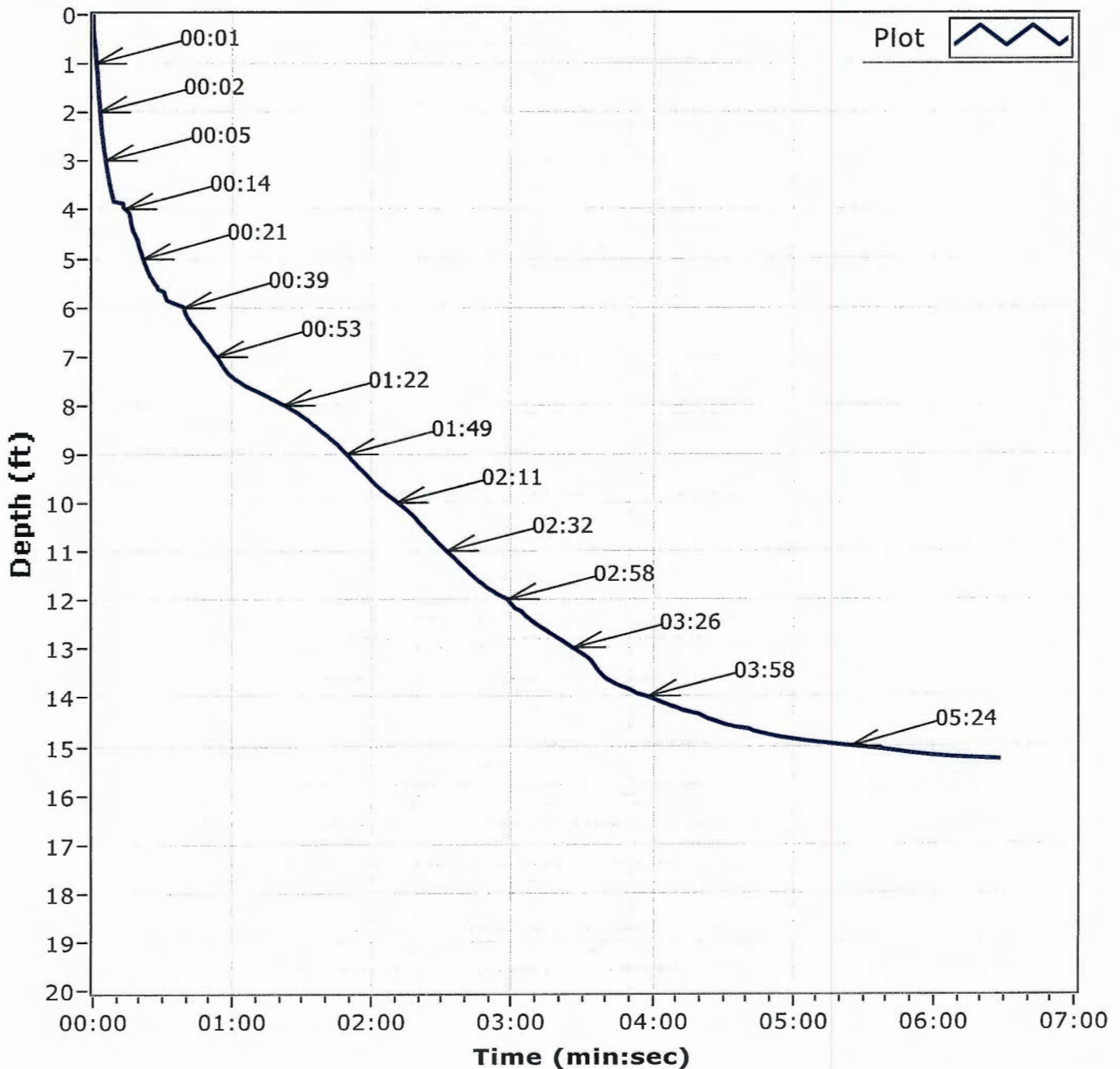
End Time 16:04:48

Total Time 00:06:28

Penetration 15.3'

Recovery 14.0'

Comments



Project

Jupiter Island '10



Date 01/14/2010

Water Depth -51.1 navd

Core Identifier JI-21

Coordinate System

State Plane Coordinates (SPC)

966745.864 X

972477.989 Y

FL East Zone

Start Time 15:26:41

End Time 15:35:43

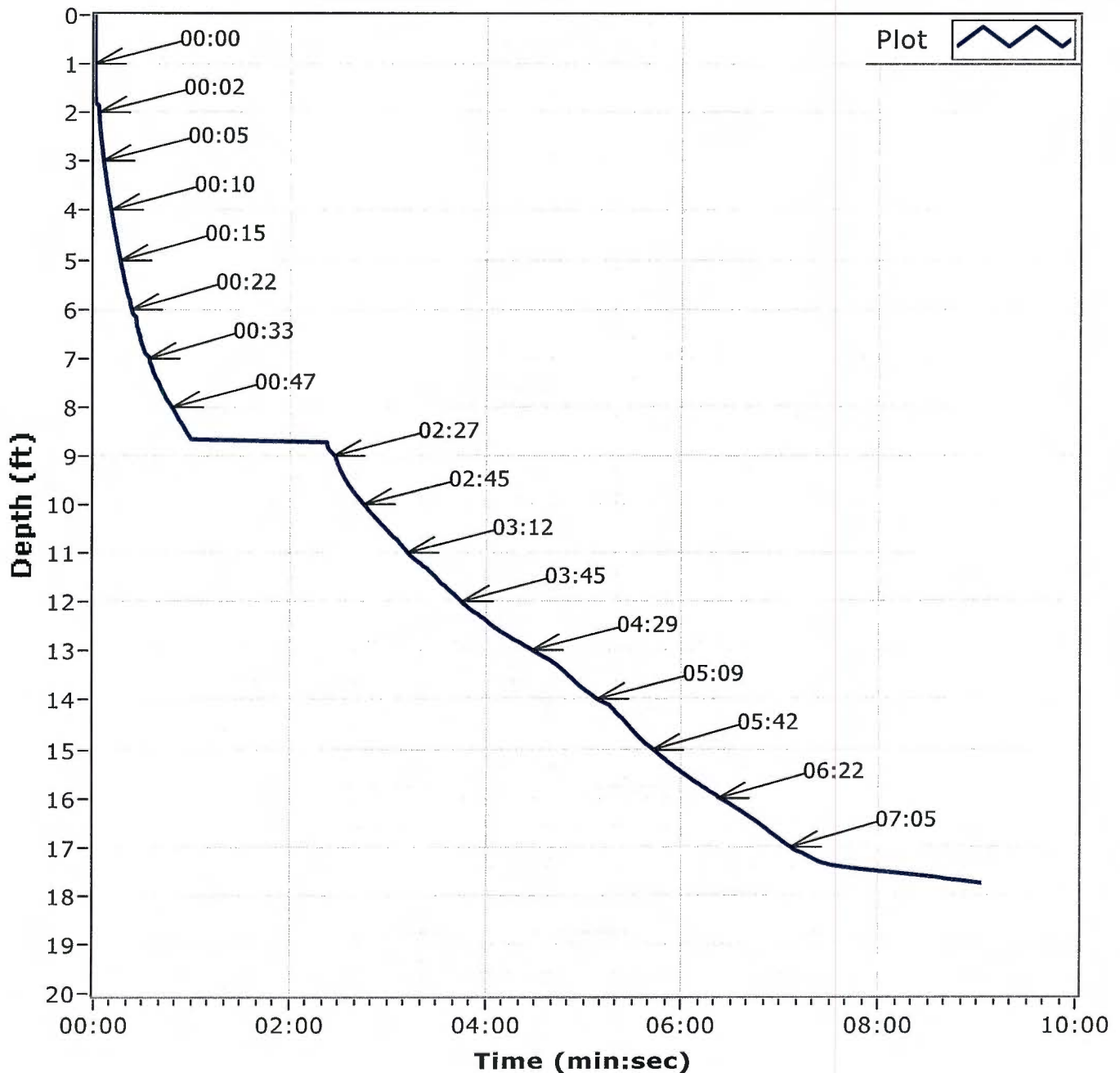
Total Time 00:09:02

Penetration 17.8'

Recovery 15.1'

Comments

Note: Compressor stalled at 8.7' then restarted



Project

Jupiter Island '10



Date 01/14/2010

Water Depth -51.5 navd

Core Identifier JI-24 B

Coordinate System

State Plane Coordinates (SPC)

966374.563 X

971366.038 Y

FL East Zone

Start Time 13:45:09

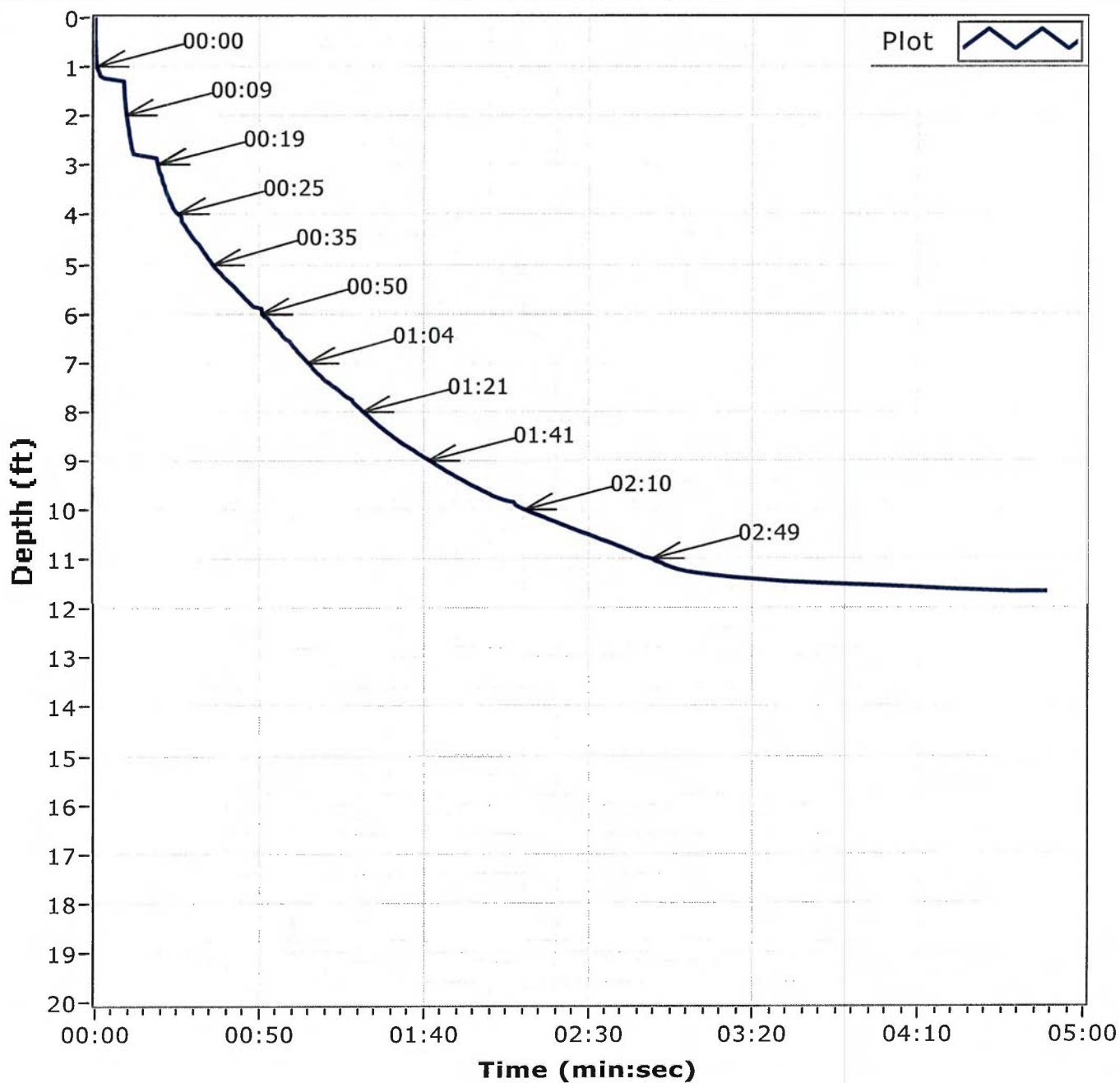
End Time 13:49:57

Total Time 00:04:48

Penetration 11.7'

Recovery 10.0'

Comments



Project

Jupiter Island 10



Date 01/14/2010

Water Depth -51.0 navd

Core Identifier JI-25

Coordinate System

State Plane Coordinates (SPC)

967056.973 X

971535.093 Y

FL East Zone

Start Time 15:00:17

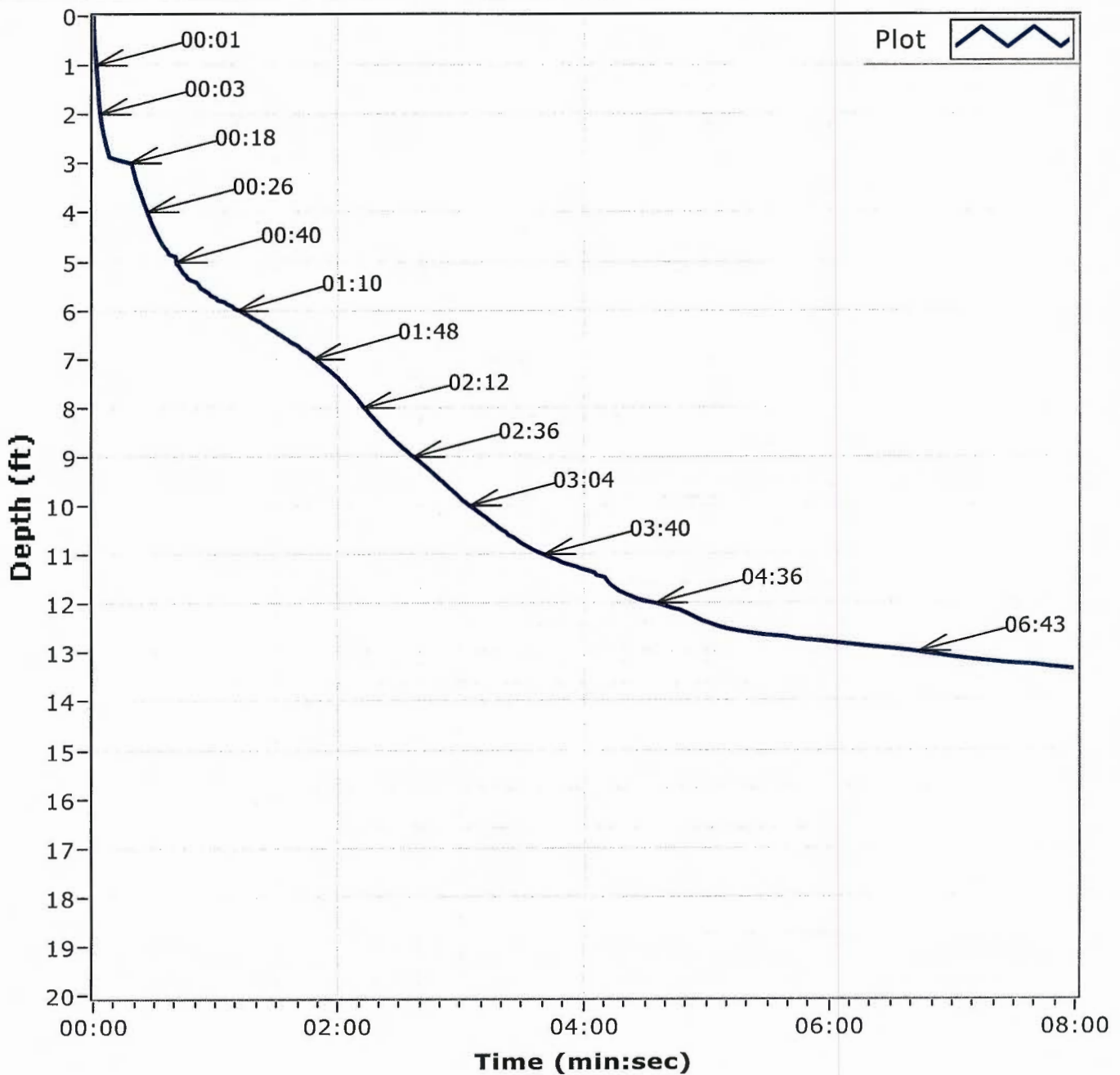
End Time 15:08:15

Total Time 00:07:58

Penetration 13.4'

Recovery 11.4'

Comments



Project

Jupiter Island '10



Date 01/14/2010

Water Depth -52.7 navd

Core Identifier JI-28

Coordinate System

State Plane Coordinates (SPC)

966409.66 X

970281.988 Y

FL East Zone

Start Time 14:02:51

End Time 14:06:46

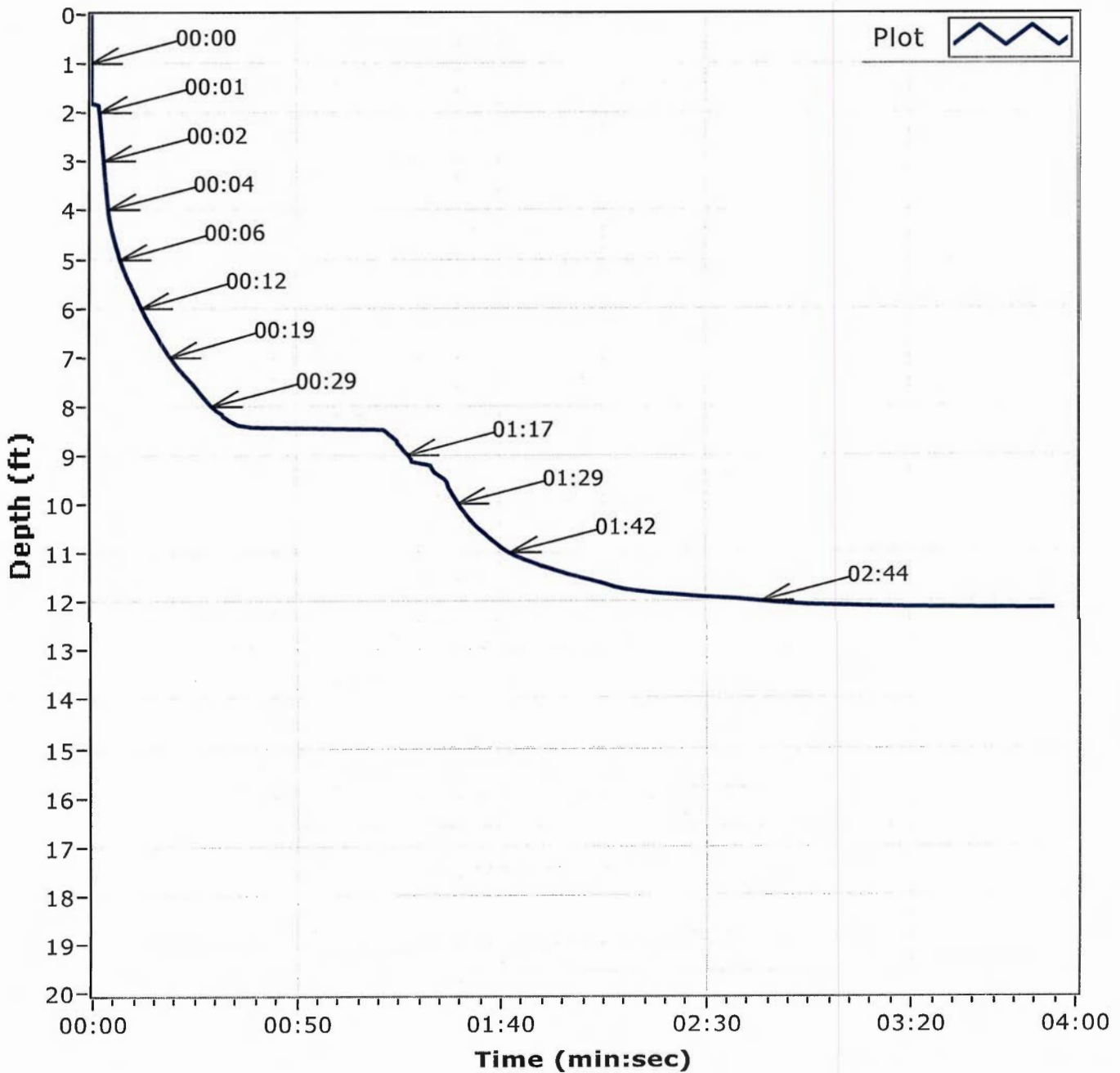
Total Time 00:03:55

Penetration 12.1'

Recovery 10.0'

Comments

Empty comment box.

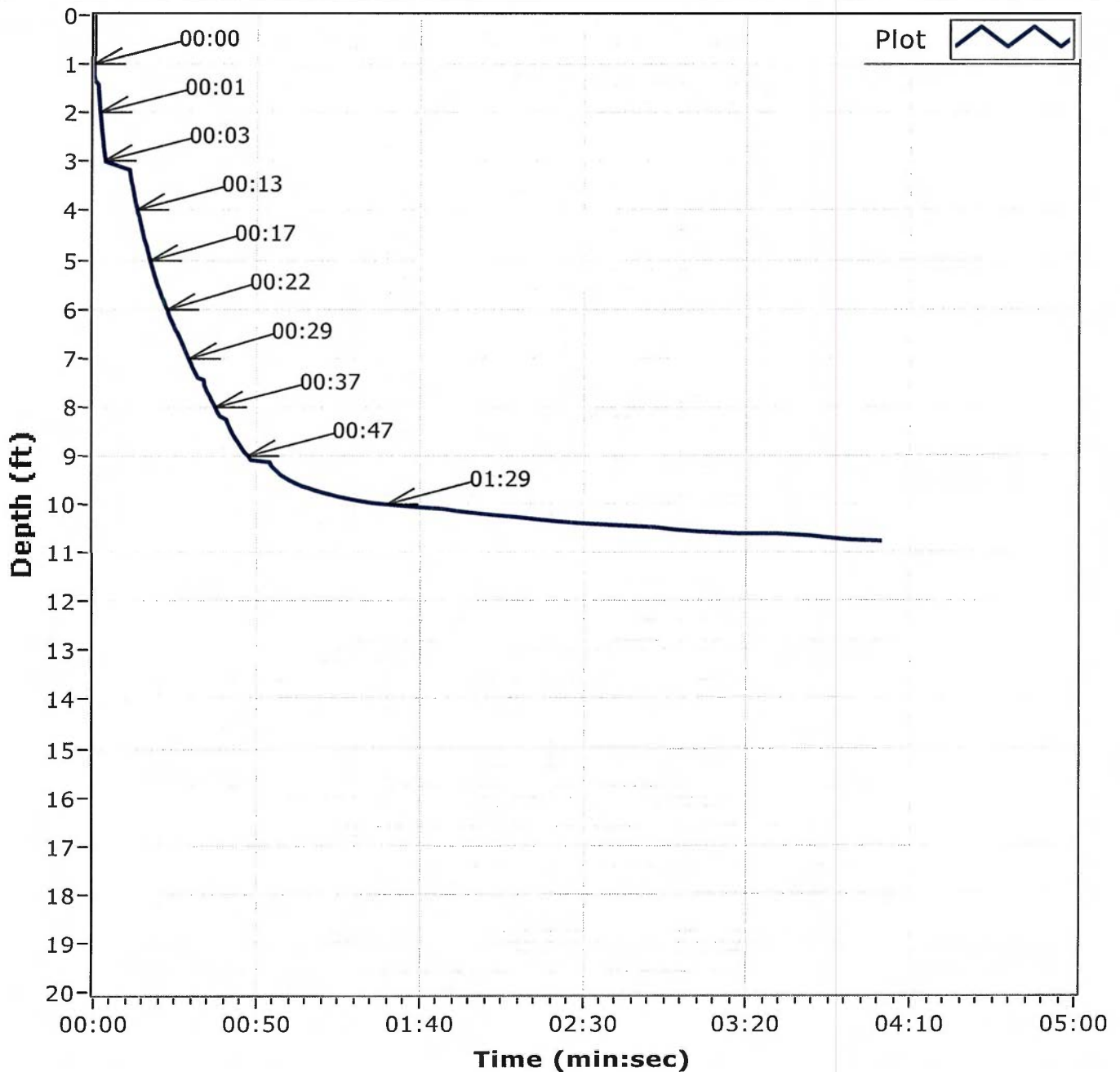


Project Jupiter Island '10



Date 01/14/2010 **Water Depth** -54.5 navd **Core Identifier** JI-33
Coordinate System **Start Time** 14:42:11
State Plane Coordinates (SPC) **End Time** 14:46:12 **Penetration** 10.8'
967646.742 **X** **Total Time** 00:04:01 **Recovery** 10.7'
969624.824 **Y**
FL East **Zone**

Comments



Penetrometer Graphs

Depth

vs.

Time per Foot



Project

Jupiter Island '10



Date 01/14/2010

Water Depth -41.8 navd

Core Identifier JI-6

Coordinate System

State Plane Coordinates (SPC)

967434.061 X

976918.605 Y

FL East Zone

Start Time 10:20:09

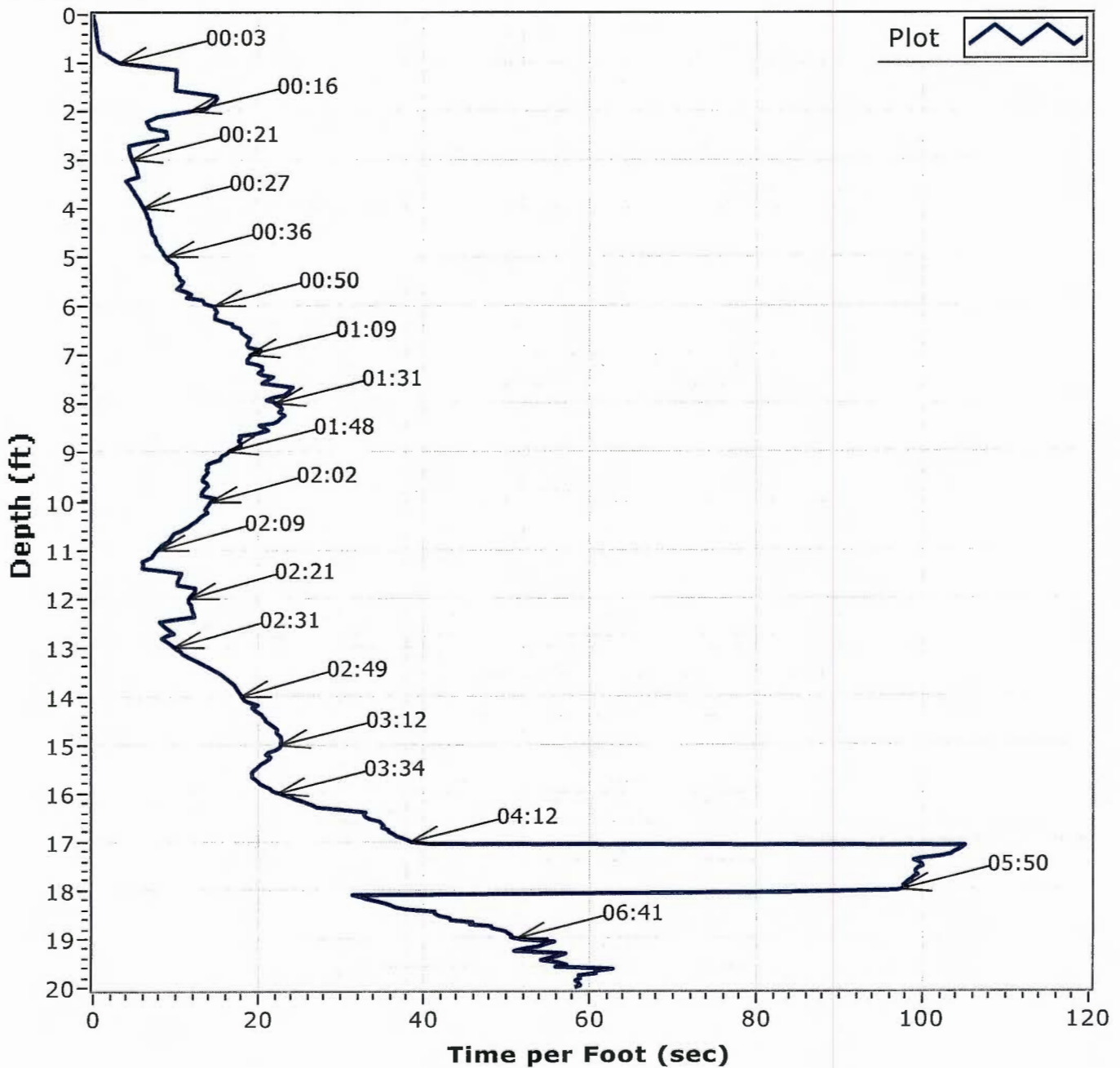
End Time 10:27:49

Total Time 00:07:40

Penetration 20.0'

Recovery 19.0'

Comments



Project

Jupiter Island 10



Date 01/14/2010

Water Depth --46.3 navd

Core Identifier JI-7

Coordinate System

State Plane Coordinates (SPC)

968386.926 X

977216.686 Y

FL East Zone

Start Time 10:48:12

End Time 10:56:11

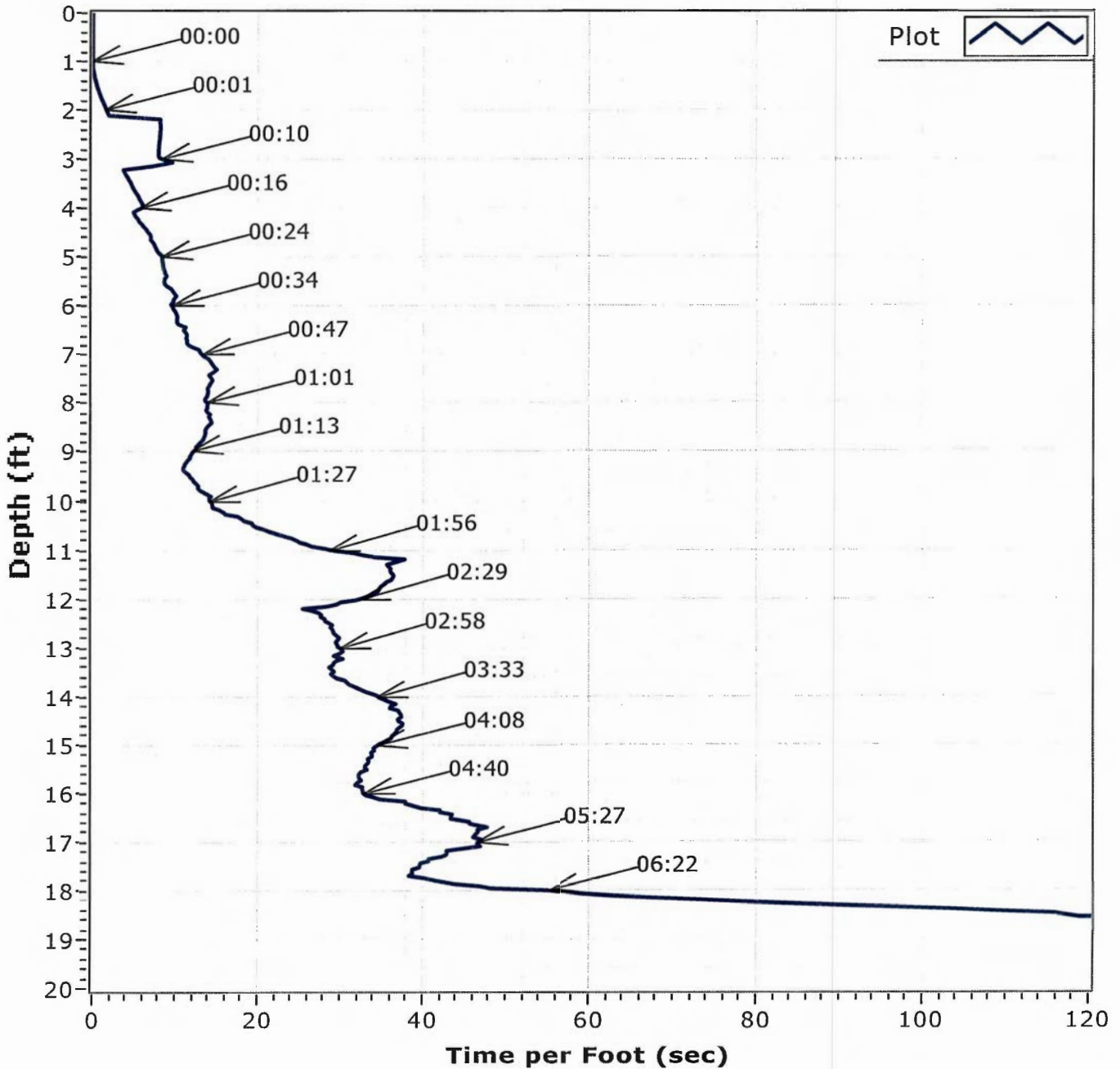
Total Time 00:07:59

Penetration 18.6'

Recovery 18.6'

Comments

Empty comment box.



Project

Jupiter Island '10



Date 01/14/2010

Water Depth -48.1 navd

Core Identifier JI-9

Coordinate System

State Plane Coordinates (SPC)

965828.685 X

975349.228 Y

FL East Zone

Start Time 09:24:23

End Time 09:34:08

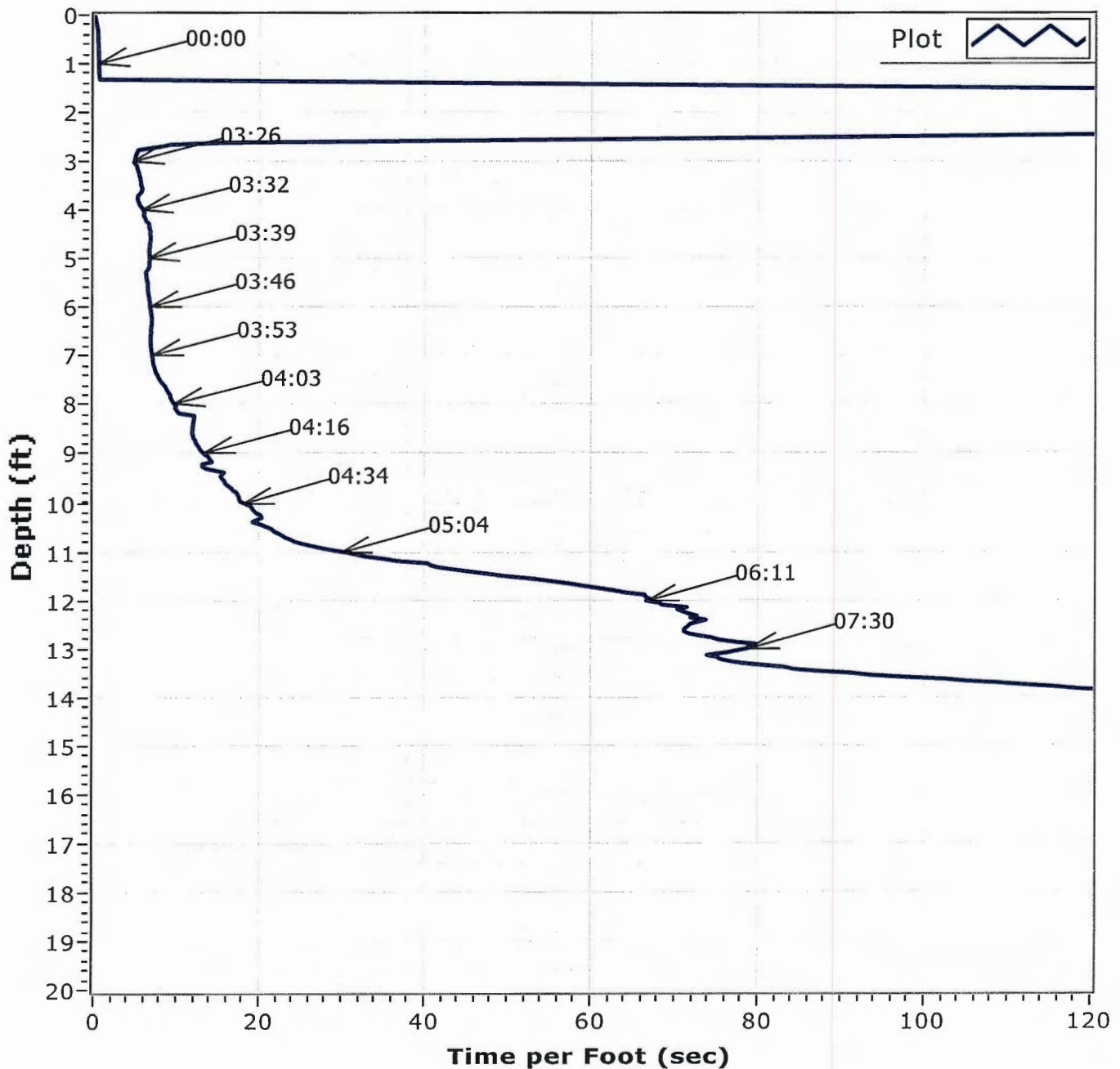
Total Time 00:09:44

Penetration 14.0'

Recovery 12.3'

Comments

Note: Compressor stalled then restarted



Project

Jupiter Island 10



Date 01/14/2010

Water Depth -42.9 navd

Core Identifier JI-10

Coordinate System

State Plane Coordinates (SPC)

966727.193 X

975665.037 Y

FL East Zone

Start Time 09:54:18

End Time 10:02:27

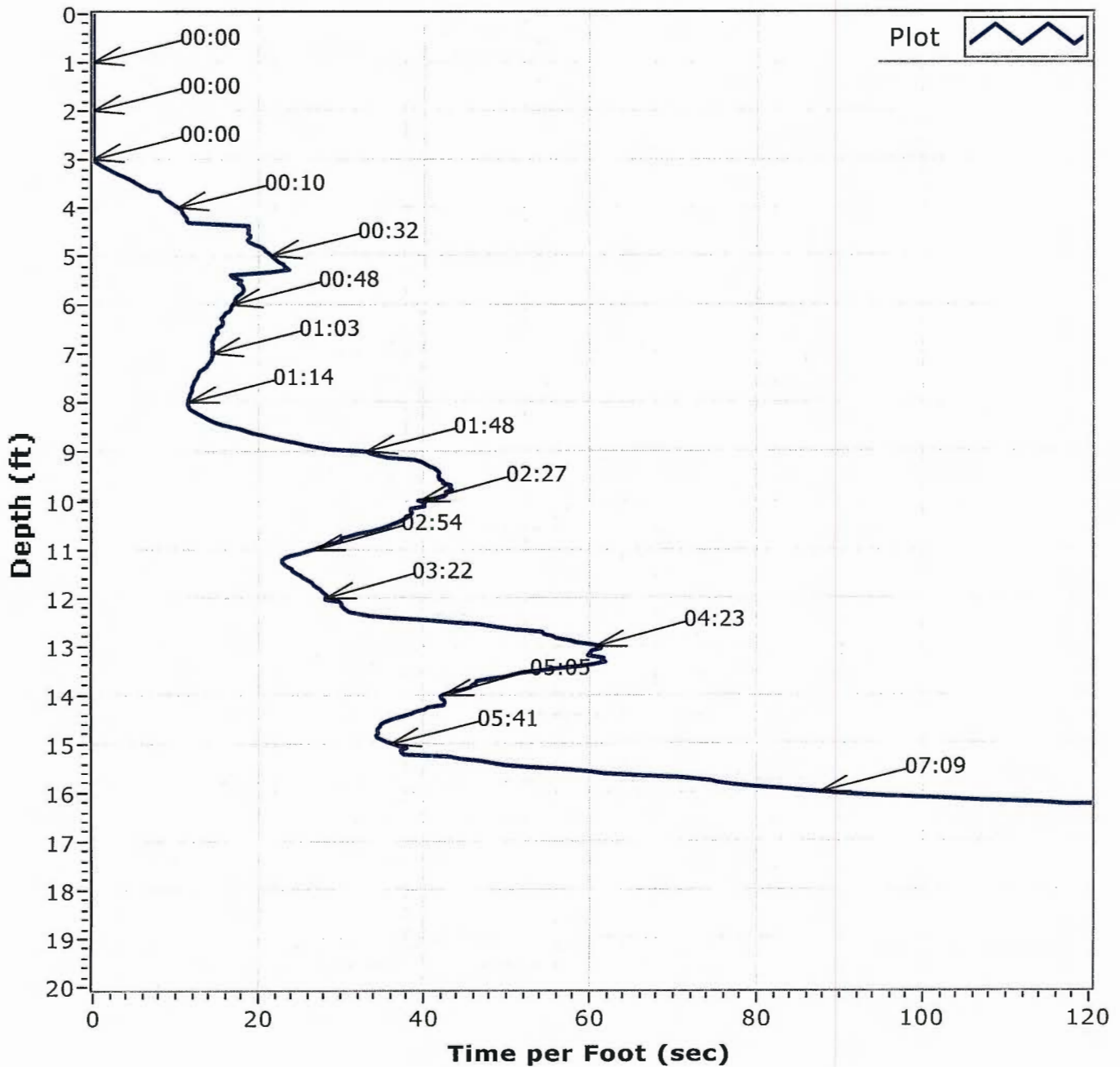
Total Time 00:08:09

Penetration 16.3'

Recovery 14.2'

Comments

Empty rectangular box for comments.



Project

Jupiter Island '10



Date 01/14/2010

Water Depth -42.9 navd

Core Identifier JI-11

Coordinate System

State Plane Coordinates (SPC)

967745.259 **X**

975957.536 **Y**

FL East **Zone**

Start Time 11:17:41

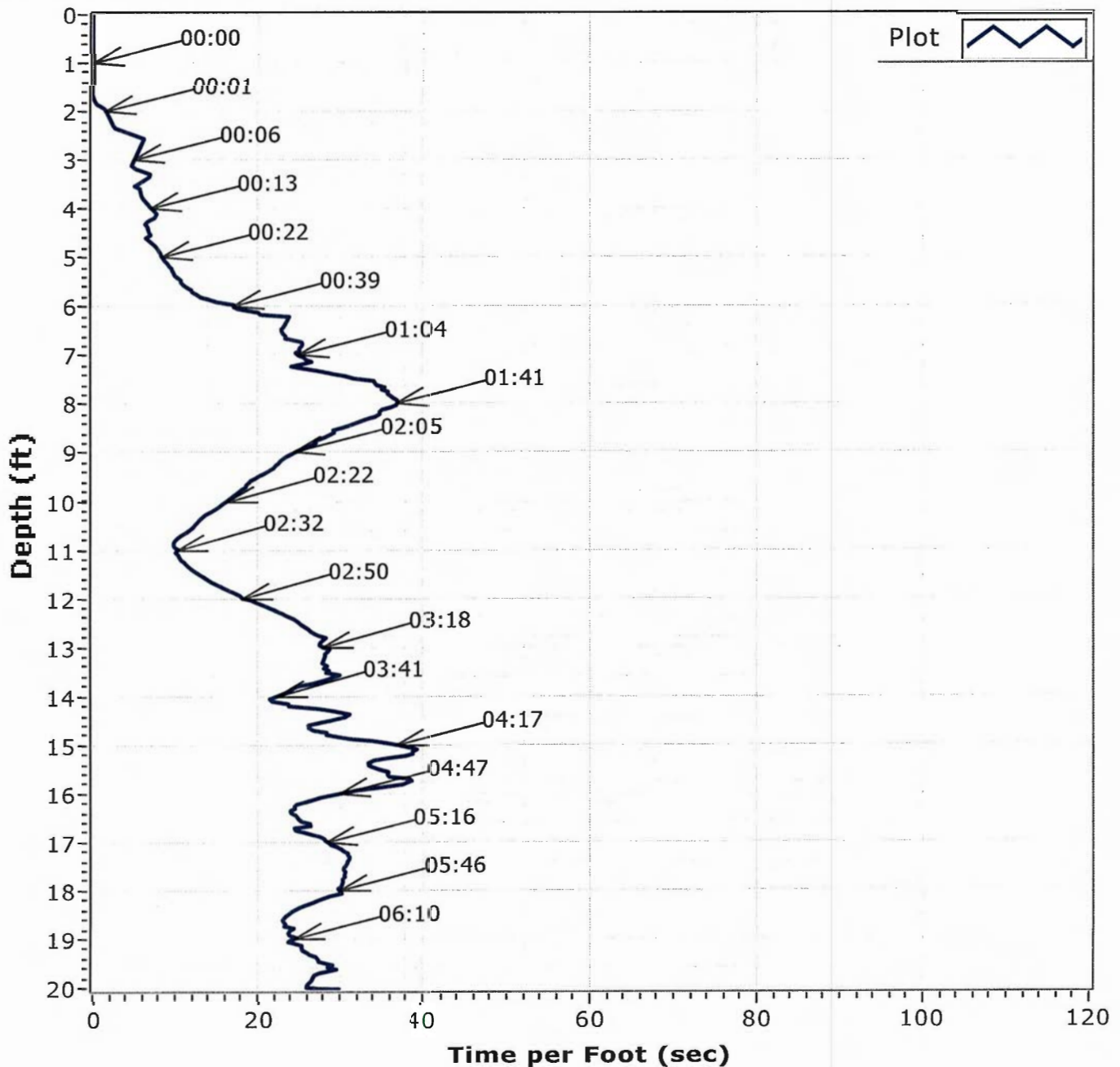
End Time 11:24:22

Total Time 00:06:41

Penetration 20.0'

Recovery 19.7'

Comments



Project

Jupiter Island 10



Date 01/14/2010

Water Depth -43.5 navd

Core Identifier JI-12

Coordinate System

State Plane Coordinates (SPC)

968692.81 X

976243.464 Y

FL East Zone

Start Time 17:23:06

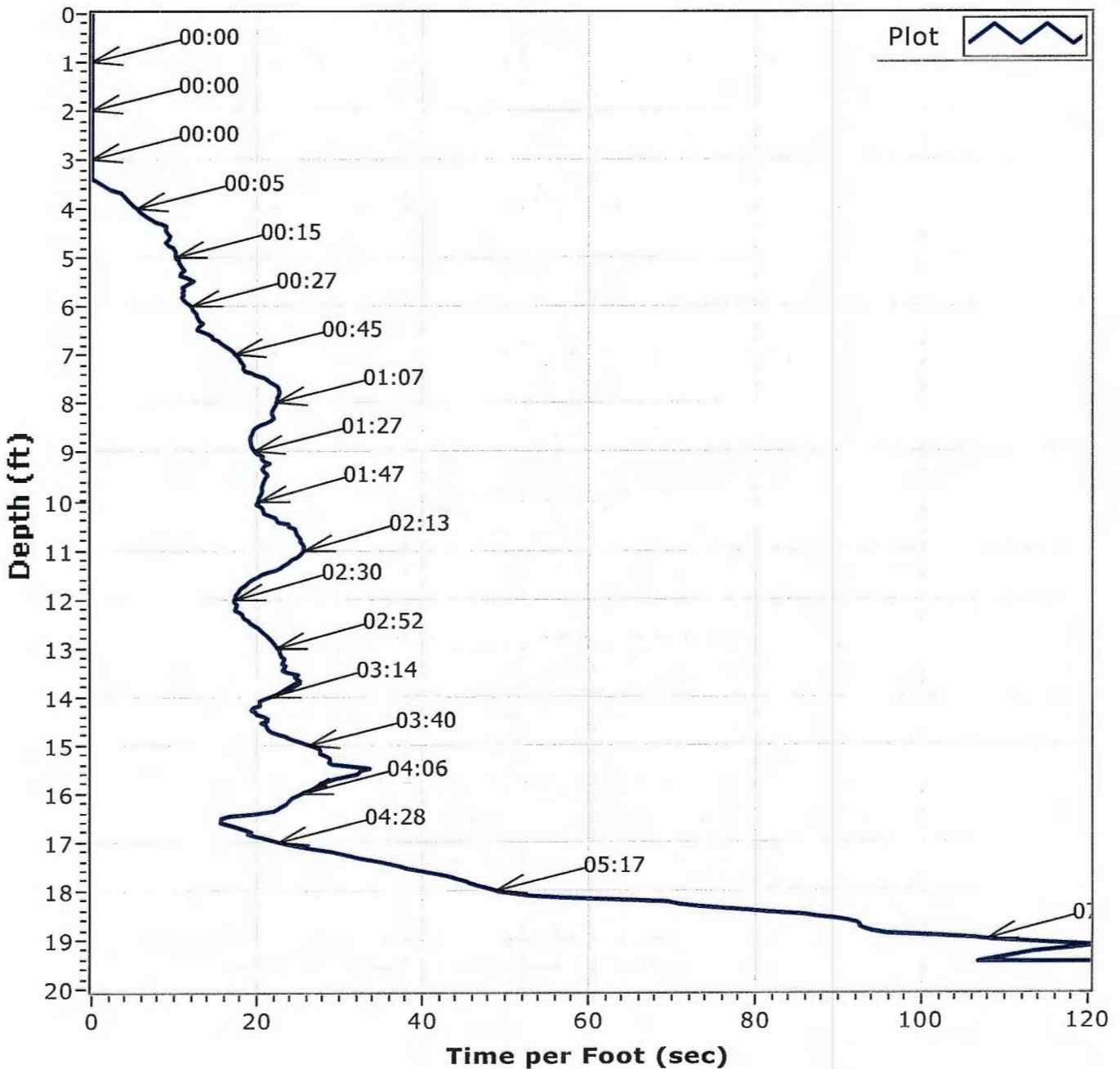
End Time 17:31:25

Total Time 00:08:19

Penetration 19.5'

Recovery 19.5'

Comments



Project

Jupiter Island 10



Date 01/14/2010

Water Depth -44.7 navd

Core Identifier JI-14

Coordinate System

State Plane Coordinates (SPC)

966134.337 X

974400.225 Y

FL East Zone

Start Time 16:26:45

End Time 16:33:59

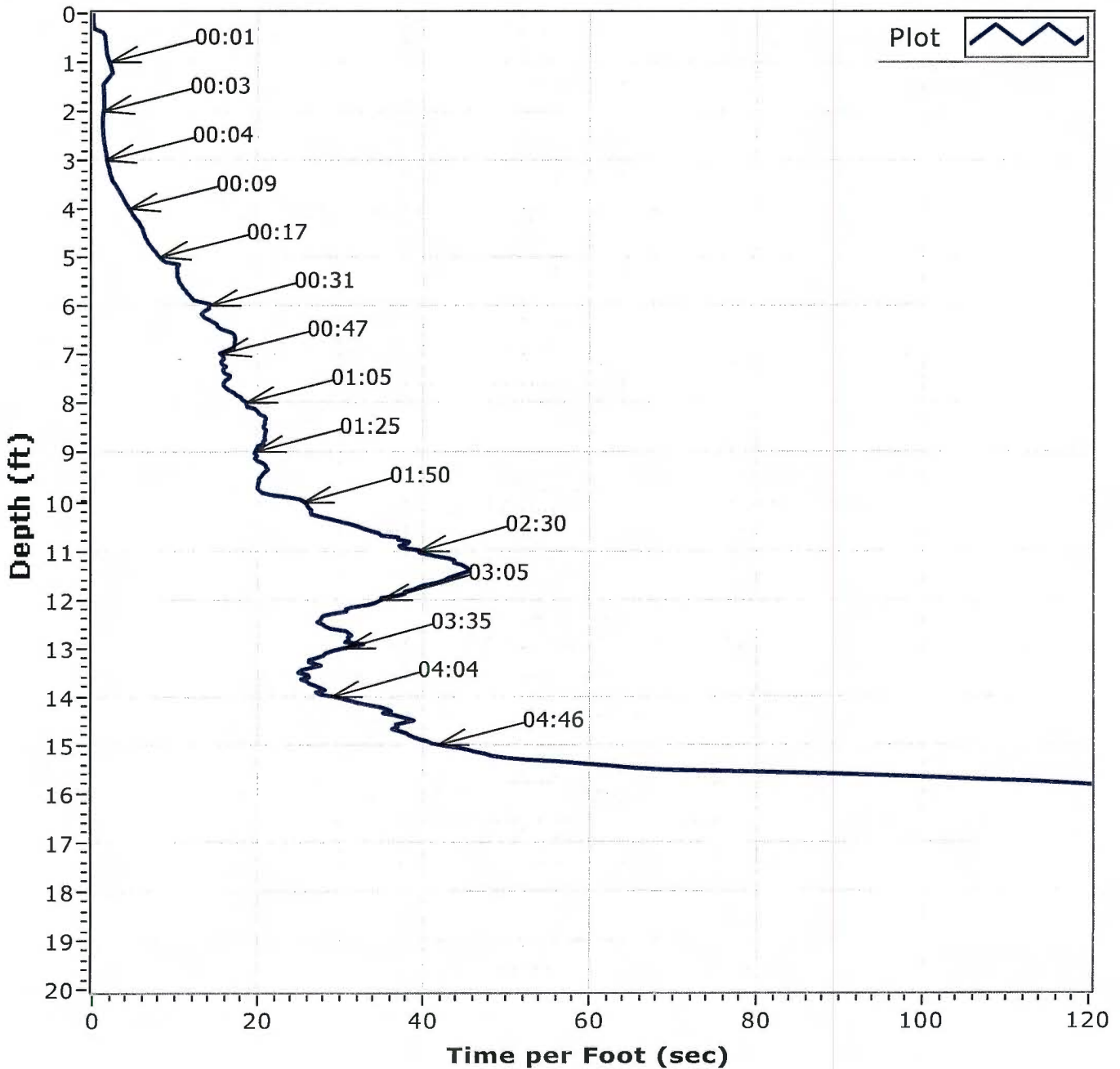
Total Time 00:07:14

Penetration 16.0'

Recovery 15.0'

Comments

Empty comment box.



Project

Jupiter Island '10



Date 01/14/2010

Water Depth -41.9 navd

Core Identifier JI-15 B

Coordinate System

State Plane Coordinates (SPC)

966633.016 **X**

974482.762 **Y**

FL East **Zone**

Start Time 12:07:17

End Time 12:13:22

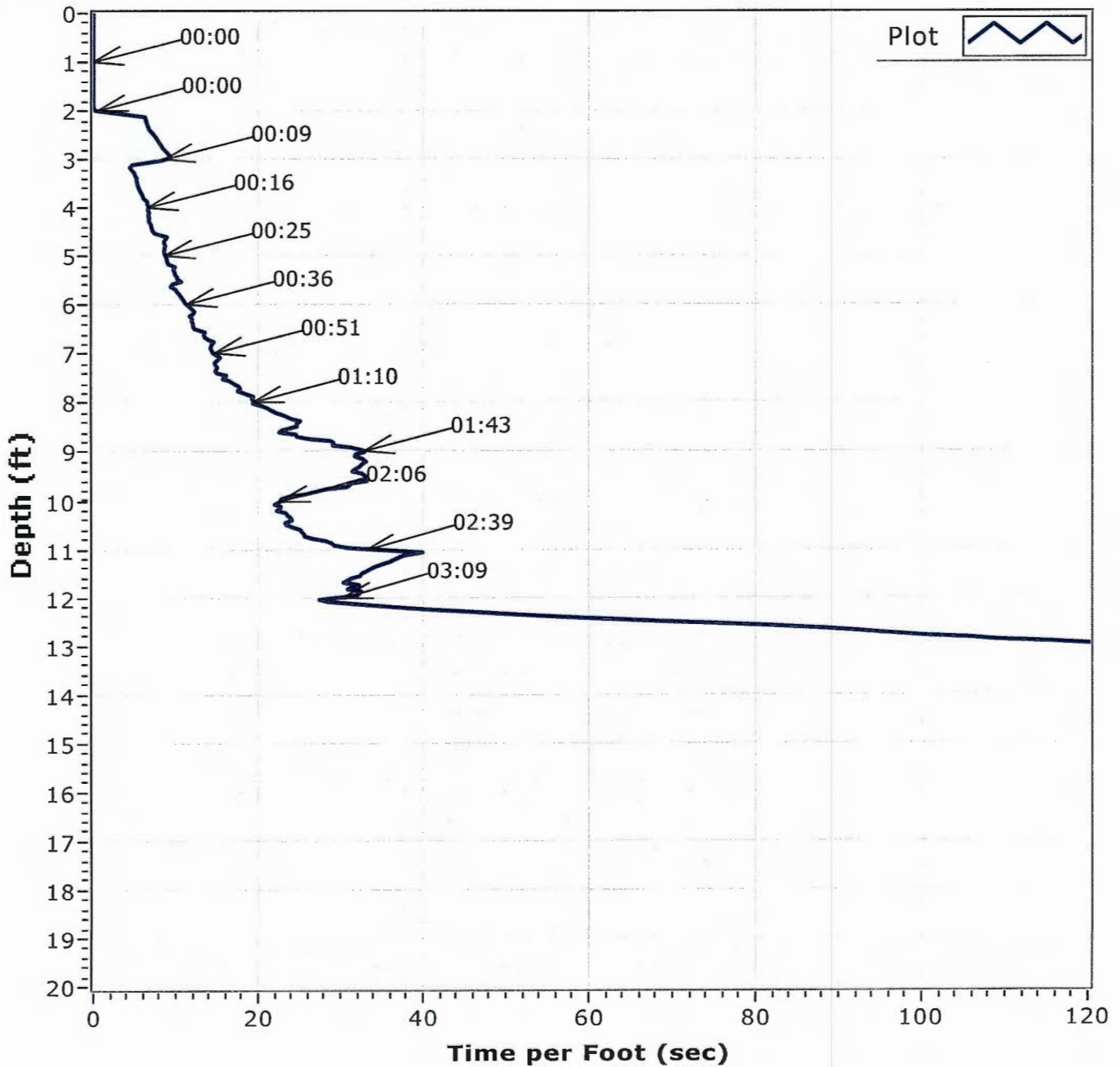
Total Time 00:06:05

Penetration 13.2'

Recovery 13.0'

Comments

Empty comment box.



Project

Jupiter Island '10



Date 01/14/2010

Water Depth -41.3 navd

Core Identifier JI-16

Coordinate System

State Plane Coordinates (SPC)

968034.717 **X**

975002.363 **Y**

FL East **Zone**

Start Time 16:52:29

End Time 16:57:48

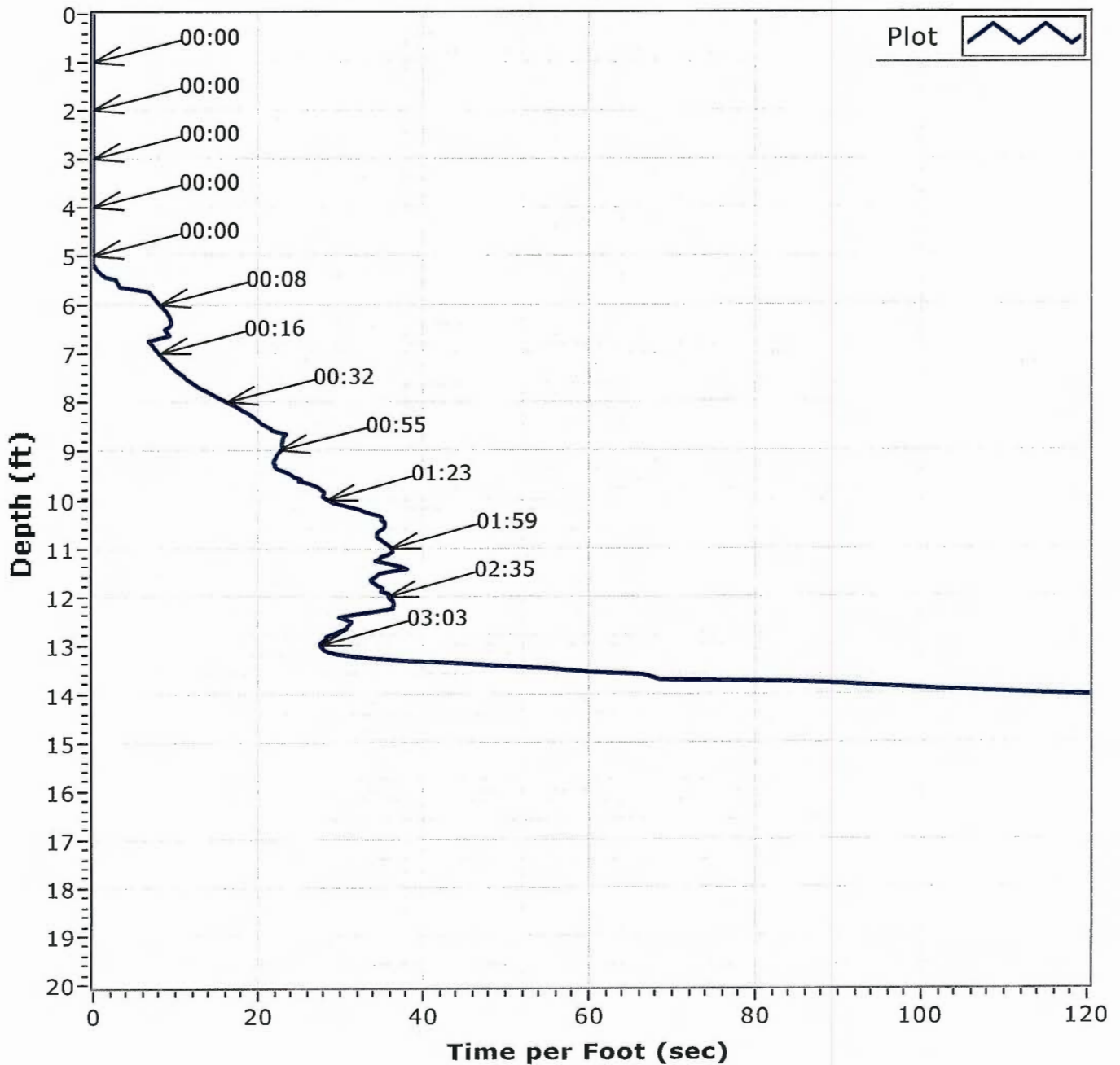
Total Time 00:05:19

Penetration 14.1'

Recovery 12.4'

Comments

Empty comment box.



Project

Jupiter Island '10



Date 01/14/2010

Water Depth -44.4 navd

Core Identifier JI-18

Coordinate System

State Plane Coordinates (SPC)

966445.612 X

973427.029 Y

FL East Zone

Start Time 13:00:42

End Time 13:07:00

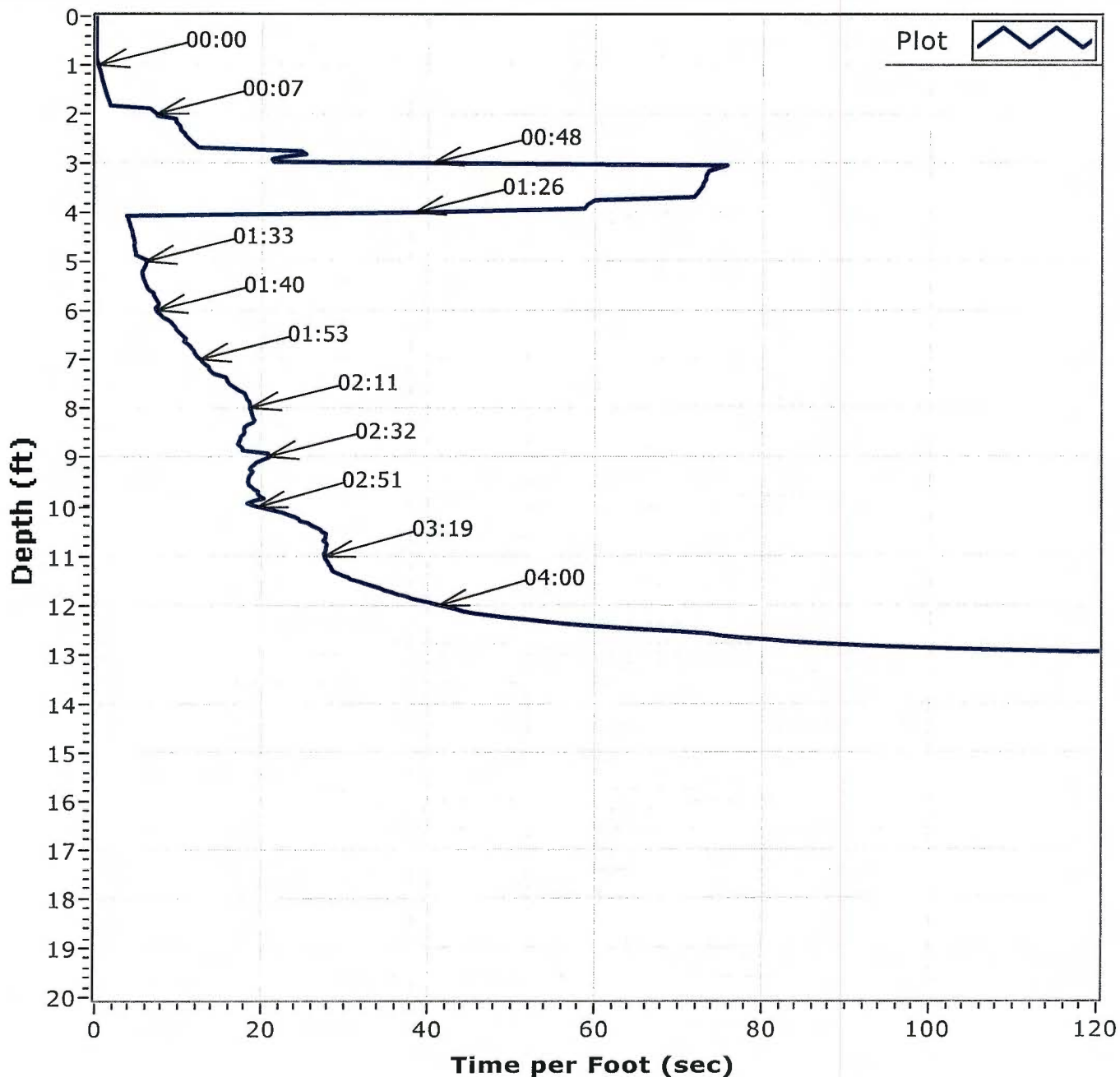
Total Time 00:06:18

Penetration 13.0'

Recovery 12.2'

Comments

Empty rectangular box for comments.



Project

Jupiter Island '10



Date 01/14/2010

Water Depth -49.0 navd

Core Identifier JI-19

Coordinate System

State Plane Coordinates (SPC)

967398.474 **X**

973737.202 **Y**

FL East **Zone**

Start Time 15:58:20

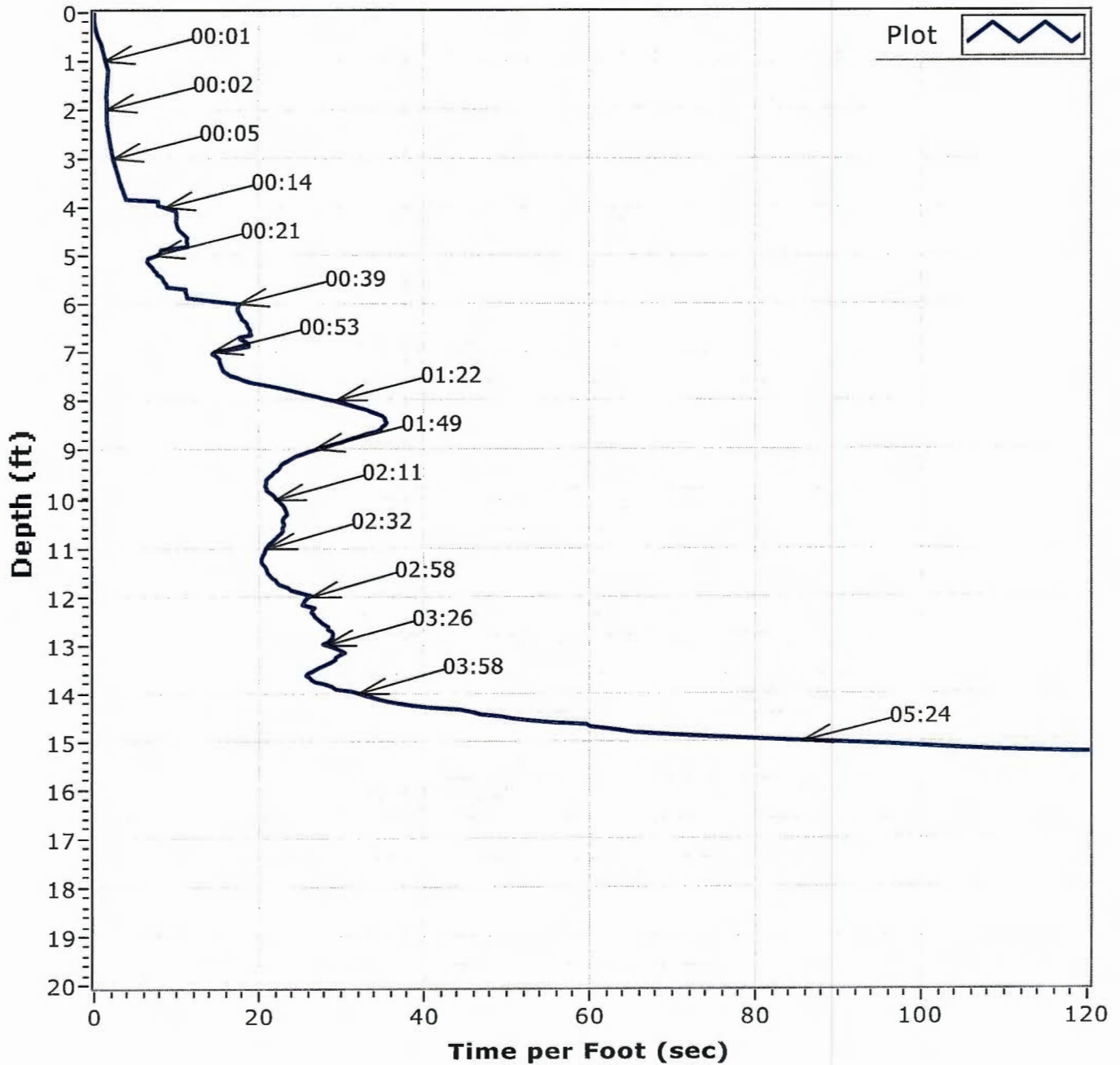
End Time 16:04:48

Total Time 00:06:28

Penetration 15.3'

Recovery 14.0'

Comments



Project

Jupiter Island '10



Date 01/14/2010

Water Depth -51.1 navd

Core Identifier JI-21

Coordinate System

State Plane Coordinates (SPC)

966745.864 **X**

972477.989 **Y**

FL East **Zone**

Start Time 15:26:41

End Time 15:35:43

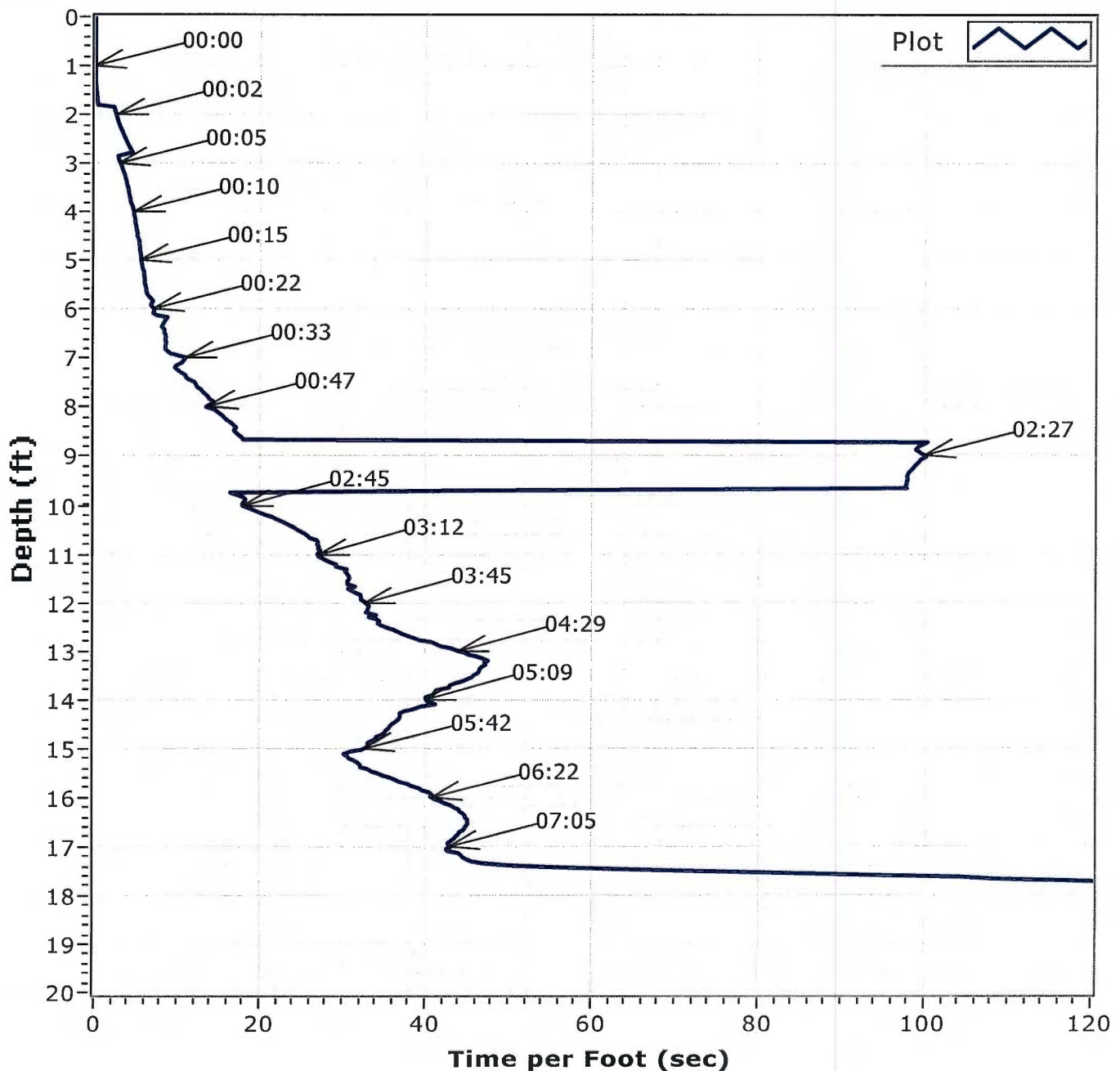
Total Time 00:09:02

Penetration 17.8'

Recovery 15.1'

Comments

Note: Compressor stalled at 8.7' then restarted

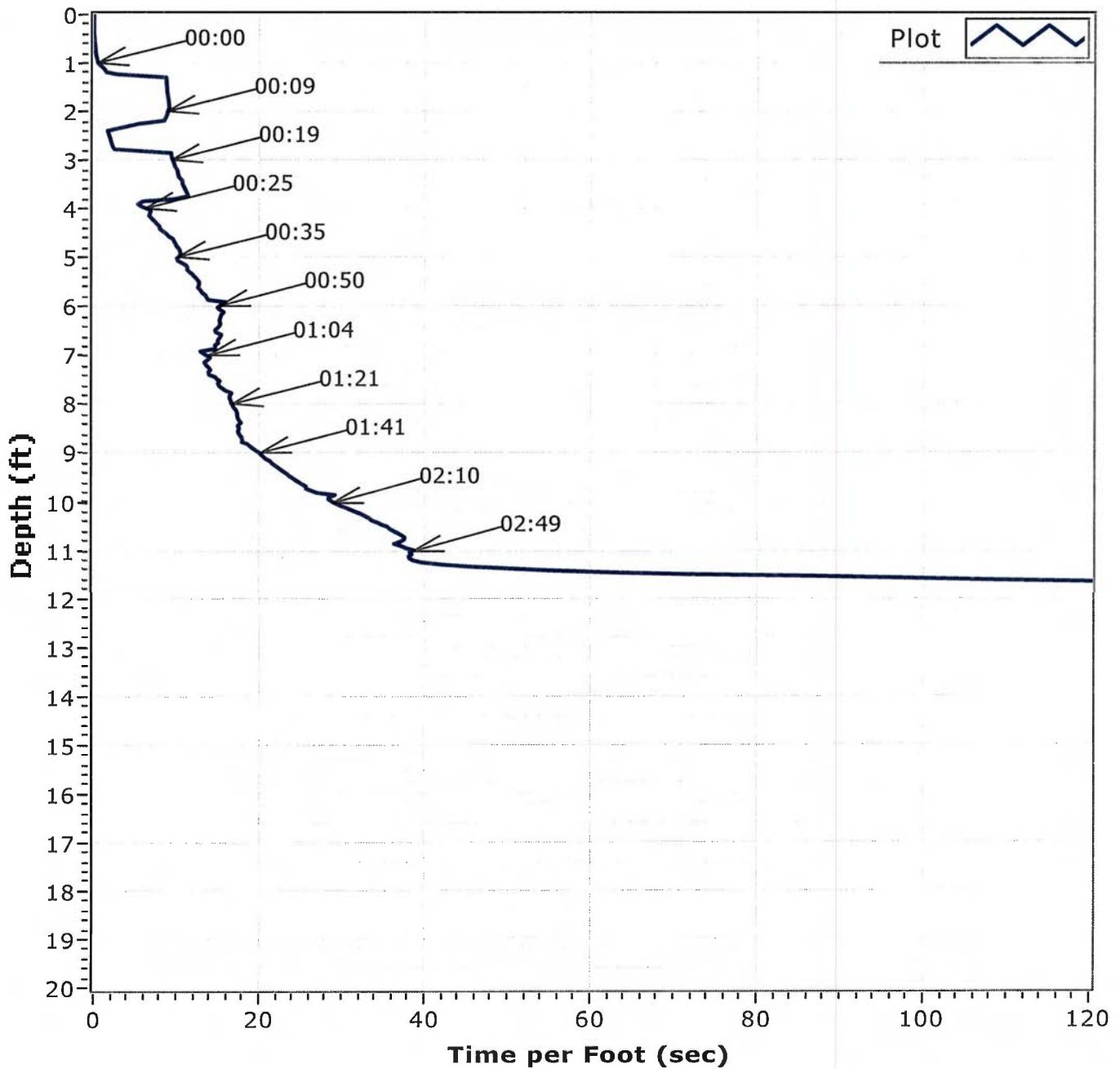


Project Jupiter Island '10



Date 01/14/2010	Water Depth -51.5 navd	Core Identifier JI-24 B
Coordinate System State Plane Coordinates (SPC)	Start Time 13:45:09	Penetration 11.7'
966374.563 X	End Time 13:49:57	Recovery 10.0'
971366.038 Y	Total Time 00:04:48	
FL East Zone		

Comments



Project

Jupiter Island 10



Date 01/14/2010

Water Depth -51.0 navd

Core Identifier JI-25

Coordinate System

State Plane Coordinates (SPC)

967056.973 X

971535.093 Y

FL East Zone

Start Time 15:00:17

End Time 15:08:15

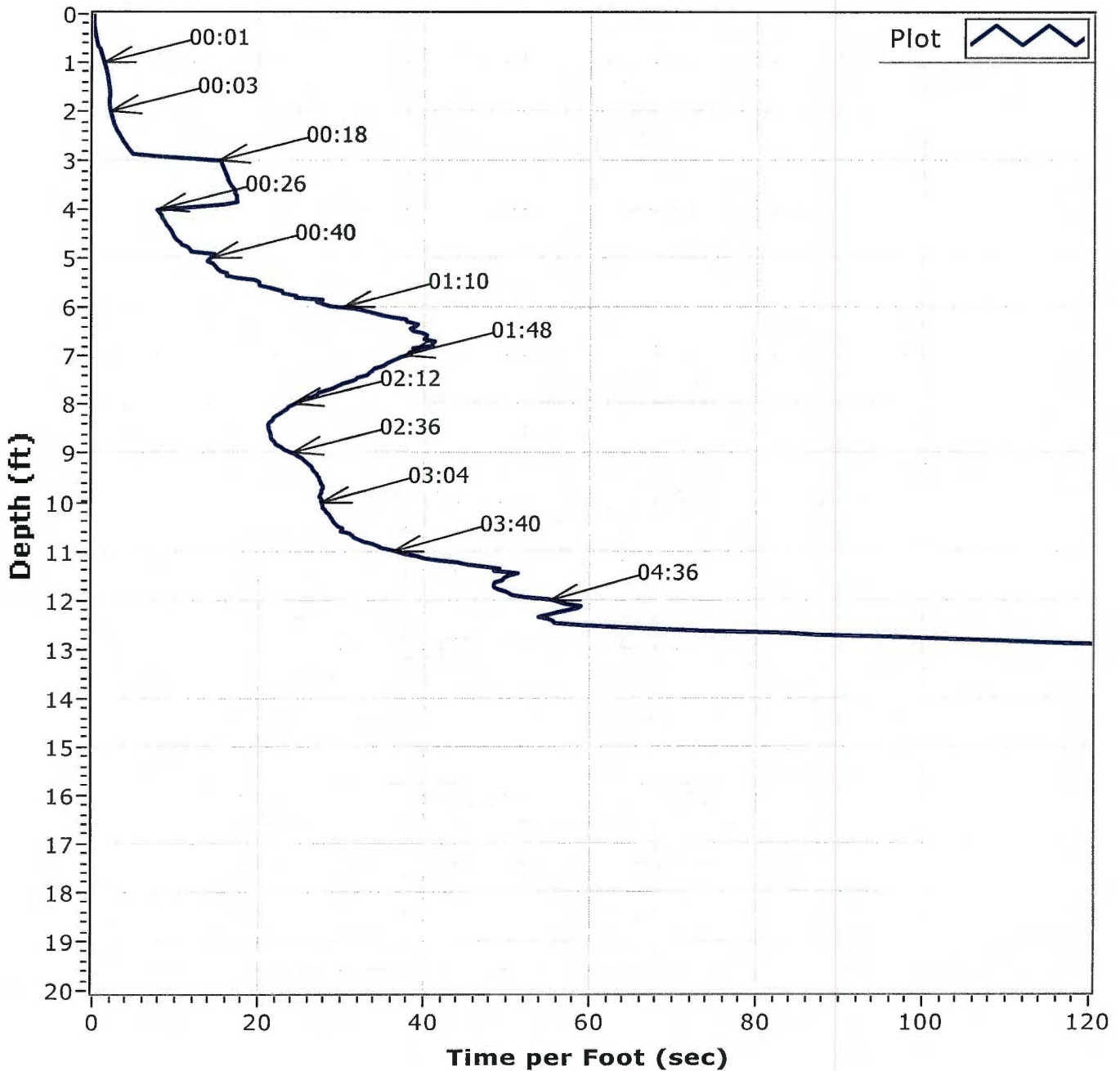
Total Time 00:07:58

Penetration 13.4'

Recovery 11.4'

Comments

Empty rectangular box for comments.



Project Jupiter Island '10



Date 01/14/2010

Water Depth -52.7 navd

Core Identifier JI-28

Coordinate System

State Plane Coordinates (SPC)

966409.66 X

970281.988 Y

FL East Zone

Start Time 14:02:51

End Time 14:06:46

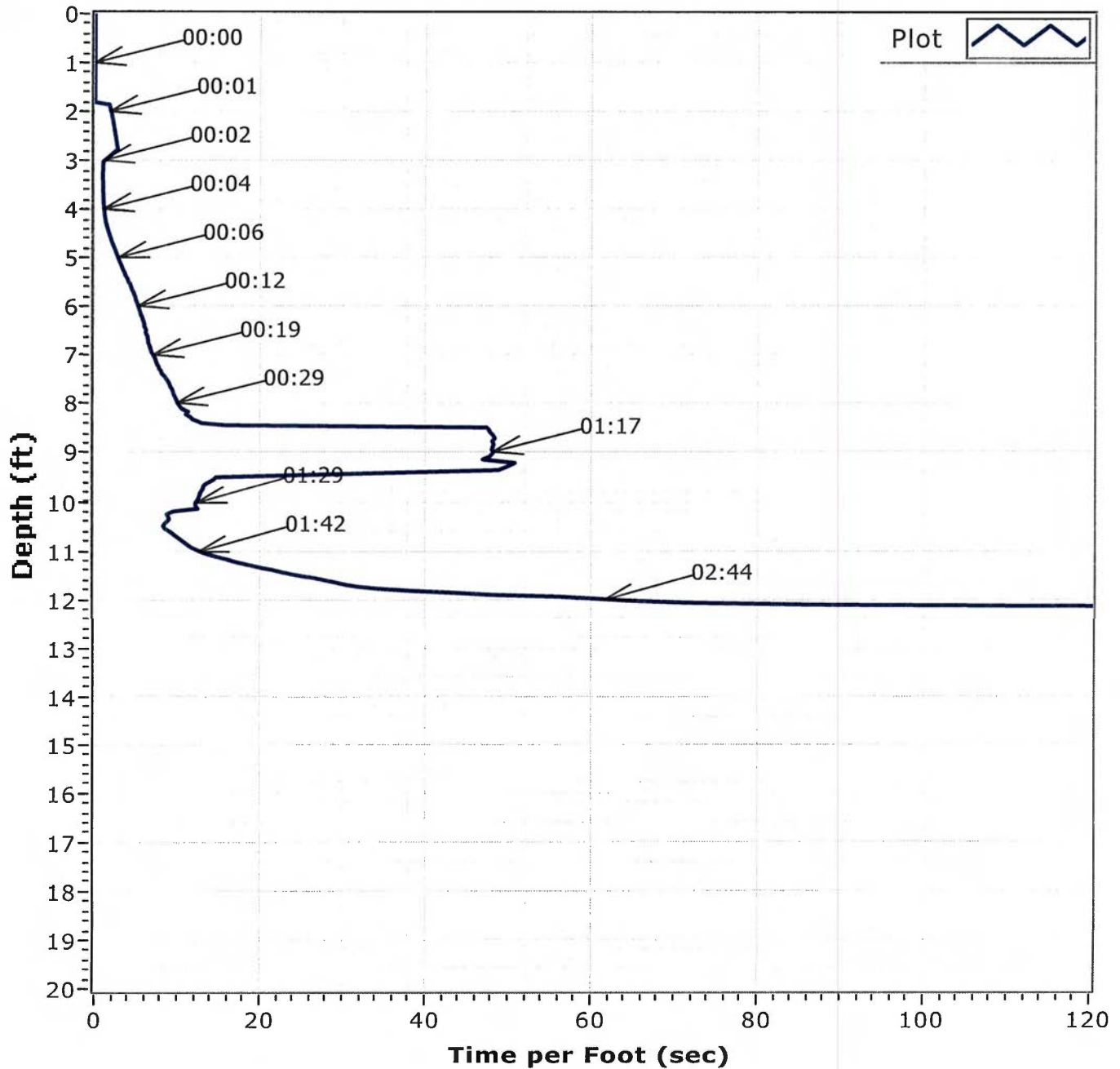
Total Time 00:03:55

Penetration 12.1'

Recovery 10.0'

Comments

Empty comment box.

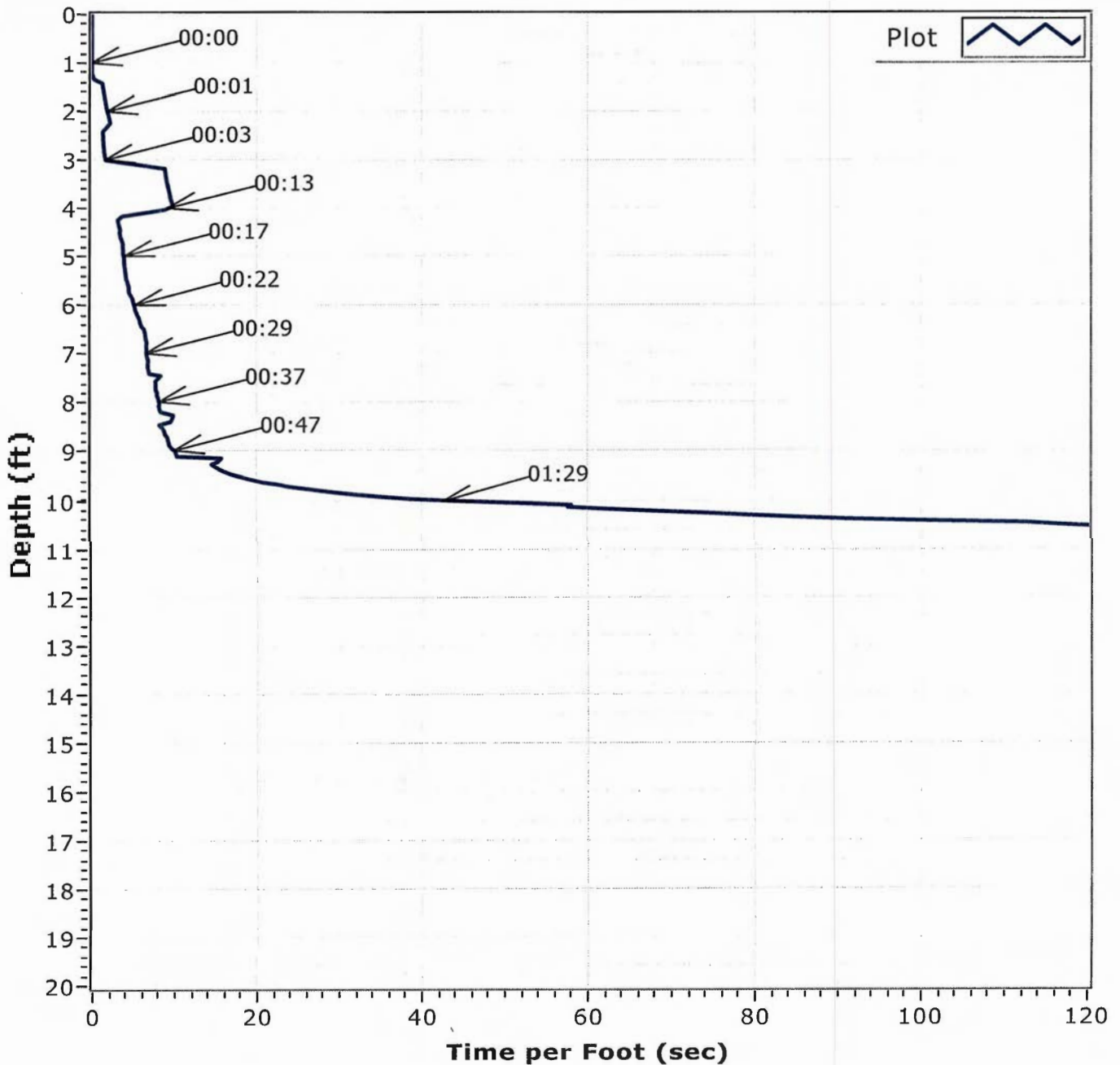


Project Jupiter Island '10



Date 01/14/2010	Water Depth -54.5 navd	Core Identifier JI-33
Coordinate System	Start Time 14:42:11	
State Plane Coordinates (SPC)	End Time 14:46:12	Penetration 10.8'
967646.742 X	Total Time 00:04:01	Recovery 10.7'
969624.824 Y		
FL East Zone		

Comments




Vibracore Logs



DRILLING LOG		DIVISION	INSTALLATION	SHEET 1 OF 1 SHEETS
1. PROJECT Jupiter Island 10 Jupiter Island, Florida			9. SIZE AND TYPE OF BIT 3.0 In.	
2. BORING DESIGNATION JI-6			10. COORDINATE SYSTEM/DATUM Florida State Plane East	
3. DRILLING AGENCY			11. MANUFACTURER'S DESIGNATION OF DRILL <input type="checkbox"/> AUTO HAMMER Vibracore <input type="checkbox"/> MANUAL HAMMER	
4. NAME OF DRILLER BM			12. TOTAL SAMPLES	
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			13. TOTAL NUMBER CORE BOXES	
6. THICKNESS OF OVERBURDEN 0.0 Ft.			14. ELEVATION GROUND WATER	
7. DEPTH DRILLED INTO ROCK 0.0 Ft.			15. DATE BORING	
8. TOTAL DEPTH OF BORING 20.0 Ft.			16. ELEVATION TOP OF BORING -41.8 Ft.	
			17. TOTAL RECOVERY FOR BORING 19 Ft.	
			18. SIGNATURE AND TITLE OF INSPECTOR FK	

ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIALS Depths and elevations based on measured values	% REC.	BOX OR SAMPLE	REMARKS
-41.8	0.0					
			Sand (fine to medium) and shell, grey 10YR 4/1, (SW).		S-1 (3')	Sample #S-1 (3'), Depth = 3.0'
-49.4	7.6		Sand (fine to medium) and shell, grey 10YR 5/1, (SW).		S-2 (9.5')	Sample #S-2 (9.5'), Depth = 9.5'
-52.8	11.0		Sand (fine to medium) and shell, grey 10YR 5/1, (SW).		S-3 (11.5')	Sample #S-3 (11.5'), Depth = 11.5'
-53.6	11.8		Sand (fine to medium) and shell, grey 10YR 5/1, (SW).			
-54.4	12.6		Sand (fine to medium) and shell, grey 10YR 5/1, (SW).			
-55.2	13.4		Sand (fine to medium) and shell, grey 10YR 5/1, (SW).			
-55.6	13.8		Sand (fine to medium) and shell, grey 10YR 5/1, (SP).		S-4 (13.7')	Sample #S-4 (13.7'), Depth = 13.7'
			Sand (fine to medium) and shell, grey 10YR 5/1, (SW).			
-60.8	19.0					
			End of Boring			

FLORIDA DEP ROSS - JUPITER ISLAND 10.GPJ FL DEP ROSS GDT 6/30/10

DRILLING LOG		DIVISION		INSTALLATION		SHEET 1 OF 1 SHEETS	
1. PROJECT Jupiter Island 10 Jupiter Island, Florida				9. SIZE AND TYPE OF BIT 3.0 In.			
				10. COORDINATE SYSTEM/DATUM HORIZONTAL Florida State Plane East		VERTICAL NAVD 88	
2. BORING DESIGNATION JI-7		LOCATION COORDINATES X = 968387. Y = 977217.		11. MANUFACTURER'S DESIGNATION OF DRILL <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER Vibracore			
3. DRILLING AGENCY		CONTRACTOR FILE NO.		12. TOTAL SAMPLES		DISTURBED UNDISTURBED (UD)	
4. NAME OF DRILLER BM				13. TOTAL NUMBER CORE BOXES			
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		DEG. FROM VERTICAL		BEARING		14. ELEVATION GROUND WATER	
6. THICKNESS OF OVERBURDEN 0.0 Ft.		7. DEPTH DRILLED INTO ROCK 0.0 Ft.		15. DATE BORING		STARTED 01-14-10 10:48 COMPLETED 01-14-10 10:56	
8. TOTAL DEPTH OF BORING 18.6 Ft.				16. ELEVATION TOP OF BORING -46.3 Ft.		17. TOTAL RECOVERY FOR BORING 18.6 Ft.	
				18. SIGNATURE AND TITLE OF INSPECTOR FK			


ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIALS Depths and elevations based on measured values	% REC.	BOX OR SAMPLE	REMARKS
-46.3	0.0					
			Sand (fine to medium) and shell, grey 10YR 4/1, (SP).		S-1 (2')	Sample #S-1 (2'), Depth = 2.0'
			Sand (fine to medium) and shell, brown 10YR 6/1, (SW).		S-2 (8')	Sample #S-2 (8'), Depth = 8.0'
			Sand (fine to medium) and shell, grey/brown 10YR 5/2, (SP).		S-3 (9.8')	Sample #S-3 (9.8'), Depth = 9.8'
			Sand (fine to medium) and shell, grey/brown 10yr 5/2, (SW).			
			Sand (fine to medium) and shell, grey 10YR 4/1, (SW).		S-4 (18')	Sample #S-4 (18'), Depth = 18.0'
			End of Boring			

FLORIDA DEP ROSS - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/30/10

DRILLING LOG		DIVISION		INSTALLATION		SHEET 1 OF 1 SHEETS	
1. PROJECT Jupiter Island 10 Jupiter Island, Florida				9. SIZE AND TYPE OF BIT 3.0 In.			
				10. COORDINATE SYSTEM/DATUM Florida State Plane East		HORIZONTAL NAD 1983	
				11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore		<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER	
2. BORING DESIGNATION JI-9		LOCATION COORDINATES X = 965829. Y = 975349.		12. TOTAL SAMPLES		<input type="checkbox"/> DISTURBED <input type="checkbox"/> UNDISTURBED (UD)	
3. DRILLING AGENCY				CONTRACTOR FILE NO.			
4. NAME OF DRILLER BM				13. TOTAL NUMBER CORE BOXES			
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		DEG. FROM VERTICAL		BEARING		14. ELEVATION GROUND WATER	
6. THICKNESS OF OVERBURDEN 0.0 Ft.		7. DEPTH DRILLED INTO ROCK 0.0 Ft.		15. DATE BORING		STARTED 01-14-10 09:24 COMPLETED 01-14-10 09:34	
8. TOTAL DEPTH OF BORING 14.0 Ft.				16. ELEVATION TOP OF BORING -48.1 Ft.			
17. TOTAL RECOVERY FOR BORING 12.3 Ft.				18. SIGNATURE AND TITLE OF INSPECTOR FK			

ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIALS Depths and elevations based on measured values	% REC.	BOX OR SAMPLE	REMARKS
-48.1	0.0					
			Sand (fine to medium) and shell, grey 10YR 5/1, (SW).		S-1 (1')	Sample #S-1 (1'), Depth = 1.0'
-50.8	2.7		Sand (coarse to medium) and shell, grey 10YR 6/1 multiple shells between 1" to 1.5" @ 4.0 to 5.0 mottling between brown and grey, (SW).		S-2 (3.6')	Sample #S-2 (3.6'), Depth = 3.6'
-53.0	4.9		Sand (fine to medium) and shell, grey 10YR 4/1, (SW).		S-3 (5.6')	Sample #S-3 (5.6'), Depth = 5.6'
-53.8	5.7		Sand (fine), grey 10YR 4/1, (SP).			
-57.5	9.4		Sand (fine to medium) and shell, grey 10YR 4/1, (SW).			
-58.0	9.9		Sand (fine to medium) and shell, grey 10YR 4/1, (SP).		S-4 (11')	Sample #S-4 (11'), Depth = 11.0'
-60.4	12.3		End of Boring			


FLORIDA DEP ROSS - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/30/10

DRILLING LOG		DIVISION	INSTALLATION	SHEET 1 OF 1 SHEETS
1. PROJECT Jupiter Island 10 Jupiter Island, Florida				9. SIZE AND TYPE OF BIT 3.0 In.
2. BORING DESIGNATION JI-10				10. COORDINATE SYSTEM/DATUM Florida State Plane East
3. DRILLING AGENCY		LOCATION COORDINATES X = 966727. Y = 975665.		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. NAME OF DRILLER BM		CONTRACTOR FILE NO.		<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		DEG. FROM VERTICAL	BEARING	12. TOTAL SAMPLES
6. THICKNESS OF OVERBURDEN 0.0 Ft.		13. TOTAL NUMBER CORE BOXES		13. TOTAL NUMBER CORE BOXES
7. DEPTH DRILLED INTO ROCK 0.0 Ft.		14. ELEVATION GROUND WATER		14. ELEVATION GROUND WATER
8. TOTAL DEPTH OF BORING 16.3 Ft.		15. DATE BORING		STARTED 01-14-10 09:54 COMPLETED 01-14-10 10:02
		16. ELEVATION TOP OF BORING -42.9 Ft.		16. ELEVATION TOP OF BORING -42.9 Ft.
		17. TOTAL RECOVERY FOR BORING 14.1 Ft.		17. TOTAL RECOVERY FOR BORING 14.1 Ft.
		18. SIGNATURE AND TITLE OF INSPECTOR FK		18. SIGNATURE AND TITLE OF INSPECTOR FK

ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIALS Depths and elevations based on measured values	% REC.	BOX OR SAMPLE	REMARKS
-42.9	0.0					
-45.7	2.8		Sand (fine to medium) with some shell, grey 10YR 4/1, (SP).		S-1 (2.5')	Sample #S-1 (2.5'), Depth = 2.5'
-46.5	3.6		Sand (fine to medium) and shell, grey 10YR 4/1, (SP).			
-48.9	6.0		Sand (fine to medium) and shell, grey 10YR 4/1, (SW).			
-50.6	7.7		Sand (coarse to medium) and shell, 1.75" shell @7.6', grey 10YR 5/1, (SW).		S-2 (6.6')	Sample #S-2 (6.6'), Depth = 6.6'
-52.6	9.7		Sand (fine to medium) and shell, grey 10YR 4/1, (SW).		S-3 (9.5')	Sample #S-3 (9.5'), Depth = 9.5'
-54.6	11.7		Sand (coarse to medium) and shell, grey 10YR 4/1, (SW).			
-56.9	14.0		Sand (fine) with some shell, grey 10YR 4/1, (SP).		S-4 (13)	Sample #S-4 (13'), Depth = 13.0'
-57.1	14.2		Sand (coarse to medium) and shell, grey 10YR 4/1, (SW).			
			End of Boring			


FLORIDA DEP ROSS, JUPITER ISLAND 10.GPJ, FL DEP ROSS.GDT 6/30/10

Boring Designation JI-11

DRILLING LOG		DIVISION	INSTALLATION	SHEET 1 OF 1 SHEETS
1. PROJECT Jupiter Island 10 Jupiter Island, Florida				9. SIZE AND TYPE OF BIT 3.0 In.
2. BORING DESIGNATION JI-11		LOCATION COORDINATES X = 967745. Y = 975958.		10. COORDINATE SYSTEM/DATUM Florida State Plane East
3. DRILLING AGENCY		CONTRACTOR FILE NO.		HORIZONTAL NAD 1983
4. NAME OF DRILLER BM				VERTICAL NAVD 88
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		DEG. FROM VERTICAL	BEARING	11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
6. THICKNESS OF OVERBURDEN 0.0 Ft.				<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
7. DEPTH DRILLED INTO ROCK 0.0 Ft.				12. TOTAL SAMPLES
8. TOTAL DEPTH OF BORING 20.0 Ft.				DISTURBED
				UNDISTURBED (UD)
				13. TOTAL NUMBER CORE BOXES
				14. ELEVATION GROUND WATER
				15. DATE BORING
				STARTED 01-14-10 11:17
				COMPLETED 01-14-10 11:24
				16. ELEVATION TOP OF BORING -42.9 Ft.
				17. TOTAL RECOVERY FOR BORING 19.7 Ft.
				18. SIGNATURE AND TITLE OF INSPECTOR FK

ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIALS Depths and elevations based on measured values	% REC.	BOX OR SAMPLE	REMARKS
-42.9	0.0					
-44.1	1.2		Sand (fine) w/ trace shell, grey 10YR 5/1, (SP).			
					S-1 (3')	Sample #S-1 (3'), Depth = 3.0'
			Sand (fine to medium) and shell, grey 10YR 5/1, (SP).			
					S-2 (9')	Sample #S-2 (9'), Depth = 9.0'
-50.2	7.3				S-3 (11')	Sample #S-3 (11'), Depth = 11.0'
			Sand (fine to medium) and shell, grey 10YR 4/1, (SP).			
					S-4 (14')	Sample #S-4 (14'), Depth = 14.0'
-56.9	14.0					
			Sand (fine to medium) and shell, grey 10YR 4/1, (SP).			
					S-5 (18')	Sample #S-5 (18'), Depth = 18.0'
-62.6	19.7					
			End of Boring			


FLORIDA DEP ROSS JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/30/10


DRILLING LOG		DIVISION	INSTALLATION	SHEET 1 OF 1 SHEETS
1. PROJECT Jupiter Island 10 Jupiter Island, Florida				9. SIZE AND TYPE OF BIT 3.0 In.
2. BORING DESIGNATION JI-12		LOCATION COORDINATES X = 968693. Y = 976243.		10. COORDINATE SYSTEM/DATUM Florida State Plane East
3. DRILLING AGENCY		CONTRACTOR FILE NO.		HORIZONTAL NAD 1983
4. NAME OF DRILLER BM				VERTICAL NAVD 88
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		DEG. FROM VERTICAL	BEARING	11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
6. THICKNESS OF OVERBURDEN 0.0 Ft.				<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
7. DEPTH DRILLED INTO ROCK 0.0 Ft.				12. TOTAL SAMPLES
8. TOTAL DEPTH OF BORING 19.5 Ft.				DISTURBED
				UNDISTURBED (UD)
				13. TOTAL NUMBER CORE BOXES
				14. ELEVATION GROUND WATER
				15. DATE BORING
				STARTED 01-14-10 17:23
				COMPLETED 01-14-10 05:31
				16. ELEVATION TOP OF BORING -43.5 Ft.
				17. TOTAL RECOVERY FOR BORING 19.5 Ft.
				18. SIGNATURE AND TITLE OF INSPECTOR FK

ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIALS Depths and elevations based on measured values	% REC.	BOX OR SAMPLE	REMARKS
-43.5	0.0					
-46.6	3.1		Sand (fine to medium) and shell, grey 10YR 4/1, (SP).		S-1 (1')	Sample #S-1 (1'), Depth = 1.0'
-53.5	10.0		Sand (fine to medium) and shell, grey 10YR 4/1, (SP).		S-2 (4')	Sample #S-2 (4'), Depth = 4.0'
-61.5	18.0		Sand (fine to medium) and shell, grey 10YR 4/1, (SW).		S-3 (14')	Sample #S-3 (14'), Depth = 14.0'
-62.0	18.5		Sand (fine to medium) and shell, grey 10YR 4/1, (SW).		S-4 (18.6')	Sample #S-4 (18.6'), Depth = 18.6'
-62.2	18.7		Silty sand, grey 10YR 5/1, (SM).			
-63.0	19.5		Sand (coarse to medium) and shell, grey 10YR4/1, (SP).			
			End of Boring			

FLORIDA DEP ROSS JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/30/10


Boring Designation JI-14

DRILLING LOG		DIVISION	INSTALLATION	SHEET 1 OF 1 SHEETS
1. PROJECT Jupiter Island 10 Jupiter Island, Florida				9. SIZE AND TYPE OF BIT 3.0 In.
2. BORING DESIGNATION JI-14				10. COORDINATE SYSTEM/DATUM Florida State Plane East
3. DRILLING AGENCY		LOCATION COORDINATES X = 966134. Y = 974400.		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. NAME OF DRILLER BM		CONTRACTOR FILE NO.		<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		DEG. FROM VERTICAL	BEARING	12. TOTAL SAMPLES
6. THICKNESS OF OVERBURDEN 0.0 Ft.		13. TOTAL NUMBER CORE BOXES		14. ELEVATION GROUND WATER
7. DEPTH DRILLED INTO ROCK 0.0 Ft.		15. DATE BORING		STARTED 01-14-10 16:26
8. TOTAL DEPTH OF BORING 16.0 Ft.		16. ELEVATION TOP OF BORING -44.7 Ft.		COMPLETED 01-14-10 16:33
		17. TOTAL RECOVERY FOR BORING 15 Ft.		18. SIGNATURE AND TITLE OF INSPECTOR FK

ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIALS Depths and elevations based on measured values	% REC.	BOX OR SAMPLE	REMARKS
-44.7	0.0					
-46.2	1.5		Sand (fine to medium) and shell, grey 10YR 4/1 2" shell @ 1.4', (SW).		S-1 (1')	Sample #S-1 (1'), Depth = 1.0'
-49.7	5.0		Sand (fine to medium) and shell, grey 10YR 4/1, (SW).			
-52.7	8.0		Sand (fine to medium) and shell, grey 10YR 4/1, (SW).		S-2 (6')	Sample #S-2 (6'), Depth = 6.0'
-59.7	15.0		Sand (fine to medium) w/ trace shell, grey 10YR 4/1, (SP).		S-3 (11')	Sample #S-3 (11'), Depth = 11.0'
			End of Boring		S-4 (14')	Sample #S-4 (14'), Depth = 14.0'


FLORIDA DEP ROSS - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/30/10




Boring Designation JI-15B

DRILLING LOG		DIVISION	INSTALLATION	SHEET 1 OF 1 SHEETS
1. PROJECT Jupiter Island 10 Jupiter Island, Florida				9. SIZE AND TYPE OF BIT 3.0 In.
2. BORING DESIGNATION JI-15B		LOCATION COORDINATES X = 966633. Y = 974483.		10. COORDINATE SYSTEM/DATUM Florida State Plane East
3. DRILLING AGENCY		CONTRACTOR FILE NO.		HORIZONTAL NAD 1983
4. NAME OF DRILLER BM				VERTICAL NAVD 88
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		DEG. FROM VERTICAL	BEARING	11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
6. THICKNESS OF OVERBURDEN 0.0 Ft.				<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
7. DEPTH DRILLED INTO ROCK 0.0 Ft.				12. TOTAL SAMPLES
8. TOTAL DEPTH OF BORING 13.2 Ft.				DISTURBED
				UNDISTURBED (UD)
				13. TOTAL NUMBER CORE BOXES
				14. ELEVATION GROUND WATER
				15. DATE BORING
				STARTED 01-14-10 12:07
				COMPLETED 01-14-10 12:13
				16. ELEVATION TOP OF BORING -41.9 Ft.
				17. TOTAL RECOVERY FOR BORING 13.2 Ft.
				18. SIGNATURE AND TITLE OF INSPECTOR FK


ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIALS Depths and elevations based on measured values	% REC.	BOX OR SAMPLE	REMARKS
-41.9	0.0					
		•••••	Sand (fine to medium) and shell, grey 10YR 5/1 1.5" shell @ 1.9', (SW).		S-1 (2')	Sample #S-1 (2'), Depth = 2.0'
-48.1	6.2	•••••	Sand (fine to medium) and shell, grey 10YR 5/1, (SW).		S-2 (6.5')	Sample #S-2 (6.5'), Depth = 6.5'
-49.1	7.2	•••••	Sand (fine to medium) and shell, grey 10YR 4/1, (SW).		S-3 (10')	Sample #S-3 (10'), Depth = 10.0'
-52.4	10.5	•••••	Silty sand, grey 10YR 4/1, (SP-SM).		S-4 (13')	Sample #S-4 (13'), Depth = 13.0'
-55.1	13.2	•••••	End of Boring			

FLORIDA DEP ROSS JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/30/10

DRILLING LOG		DIVISION	INSTALLATION	SHEET 1 OF 1 SHEETS
1. PROJECT Jupiter Island 10 Jupiter Island, Florida				9. SIZE AND TYPE OF BIT 3.0 In.
2. BORING DESIGNATION JI-16		LOCATION COORDINATES X = 968035. Y = 975002.		10. COORDINATE SYSTEM/DATUM Florida State Plane East
3. DRILLING AGENCY		CONTRACTOR FILE NO.		HORIZONTAL NAD 1983
4. NAME OF DRILLER BM				VERTICAL NAVD 88
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		DEG. FROM VERTICAL		BEARING
6. THICKNESS OF OVERBURDEN 0.0 Ft.		7. DEPTH DRILLED INTO ROCK 0.0 Ft.		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
8. TOTAL DEPTH OF BORING 14.1 Ft.				<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
				12. TOTAL SAMPLES
				DISTURBED
				UNDISTURBED (UD)
				13. TOTAL NUMBER CORE BOXES
				14. ELEVATION GROUND WATER
				15. DATE BORING
				STARTED 01-14-10 16:52
				COMPLETED 01-14-10 16:57
				16. ELEVATION TOP OF BORING -41.3 Ft.
				17. TOTAL RECOVERY FOR BORING 12.4 Ft.
				18. SIGNATURE AND TITLE OF INSPECTOR FK

ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIALS Depths and elevations based on measured values	% REC.	BOX OR SAMPLE	REMARKS
-41.3	0.0					
-45.3	4.0		Sand (fine to medium) and shell, grey 10YR 5/1, (SP).		S-1 (1.0')	Sample #S-1 (1.0'), Depth = 1.0'
-51.3	10.0		Sand (fine to medium) and shell, grey 10YR 5/1 1.5" shell @ 6.2', 1.25" shell @ 5.2', (SW).		S-2 (5.0')	Sample #S-2 (5.0'), Depth = 5.0'
-53.7	12.4		Sand (fine to medium), grey 10YR 4/1, (SW).		S-3 (8.0')	Sample #S-3 (8.0'), Depth = 8.0'
			End of Boring		S-4 (11.0')	Sample #S-4 (11.0'), Depth = 11.0'

FLORIDA DEP. ROSS, JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/30/10

DRILLING LOG		DIVISION	INSTALLATION	SHEET 1 OF 1 SHEETS
1. PROJECT Jupiter Island 10 Jupiter Island, Florida				9. SIZE AND TYPE OF BIT 3.0 In.
2. BORING DESIGNATION JI-18		LOCATION COORDINATES X = 966446. Y = 973427.		10. COORDINATE SYSTEM/DATUM Florida State Plane East
3. DRILLING AGENCY		CONTRACTOR FILE NO.		HORIZONTAL NAD 1983
4. NAME OF DRILLER BM				VERTICAL NAVD 88
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		DEG. FROM VERTICAL	BEARING	11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
6. THICKNESS OF OVERBURDEN 0.0 Ft.				<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
7. DEPTH DRILLED INTO ROCK 0.0 Ft.				12. TOTAL SAMPLES
8. TOTAL DEPTH OF BORING 13.0 Ft.				DISTURBED
				UNDISTURBED (UD)
				13. TOTAL NUMBER CORE BOXES
				14. ELEVATION GROUND WATER
				15. DATE BORING
				STARTED 01-14-10 13:00
				COMPLETED 01-14-10 13:07
				16. ELEVATION TOP OF BORING -44.4 Ft.
				17. TOTAL RECOVERY FOR BORING 12.2 Ft.
				18. SIGNATURE AND TITLE OF INSPECTOR FK

ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIALS Depths and elevations based on measured values	% REC.	BOX OR SAMPLE	REMARKS
-44.4	0.0					
		•••••	Sand (fine to medium), grey 10YR 5/1, (SW).		S-1 (3')	Sample #S-1 (3'), Depth = 3.0'
-48.9	4.5	•••••	Sand (coarse to medium) and shell, grey 10YR 5/1 1" shell @ 5', 1.5" shell @ 5.3', (SW).		S-2 (5.2')	Sample #S-2 (5.2'), Depth = 5.2'
-49.9	5.5	•••••	Sand (fine to medium) and shell, grey 10YR 5/1, (SW).			
-51.8	7.4	•••••	Sand (fine to medium) and shell, grey 10YR 4/1, (SW).			
-53.8	9.4	•••••	Sand (fine to medium) and shell, grey 10YR 4/1, (SW).		S-3 (9.5')	Sample #S-3 (9.5'), Depth = 9.5'
-54.0	9.6	•••••	Silty sand, grey 10YR 4/1, (SW-SM).			
-56.6	12.2	•••••	Sand (fine to medium) and shell, grey 10YR 5/1, (SW).		S-4 (12')	Sample #S-4 (12'), Depth = 12.0'
			End of Boring			

FLORIDA DEP ROSS, JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/30/10


Boring Designation JI-19


DRILLING LOG		DIVISION	INSTALLATION	SHEET 1 OF 1 SHEETS
1. PROJECT Jupiter Island 10 Jupiter Island, Florida			9. SIZE AND TYPE OF BIT 3.0 In.	
2. BORING DESIGNATION JI-19			10. COORDINATE SYSTEM/DATUM Florida State Plane East	
3. DRILLING AGENCY			11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore	
4. NAME OF DRILLER BM			12. TOTAL SAMPLES	
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			13. TOTAL NUMBER CORE BOXES	
6. THICKNESS OF OVERBURDEN 0.0 Ft.			14. ELEVATION GROUND WATER	
7. DEPTH DRILLED INTO ROCK 0.0 Ft.			15. DATE BORING STARTED 01-14-10 15:58 COMPLETED 01-14-10 16:04	
8. TOTAL DEPTH OF BORING 15.3 Ft.			16. ELEVATION TOP OF BORING -49.0 Ft.	
			17. TOTAL RECOVERY FOR BORING 14 Ft.	
			18. SIGNATURE AND TITLE OF INSPECTOR FK	

ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIALS Depths and elevations based on measured values	% REC.	BOX OR SAMPLE	REMARKS
-49.0	0.0					
-55.0	6.0		Sand (fine to medium) and shell, grey 10YR 5/1 1.5" shell @ 1.3', (SW).		S-1 (1')	Sample #S-1 (1'), Depth = 1.0'
-59.0	10.0		Sand (fine to medium) and shell, grey 10YR 5/1, (SW).		S-2 (7')	Sample #S-2 (7'), Depth = 7.0'
-59.1	10.1		Sand (coarse to medium) and shell, grey 10YR 4/1, (SW).		S-3 (10.1')	Sample #S-3 (10.1'), Depth = 10.1'
-63.0	14.0		Sand (fine to medium) and shell, grey 10YR 4/1, (SP).		S-4 (13.5')	Sample #S-4 (13.5'), Depth = 13.5'
			End of Boring			

FLORIDA DEP ROSS, JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/30/10


Boring Designation JI-21

DRILLING LOG		DIVISION	INSTALLATION	SHEET 1 OF 1 SHEETS
1. PROJECT Jupiter Island 10 Jupiter Island, Florida				9. SIZE AND TYPE OF BIT 3.0 In.
2. BORING DESIGNATION JI-21				10. COORDINATE SYSTEM/DATUM Florida State Plane East
3. DRILLING AGENCY		LOCATION COORDINATES X = 966746. Y = 972478.		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. NAME OF DRILLER BM		CONTRACTOR FILE NO.		<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		DEG. FROM VERTICAL	BEARING	12. TOTAL SAMPLES
6. THICKNESS OF OVERBURDEN 0.0 Ft.		13. TOTAL NUMBER CORE BOXES		14. ELEVATION GROUND WATER
7. DEPTH DRILLED INTO ROCK 0.0 Ft.		15. DATE BORING		STARTED 01-14-10 15:26
8. TOTAL DEPTH OF BORING 17.8 Ft.		16. ELEVATION TOP OF BORING -51.1 Ft.		COMPLETED 01-14-10 15:35
		17. TOTAL RECOVERY FOR BORING 15.1 Ft.		18. SIGNATURE AND TITLE OF INSPECTOR FK

ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIALS Depths and elevations based on measured values	% REC.	BOX OR SAMPLE	REMARKS
-51.1	0.0					0
-52.0	0.9		Sand (fine to medium) and shell, grey 10YR 4/1, (SW).			
-53.1	2.0		Sand (fine to medium) and shell, grey 10YR 5/1 multiple shells of 1" to 1.5" @ 1' to 1.7', (SW).		S-1 (1.5')	Sample #S-1 (1.5'), Depth = 1.5'
					S-2 (2')	Sample #S-2 (2'), Depth = 2.0'
				Sand (fine to medium) and shell, grey 10YR 4/1, (SW).		S-3 (7')
-59.6	8.5					5
			Sand (fine to medium) and shell, grey 10YR 4/1, (SP).			
-66.3	15.2				S-4 (14')	Sample #S-4 (14'), Depth = 14.0'
			End of Boring			15
						20

FLORIDA DEP ROSS JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/30/10


Boring Designation JI-24B

DRILLING LOG		DIVISION	INSTALLATION	SHEET 1 OF 1 SHEETS
1. PROJECT Jupiter Island 10 Jupiter Island, Florida				9. SIZE AND TYPE OF BIT 3.0 In.
2. BORING DESIGNATION JI-24B		LOCATION COORDINATES X = 966375. Y = 971336.		10. COORDINATE SYSTEM/DATUM Florida State Plane East
3. DRILLING AGENCY		CONTRACTOR FILE NO.		HORIZONTAL NAD 1983
4. NAME OF DRILLER BM				VERTICAL NAVD 88
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		DEG. FROM VERTICAL	BEARING	11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
6. THICKNESS OF OVERBURDEN 0.0 Ft.				<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
7. DEPTH DRILLED INTO ROCK 0.0 Ft.				12. TOTAL SAMPLES
8. TOTAL DEPTH OF BORING 11.7 Ft.				DISTURBED
				UNDISTURBED (UD)
				13. TOTAL NUMBER CORE BOXES
				14. ELEVATION GROUND WATER
				15. DATE BORING
				STARTED 01-14-10 13:45
				COMPLETED 01-14-10 13:49
				16. ELEVATION TOP OF BORING -51.5 Ft.
				17. TOTAL RECOVERY FOR BORING 10 Ft.
				18. SIGNATURE AND TITLE OF INSPECTOR FK

ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIALS Depths and elevations based on measured values	% REC.	BOX OR SAMPLE	REMARKS
-51.5	0.0					
		•••••	Sand (fine to medium) and shell, grey 10YR 4/1 1.25" shell @ 2.0', (SW).		S-1 (2')	Sample #S-1 (2'), Depth = 2.0'
-56.8	5.3	•••••	Sand (fine to medium) and shell, brown 10YR 6/2, (SW).		S-2 (6')	Sample #S-2 (6'), Depth = 6.0'
-58.8	7.3	•••••	Sand (fine to medium) and shell, grey 10YR 4/1, (SP).		S-3 (8')	Sample #S-3 (8'), Depth = 8.0'
-61.5	10.0	•••••			S-4 (10')	Sample #S-4 (10'), Depth = 10.0'
			End of Boring			


FLORIDA DEP ROSS - JUPITER ISLAND 10 GP.1 FL DEP ROSS.GDT 6/30/10

Boring Designation JI-25

DRILLING LOG		DIVISION	INSTALLATION	SHEET 1 OF 1 SHEETS
1. PROJECT Jupiter Island 10 Jupiter Island, Florida				9. SIZE AND TYPE OF BIT 3.0 In.
2. BORING DESIGNATION JI-25				10. COORDINATE SYSTEM/DATUM Florida State Plane East
3. DRILLING AGENCY		LOCATION COORDINATES X = 967057. Y = 971535.		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. NAME OF DRILLER BM		CONTRACTOR FILE NO.		<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		DEG. FROM VERTICAL	BEARING	12. TOTAL SAMPLES
6. THICKNESS OF OVERBURDEN 0.0 Ft.		13. TOTAL NUMBER CORE BOXES		14. ELEVATION GROUND WATER
7. DEPTH DRILLED INTO ROCK 0.0 Ft.		15. DATE BORING		STARTED 01-14-10 15:00
8. TOTAL DEPTH OF BORING 13.4 Ft.		16. ELEVATION TOP OF BORING -51.0 Ft.		COMPLETED 01-14-10 15:08
		17. TOTAL RECOVERY FOR BORING 11.4 Ft.		18. SIGNATURE AND TITLE OF INSPECTOR FK


ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIALS Depths and elevations based on measured values	% REC.	BOX OR SAMPLE	REMARKS
-51.0	0.0					
-53.2	2.2	[Symbol: Sand with shell]	Sand (fine to medium) and shell, grey 10YR 5/1, (SW).		S-1 (2')	Sample #S-1 (2'), Depth = 2.0'
-53.8	2.8		Sand (fine to medium) and shell, grey 10YR 5/1, (SW).		S-2 (2.8')	Sample #S-2 (2.8'), Depth = 2.8'
-58.8	7.8	[Symbol: Sand with broken shell]	Sand (fine to medium) and shell, grey 10YR 4/1 broken shell 1.75" @ 6.6', (SW).		S-3 (7')	Sample #S-3 (7'), Depth = 7.0'
-62.0	11.0	[Symbol: Sand]	Sand (fine to medium) and shell, grey 10YR 4/1, (SW).			
-62.4	11.4	[Symbol: Silty sand]	Silty sand, grey 10YR 4/1, (SP-SM).		S-4 (11.1')	Sample #S-4 (11.1'), Depth = 11.1'
			End of Boring			

FLORIDA DEP ROSS, JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/30/10

DRILLING LOG		DIVISION	INSTALLATION	SHEET 1 OF 1 SHEETS
1. PROJECT Jupiter Island 10 Jupiter Island, Florida				9. SIZE AND TYPE OF BIT 3.0 In.
2. BORING DESIGNATION JI-28		LOCATION COORDINATES X = 966410. Y = 970282.		10. COORDINATE SYSTEM/DATUM Florida State Plane East
3. DRILLING AGENCY		CONTRACTOR FILE NO.		HORIZONTAL NAD 1983
4. NAME OF DRILLER BM				VERTICAL NAVD 88
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		DEG. FROM VERTICAL	BEARING	11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
6. THICKNESS OF OVERBURDEN 0.0 Ft.				<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
7. DEPTH DRILLED INTO ROCK 0.0 Ft.				12. TOTAL SAMPLES DISTURBED UNDISTURBED (UD)
8. TOTAL DEPTH OF BORING 12.1 Ft.				13. TOTAL NUMBER CORE BOXES
				14. ELEVATION GROUND WATER
				15. DATE BORING STARTED 01-14-10 14:02 COMPLETED 01-14-10 14:06
				16. ELEVATION TOP OF BORING -52.7 Ft.
				17. TOTAL RECOVERY FOR BORING 10 Ft.
				18. SIGNATURE AND TITLE OF INSPECTOR FK

ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIALS Depths and elevations based on measured values	% REC.	BOX OR SAMPLE	REMARKS
-52.7	0.0					
-55.4	2.7	●●●●●	Sand (coarse to medium) and shell, grey 10YR 4/1, (SW).		S-1 (2')	Sample #S-1 (2'), Depth = 2.0'
-56.6	3.9	●●●●●	Sand (coarse to medium) and shell, grey 10YR 5/1 1.25" shells @ 3.4', (SW).		S-2 (3.4')	Sample #S-2 (3.4'), Depth = 3.4'
-58.9	6.2	●●●●●	Sand (fine to medium) and shell, grey 10YR 5/1 1" shells @ 5.0' to 5.8', (SW).			
-59.1	6.4	●●●●●	Sand (coarse to medium) and shell, grey 10YR 5/1, (SW).		S-3 (6.3')	Sample #S-3 (6.3'), Depth = 6.3'
-60.7	8.0	●●●●●	Sand (fine to medium) and shell, grey 10YR 5/1, (SW).			
-62.7	10.0	●●●●●	Sand (fine to medium) and shell, grey 10YR 4/1, (SW).		S-4 (9')	Sample #S-4 (9'), Depth = 9.0'
			End of Boring			

FLORIDA DEP ROSS JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/30/10

DRILLING LOG		DIVISION	INSTALLATION	SHEET 1 OF 1 SHEETS
1. PROJECT Jupiter Island 10 Jupiter Island, Florida				9. SIZE AND TYPE OF BIT 3.0 In.
2. BORING DESIGNATION JI-33		LOCATION COORDINATES X = 967647. Y = 969625.		10. COORDINATE SYSTEM/DATUM Florida State Plane East
3. DRILLING AGENCY		CONTRACTOR FILE NO.		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. NAME OF DRILLER BM				12. TOTAL SAMPLES
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		DEG. FROM VERTICAL	BEARING	13. TOTAL NUMBER CORE BOXES
6. THICKNESS OF OVERBURDEN 0.0 Ft.				14. ELEVATION GROUND WATER
7. DEPTH DRILLED INTO ROCK 0.0 Ft.				15. DATE BORING
8. TOTAL DEPTH OF BORING 10.8 Ft.				16. ELEVATION TOP OF BORING -54.5 Ft.
				17. TOTAL RECOVERY FOR BORING 10.8 Ft.
				18. SIGNATURE AND TITLE OF INSPECTOR FK

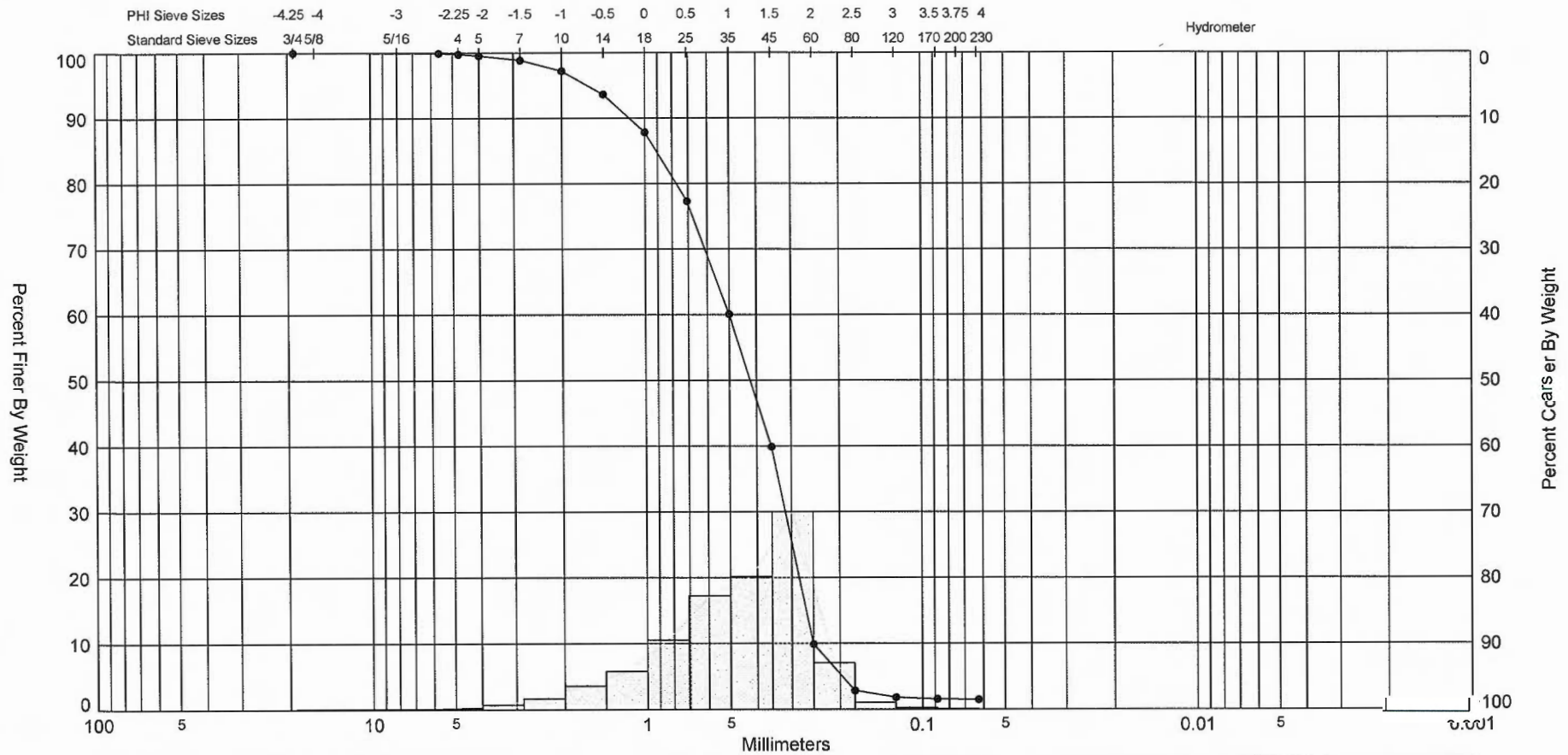
ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIALS Depths and elevations based on measured values	% REC.	BOX OR SAMPLE	REMARKS
-54.5	0.0					
		•••••	Sand (fine to medium) and shell, grey 10YR 5/1 15." shell @ 1.5', (SW).		S-1 (1')	Sample #S-1 (1'), Depth = 1.0'
		•••••			S-2 (5')	Sample #S-2 (5'), Depth = 5.0'
-62.5	8.0	•••••	Sand (fine to medium) and shell, grey 10YR 4/1, (SW).		S-3 (8.5')	Sample #S-3 (8.5'), Depth = 8.5'
-65.2	10.7	•••••			S-4 (10')	Sample #S-4 (10'), Depth = 10.0'
			End of Boring			

FLORIDA DEP ROSS - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/30/10


Sieve Graphs



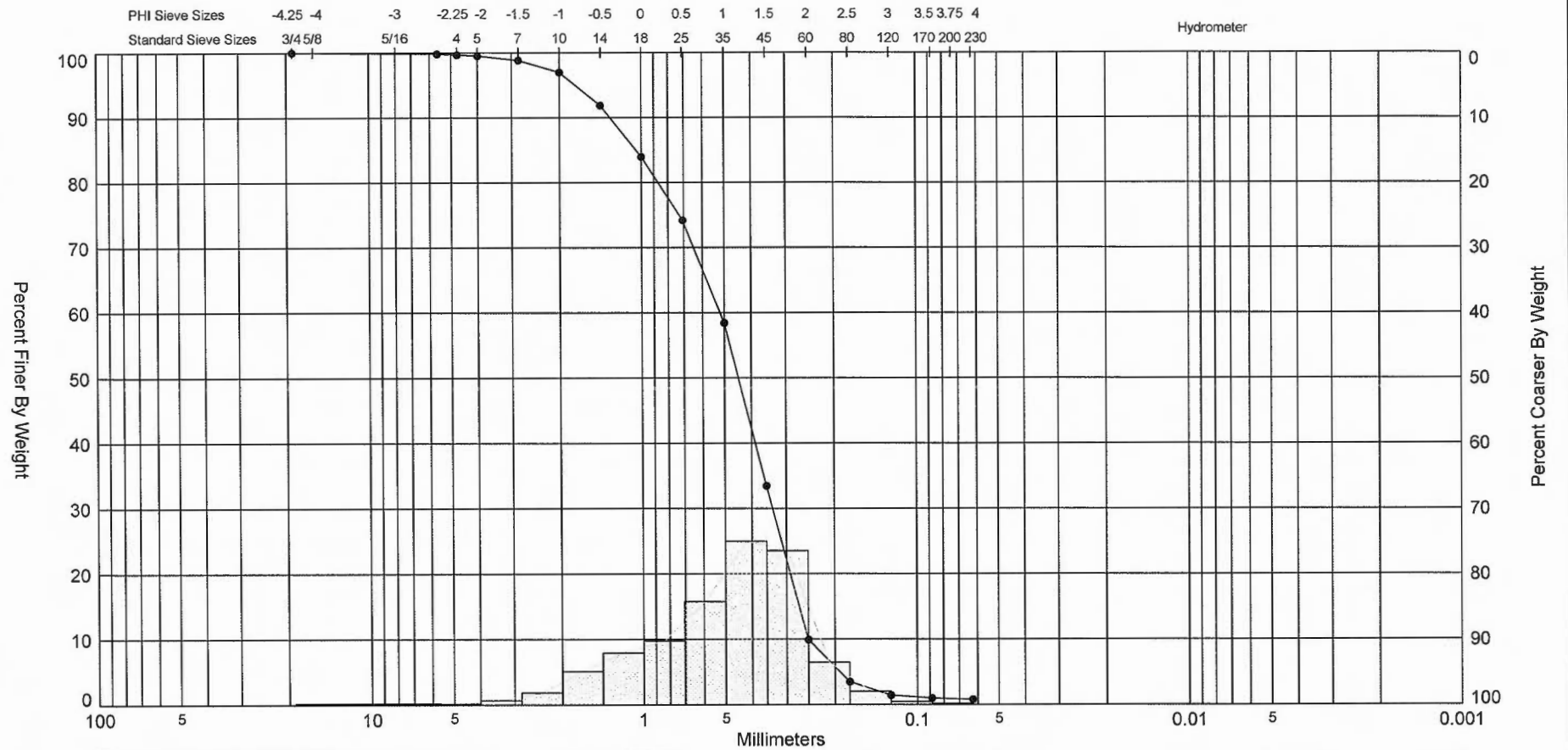
SIEVE ANALYSIS, JUPITER ISLAND 10.GPJ, FL DEP ROSS.GDT, 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-6 #S-1 (3')	—●—	-44.8	SW	#230 - 1.46		61.90	1.25	1.06	-0.91	4.09	0.9	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% Moisture												Analysis Date:	04-23-10
Depths and elevations based on measured values												Analyzed By:	JR
							American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444					Easting (X, ft):	967434.
												Northing (Y, ft):	976919.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

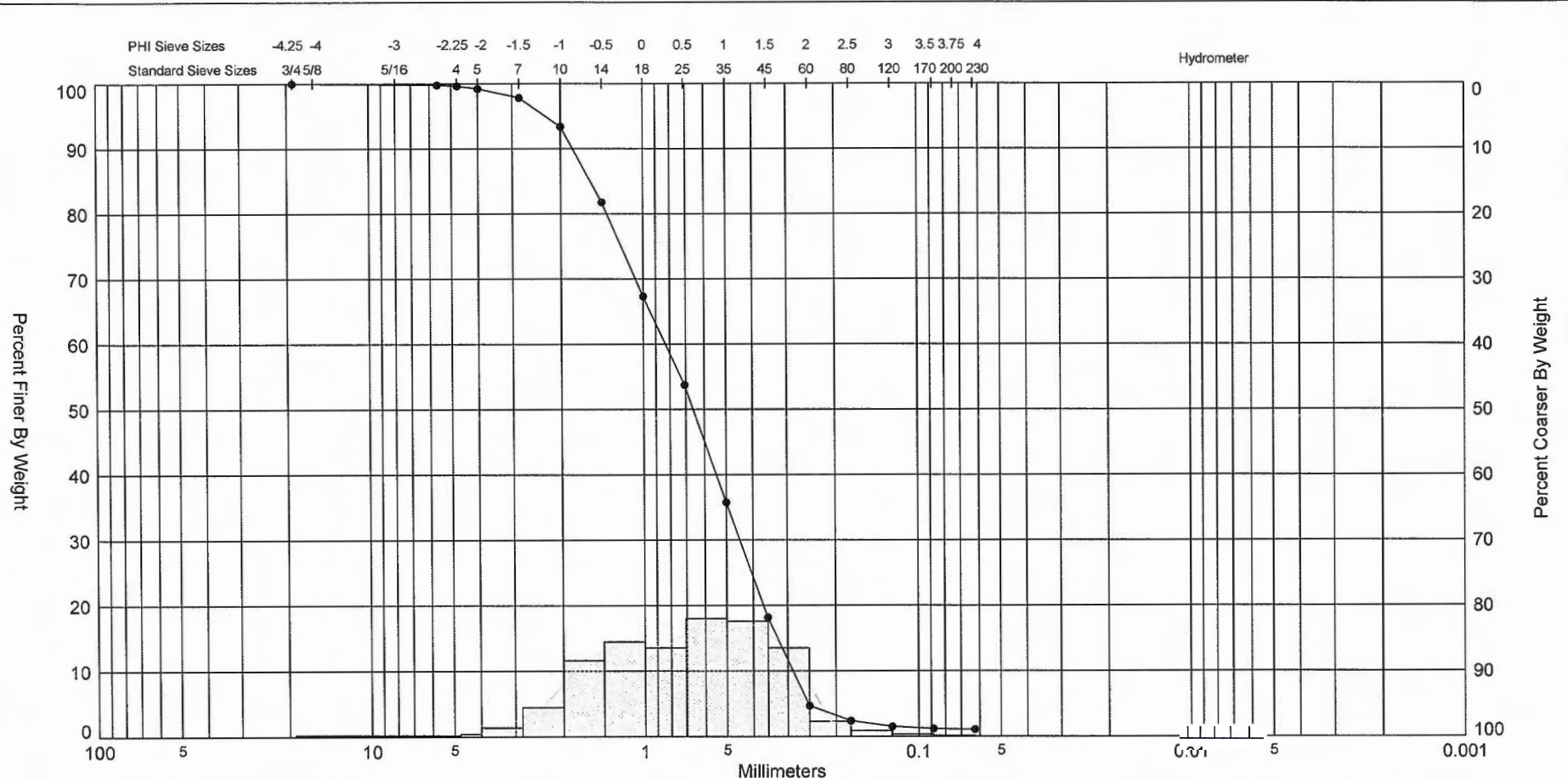
SIEVE ANALYSIS, JUPITER ISLAND 10.GPJ, FL DEP ROSS.GDT, 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-6 #S-2 (9.5')	—●—	-51.3	SW	#230 - 0.77		77.20	1.17	0.99	-0.75	3.95	0.96	Project Name:	Jupiter Island 10
Comments: 10YR 5/1 Munsell @ 10% Moisture												Analysis Date:	03-11-10
Depths and elevations based on measured values												Analyzed By:	JR
						American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444						Easting (X, ft):	967434.
												Northing (Y, ft):	976919.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

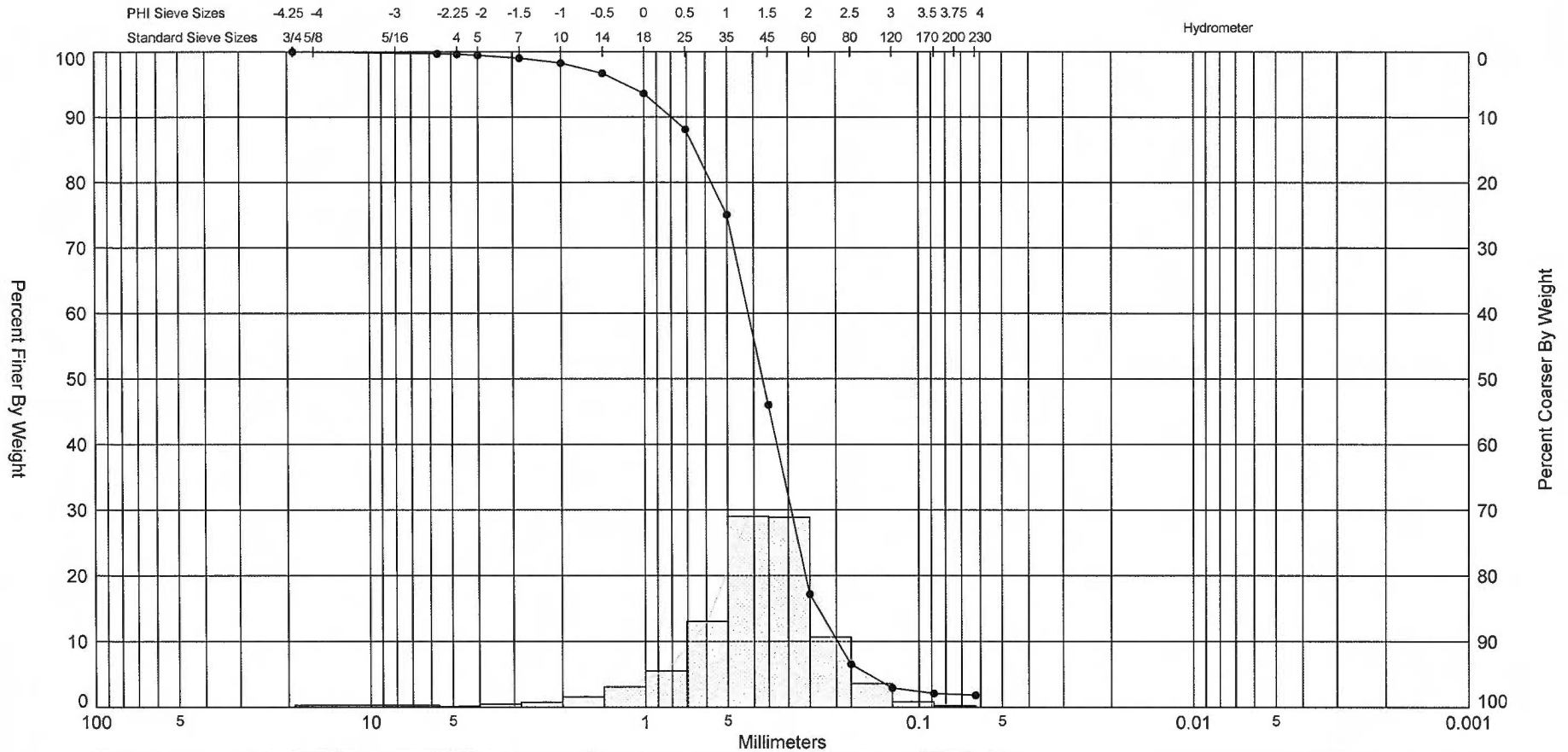
SIEVE ANALYSIS, JUPITER ISLAND 10.GPJ, FL DEP ROSS.GDT, 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-6 #S-3 (11.5')	—●—	-53.3	SW	#230 - 1.06			0.6	0.5	-0.24	2.86	1.02	Project Name:	Jupiter Island 10
Comments: 10 YR 5/1 Munsel @ 10% Moisture												Analysis Date:	03-12-10
Depths and elevations based on measured values												Analyzed By:	JR
							American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444					Easting (X, ft):	967434.
												Northing (Y, ft):	976919.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

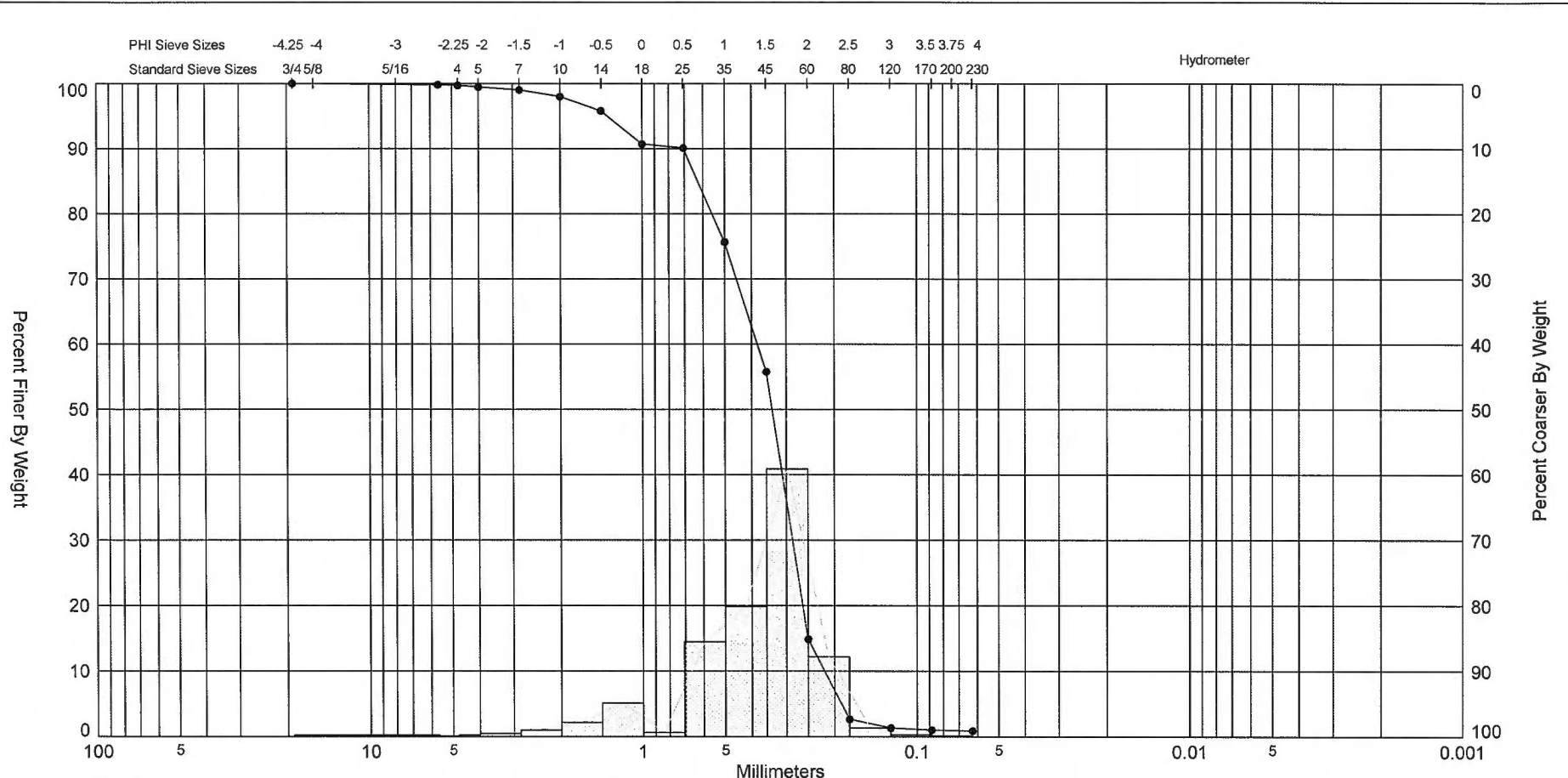
SIEVE ANALYSIS: JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-6 #S-4 (13.7')	—●—	-55.5	SP	#230 - 1.82			1.43	1.33	-1.22	7.08	0.85	Project Name:	Jupiter Island 10
Comments: 10YR 5/1 Munsell @ 10% Moisture											Analysis Date:	03-12-10	
Depths and elevations based on measured values											Analyzed By:	JR	
							American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444					Easting (X, ft):	967434.
												Northing (Y, ft):	976919.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

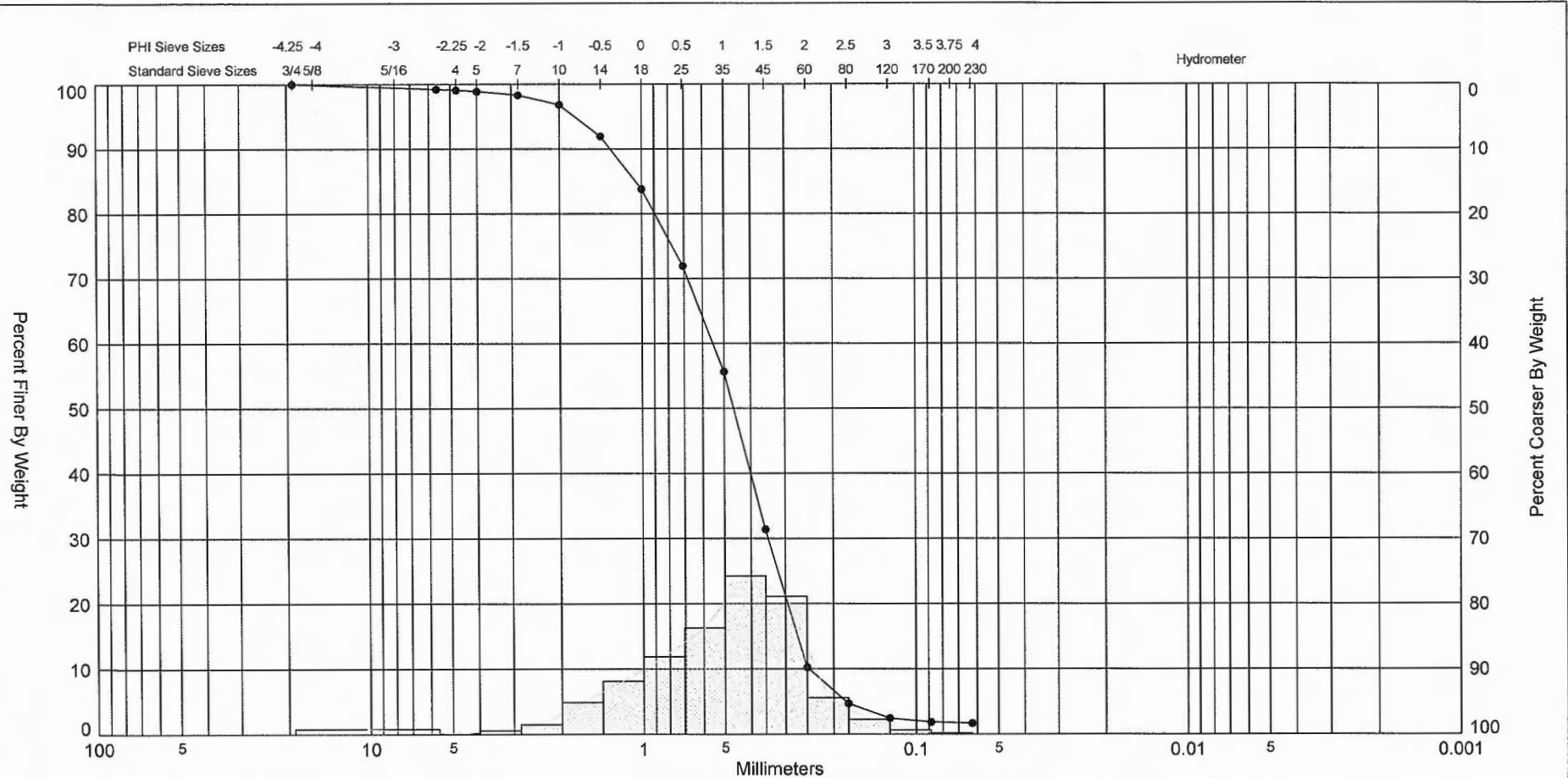
SIEVE ANALYSIS - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
JI-7 #S-1 (2')	—●—	-48.3	SP	#230 - 0.88		65.70	1.57	1.35	-1.61	7.03	0.84	Project Name:	Jupiter Island 10
Comments: 10YR 4/1 Munsell @ 10% Moisture												Analysis Date:	03-19-10
Depths and elevations based on measured values												Analyzed By:	JR
						American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444						Easting (X, ft):	968387.
												Northing (Y, ft):	977217.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

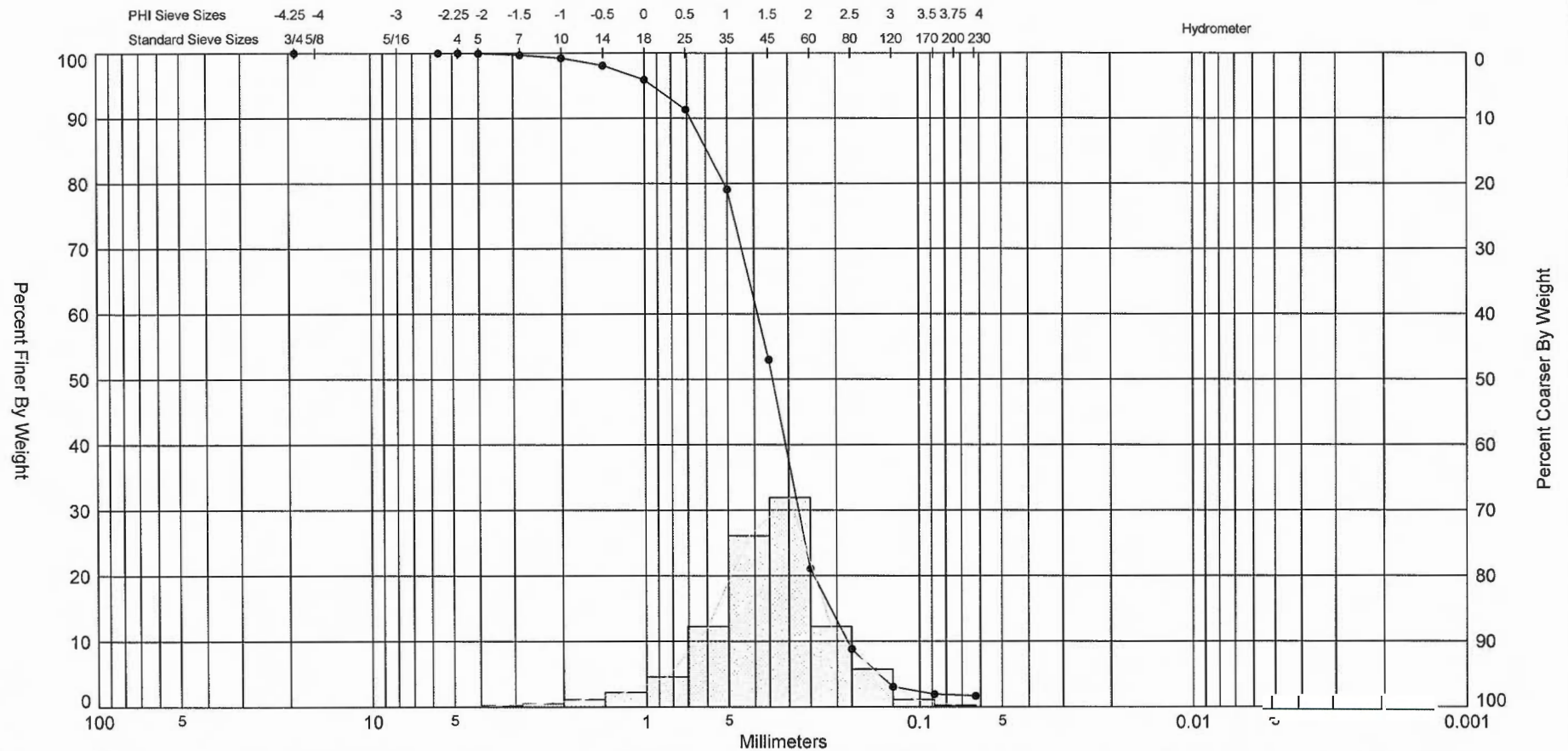
SIEVE ANALYSIS, JUPITER ISLAND 10, GPJ, FL DEP ROSS, GDT, 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-7 #S-2 (8')	—●—	-54.3	SW	#230 - 1.65			1.12	0.93	-0.93	5.11	1	Project Name:	Jupiter Island 10
Comments: 10YR 6/1 Munsell @ 10% Moisture												Analysis Date:	03-23-10
Depths and elevations based on measured values												Analyzed By:	JR
 <div style="text-align: center;"> American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444 </div>												Easting (X, ft):	968387.
												Northing (Y, ft):	977217.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

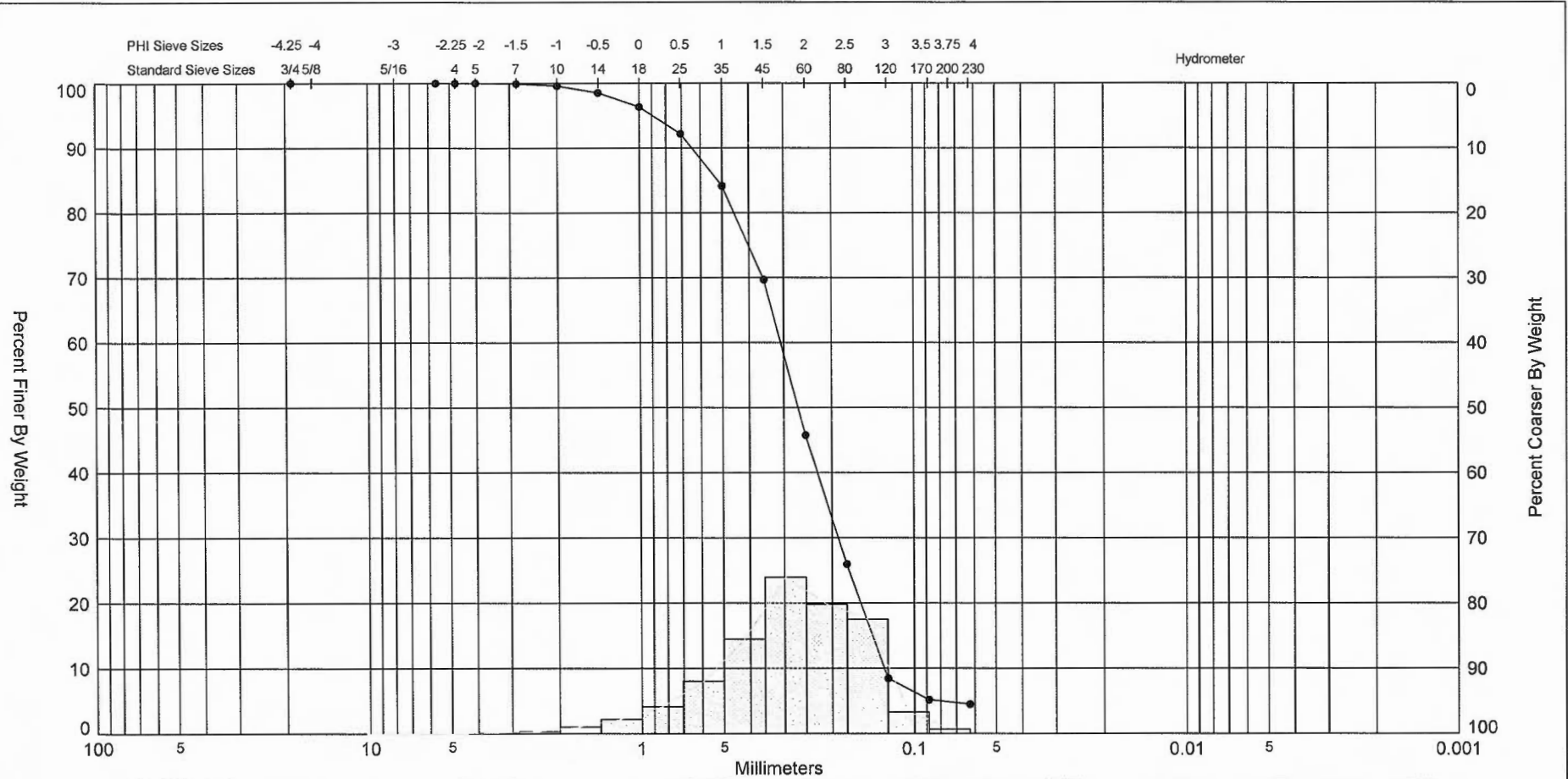
SIEVE ANALYSIS, JUPITER ISLAND 10.GPJ, FL DEP ROSS.GDT, 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-7 #S-3 (9.8')	—●—	-56.1	SP	#230 - 1.65		69.10	1.55	1.47	-0.65	4.75	0.77	Project Name:	Jupiter Island 10
Comments: 10 YR 5/2 Munsell @ 10% Moisture												Analysis Date:	04-23-10
Depths and elevations based on measured values												Analyzed By:	JR
 <div style="text-align: center;"> <p>American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444</p> </div>												Easting (X, ft):	968387.
												Northing (Y, ft):	977217.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

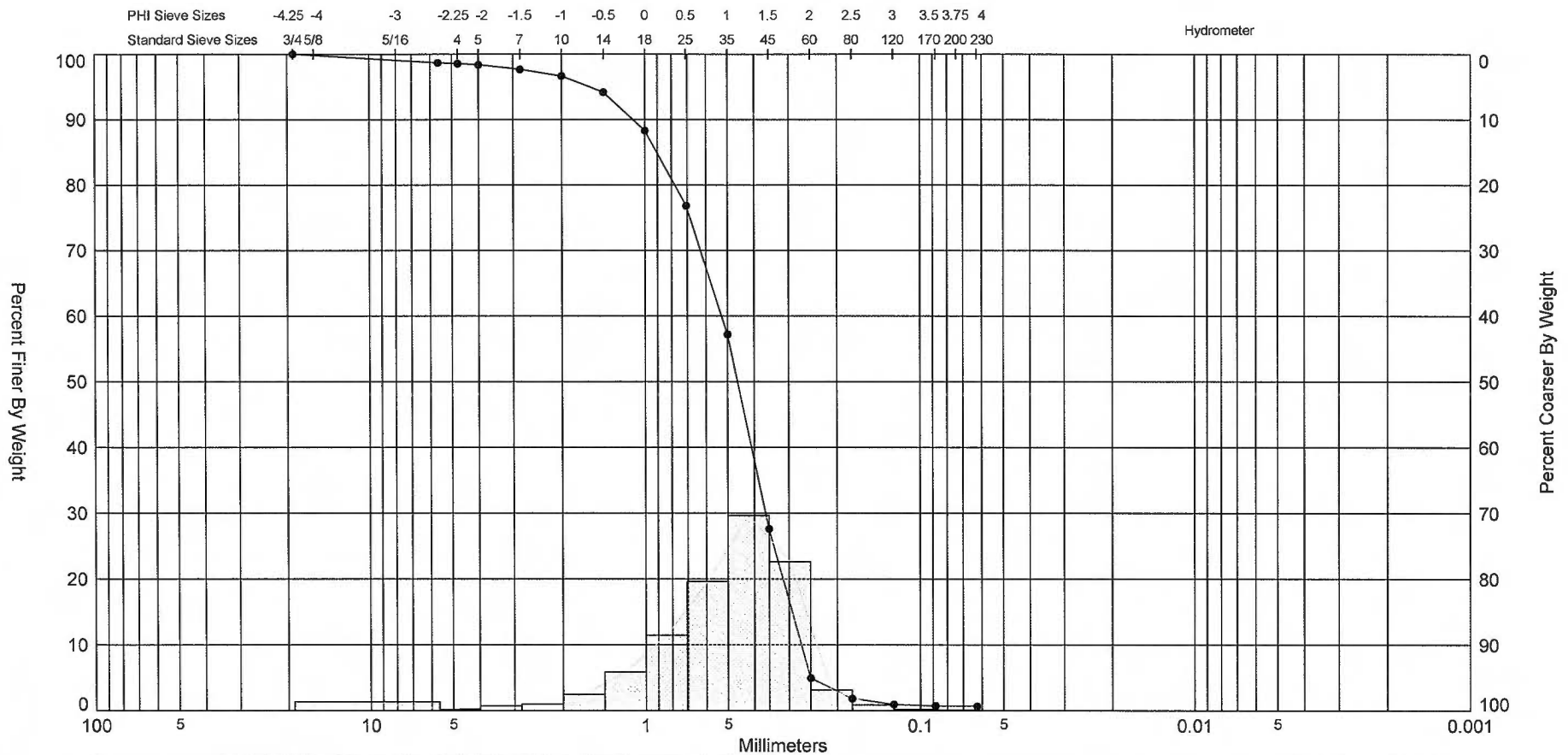
SIEVE ANALYSIS - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-7 #S-4 (18')	—●—	-64.3	SW	#230 - 4.48			1.91	1.79	-0.68	3.58	0.87	Project Name:	Jupiter Island 10
Comments: 10YR 4/1 Munsell @ 10% Moisture												Analysis Date:	03-29-10
Depths and elevations based on measured values												Analyzed By:	JR
 <div style="text-align: center;"> <p>American Vibrocure Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444</p> </div>												Easting (X, ft):	968387.
												Northing (Y, ft):	977217.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

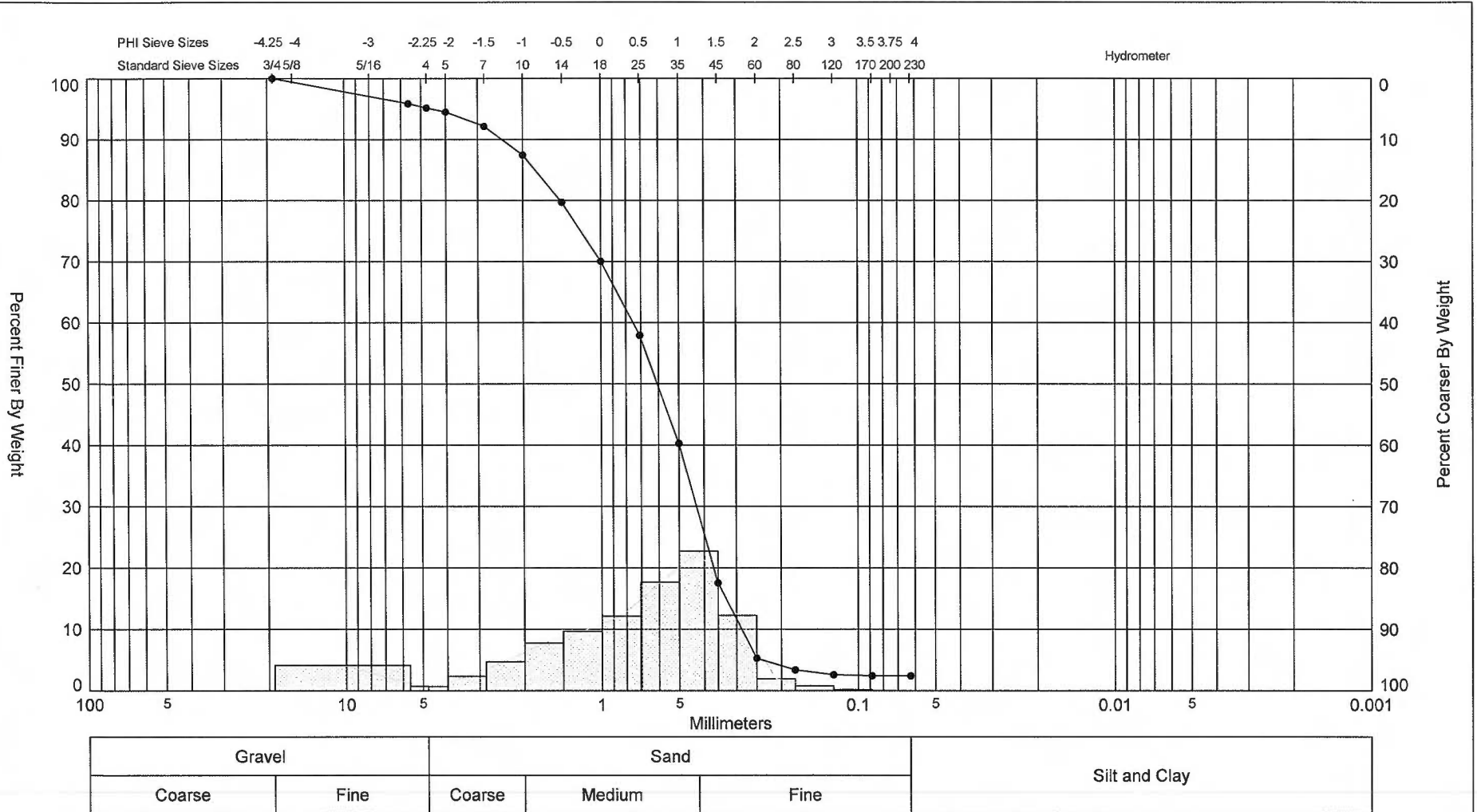
SIEVE ANALYSIS JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

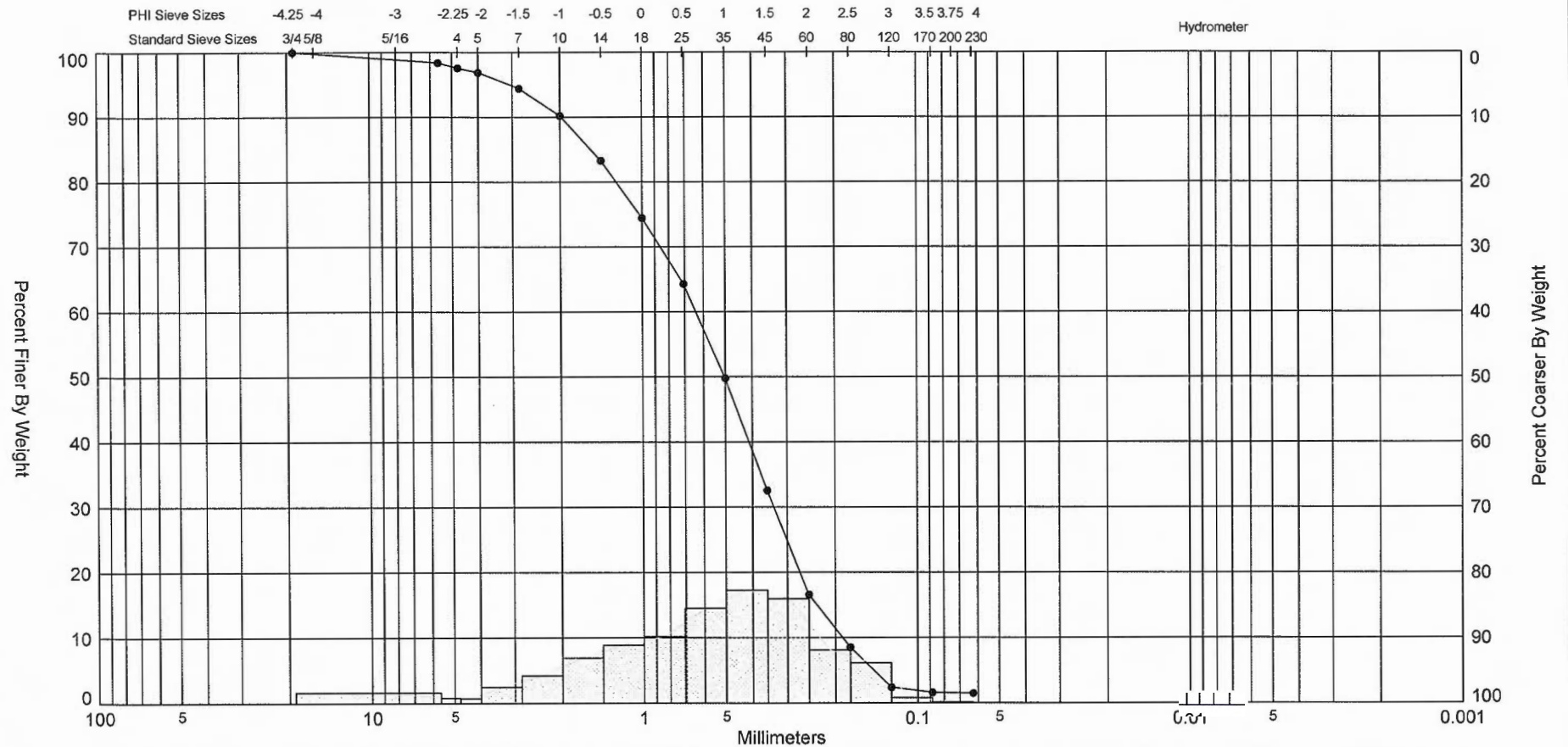
Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
JI-9 #S-1 (1')	—●—	-49.1	SW	#230 - 0.65		72.30	1.12	0.94	-1.69	8.22	0.93	Project Name:	Jupiter Island 10
Comments: 10YR 5/1 Munsell @ 10% Moisture												Analysis Date:	03-29-10
Depths and elevations based on measured values												Analyzed By:	JR
						American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444						Easting (X, ft):	965829.
												Northing (Y, ft):	975349.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

SIEVE ANALYSIS - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
JI-9 #S-2 (3.6')	—●—	-51.7	SW	#230 - 2.41			0.72	0.39	-1.12	4.21	1.28	Project Name:	Jupiter Island 10
Comments: 10YR 6/1 Munsell @ 10% Moisture												Analysis Date:	03-29-10
Depths and elevations based on measured values												Analyzed By:	JR
 American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444												Easting (X, ft):	965829.
												Northing (Y, ft):	975349.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

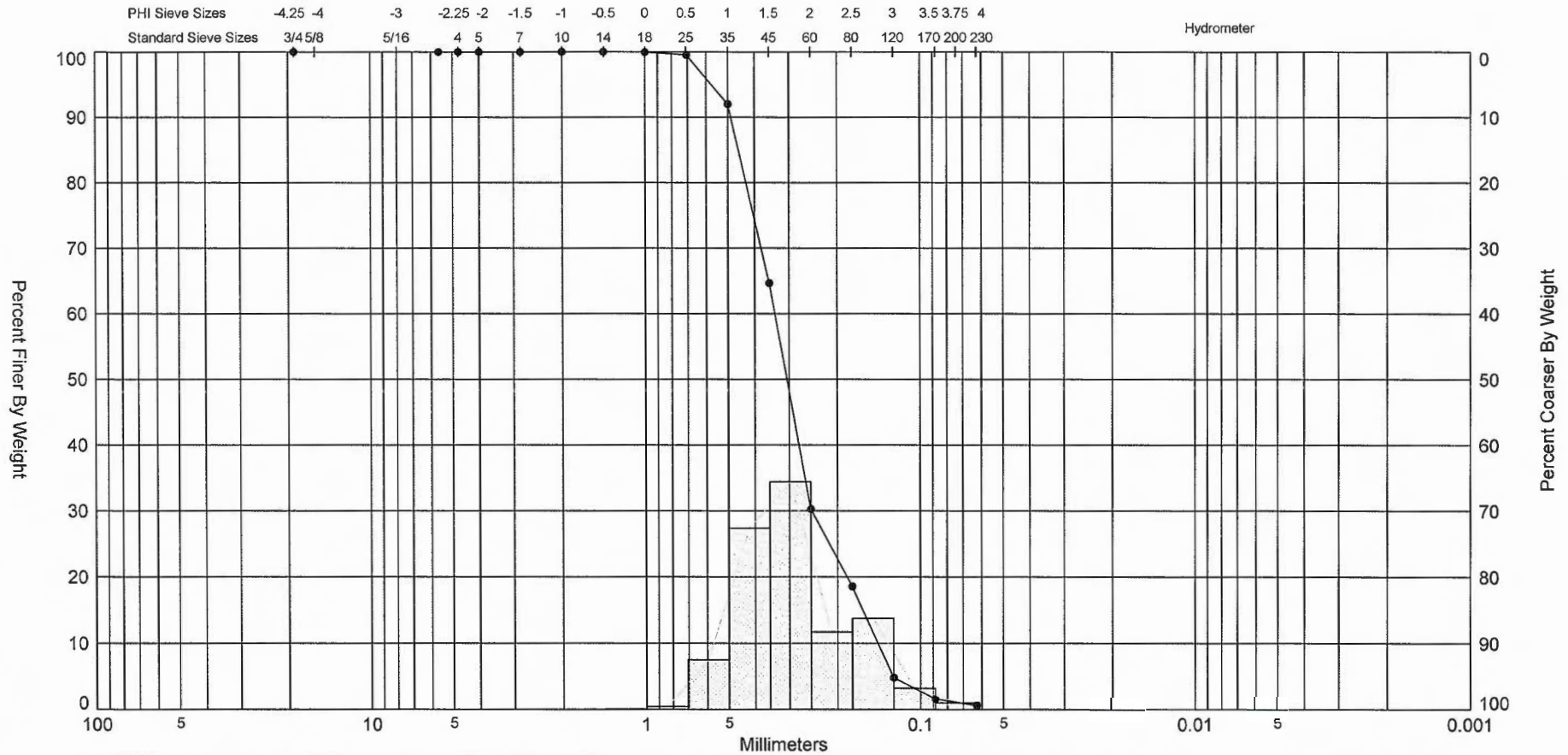
SIEVE ANALYSIS, JUPITER ISLAND 10.GPJ, FL DEP ROSS.GDT, 6/26/10



Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-9 #S-3 (5.6')	—●—	-53.7	SW	#230 - 1.46		79.00	0.99	0.76	-0.71	3.45	1.31	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% Moisture												Analysis Date:	04-23-10
Depths and elevations based on measured values												Analyzed By:	JR
						American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444						Easting (X, ft):	965829.
												Northing (Y, ft):	975349.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

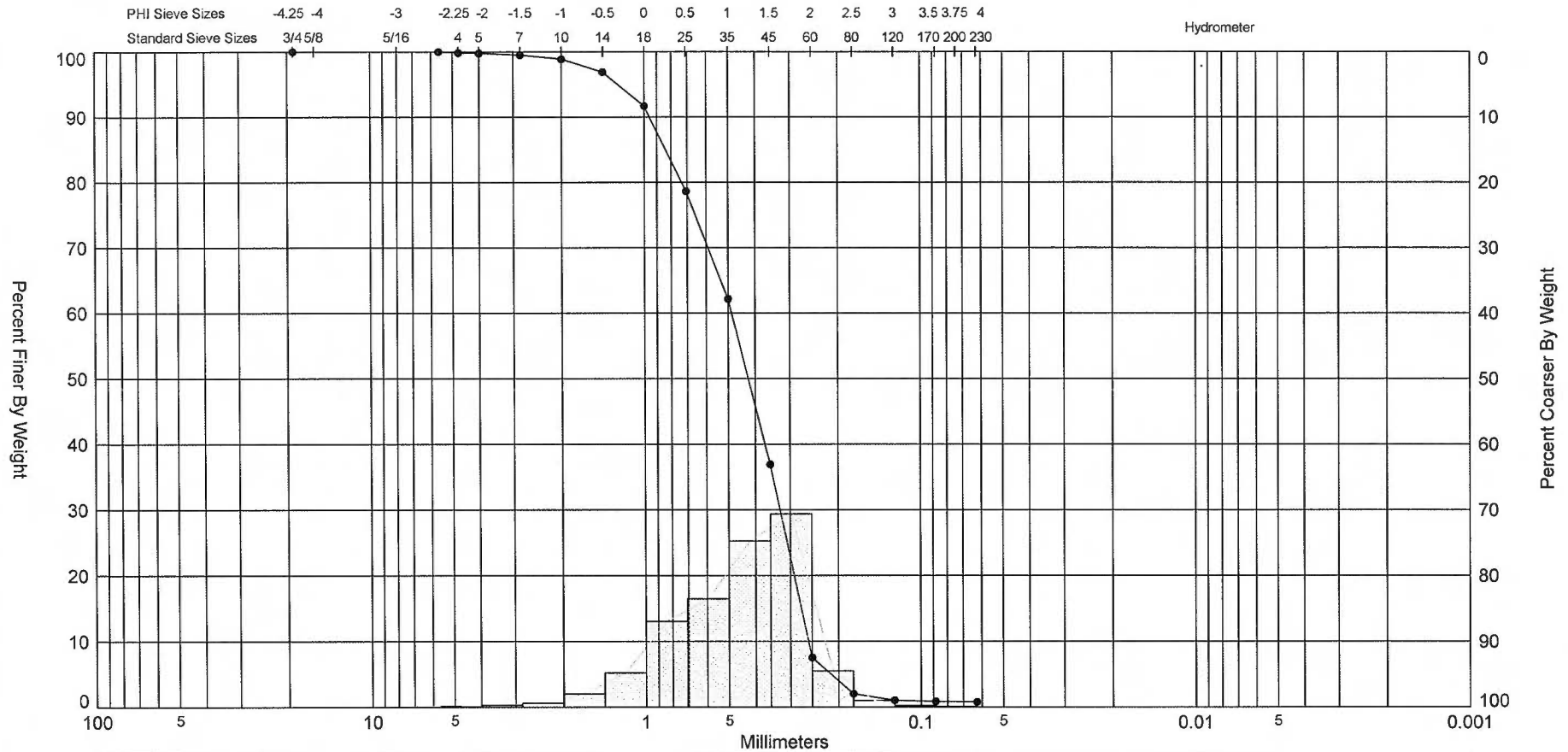
SIEVE ANALYSIS - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-9 PCC #S-1 (5.6")	—●—	-53.7	SP	#230 - 0.60			1.71	1.8	0.54	2.96	0.66	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% Moisture. Sample after calcium carbonate.												Analysis Date:	02-23-10
Depths and elevations based on measured values												Analyzed By:	ML
 American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444												Easting (X, ft):	965829.
												Northing (Y, ft):	975349.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

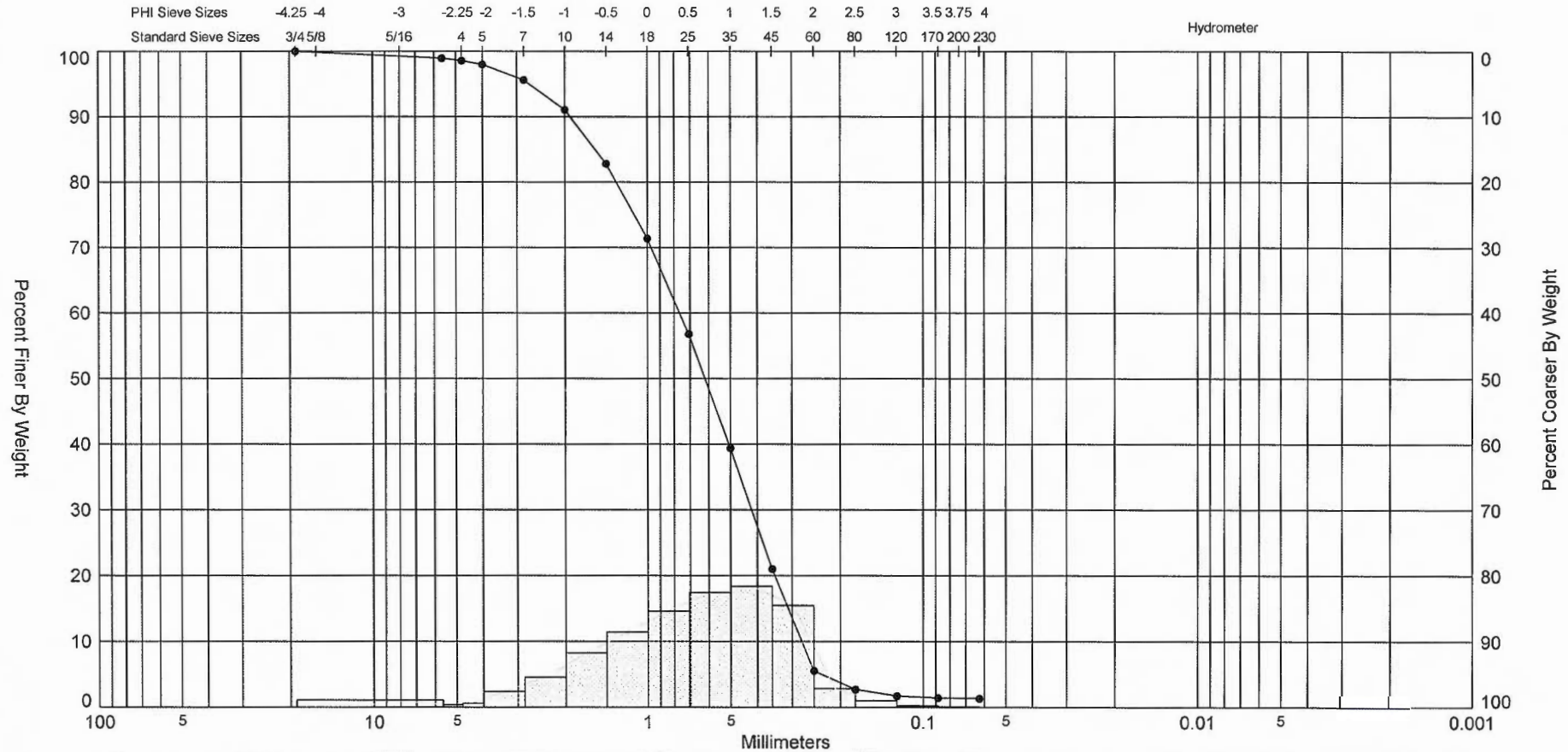
SIEVE ANALYSIS: JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-10 #S-1 (2.5')	—●—	-45.4	SP	#230 - 0.76			1.24	1.11	-0.74	3.97	0.78	Project Name:	Jupiter Island 10
Comments: 10YR 4/1 Munsell @ 10% Moisture												Analysis Date:	03-29-10
Depths and elevations based on measured values												Analyzed By:	JR
							American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444					Easting (X, ft):	966727.
												Northing (Y, ft):	975665.
												Horizontal System:	NAD 1983
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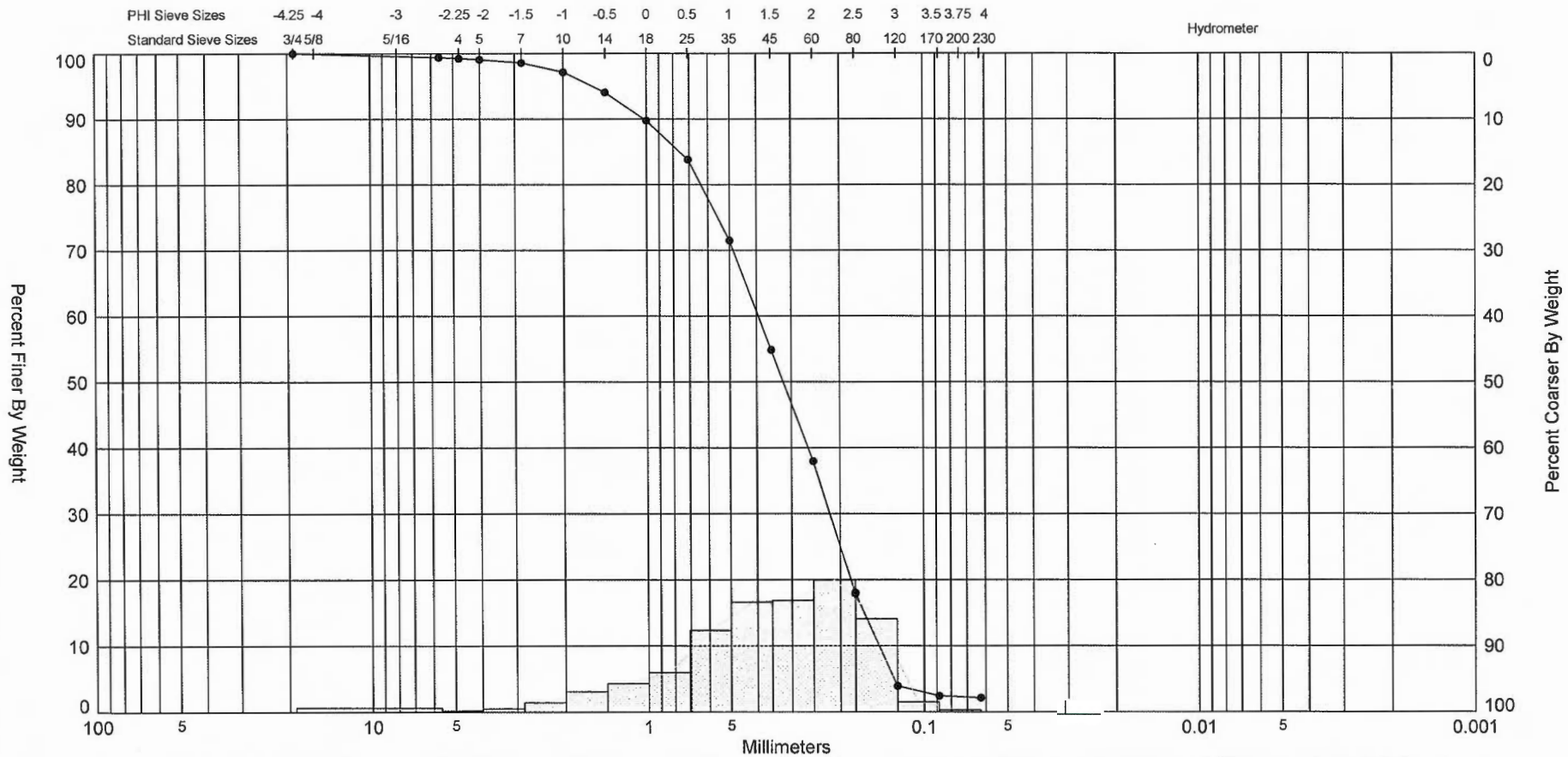
SIEVE ANALYSIS - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
JI-10 #S-2 (6.6')	—●—	-49.5	SW	#230 - 1.32		86.80	0.69	0.53	-0.68	3.71	1.11	Project Name:	Jupiter Island 10
Comments: 10 YR 5/1 Munsell @ 10% Moisture											Analysis Date:	04-23-10	
Depths and elevations based on measured values											Analyzed By:	JR	
 <div style="text-align: center;"> <p>American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444</p> </div>											Easting (X, ft):	966727.	
											Northing (Y, ft):	975665.	
											Horizontal System:	NAD 1983	
											Vertical System:	NAVD 88	

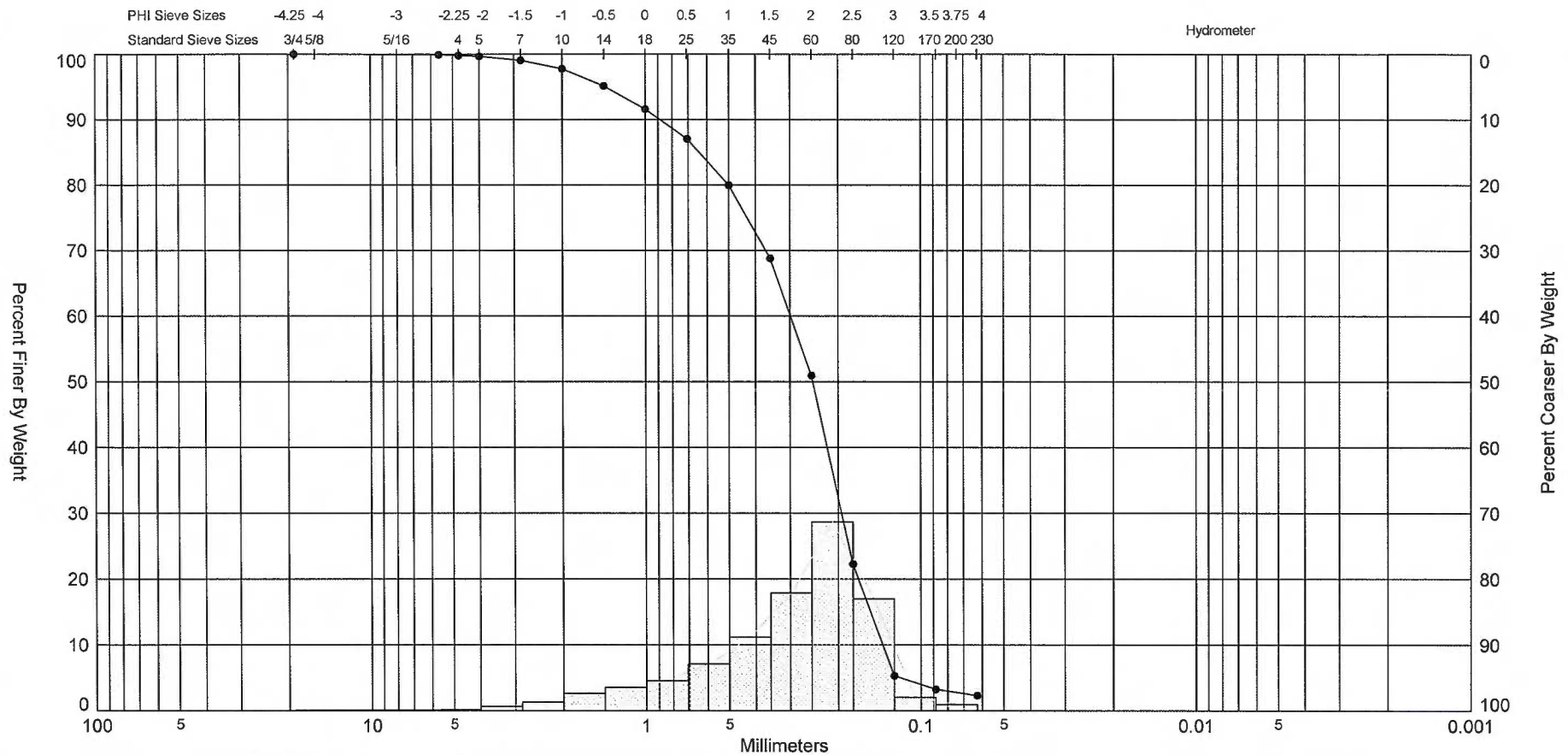
SIEVE ANALYSIS, JUPITER ISLAND 10.GPJ, FL DEP ROSS.GDT, 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
JI-10 #S-3 (9.5')	—●—	-52.4	SW	#230 - 2.13		72.90	1.64	1.45	-1.07	4.75	1.11	Project Name:	Jupiter Island 10
Comments: 10YR 4/1 Munsell @ 10% Moisture												Analysis Date:	03-31-10
Depths and elevations based on measured values												Analyzed By:	JR
						American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444						Easting (X, ft):	966727.
												Northing (Y, ft):	975665.
												Horizontal System:	NAD 1983
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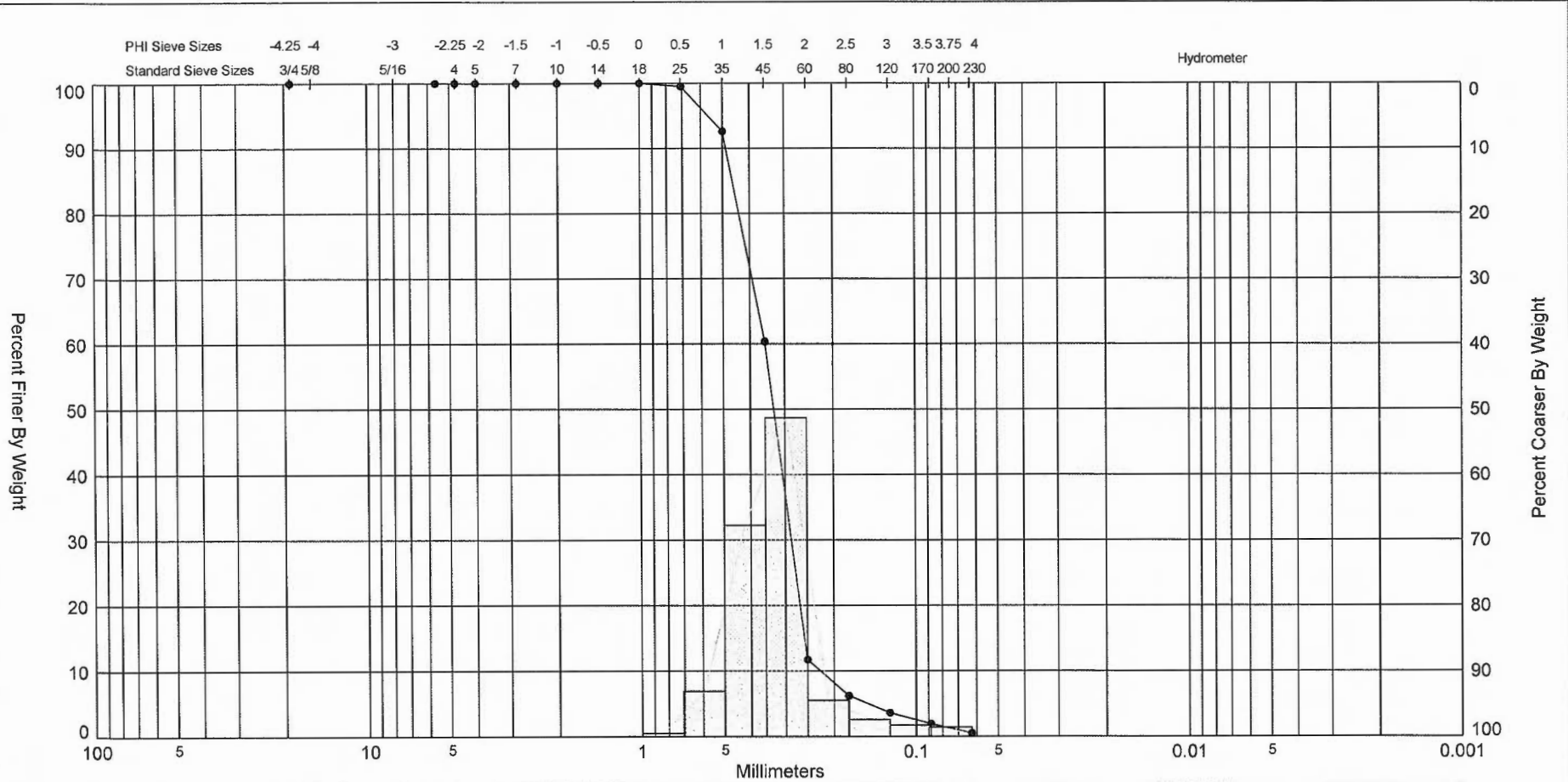
SIEVE ANALYSIS - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-10 #S-4 (13)	—●—	-55.9	SP	#230 - 2.31			2.02	1.71	-1.16	4.39	1.05	Project Name:	Jupiter Island 10
Comments: 10YR 4/1 @ 10% moisture												Analysis Date:	03-31-10
Depths and elevations based on measured values												Analyzed By:	JR
						American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444						Easting (X, ft):	966727.
												Northing (Y, ft):	975665.
												Horizontal System:	NAD 1983
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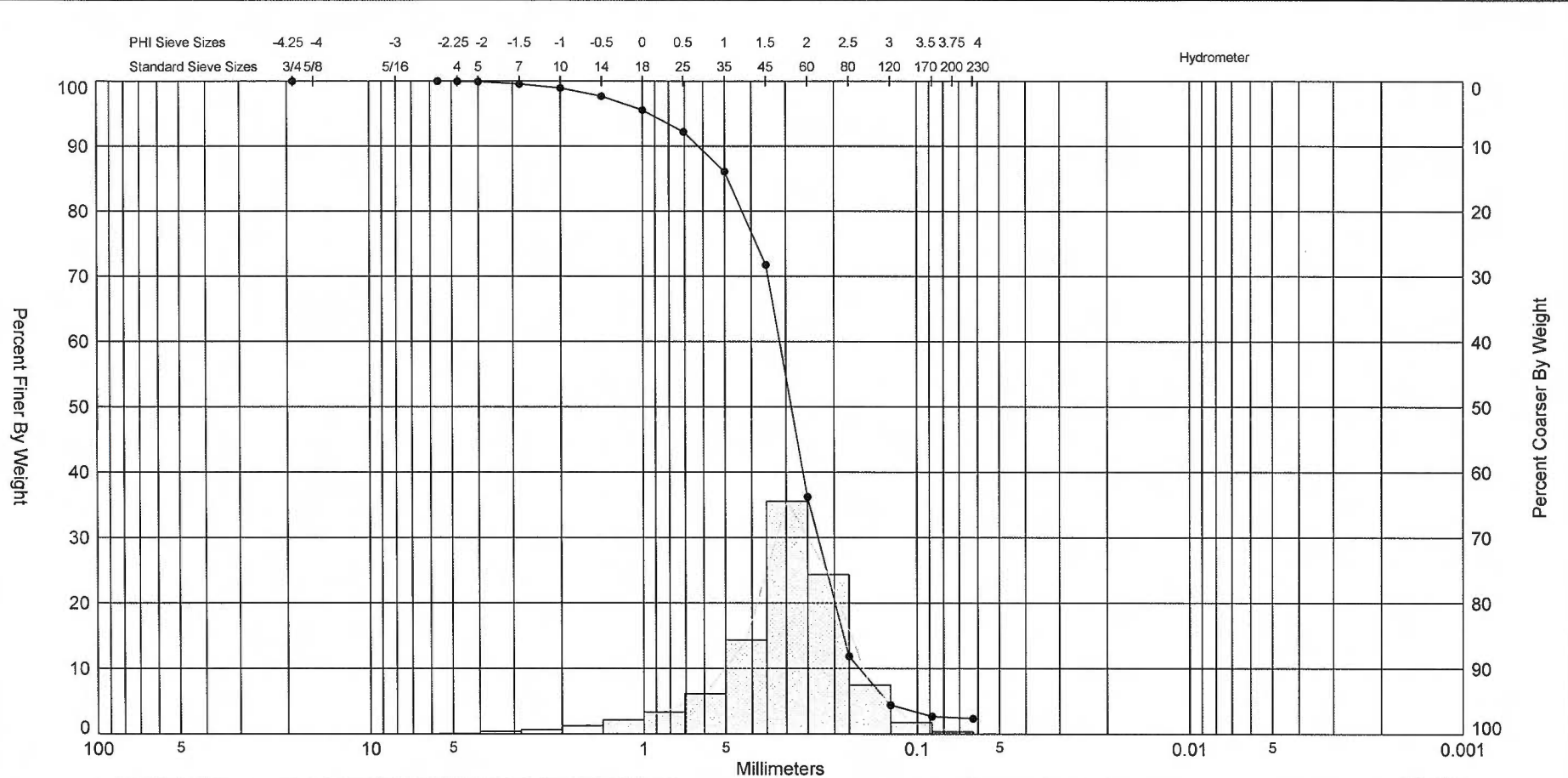
SIEVE ANALYSIS JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-10 PCC #S-1 (6.6')	—●—	-49.5	SP	#230 - 0.50			1.61	1.62	1.28	6.75	0.53	Project Name:	Jupiter Island 10
Comments: 10 YR 5/1 Munsell @ 10% moisture. Sample after Calcium carbonate.												Analysis Date:	02-23-10
Depths and elevations based on measured values												Analyzed By:	ML
 American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444												Easting (X, ft):	966727.
												Northing (Y, ft):	975665.
												Horizontal System:	NAD 1983
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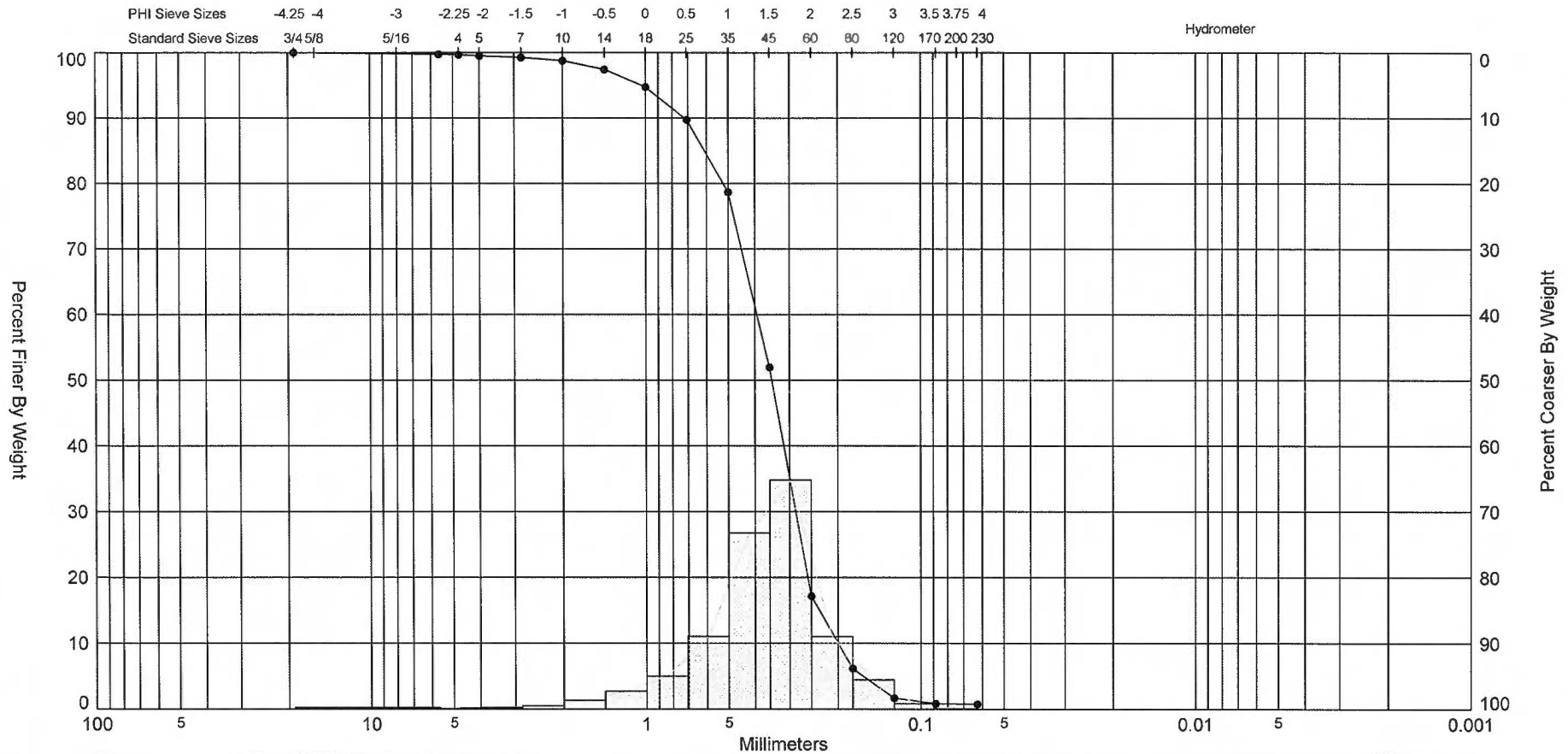
SIEVE ANALYSIS: JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-11 #S-1 (3')	—●—	-45.9	SP	#230 - 2.34		65.60	1.81	1.68	-1.25	6.02	0.81	Project Name:	Jupiter Island 10
Comments: 10 YR 5/1 Munsell @ 10% Moisture												Analysis Date:	04-24-10
Depths and elevations based on measured values												Analyzed By:	JR
						American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444						Easting (X, ft):	967745.
												Northing (Y, ft):	975958.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

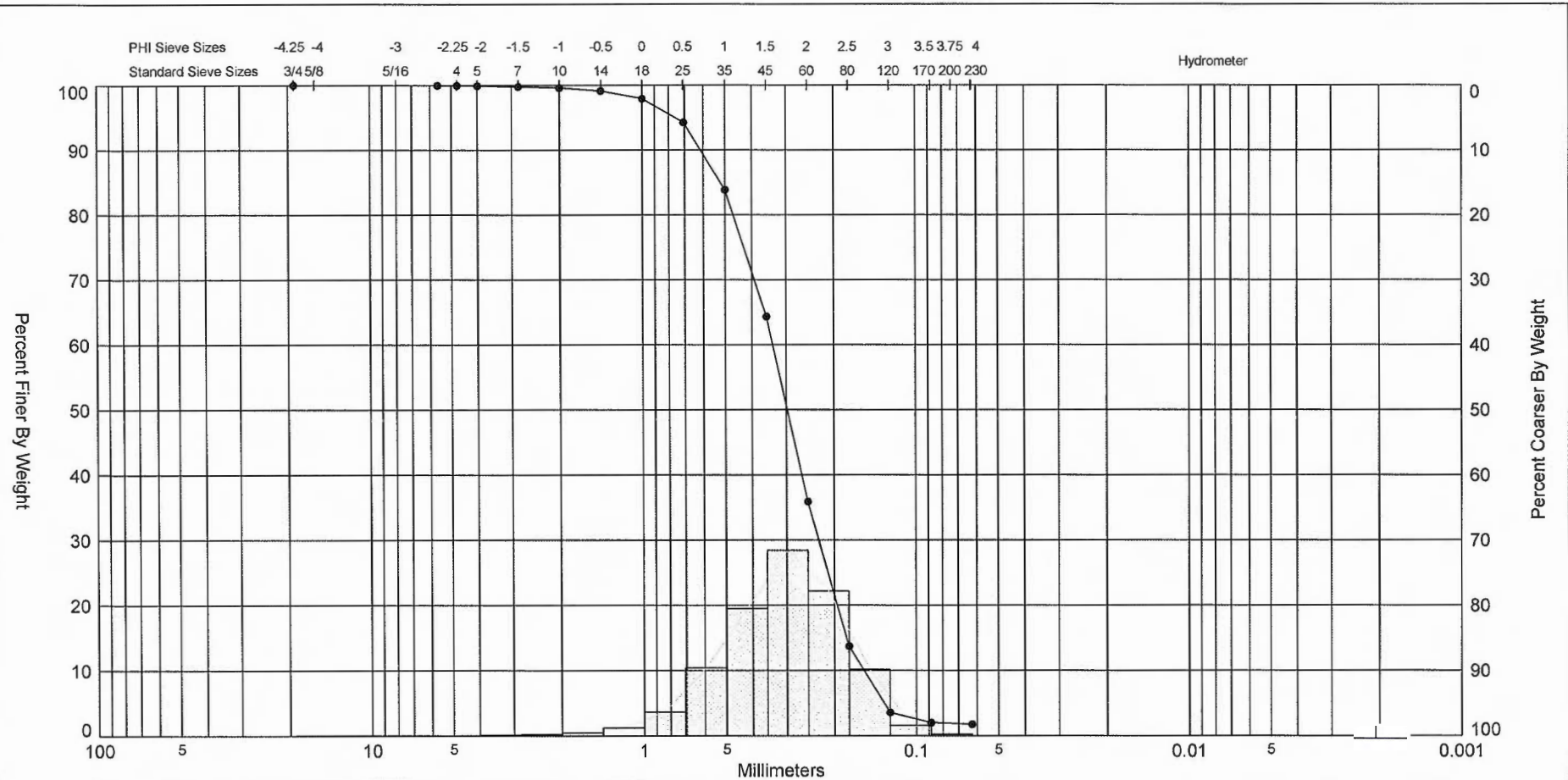
SIEVE ANALYSIS: JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
JL-11 #S-2 (9')	—●—	-51.9	SP	#230 - 0.75		72.20	1.53	1.41	-1.34	7.77	0.8	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% Moisture												Analysis Date:	03-31-10
Depths and elevations based on measured values												Analyzed By:	JR
							American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444					Easting (X, ft):	967745.
												Northing (Y, ft):	975958.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

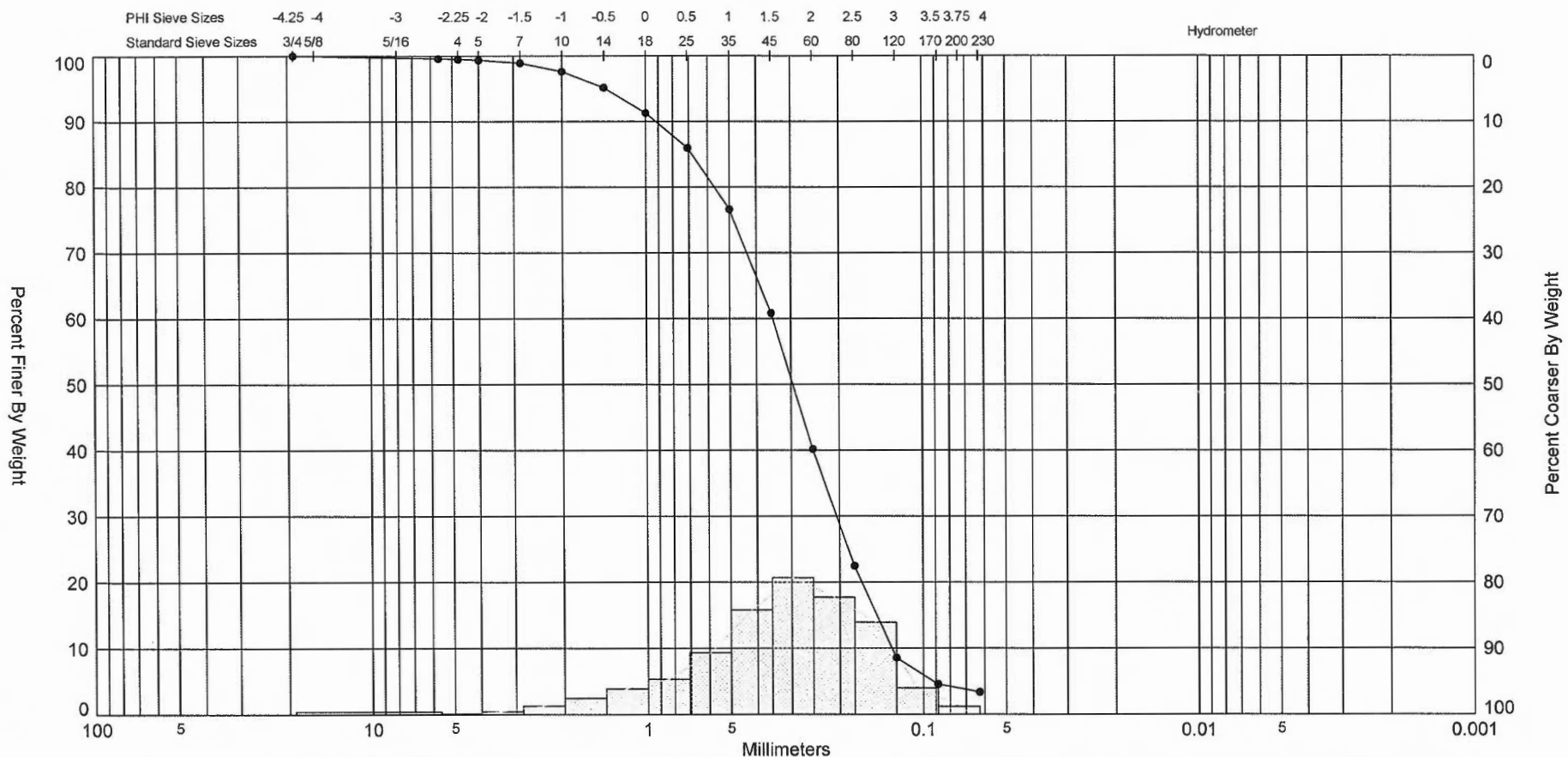
SIEVE ANALYSIS - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-11 #S-3 (11')	—●—	-53.9	SP	#230 - 1.73			1.75	1.68	-0.72	4.98	0.76	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% Moisture												Analysis Date:	04-24-10
Depths and elevations based on measured values												Analyzed By:	JR
						American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444						Easting (X, ft):	967745.
												Northing (Y, ft):	975958.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

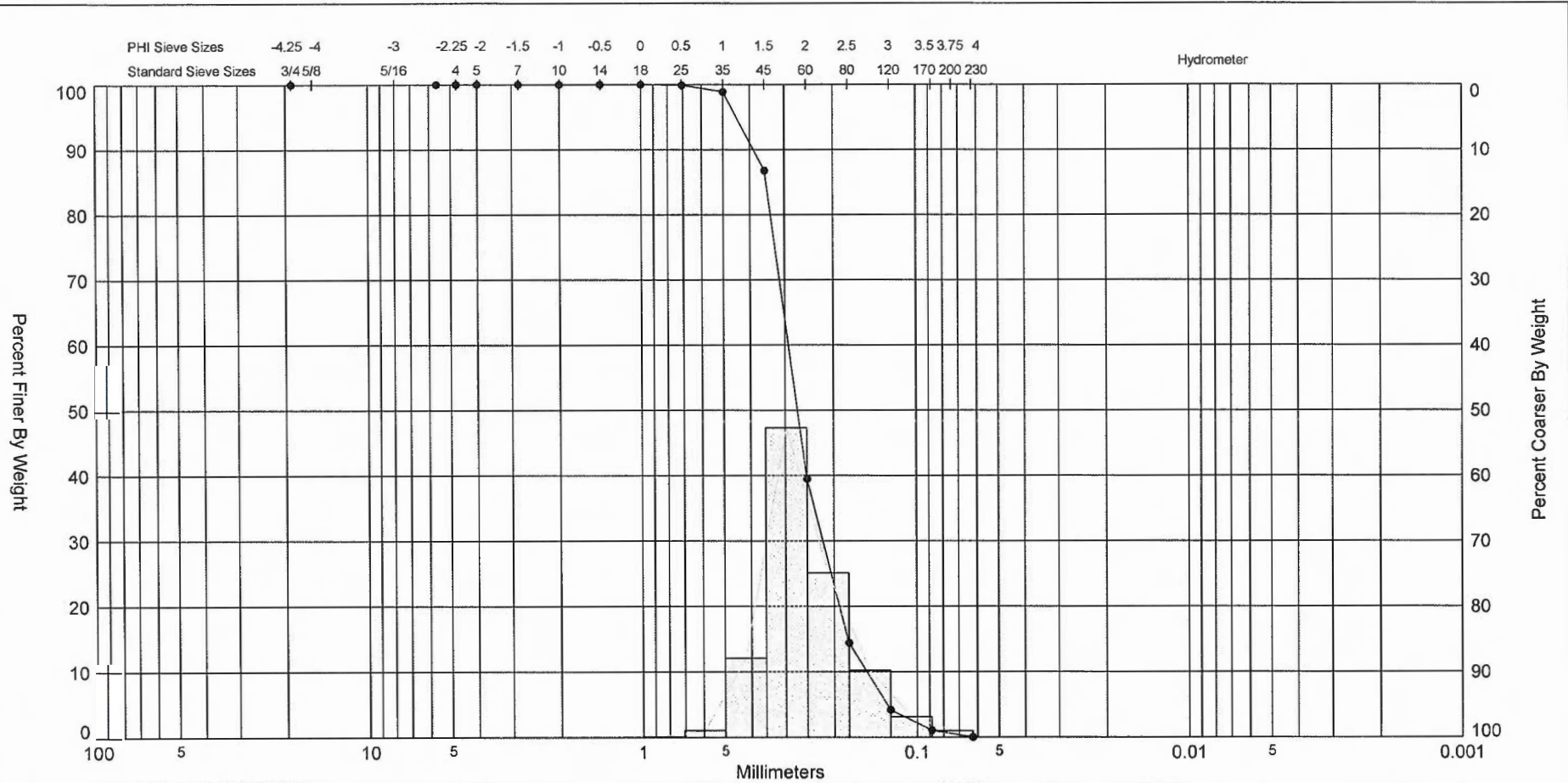
SIEVE ANALYSIS - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-11 #S-4 (14')	—●—	-56.9	SP	#230 - 3.37			1.76	1.58	-0.96	4.67	1.1	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% moisture												Analysis Date:	03-31-10
Depths and elevations based on measured values												Analyzed By:	JR
 <div style="text-align: center;"> <p>American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444</p> </div>												Easting (X, ft):	967745.
												Northing (Y, ft):	975958.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

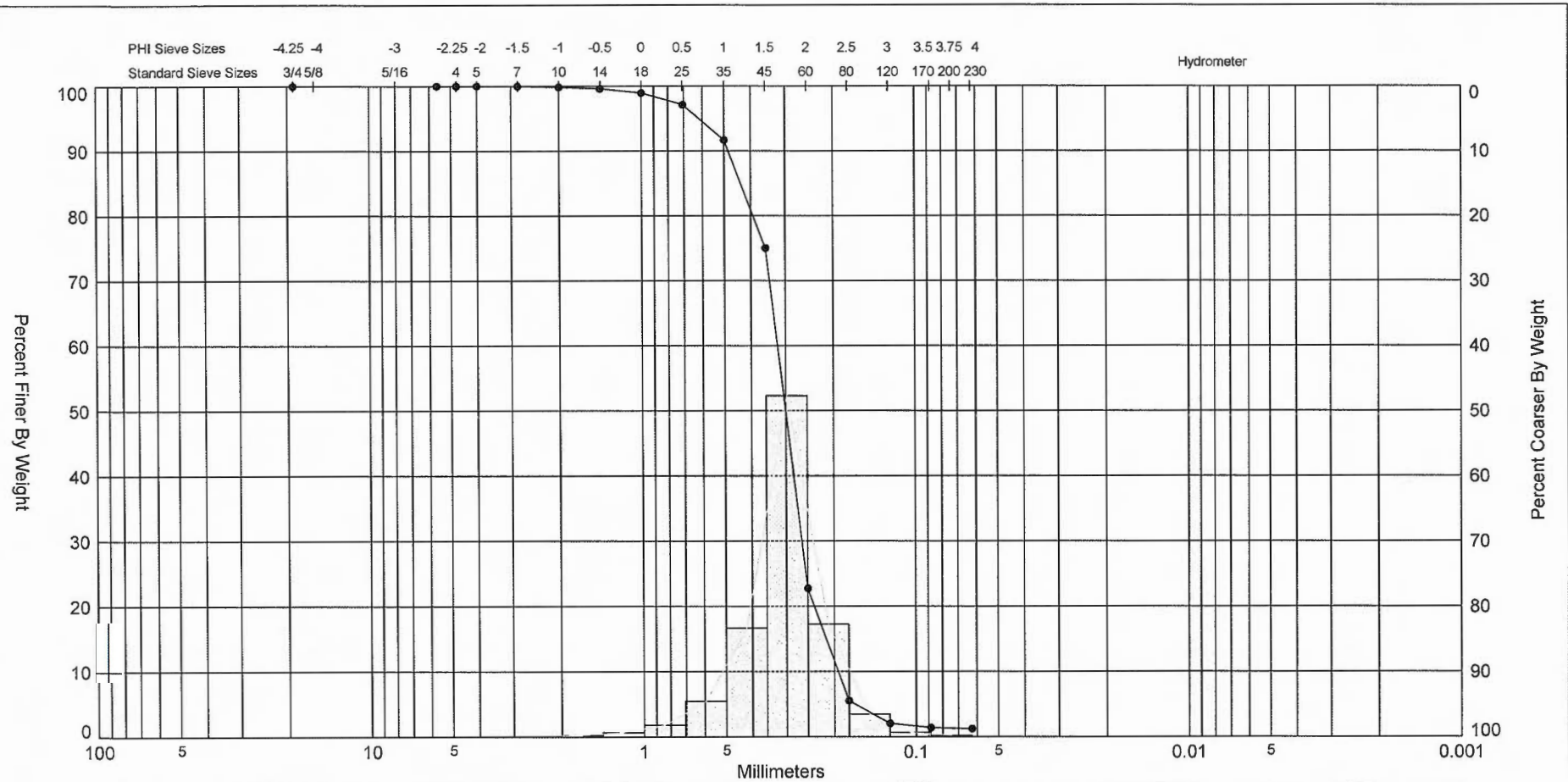
SIEVE ANALYSIS - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT - 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-11 PCC #S-1 (3')	—●—	-45.9	SP	#230 - 0.01			1.89	1.97	0.72	3.99	0.52	Project Name:	Jupiter Island 10
Comments: 10 YR 5/1 Munsell @ 10% moisture. Sample after calcium carbonate.												Analysis Date:	02-23-10
Depths and elevations based on measured values												Analyzed By:	ML
 <div style="text-align: center;"> <p>American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444</p> </div>												Easting (X, ft):	967745.
												Northing (Y, ft):	975958.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

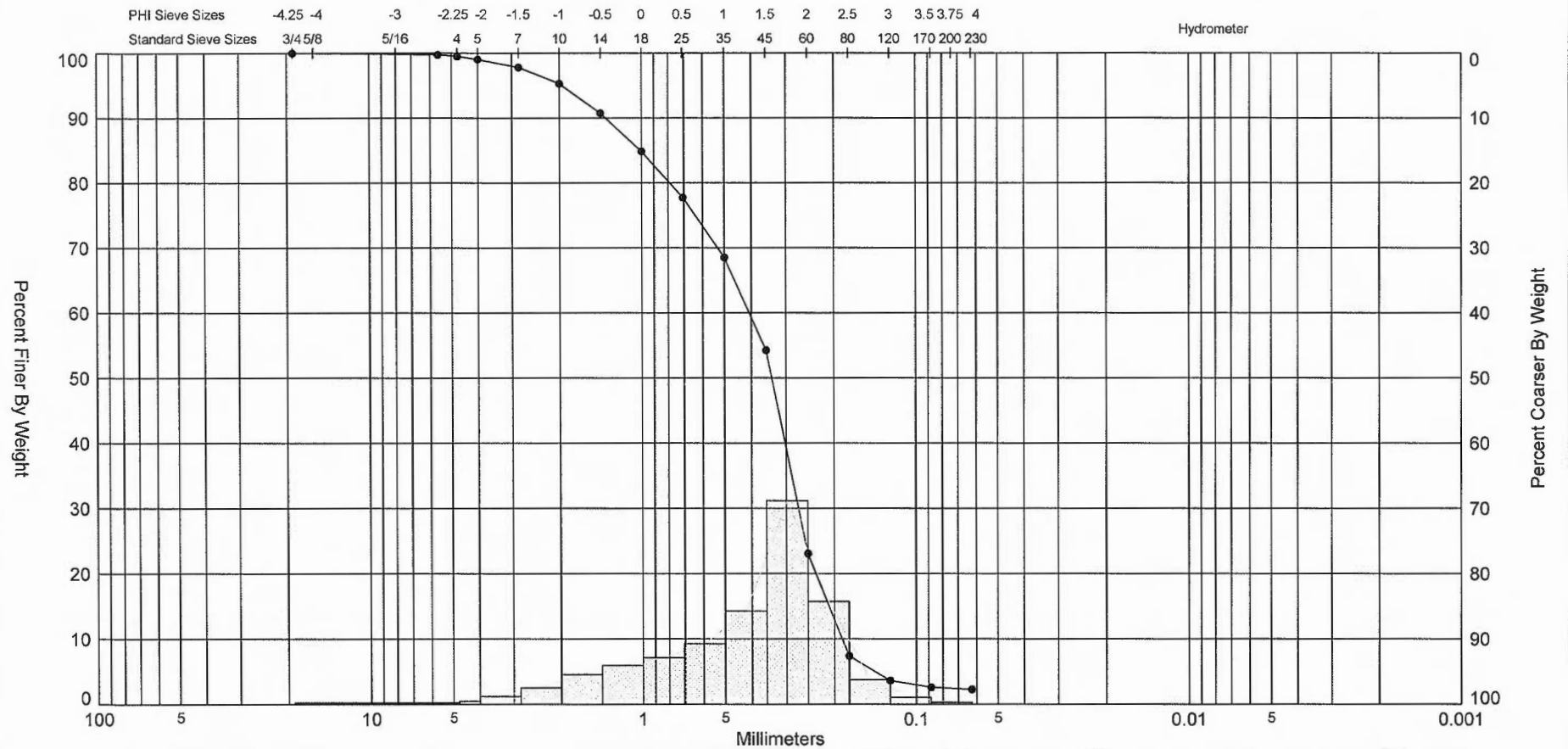
SIEVE ANALYSIS: JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
JL-12 #S-2 (4')	—●—	-47.5	SP	#230 - 1.22		60.60	1.74	1.69	-0.88	6.81	0.54	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% Moisture												Analysis Date:	04-01-10
Depths and elevations based on measured values												Analyzed By:	JR
 American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444												Easting (X, ft):	968693.
												Northing (Y, ft):	976243.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

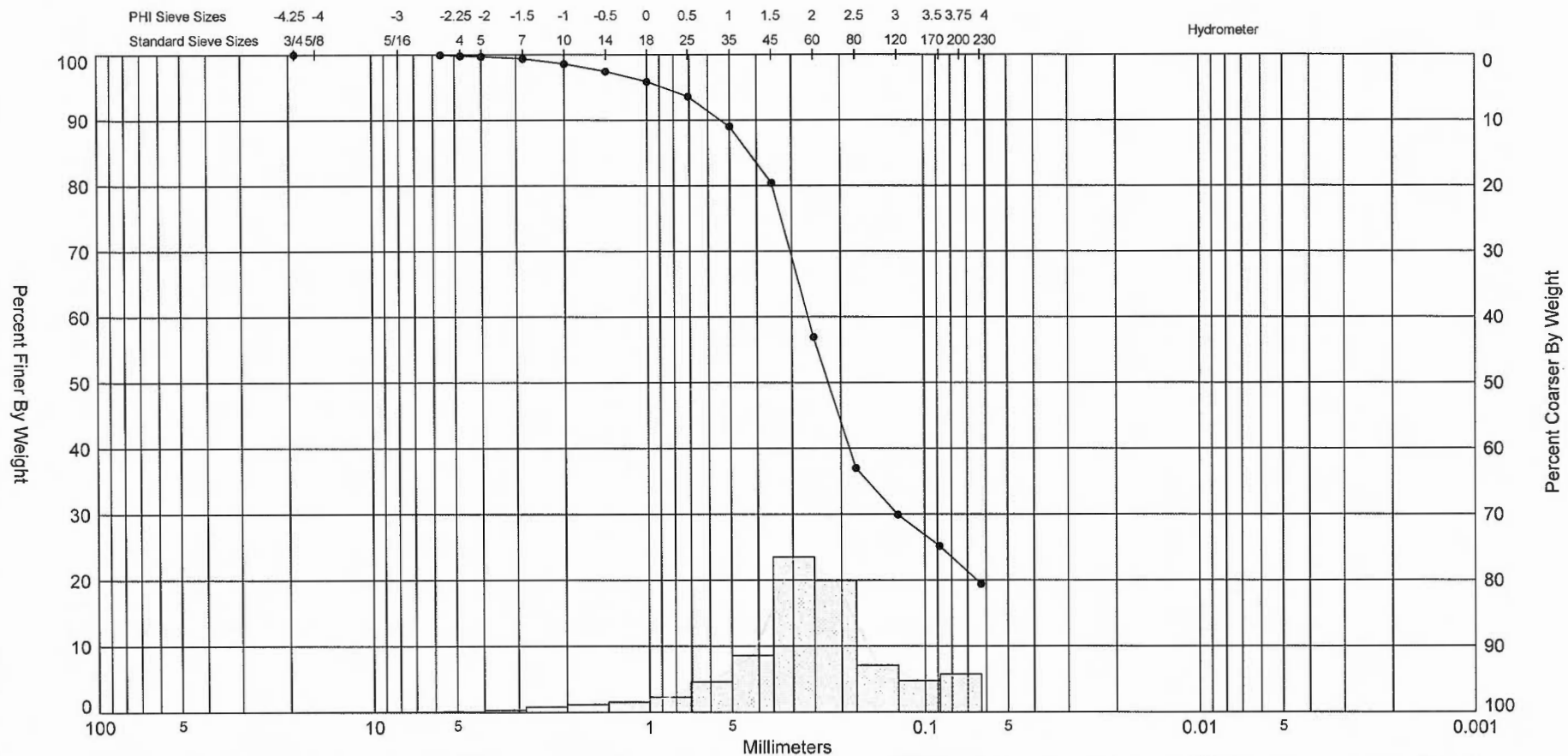
SIEVE ANALYSIS, JUPITER ISLAND 10.GPJ, FL DEP ROSS.GDT, 6/26/10



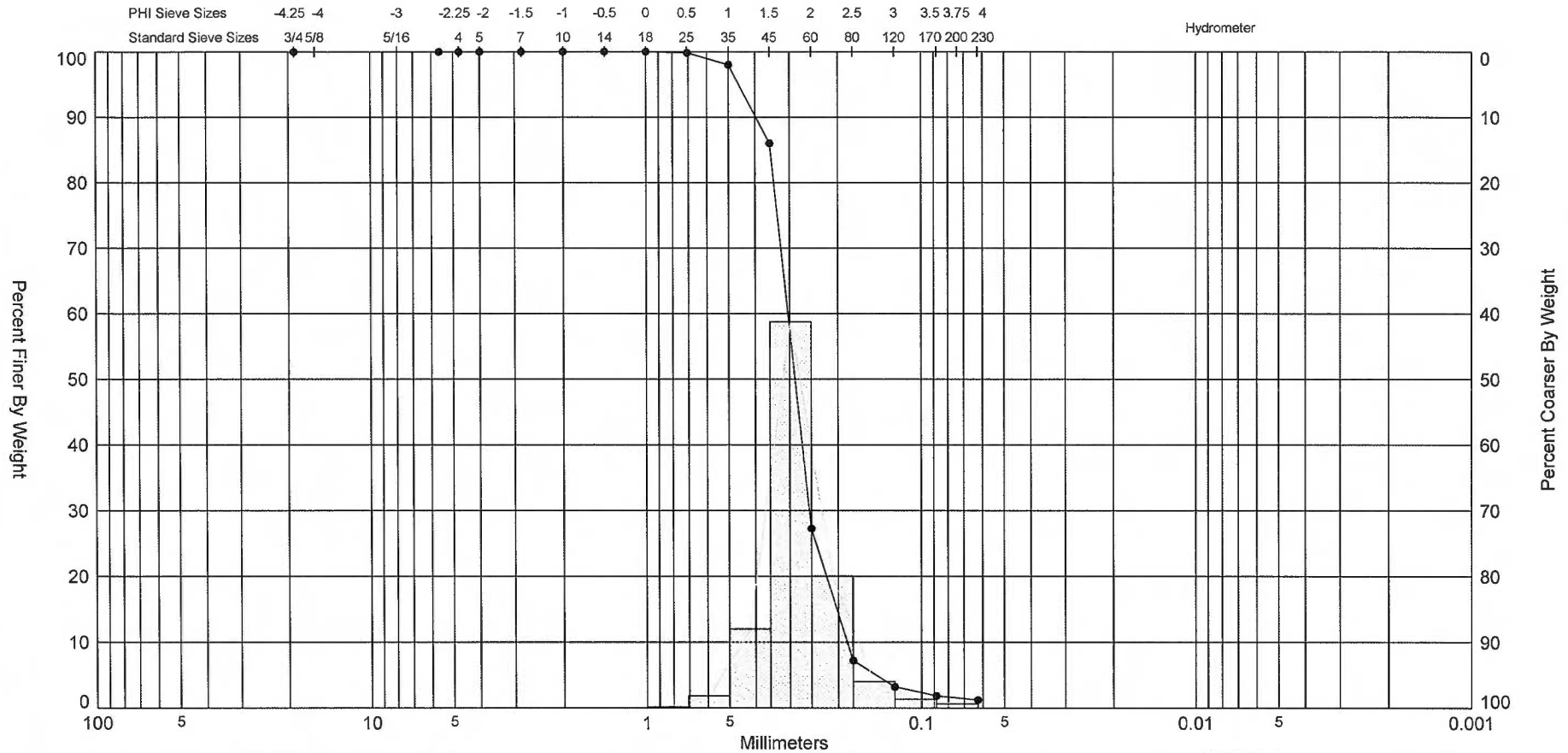
Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-12 #S-3 (14')	—●—	-57.5	SW	#230 - 2.26		63.20	1.57	1.21	-1.01	3.93	1.11	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% Moisture												Analysis Date:	04-23-10
Depths and elevations based on measured values												Analyzed By:	JR
 <div style="text-align: center;"> <p>American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444</p> </div>												Easting (X, ft):	968693.
												Northing (Y, ft):	976243.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88


SIEVE ANALYSIS JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10



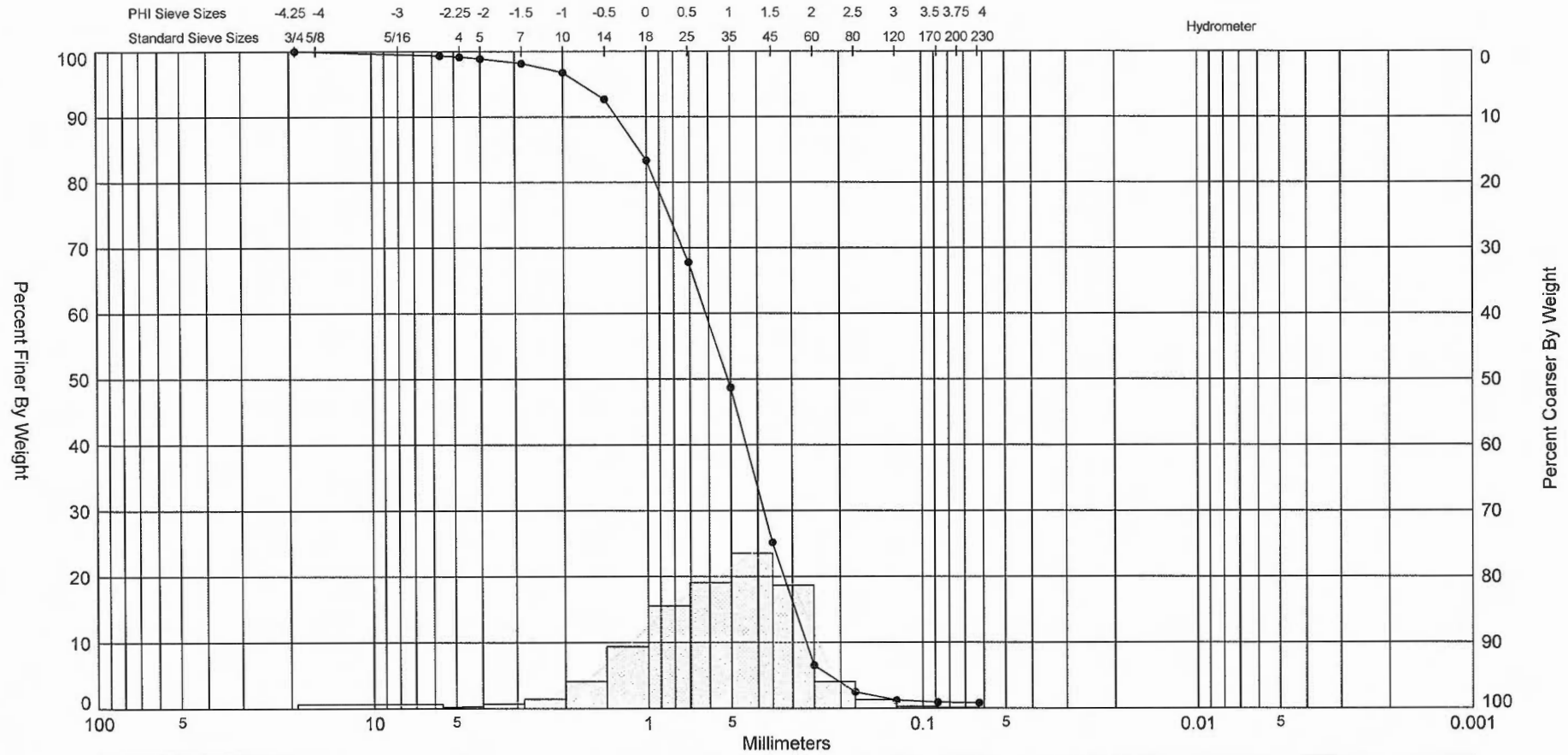
SIEVE ANALYSIS - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT - 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-12 PCC #S-1 (14')	—●—	-57.5	SP	#230 - 1.21			1.81	1.84	0.83	6.09	0.44	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% moisture. Sample after calcium carbonate.												Analysis Date:	02-23-10
Depths and elevations based on measured values												Analyzed By:	ML
 <div style="text-align: center;"> <p>American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444</p> </div>												Easting (X, ft):	968693.
												Northing (Y, ft):	976243.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

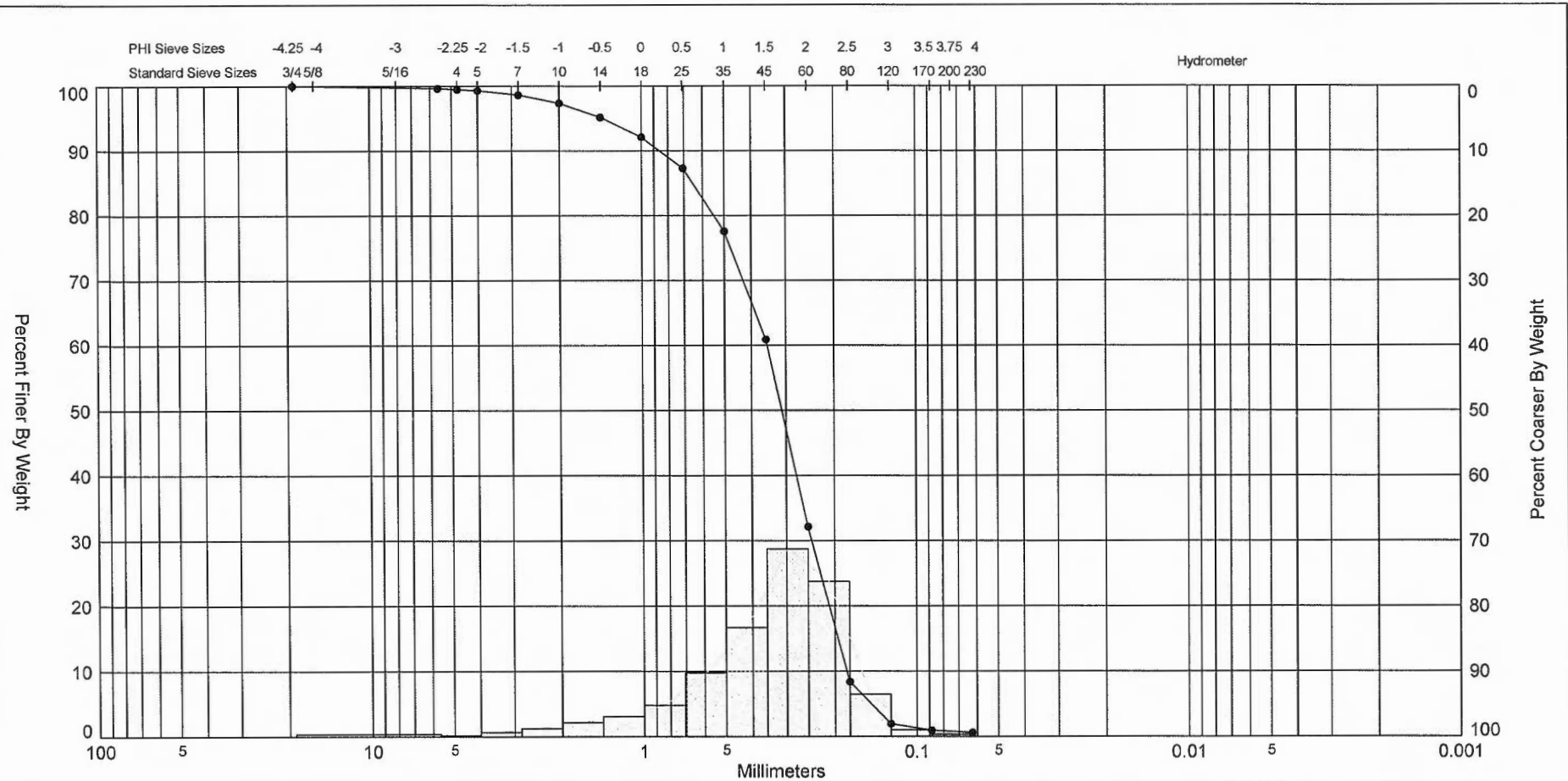
SIEVE ANALYSIS, JUPITER ISLAND 10.GPJ, FL DEP ROSS.GDT, 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
JL-14 #S-1 (1')	—●—	-45.7	SW	#230 - 0.80		75.50	0.97	0.83	-0.89	5.17	0.95	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% Moisture												Analysis Date:	04-16-10
Depths and elevations based on measured values												Analyzed By:	JR
							American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444					Easting (X, ft):	966134.
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												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

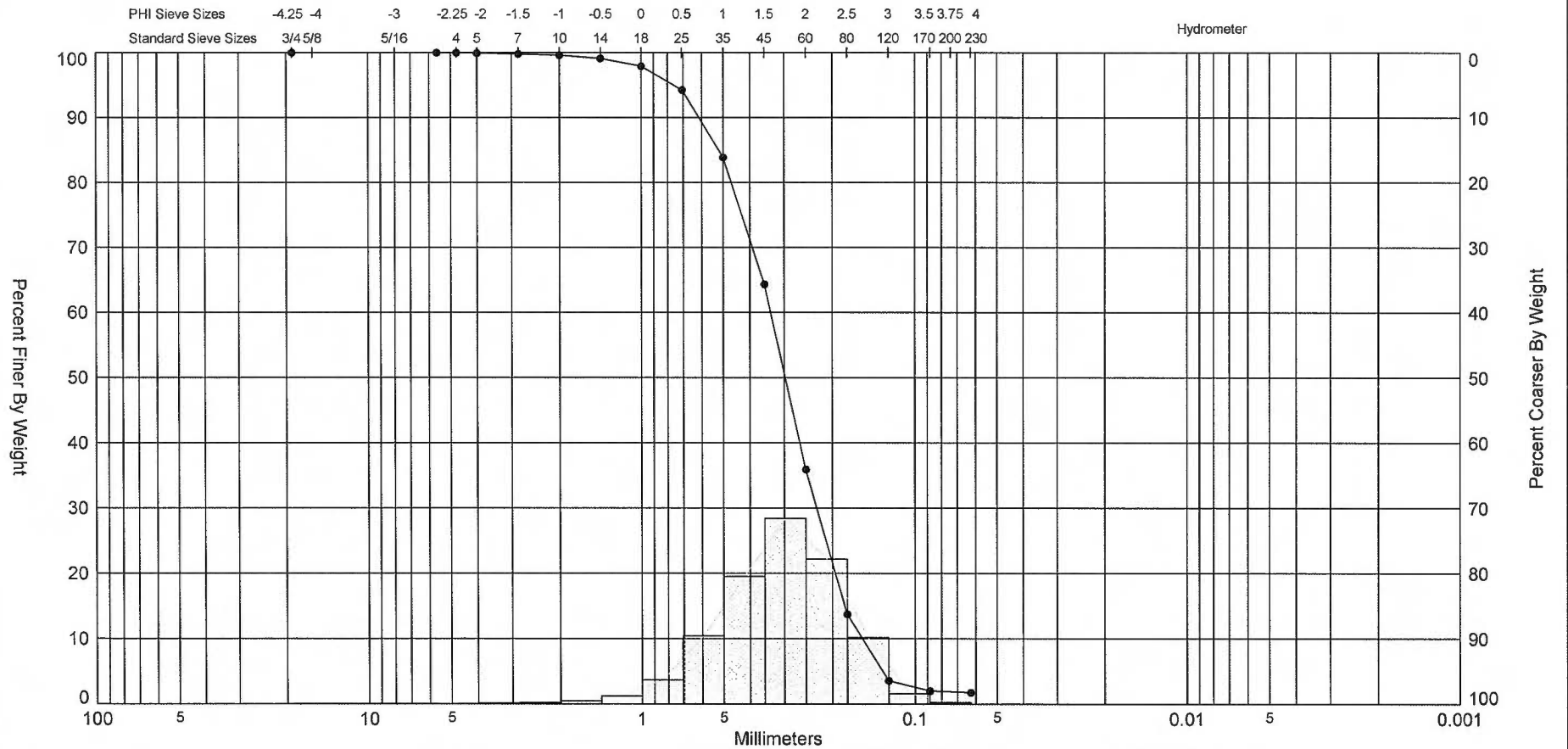
SIEVE ANALYSIS JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10



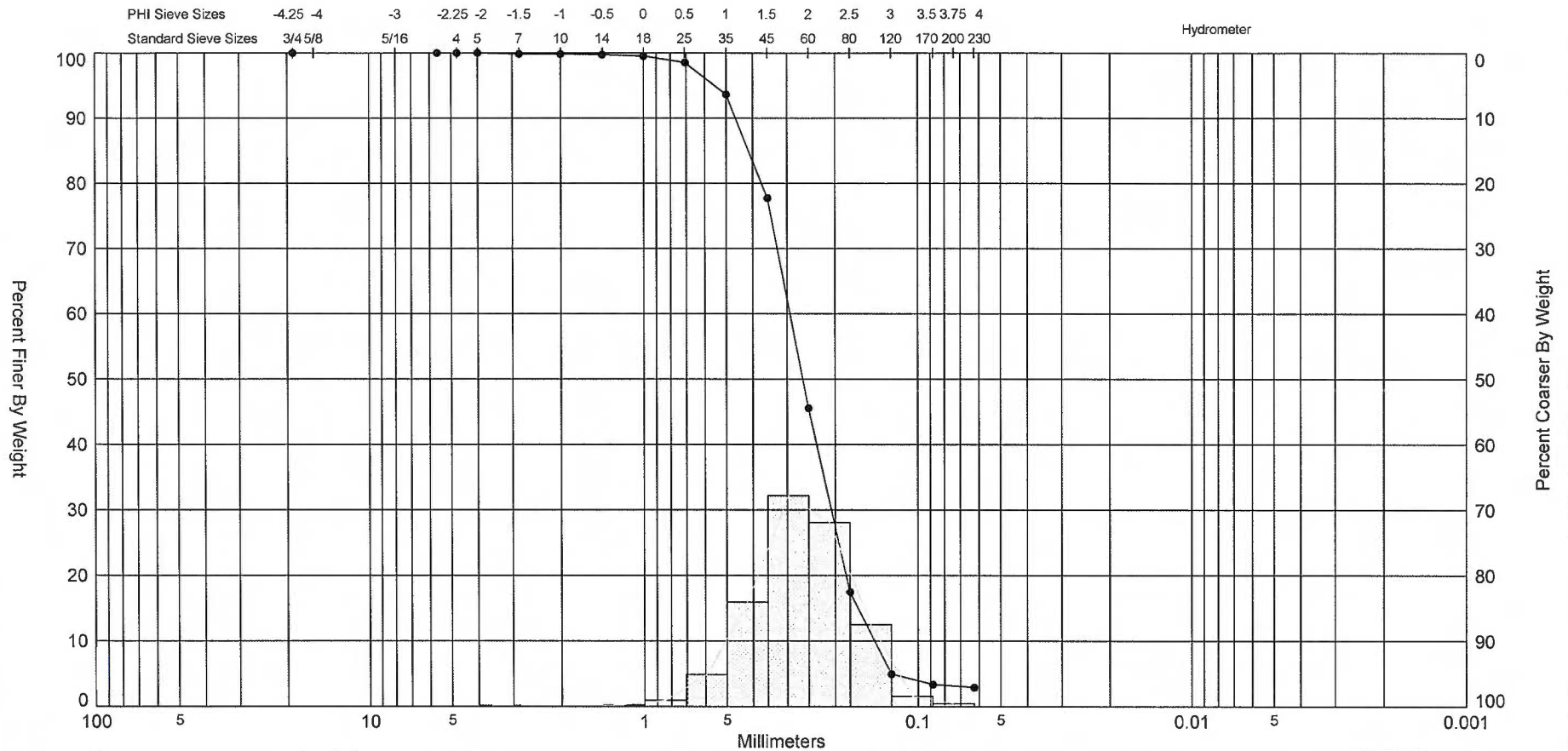
Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
JL-14 #S-2 (6')	—●—	-50.7	SW	#230 - 0.57			1.69	1.49	-1.42	6.24	0.98	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% Moisture												Analysis Date:	04-20-10
Depths and elevations based on measured values												Analyzed By:	JR
 American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444												Easting (X, ft):	966134.
												Northing (Y, ft):	974400.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88


SIEVE ANALYSIS - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10



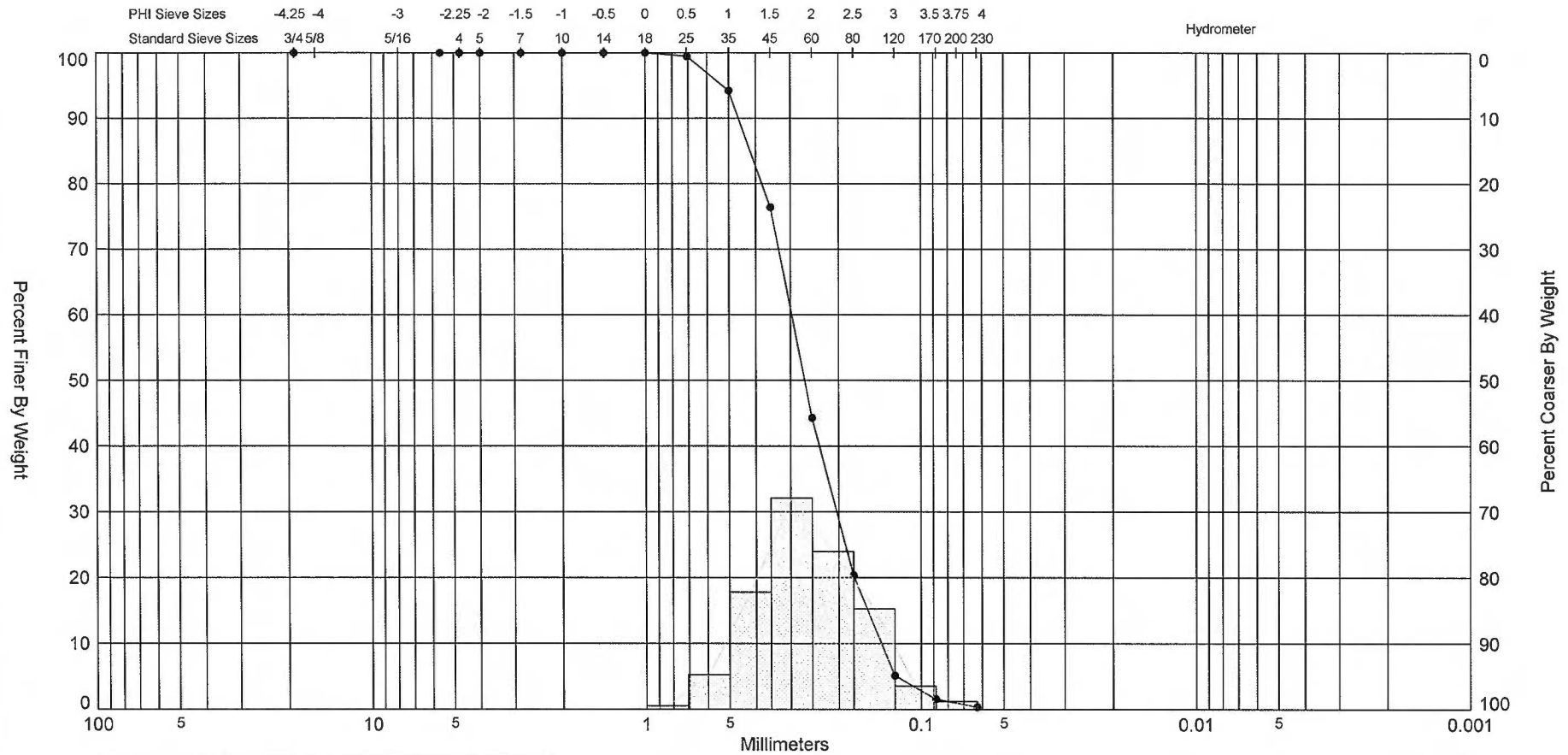
SIEVE ANALYSIS: JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
JI-14 #S-4 (14')	—●—	-58.7	SP	#230 - 2.90			1.93	1.9	-0.54	5.21	0.62	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% Moisture												Analysis Date:	04-20-10
Depths and elevations based on measured values												Analyzed By:	JR
							American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444					Easting (X, ft):	966134.
												Northing (Y, ft):	974400.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

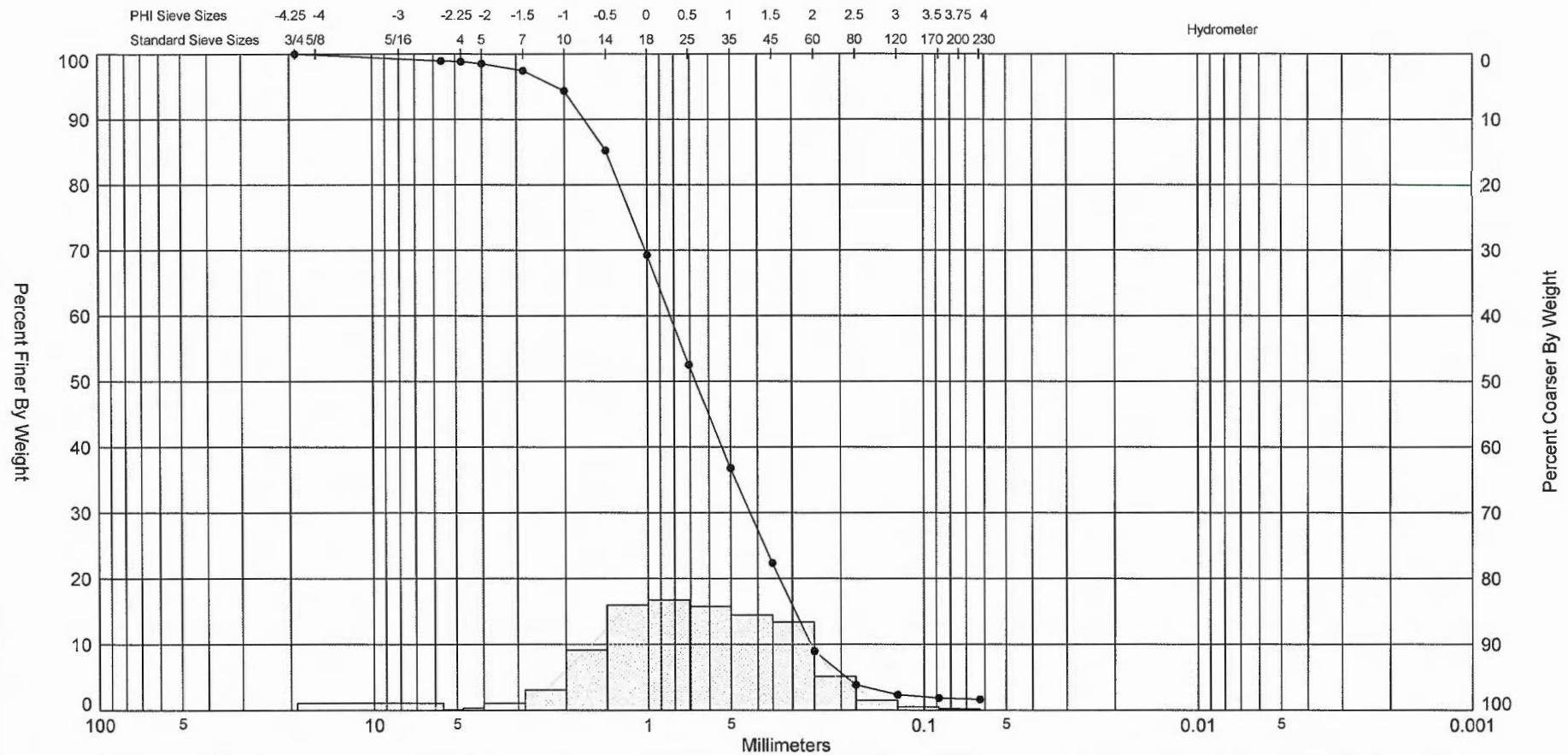
SIEVE_ANALYSIS_JUPITER_ISLAND_10.GPJ_FL_DEP_ROSS.GDT_6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
JL-14 PCC #S-1 (11')	—●—	-55.7	SP	#230 - 0.35			1.91	1.95	0.19	2.91	0.64	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% moisture. Sample after calcium carbonate.												Analysis Date:	02-23-10
Depths and elevations based on measured values												Analyzed By:	ML
							American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444					Easting (X, ft):	966134.
												Northing (Y, ft):	974400.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

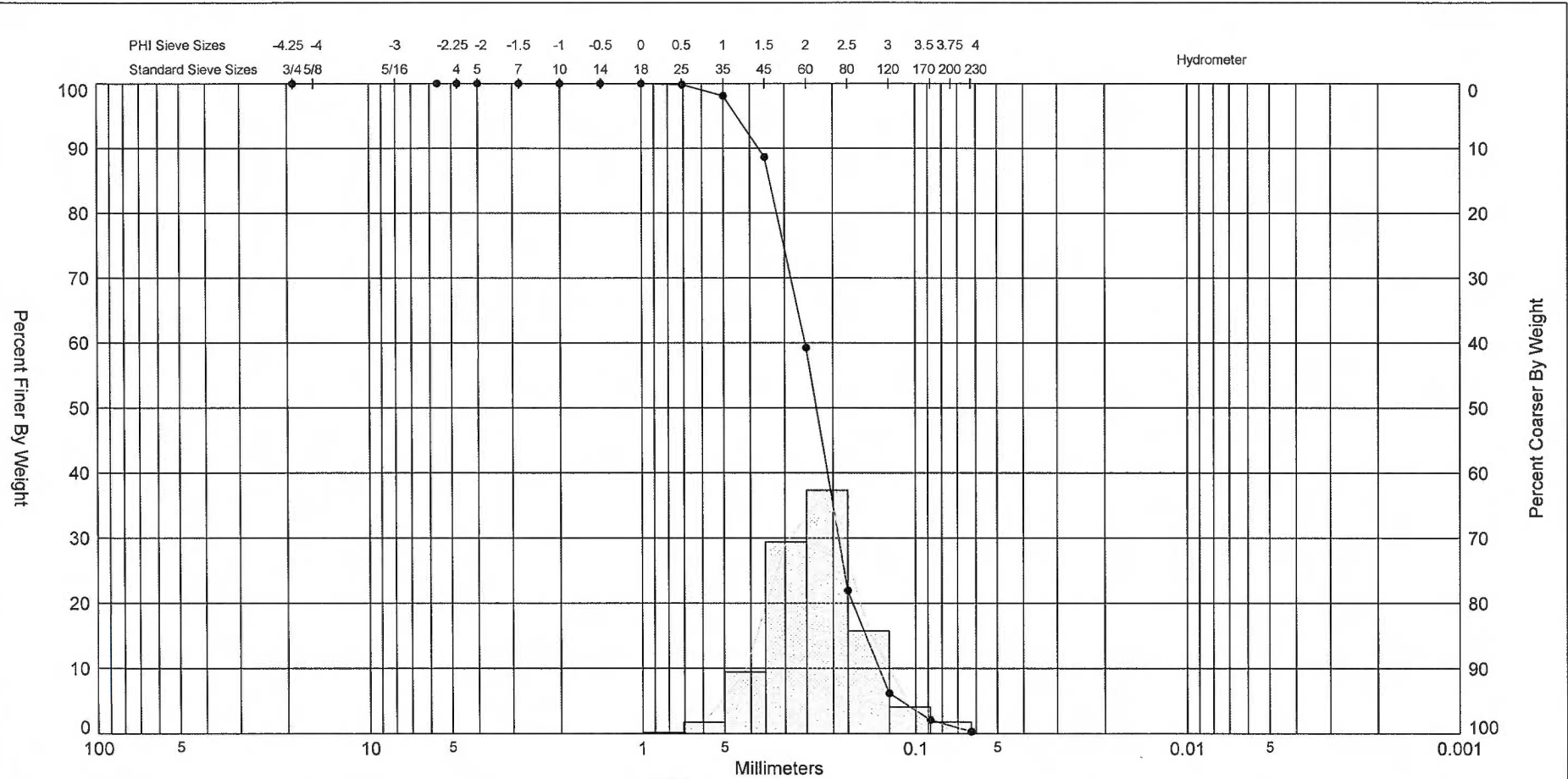
SIEVE ANALYSIS: JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
JI-15B #S-1 (2')	—●—	-43.9	SW	#230 - 1.64		80.70	0.58	0.55	-0.38	3.79	1.09	Project Name:	Jupiter Island 10
Comments: 10 YR 5/1 Munsell @ 10% Moisture												Analysis Date:	04-16-10
Depths and elevations based on measured values												Analyzed By:	ML
 American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444												Easting (X, ft):	966633.
												Northing (Y, ft):	974483.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

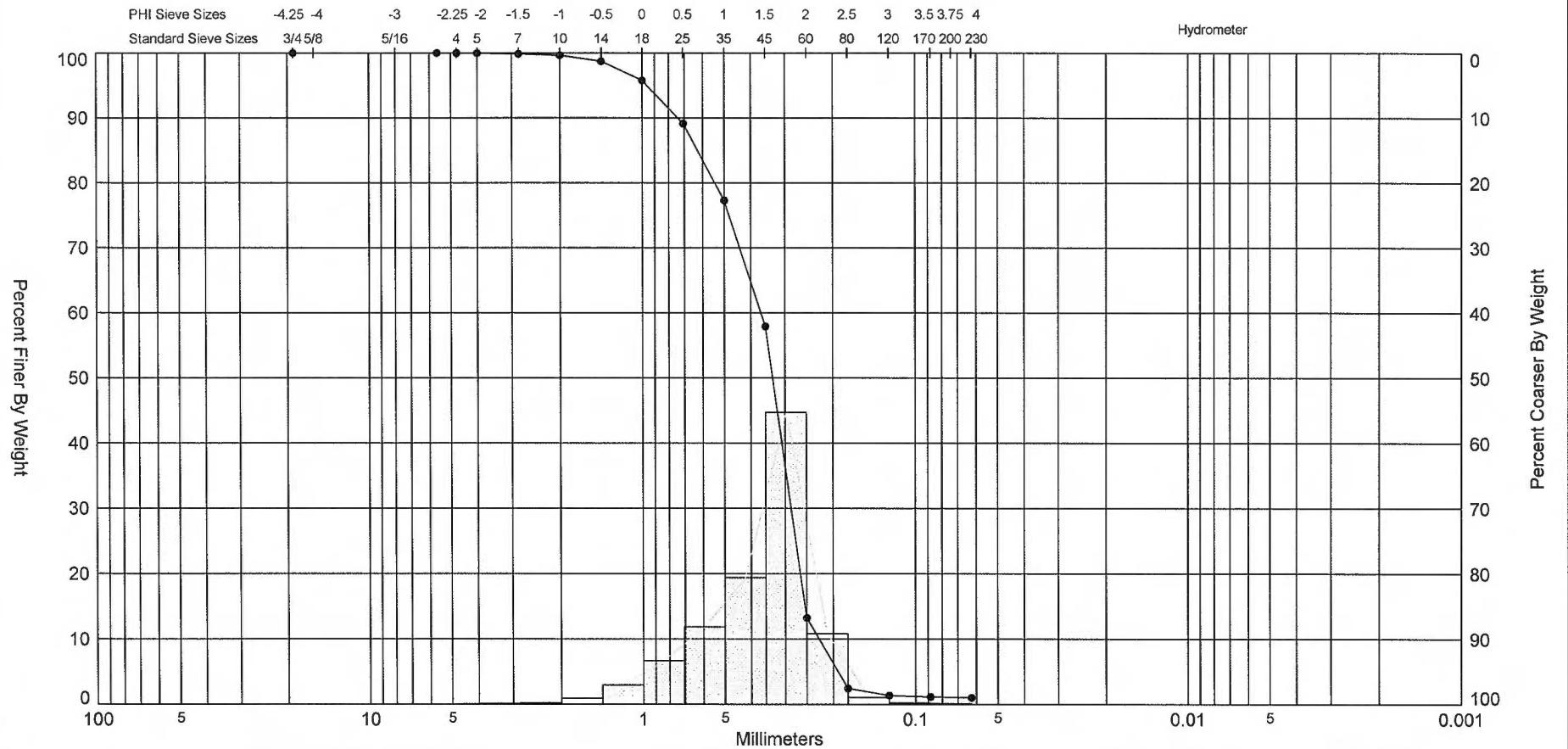
SIEVE ANALYSIS - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-15B PCC #S-1 (13')	—●—	-54.9	SP	#230 - 0.31			2.12	2.13	0.22	3.51	0.57	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% moisture. Sample after calcium carbonate.												Analysis Date:	02-23-10
Depths and elevations based on measured values												Analyzed By:	ML
							American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444					Easting (X, ft):	966633.
												Northing (Y, ft):	974483.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

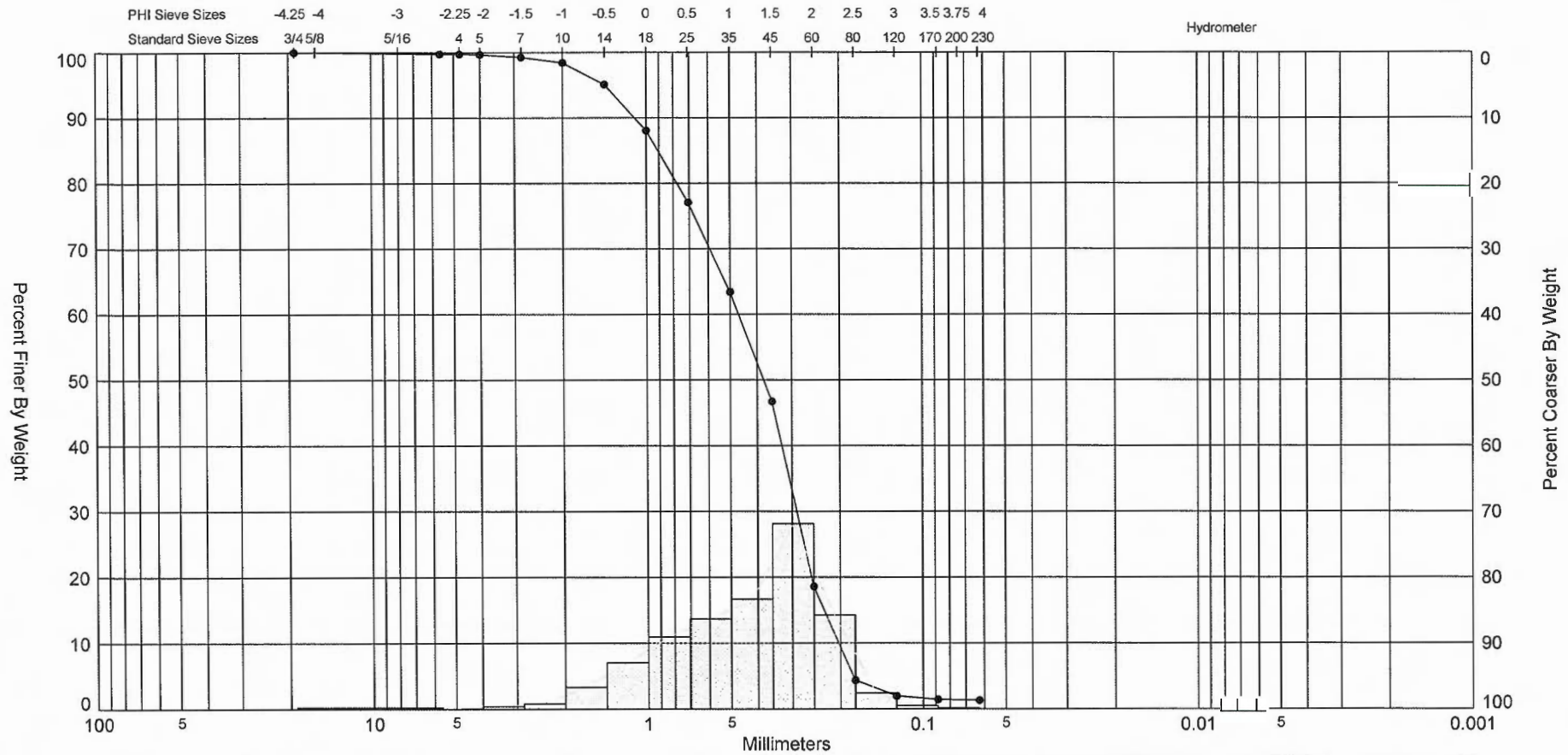
SIEVE ANALYSIS - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-16 #S-1 (1.0')	—●—	-42.3	SP	#230 - 1.00			1.59	1.41	-1.01	4.65	0.68	Project Name:	Jupiter Island 10
Comments: 10 YR 5/1 Munsell @ 10% Moisture												Analysis Date:	04-21-10
Depths and elevations based on measured values												Analyzed By:	ML
							American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444					Easting (X, ft):	968035.
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												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

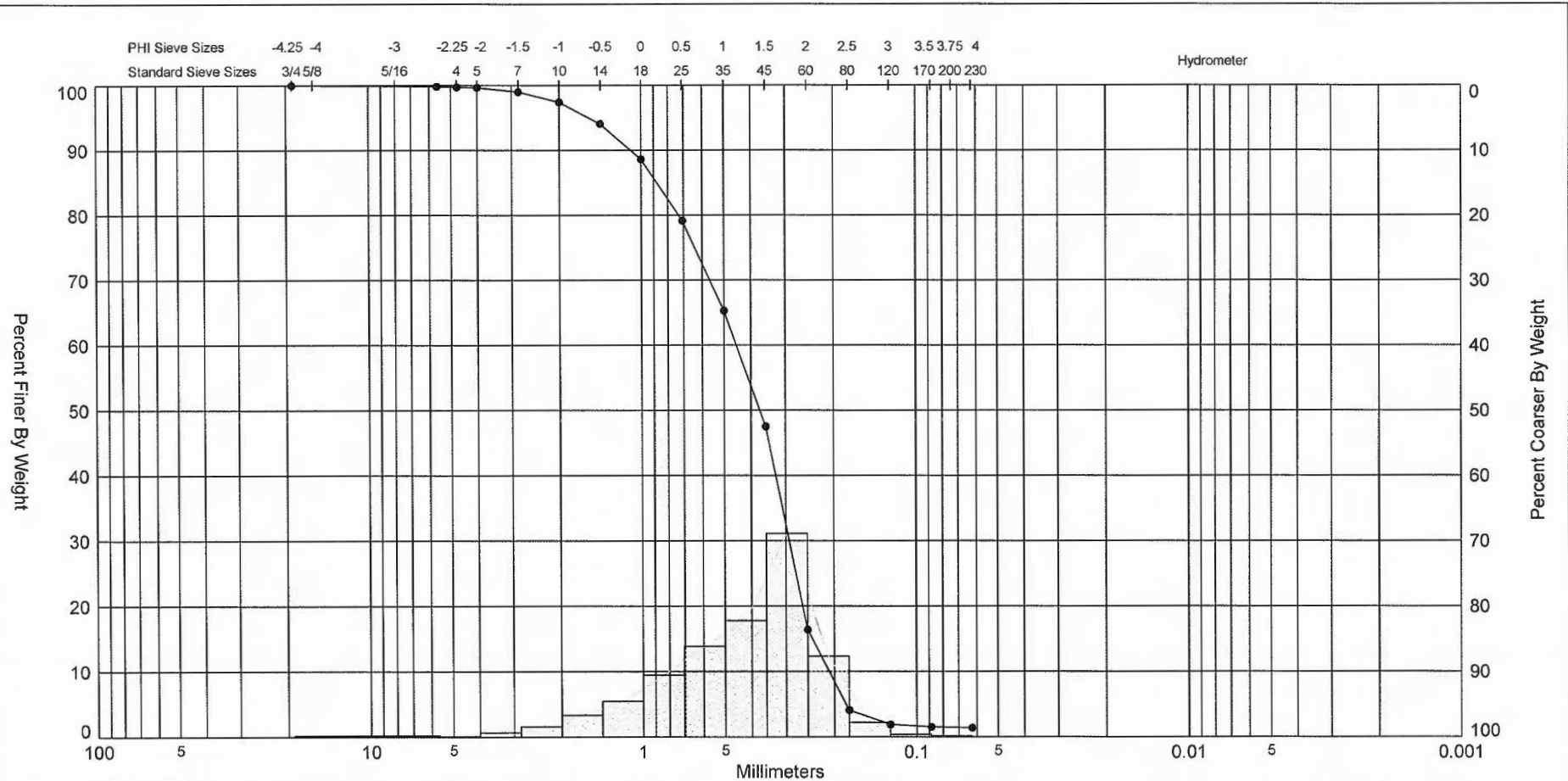
SIEVE ANALYSIS, JUPITER ISLAND 10.GPJ, FL DEP ROSS.GDT, 6/26/10



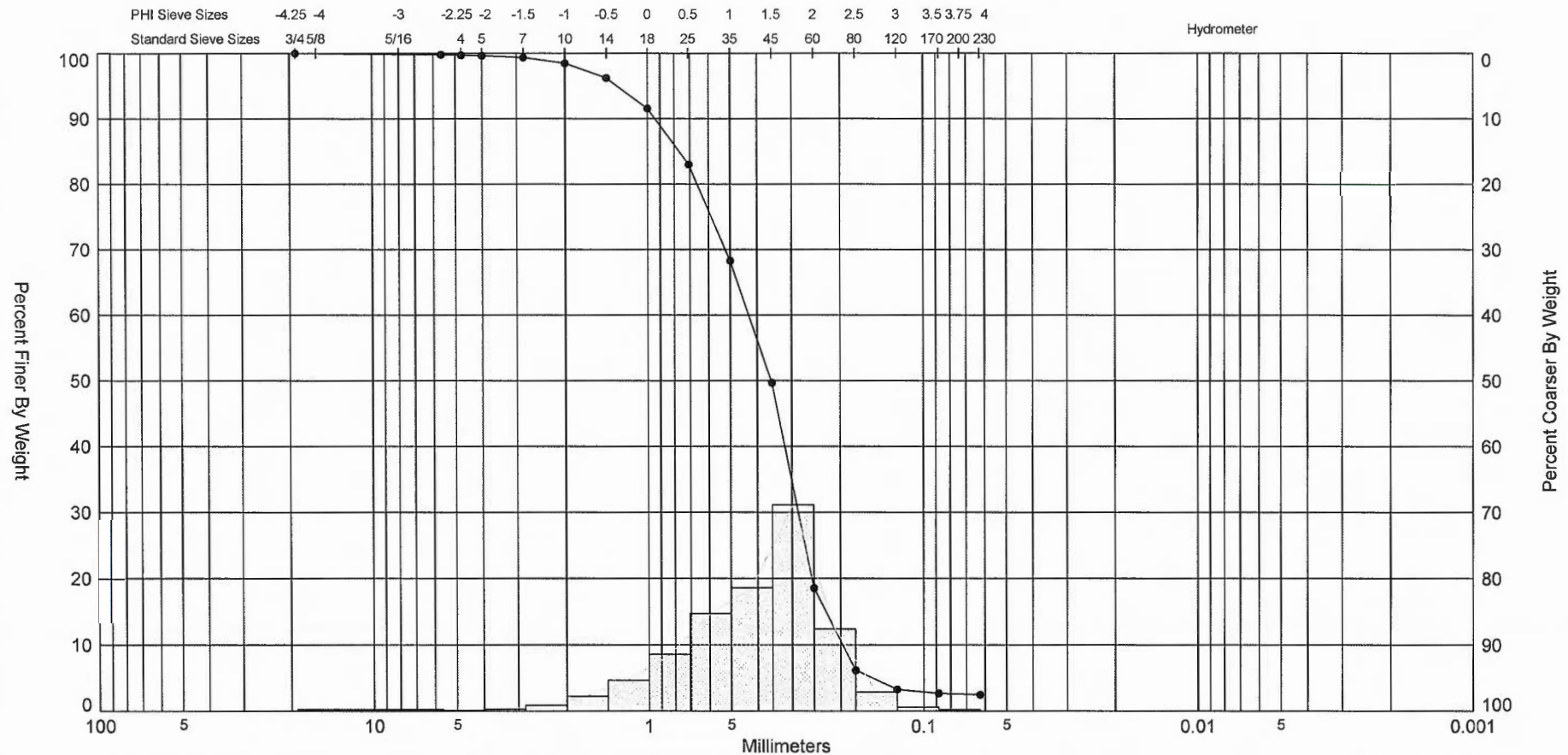
Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-16 #S-2 (5.0')	—●—	-46.3	SW	#230 - 1.29		73.50	1.4	1.18	-0.78	3.94	0.94	Project Name:	Jupiter Island 10
Comments: 10 YR 5/1 Munsell @ 10% Moisture												Analysis Date:	04-24-10
Depths and elevations based on measured values												Analyzed By:	JR
						American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444						Easting (X, ft):	968035.
												Northing (Y, ft):	975002.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88


SIEVE ANALYSIS - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10



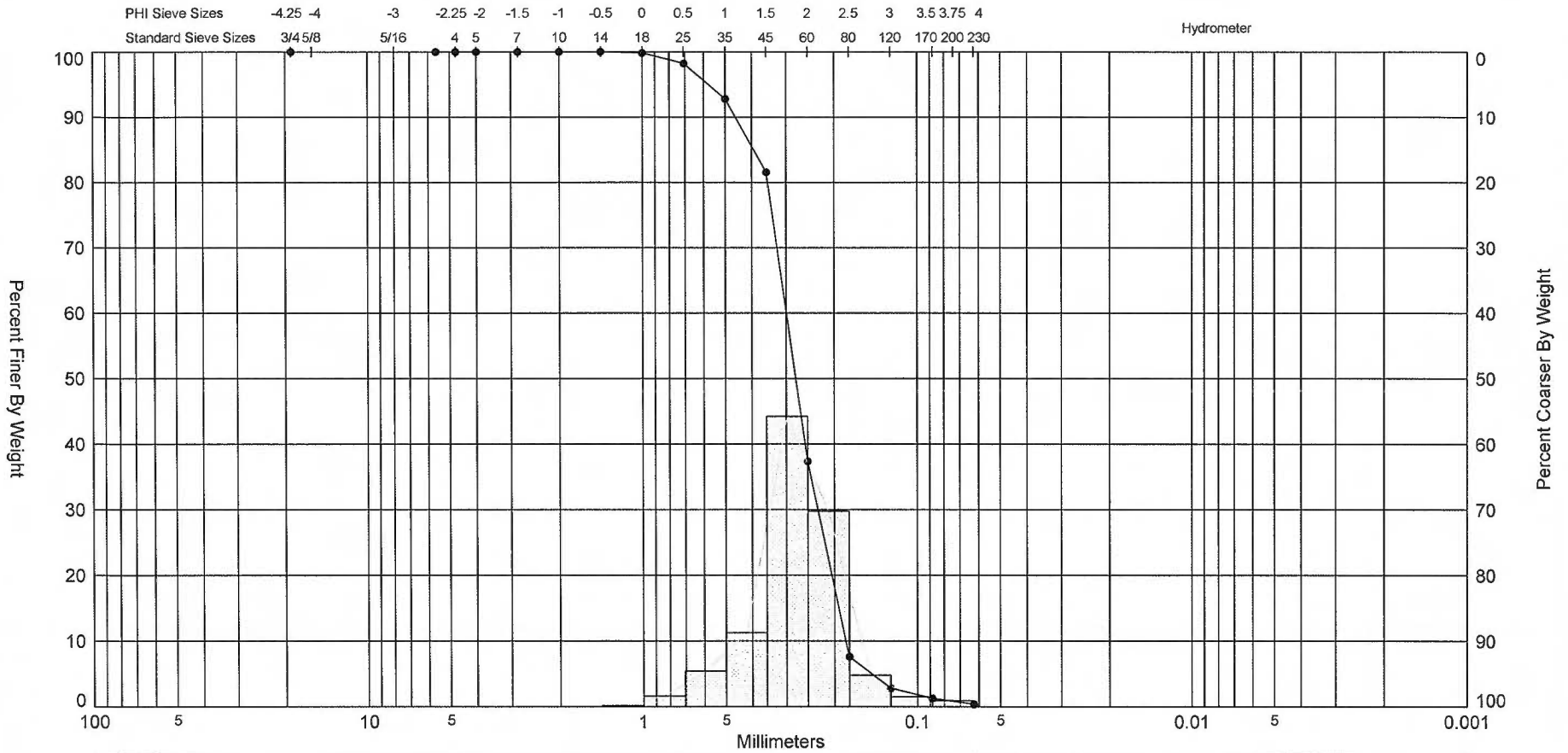
SIEVE ANALYSIS, JUPITER ISLAND 10.GPJ, FL DEP ROSS.GDT, 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
JI-16 #S-4 (11.0')	—●—	-52.3	SW	#230 - 2.46		67.60	1.49	1.27	-0.95	5.03	0.89	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% Moisture												Analysis Date:	04-16-10
Depths and elevations based on measured values												Analyzed By:	ML
 <div style="text-align: center;"> <p>American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444</p> </div>												Easting (X, ft):	968035.
												Northing (Y, ft):	975002.
												Horizontal System:	NAD 1983
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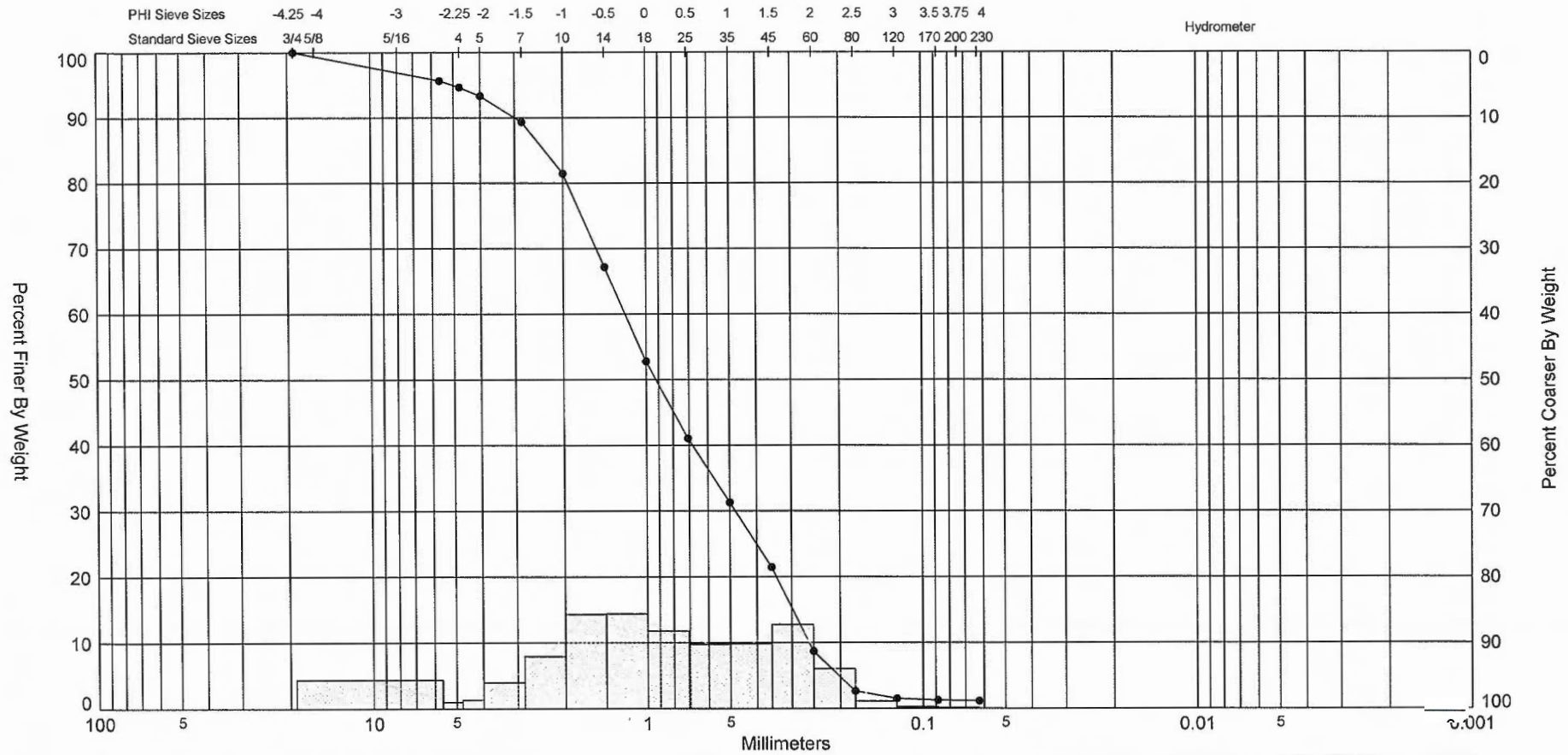
SIEVE ANALYSIS: JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-16 PCC #S-1 (5')	—●—	-46.3	SP	#230 - 0.36			1.86	1.85	-0.13	4.7	0.56	Project Name:	Jupiter Island 10
Comments: 10 YR 5/1 Munsell @ 10% moisture											Analysis Date:	05-19-10	
Depths and elevations based on measured values											Analyzed By:	ML	
							American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444					Easting (X, ft):	968035.
												Northing (Y, ft):	975002.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

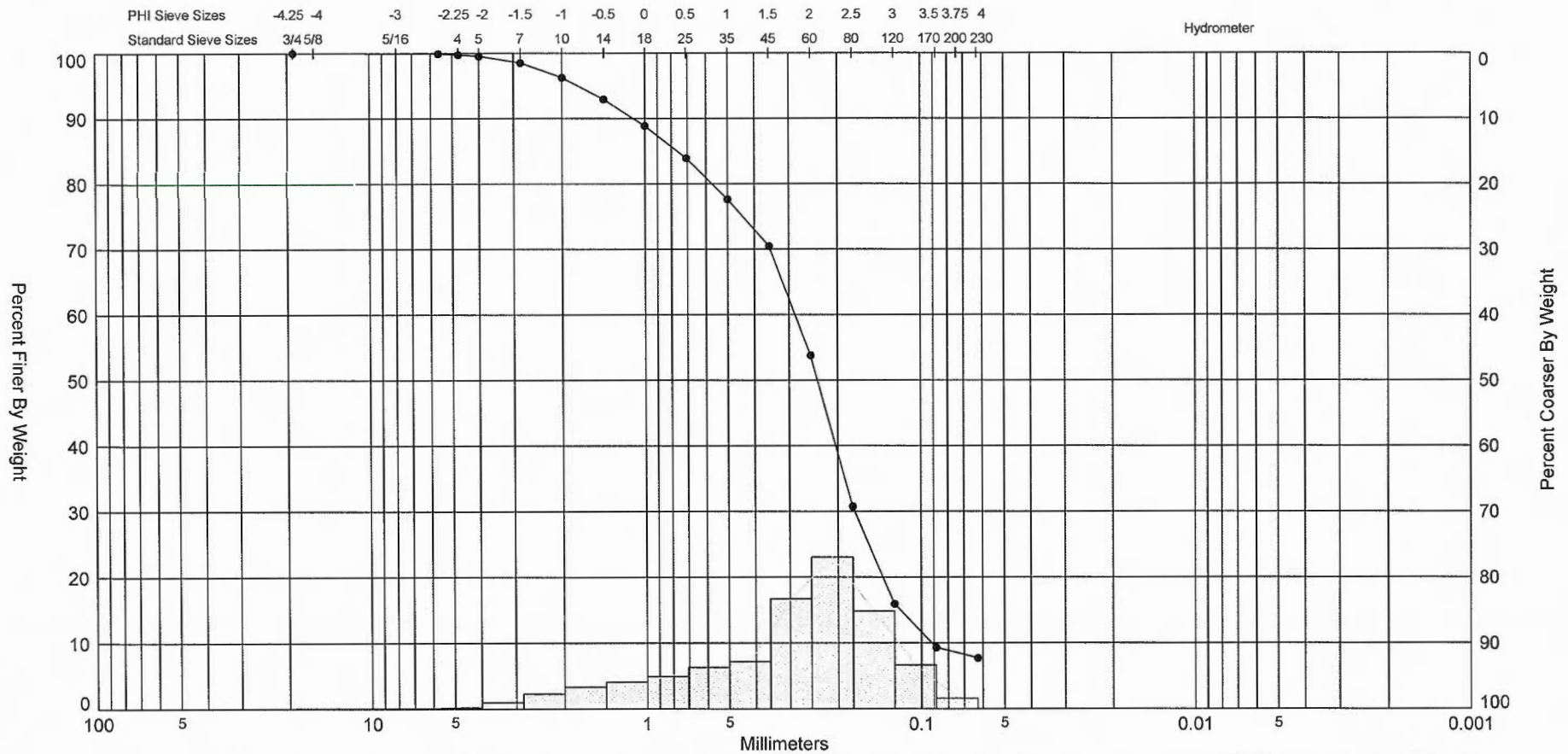
SIEVE ANALYSIS, JUPITER ISLAND 10.GPJ, FL DEP ROSS.GDT, 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-18 #S-2 (5.2')	—●—	-49.6	SW	#230 - 1.12		84.20	0.12	0.12	-0.39	2.88	1.41	Project Name:	Jupiter Island 10
Comments: 10 YR 5/1 Munsell @ 10% Moisture												Analysis Date:	04-23-10
Depths and elevations based on measured values												Analyzed By:	ML
						American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444						Easting (X, ft):	966446.
												Northing (Y, ft):	973427.
												Horizontal System:	NAD 1983
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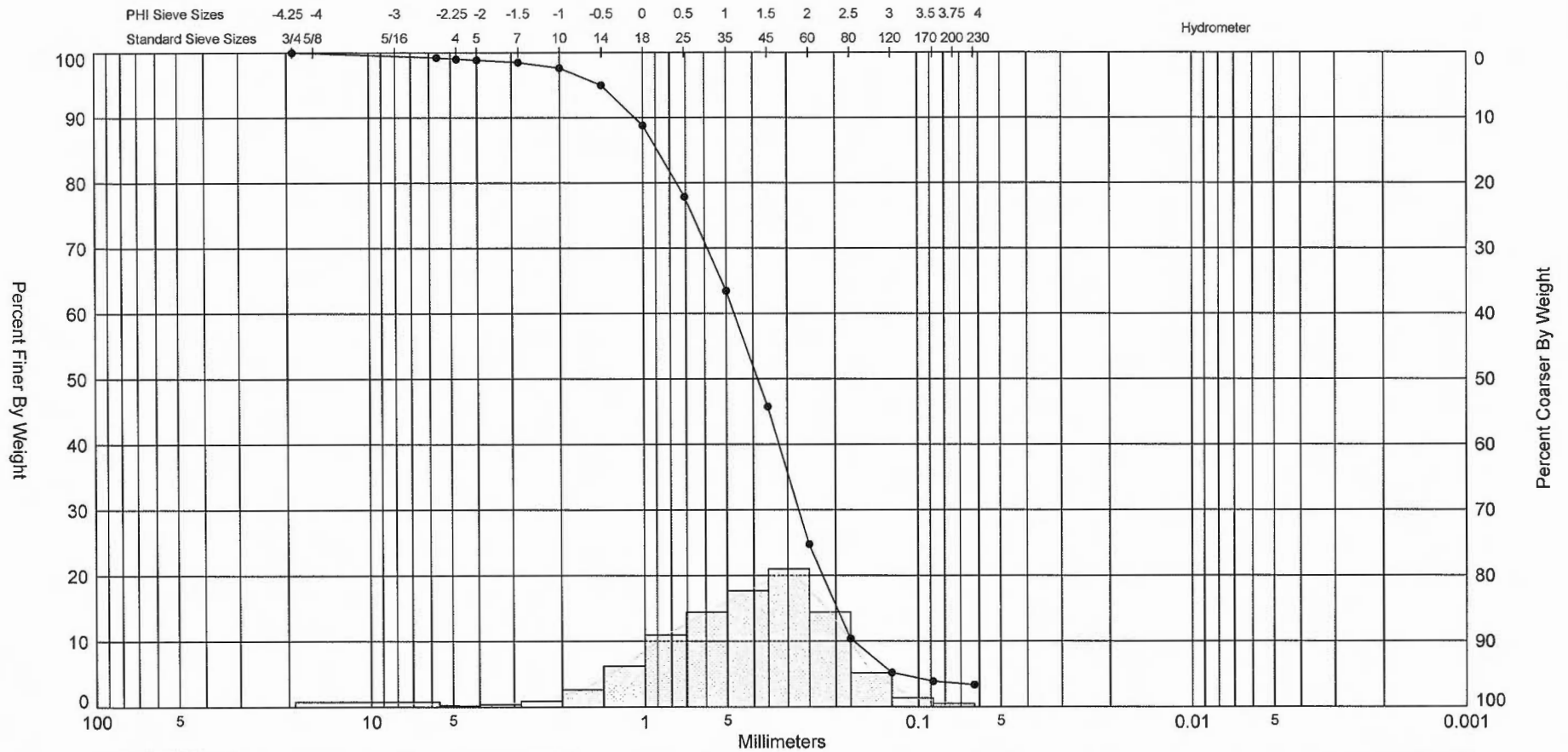
SIEVE ANALYSIS - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-18 #S-3 (9.5')	—●—	-53.9	SW-SM	#230 - 7.69		67.90	2.08	1.68	-0.98	3.58	1.23	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% Moisture												Analysis Date:	04-16-10
Depths and elevations based on measured values												Analyzed By:	ML
 American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444												Easting (X, ft):	966446.
												Northing (Y, ft):	973427.
												Horizontal System:	NAD 1983
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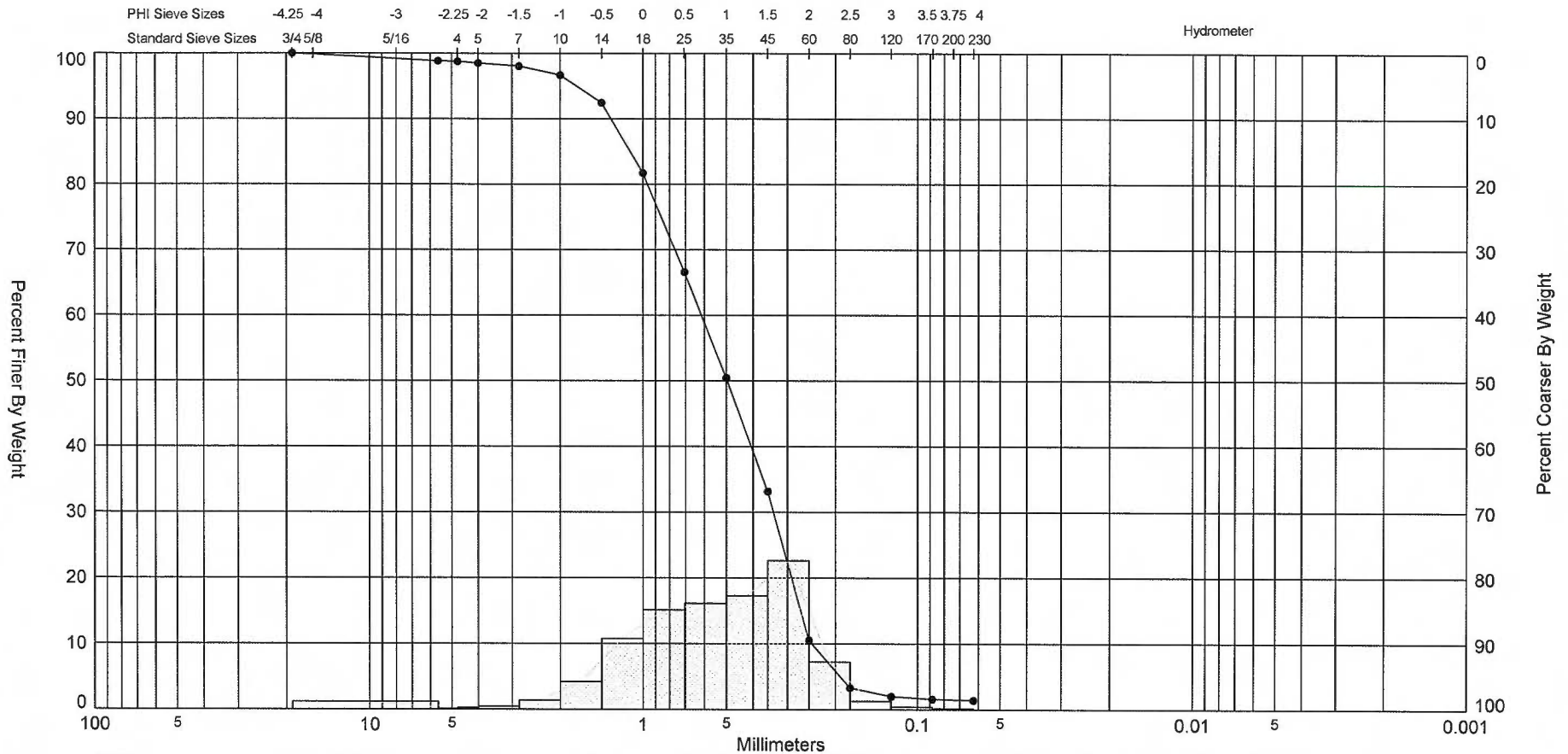
SIEVE ANALYSIS - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-18 #S-4 (12')	—●—	-56.4	SW	#230 - 3.35			1.38	1.21	-0.9	5.12	1.06	Project Name:	Jupiter Island 10
Comments: 10 YR 5/1 Munsell @ 10% Moisture												Analysis Date:	04-21-10
Depths and elevations based on measured values												Analyzed By:	JR
 <div style="text-align: center;"> <p>American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444</p> </div>												Easting (X, ft):	966446.
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												Horizontal System:	NAD 1983
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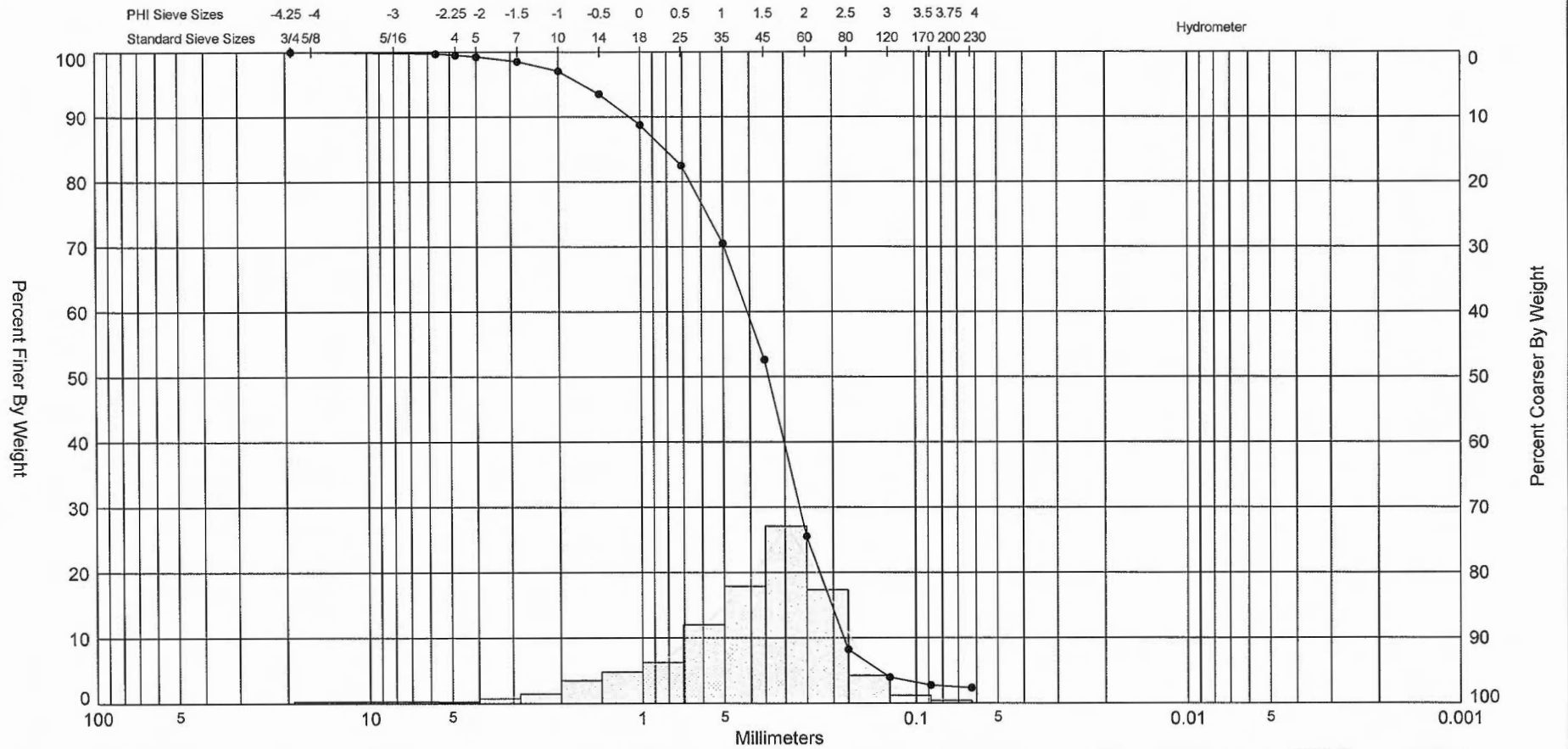
SIEVE ANALYSIS - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
JI-19 #S-1 (1')	—●—	-50.0	SW	#230 - 1.40		77.00	1.01	0.87	-0.94	5.13	1.04	Project Name:	Jupiter Island 10
Comments: 10 YR 5/1 Munsell @ 10% Moisture												Analysis Date:	04-21-10
Depths and elevations based on measured values												Analyzed By:	ML
 <div style="text-align: center;"> <p>American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FI 33444</p> </div>												Easting (X, ft):	967398.
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												Horizontal System:	NAD 1983
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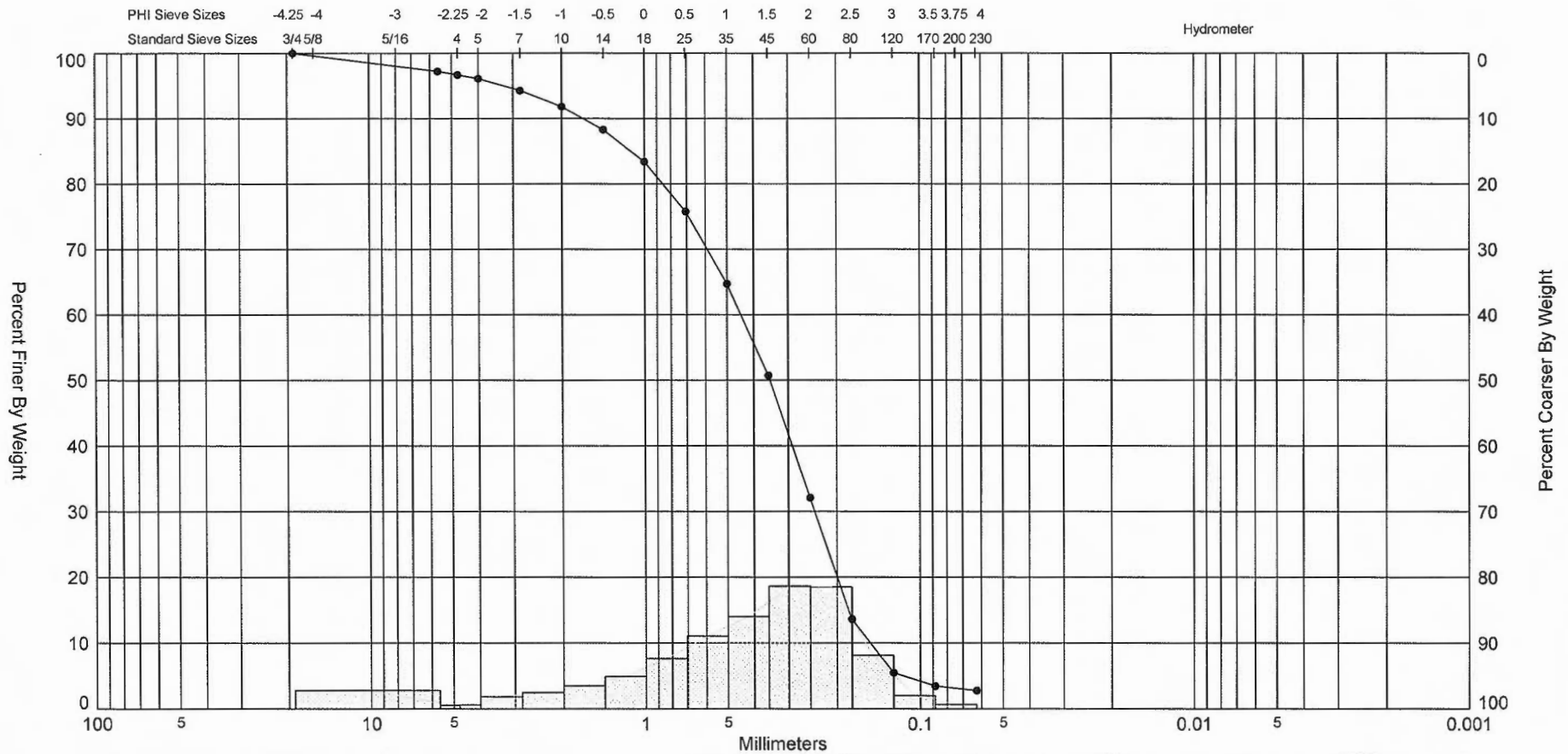
SIEVE ANALYSIS: JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-19 #S-2 (7')	—●—	-56.0	SW	#230 - 2.35			1.55	1.3	-1.05	4.73	1.03	Project Name:	Jupiter Island 10
Comments: 10 YR 5/1 Munsell @ 10% Moisture												Analysis Date:	04-21-10
Depths and elevations based on measured values												Analyzed By:	JR
 <div style="text-align: center;"> <p>American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444</p> </div>												Easting (X, ft):	967398.
												Northing (Y, ft):	973737.
												Horizontal System:	NAD 1983
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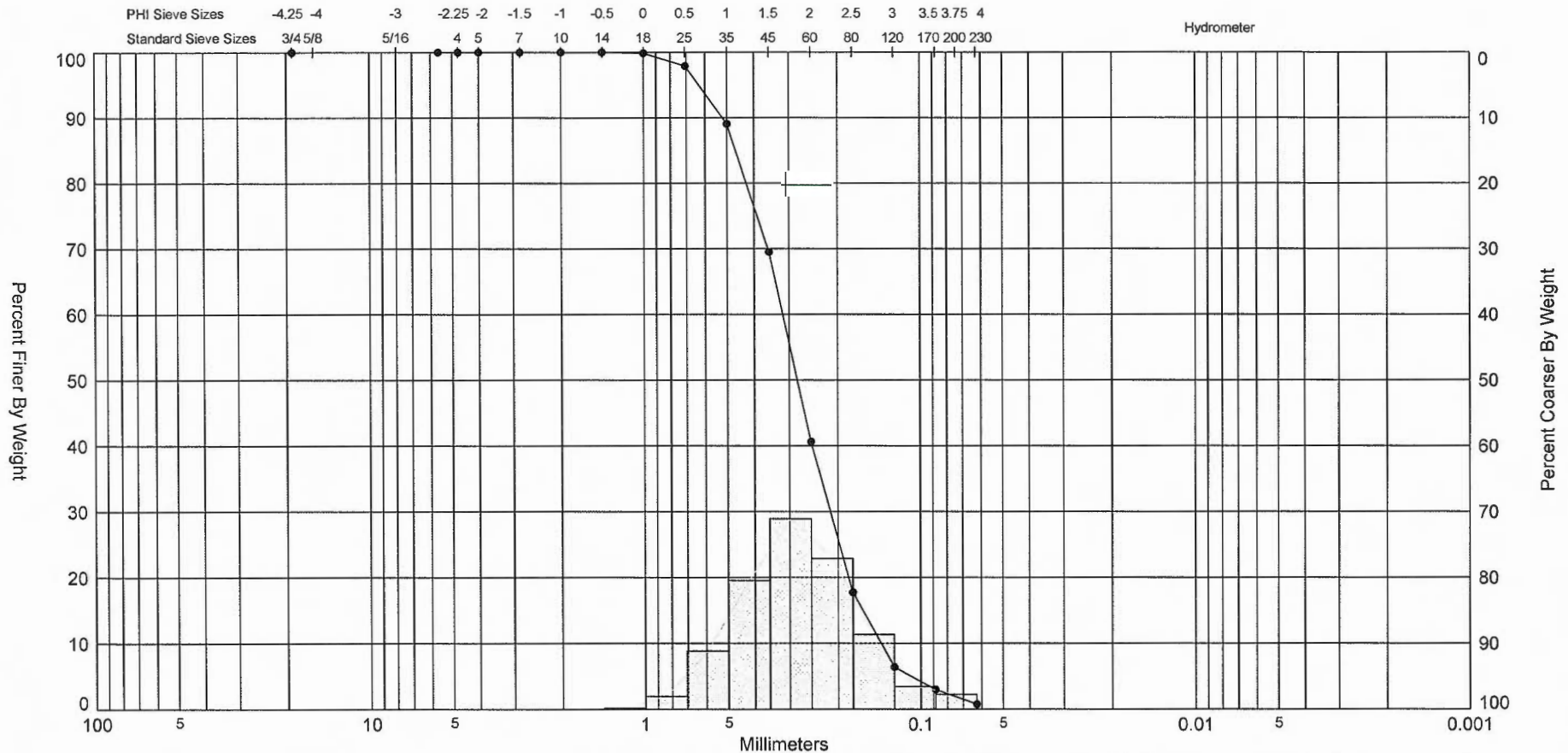
SIEVE ANALYSIS JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-19 #S-3 (10.1')	—●—	-59.1	SW	#230 - 2.77		67.60	1.52	1.14	-1.21	4.54	1.41	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% Moisture												Analysis Date:	04-23-10
Depths and elevations based on measured values												Analyzed By:	ML
 American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444												Easting (X, ft):	967398.
												Northing (Y, ft):	973737.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

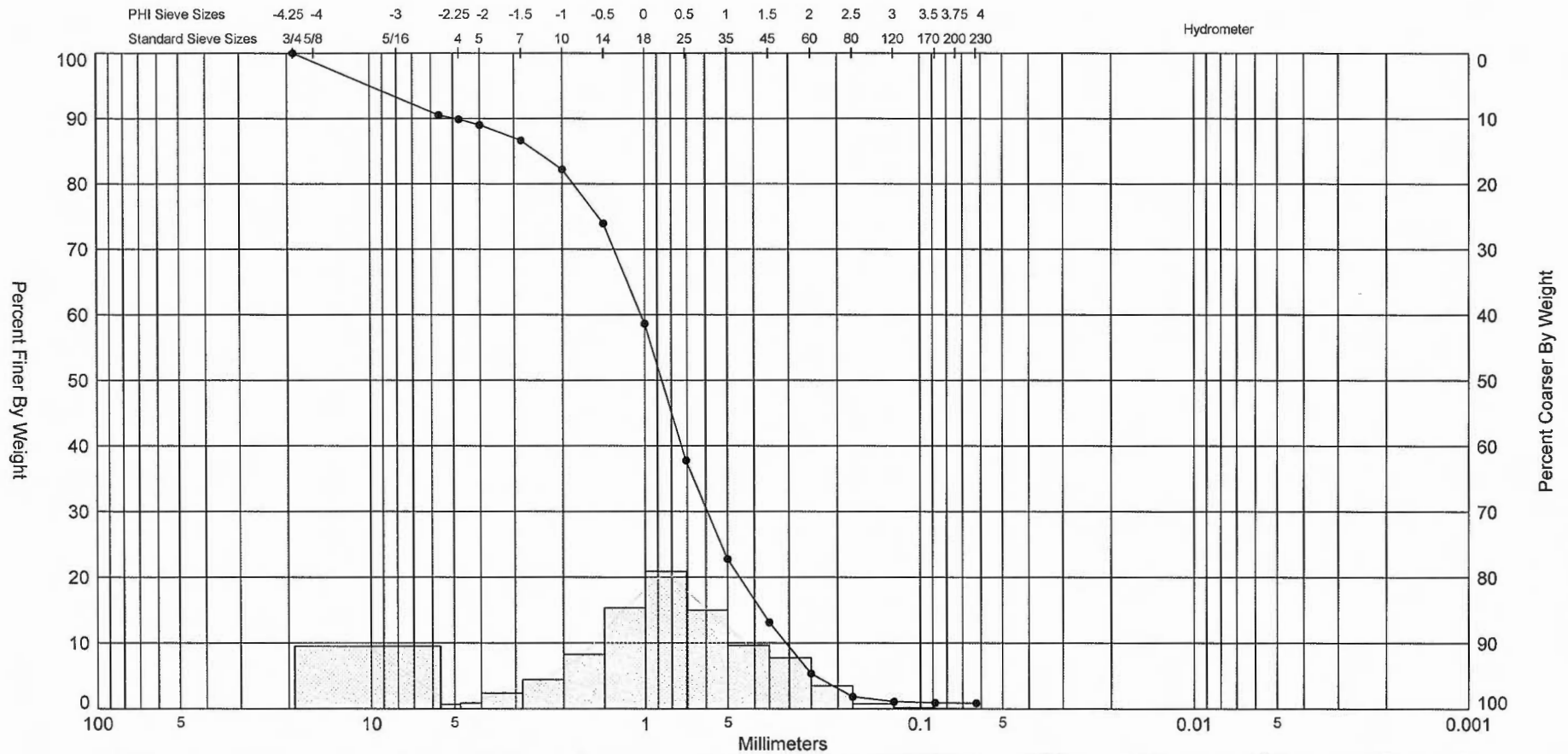
SIEVE ANALYSIS, JUPITER ISLAND 10.GPJ, FL DEP. ROSS.GDT, 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-19 PCC #S-1 (10.1')	—●—	-59.1	SP	#230 - 0.74			1.84	1.86	0.22	3.07	0.72	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% moisture. Sample after calcium carbonate.												Analysis Date:	02-23-10
Depths and elevations based on measured values												Analyzed By:	ML
 <div style="text-align: center;"> <p>American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444</p> </div>												Easting (X, ft):	967398.
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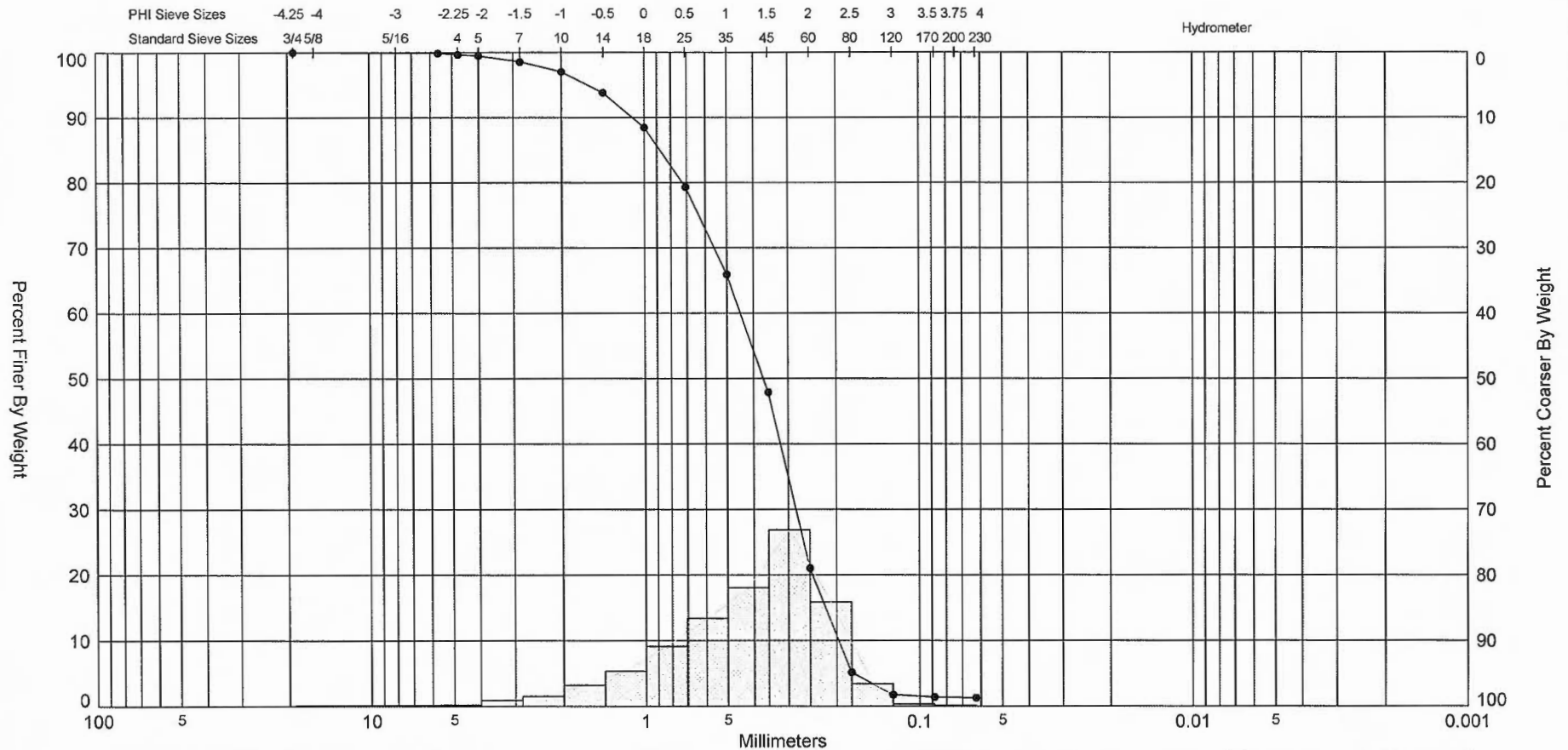
SIEVE ANALYSIS JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-21 #S-1 (1.5')	●—	-52.6	SW	#230 - 0.85			0.21	-0.02	-0.85	3.47	1.45	Project Name:	Jupiter Island 10
Comments: 10 YR 5/1 Munsell @ 10% Moisture												Analysis Date:	04-22-10
Depths and elevations based on measured values												Analyzed By:	ML
						American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444						Easting (X, ft):	966746.
												Northing (Y, ft):	972478.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

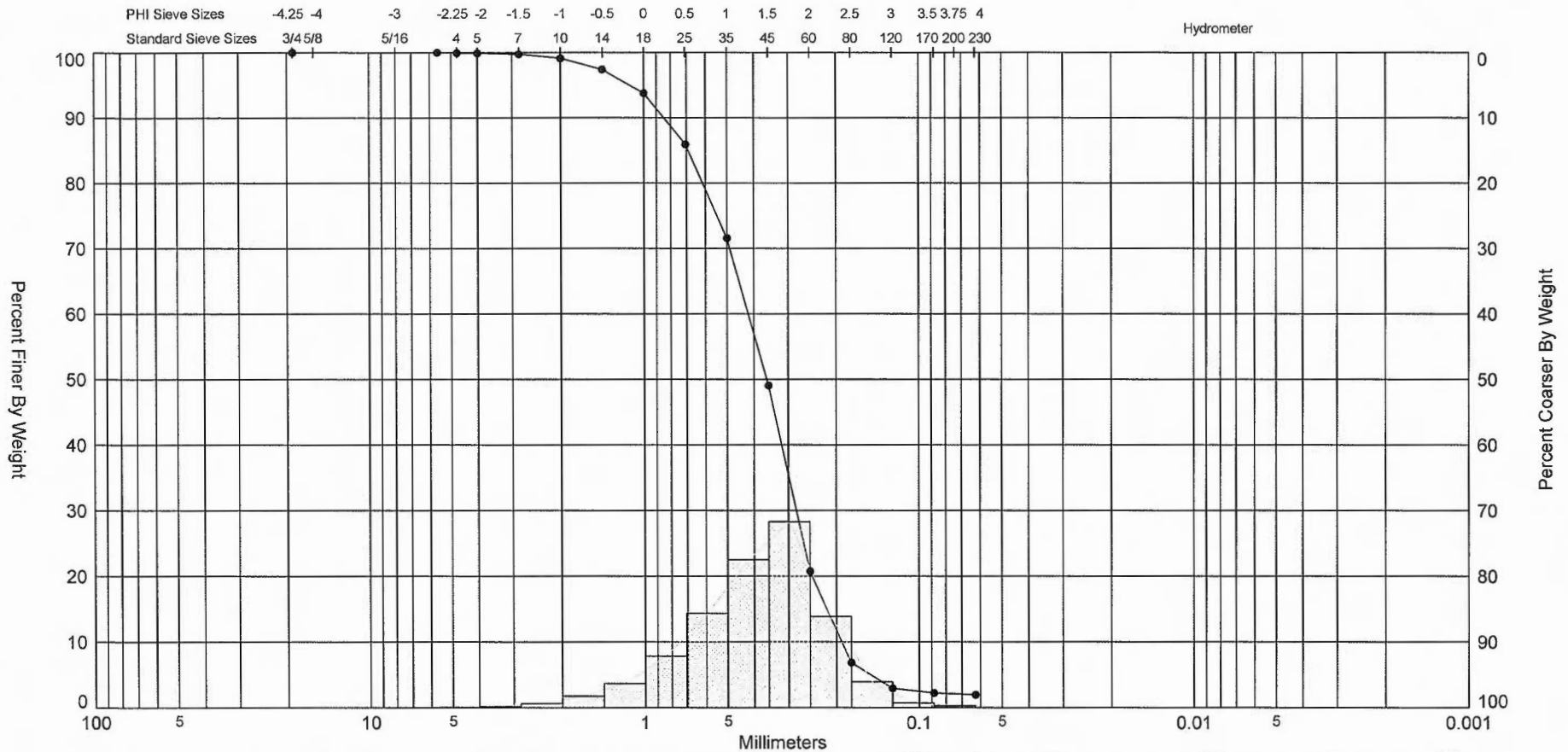
SIEVE ANALYSIS, JUPITER ISLAND 10.GPJ, FL DEP. ROSS.GDT, 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-21 #S-2 (2')	—●—	-53.1	SW	#230 - 1.27		73.40	1.44	1.21	-0.95	4.11	0.98	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% Moisture												Analysis Date:	04-23-10
Depths and elevations based on measured values												Analyzed By:	ML
 American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444												Easting (X, ft):	966746.
												Northing (Y, ft):	972478.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

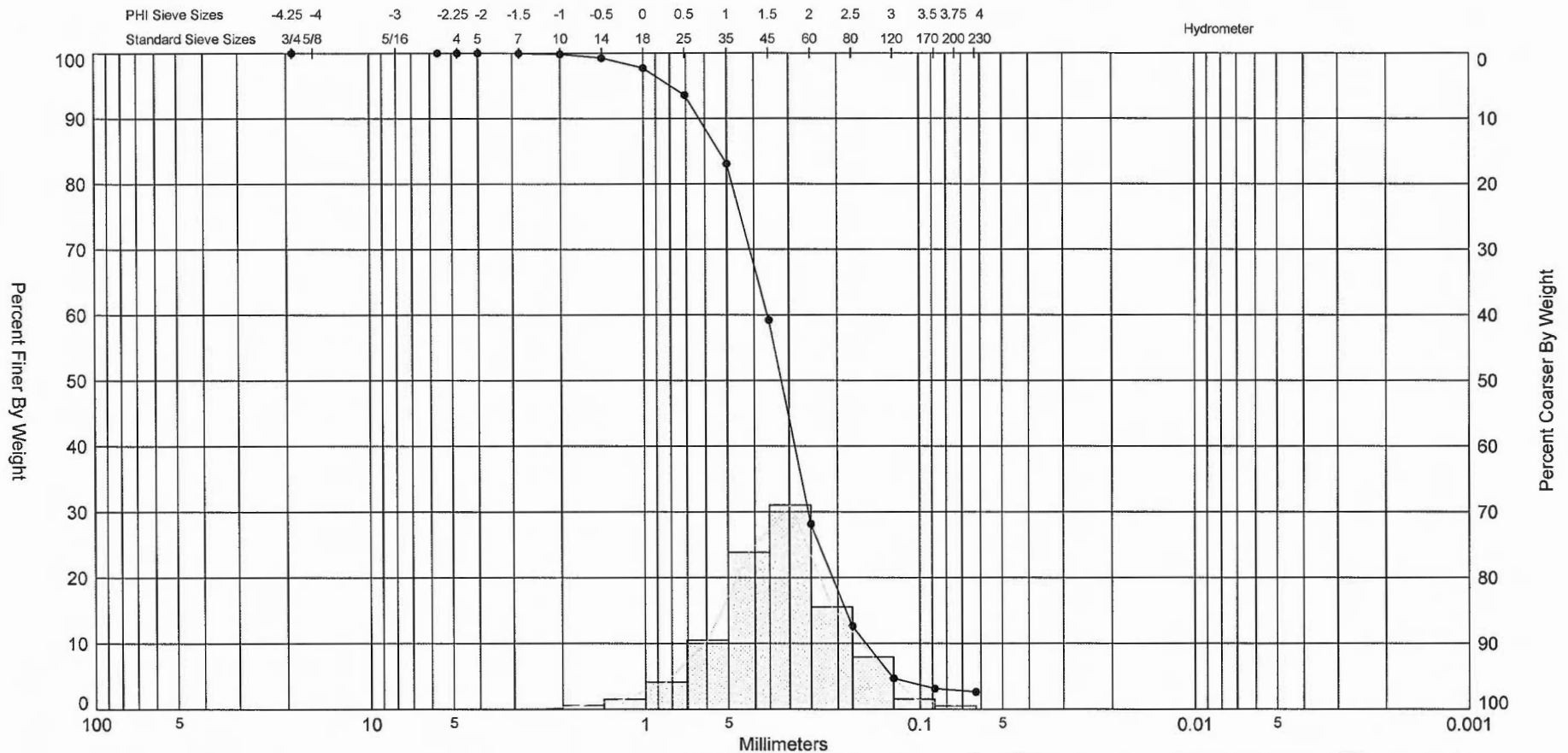
SIEVE ANALYSIS JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-21 #S-3 (7')	—●—	-58.1	SP	#230 - 1.94			1.48	1.35	-0.61	3.87	0.82	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% Moisture											Analysis Date:	04-22-10	
Depths and elevations based on measured values											Analyzed By:	ML	
							American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444					Easting (X, ft):	966746.
												Northing (Y, ft):	972478.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

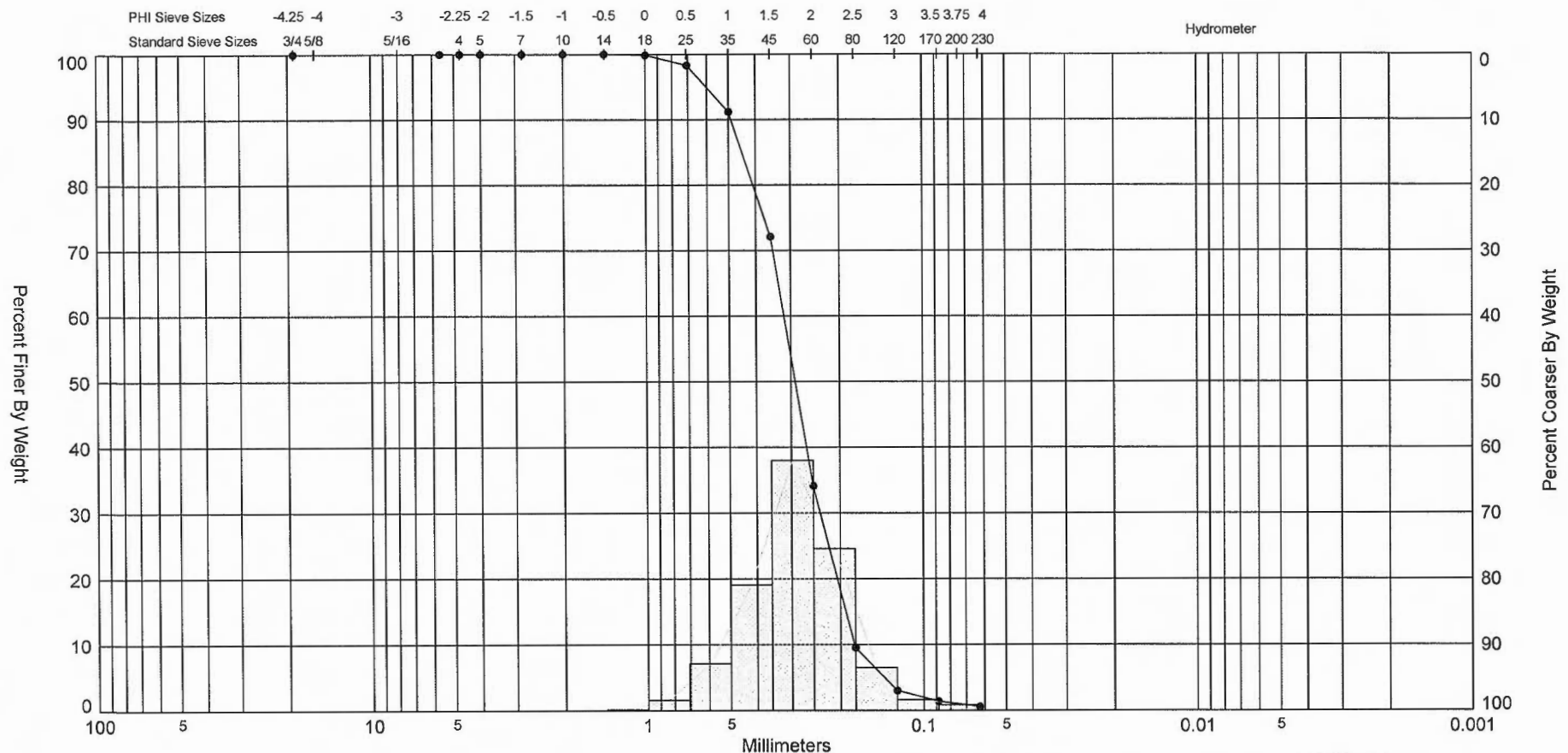
SIEVE ANALYSIS - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/25/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-21 #S-4 (14')	—●—	-65.1	SP	#230 - 2.61		65.50	1.65	1.6	-0.28	3.81	0.73	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% Moisture												Analysis Date:	04-22-10
Depths and elevations based on measured values												Analyzed By:	ML
 <div style="text-align: center;"> <p>American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444</p> </div>												Easting (X, ft):	966746.
												Northing (Y, ft):	972478.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

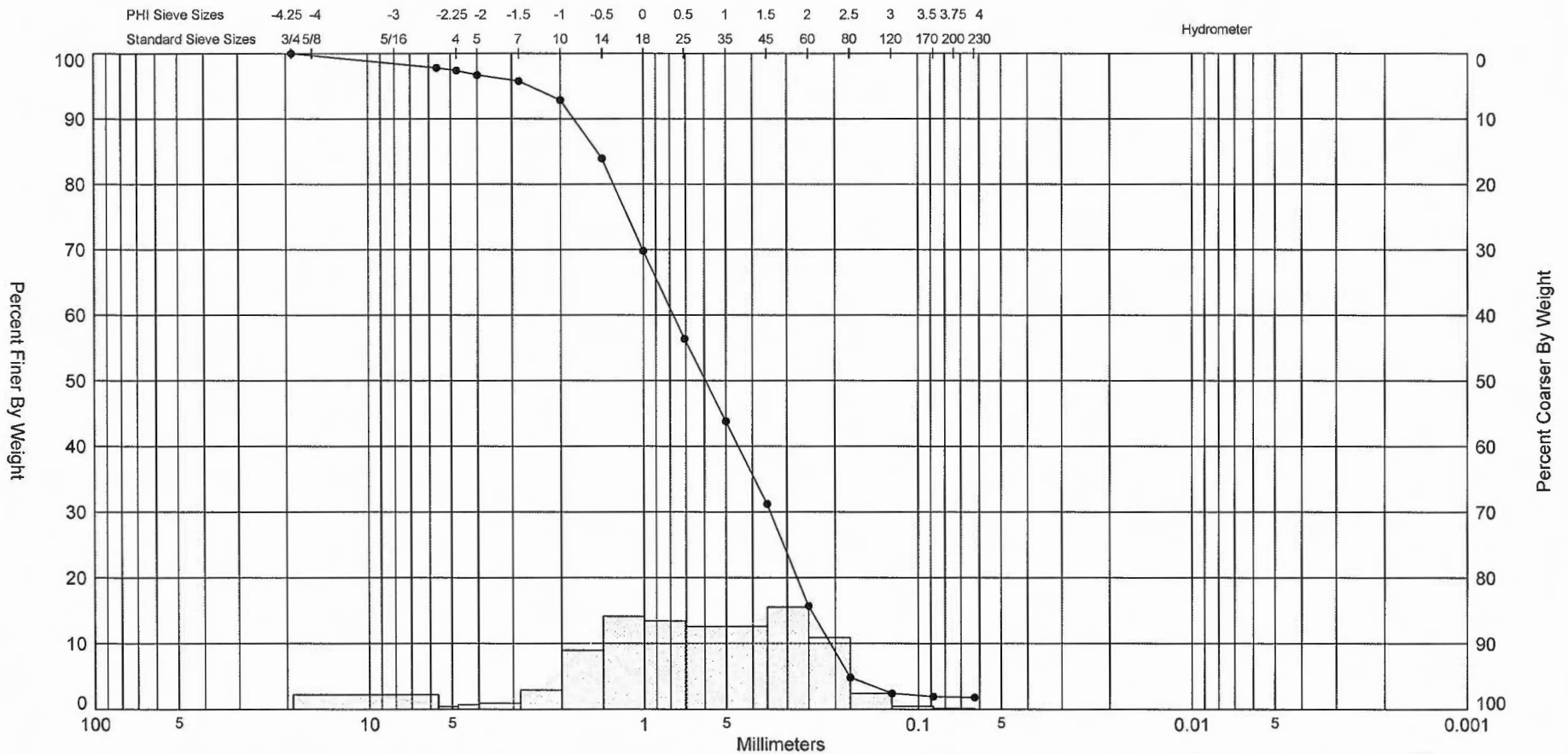
SIEVE ANALYSIS, JUPITER ISLAND 10.GPJ, FL DEP. ROSS.GDT, 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-21 PCC #S-1 (2')	—●—	-53.1	SP	#230 - 0.54			1.79	1.79	0.09	3.75	0.6	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% moisture. Sample after calcium carbonate.											Analysis Date:	02-23-10	
Depths and elevations based on measured values											Analyzed By:	ML	
 <div style="text-align: center;"> <p>American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444</p> </div>											Easting (X, ft):	966746.	
											Northing (Y, ft):	972478.	
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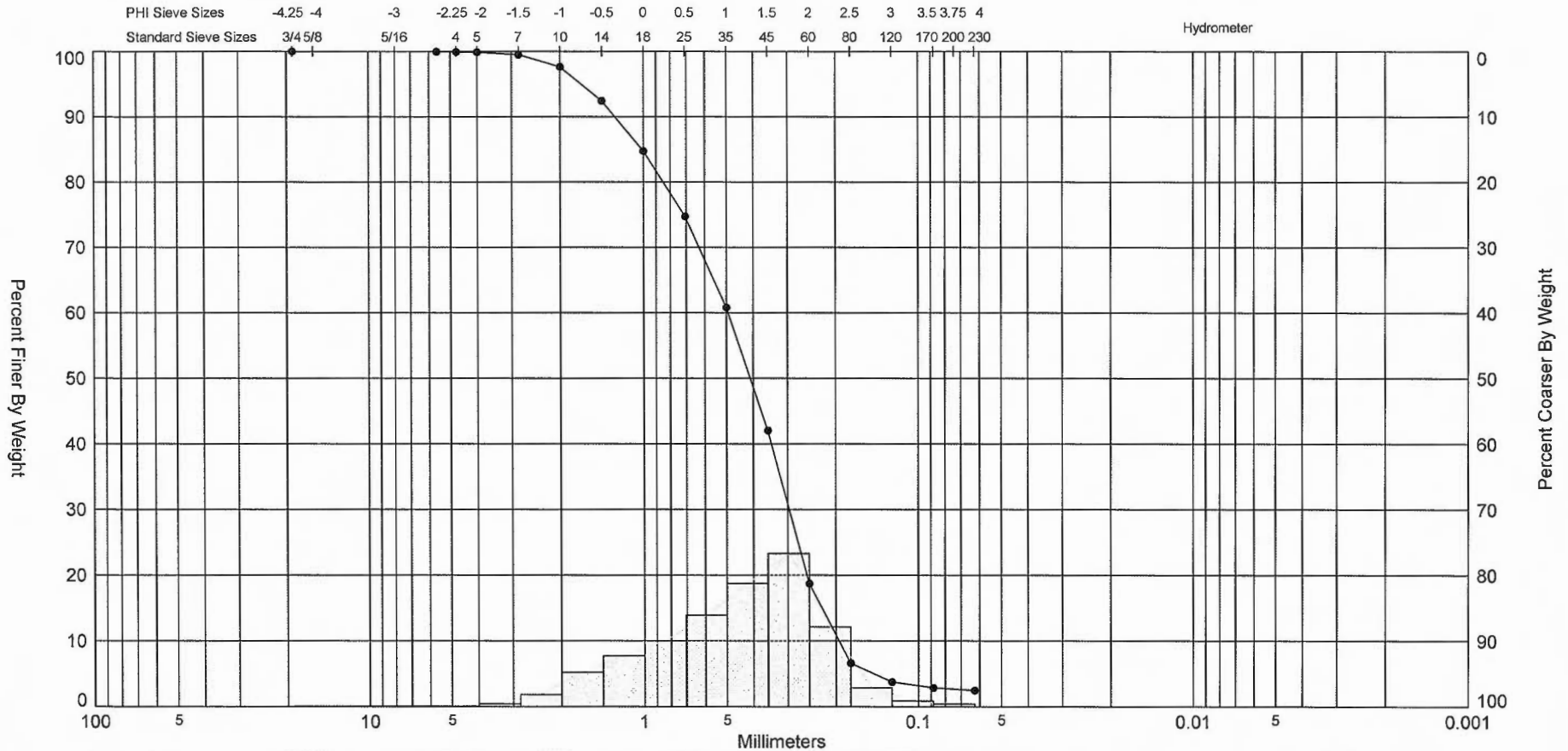
SIEVE ANALYSIS JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-24B #S-1 (2')	—●—	-53.5	SW	#230 - 1.79		74.80	0.75	0.65	-0.66	3.68	1.27	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% Moisture											Analysis Date:	04-22-10	
Depths and elevations based on measured values											Analyzed By:	ML	
							American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444					Easting (X, ft):	966375.
												Northing (Y, ft):	971336.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

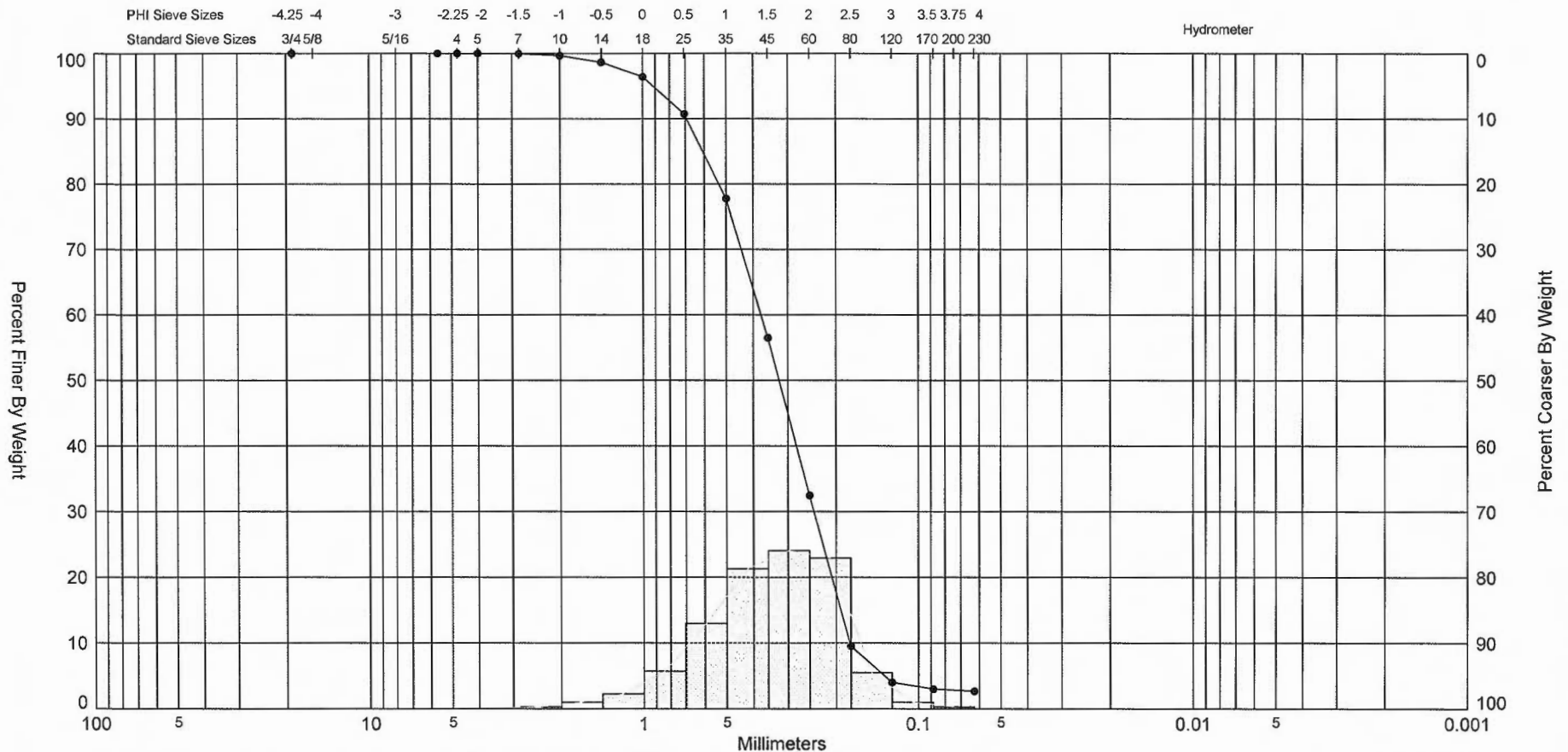
SIEVE ANALYSIS JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-24B #S-2 (6')	—●—	-57.5	SW	#230 - 2.46			1.29	1.1	-0.47	3	1	Project Name:	Jupiter Island 10
Comments: 10 YR 6/2 Munsell @ 10% Moisture												Analysis Date:	04-22-10
Depths and elevations based on measured values												Analyzed By:	ML
							American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444					Easting (X, ft):	966375.
												Northing (Y, ft):	971336.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

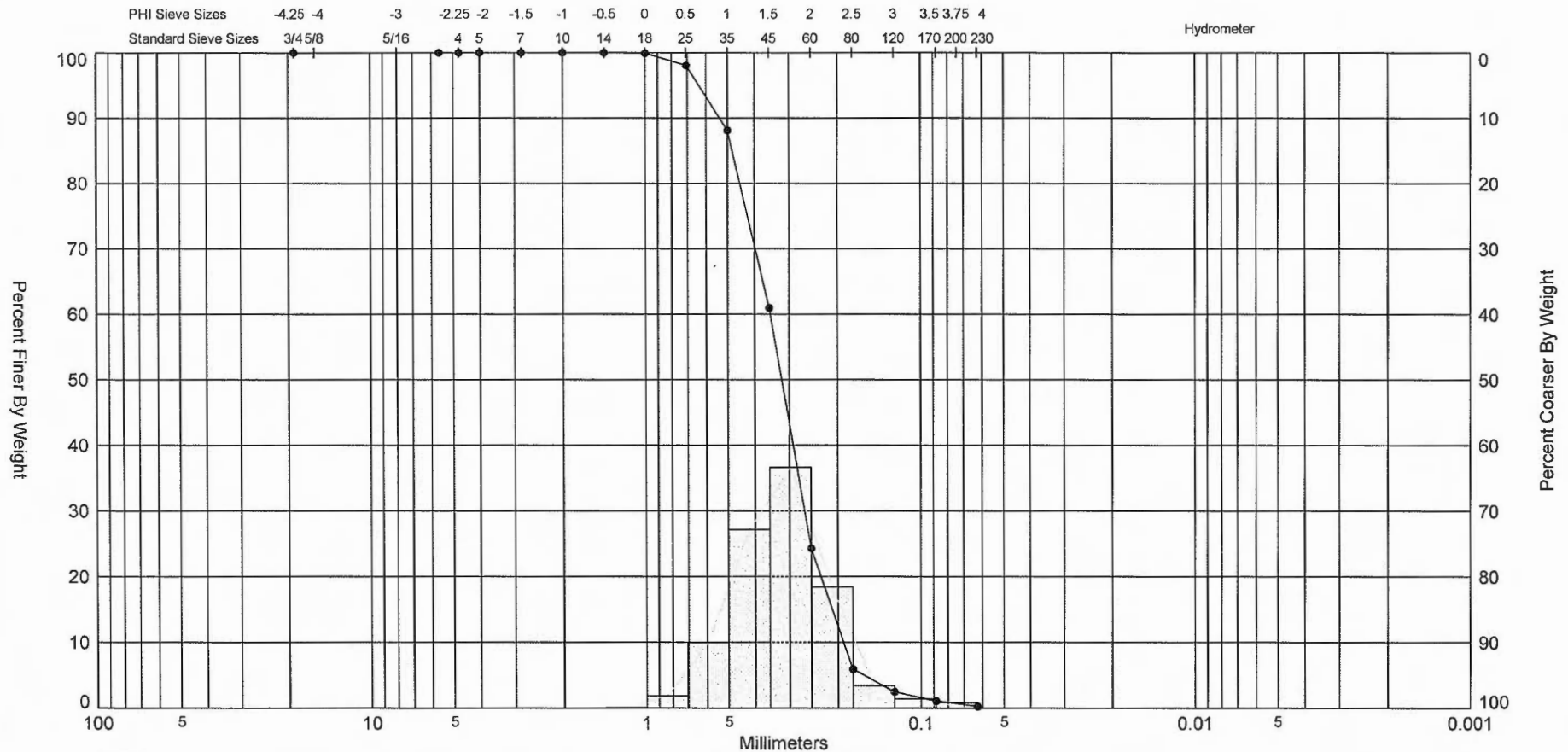
SIEVE ANALYSIS JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-24B #S-3 (8')	—●—	-59.5	SP	#230 - 2.67		67.00	1.63	1.53	-0.52	3.49	0.78	Project Name:	Jupiter Island 10
Comments: 10 YR 5/1 Munsell @ 10% Moisture												Analysis Date:	04-24-10
Depths and elevations based on measured values												Analyzed By:	JR
						American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444						Easting (X, ft):	966375.
												Northing (Y, ft):	971336.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

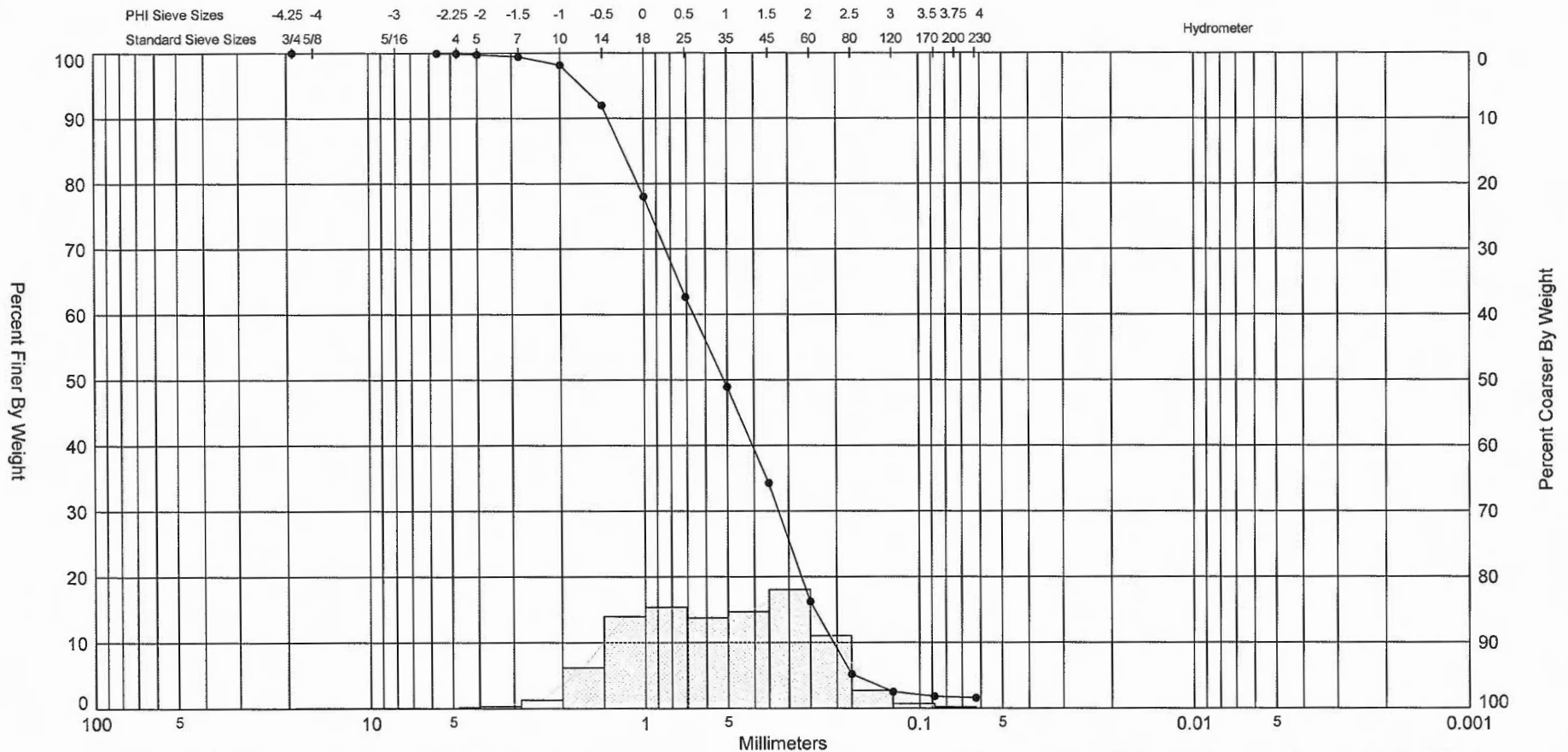
SIEVE ANALYSIS: JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-24B PCC #S-1 (8')	—●—	-59.5	SP	#230 - 0.24			1.65	1.65	0.36	3.99	0.59	Project Name:	Jupiter Island 10
Comments: 10 YR 5/1 Munsell @ 10% moisture. Sample after calcium carbonate.												Analysis Date:	02-23-10
Depths and elevations based on measured values												Analyzed By:	ML
 <div style="text-align: center;"> <p>American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444</p> </div>												Easting (X, ft):	966376.
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												Vertical System:	NAVD 88

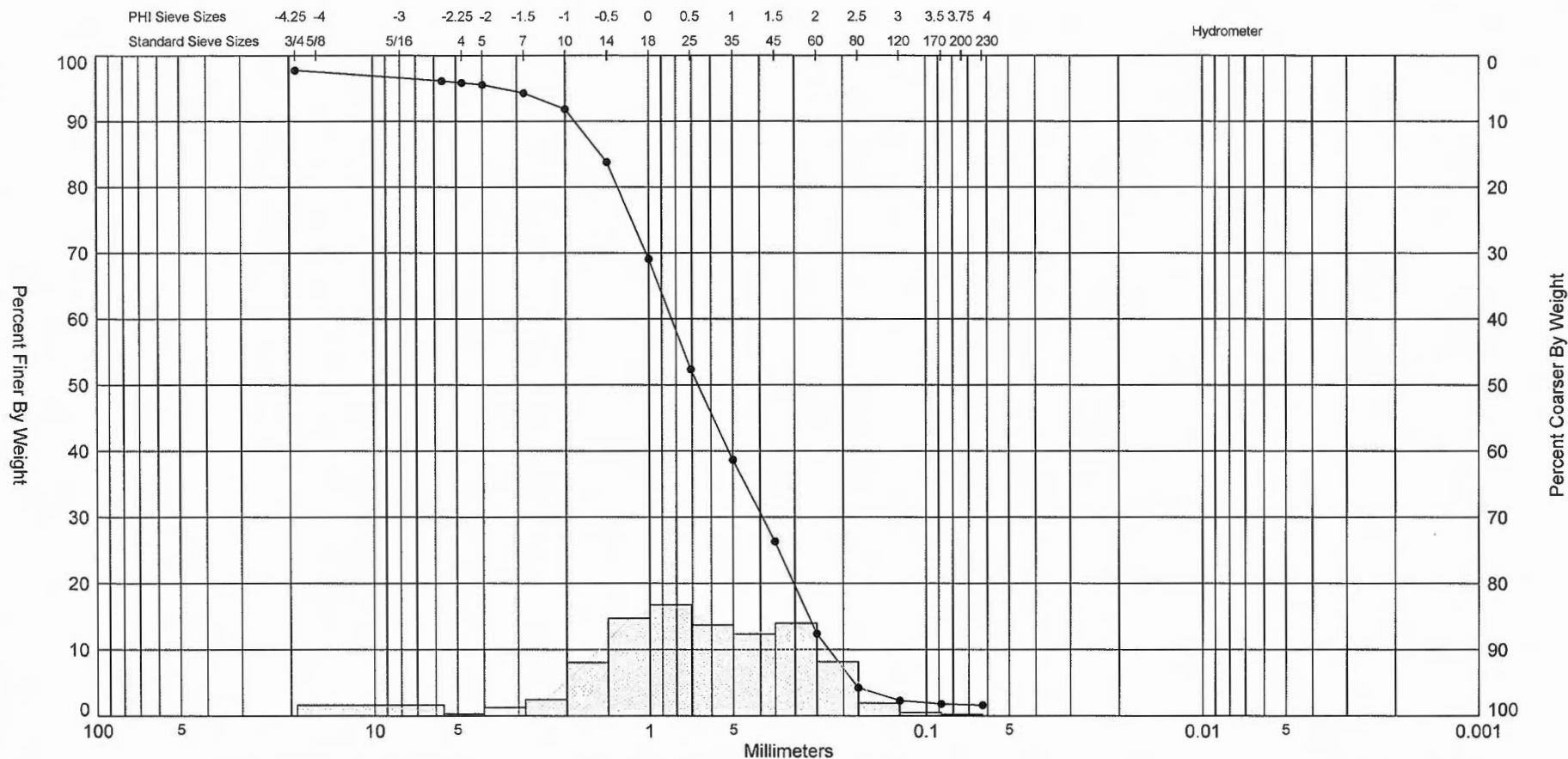
SIEVE ANALYSIS JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10



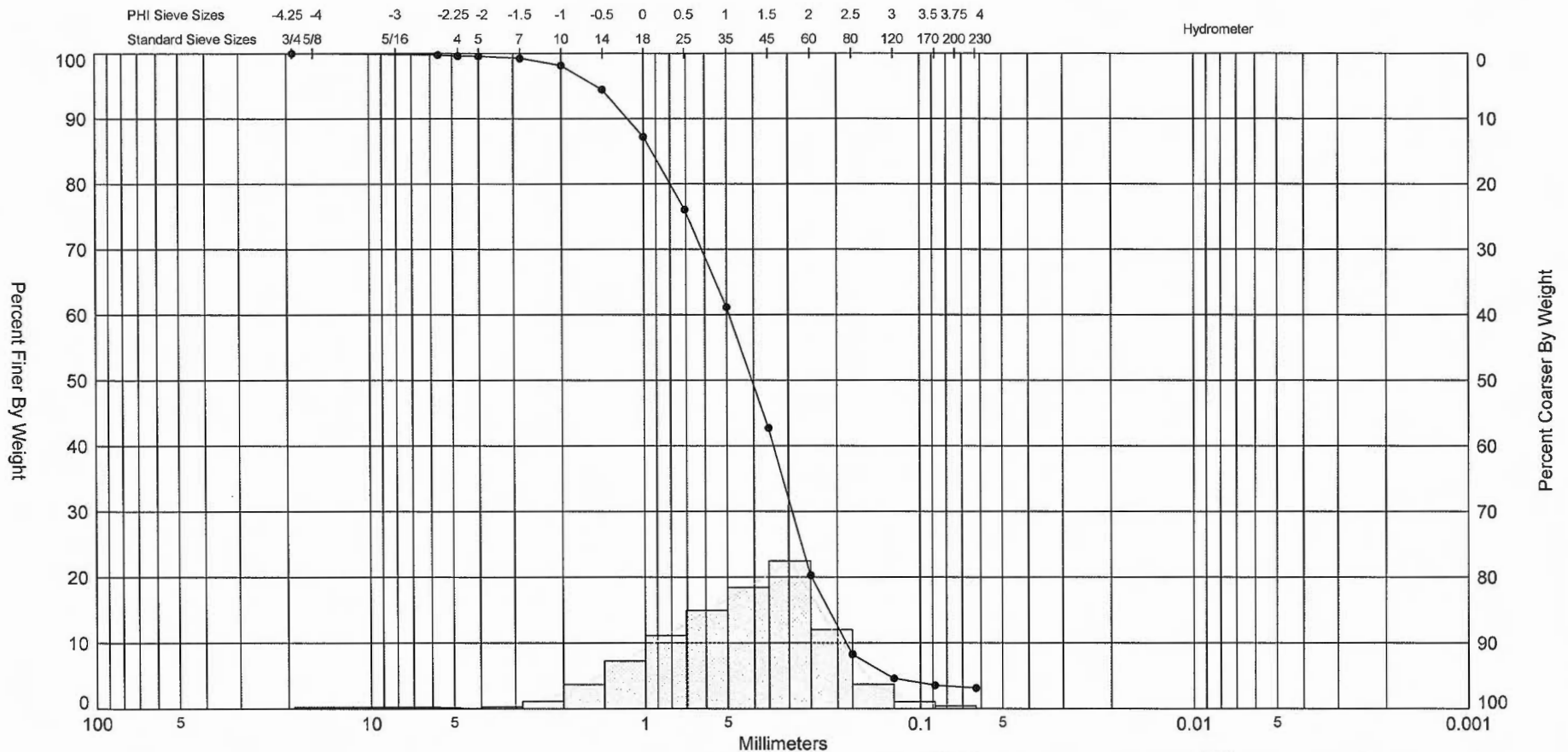
Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-25 #S-1 (2')	—●—	-53.0	SW	#230 - 1.57			0.96	0.9	-0.11	2.46	1.02	Project Name:	Jupiter Island 10
Comments: 10 YR 5/1 Munsell @ 10% Moisture												Analysis Date:	04-22-10
Depths and elevations based on measured values												Analyzed By:	ML
 <div style="text-align: center;"> <p>American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444</p> </div>												Easting (X, ft):	967057.
												Northing (Y, ft):	971535.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88


SIEVE ANALYSIS, JUPITER ISLAND 10.GPJ, FL_DEP. ROSS.GDT, 6/26/10



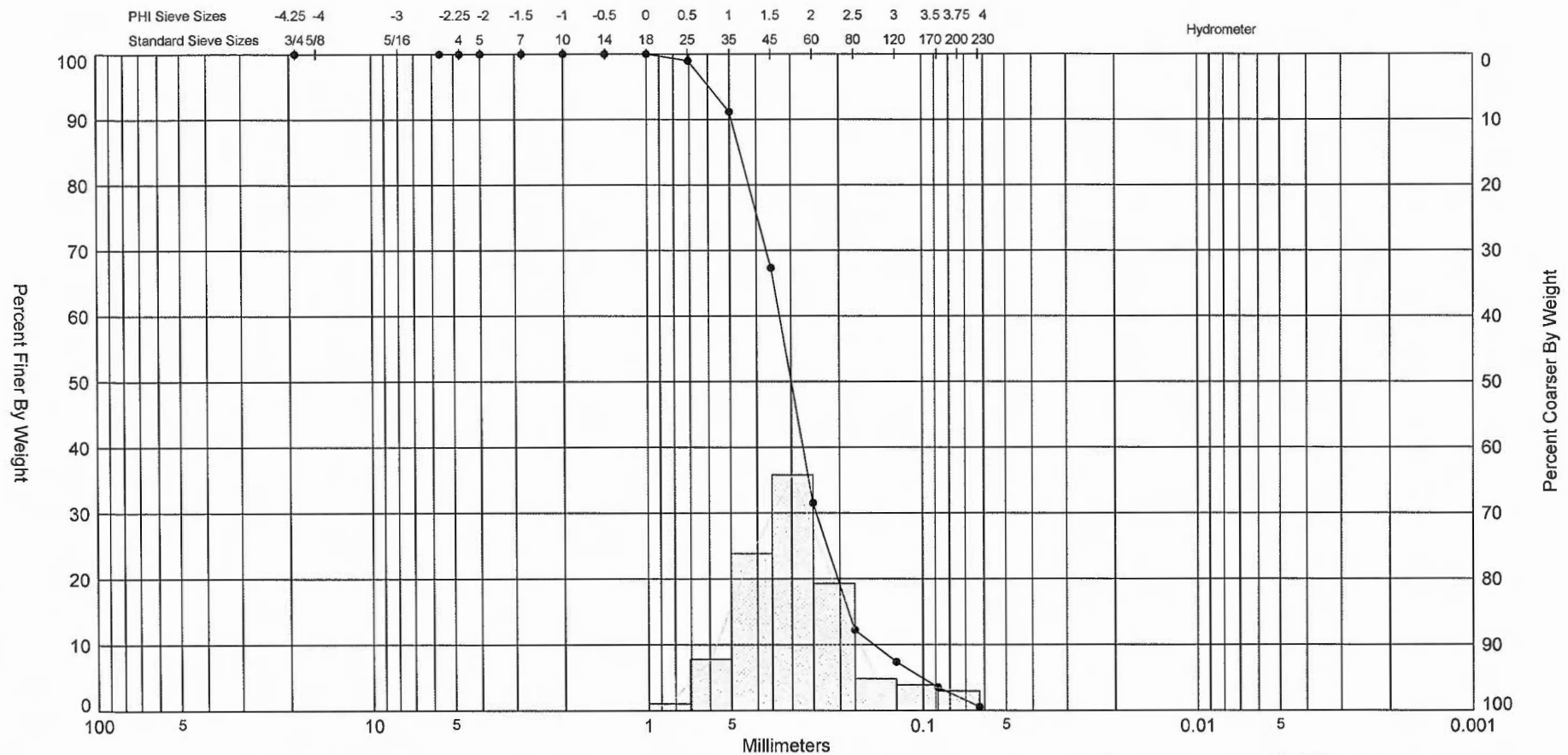
SIEVE ANALYSIS JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-25 #S-3 (7')	—●—	-58.0	SW	#230 - 3.13			1.3	1.14	-0.56	3.83	0.99	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% Moisture											Analysis Date:	04-22-10	
Depths and elevations based on measured values											Analyzed By:	ML	
 American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444											Easting (X, ft):	967057.	
											Northing (Y, ft):	971535.	
											Horizontal System:	NAD 1983	
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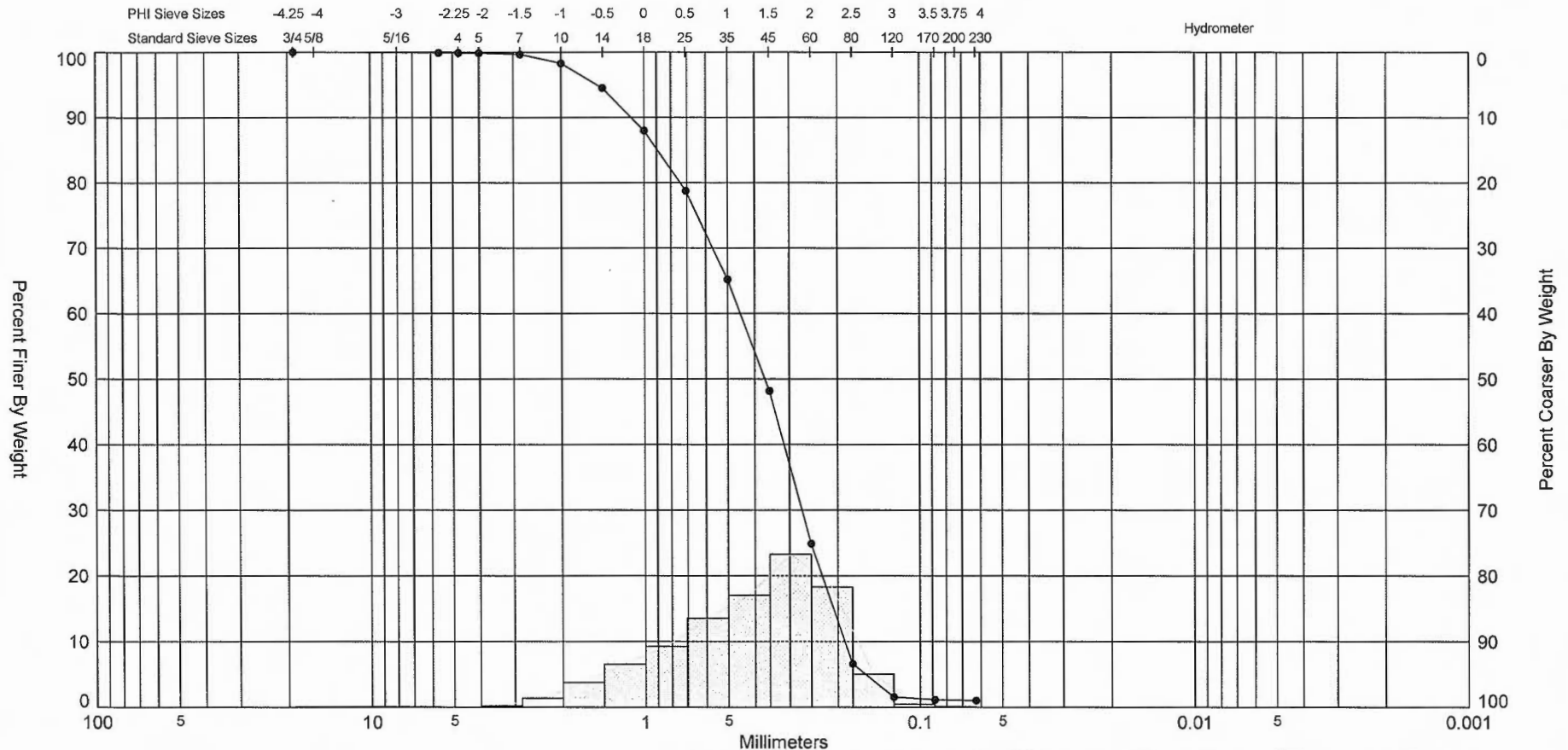
SIEVE ANALYSIS, JUPITER ISLAND 10.GPJ, FL DEP ROSS.GDT, 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
JJI-25 PCC #S-1 (11.1')	—●—	-62.1	SP	#230 - 0.55			1.74	1.8	0.73	3.86	0.68	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% moisture. Sample after calcium carbonate.											Analysis Date:	02-23-10	
Depths and elevations based on measured values											Analyzed By:	ML	
 American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444											Easting (X, ft):	967057.	
											Northing (Y, ft):	971535.	
											Horizontal System:	NAD 1983	
											Vertical System:	NAVD 88	

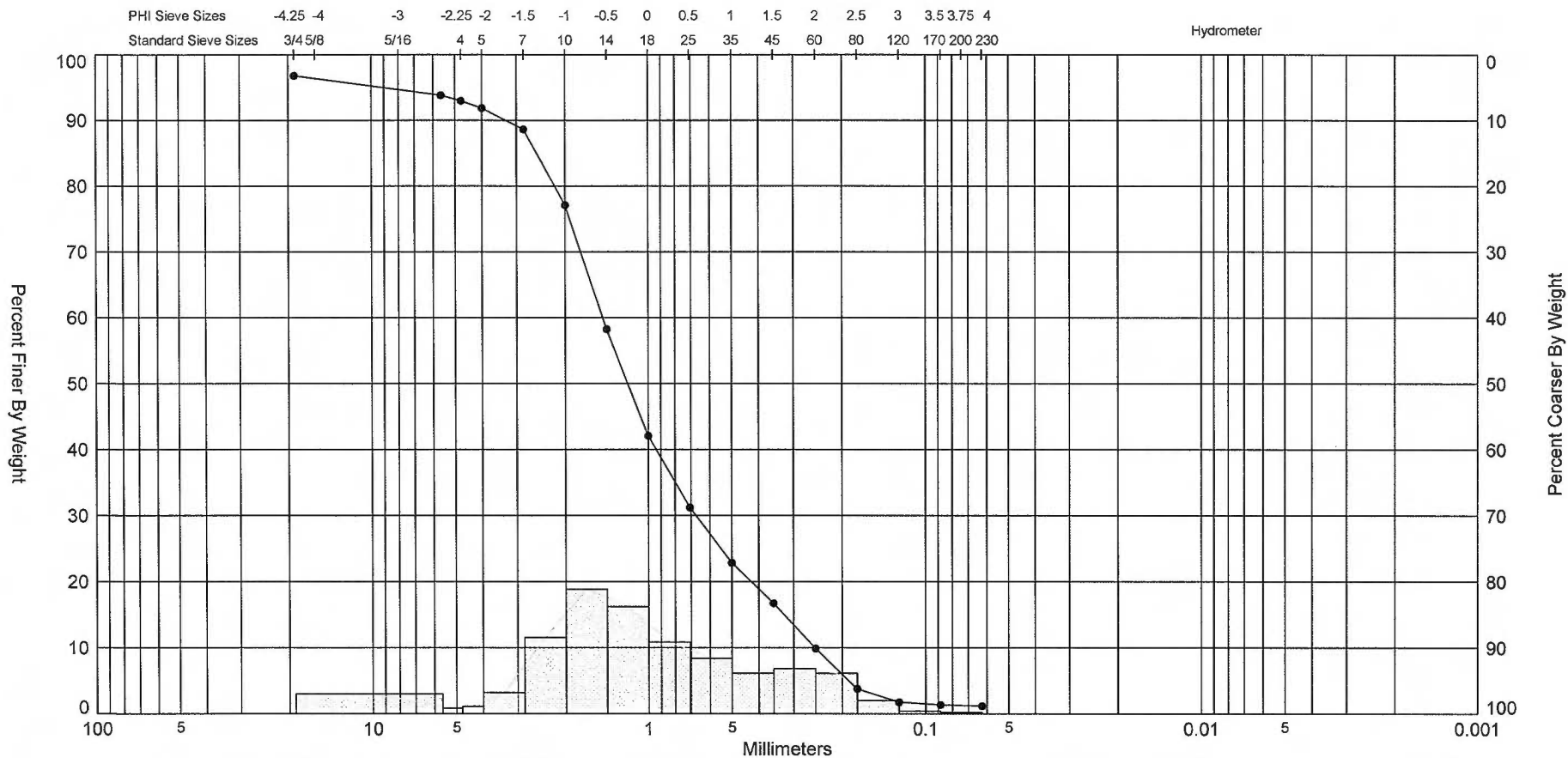
SIEVE ANALYSIS JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-28 #S-1 (2')	—●—	-54.7	SW	#230 - 1.01			1.45	1.26	-0.66	3.22	0.97	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% Moisture											Analysis Date:	04-22-10	
Depths and elevations based on measured values											Analyzed By:	ML	
							American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444					Easting (X, ft):	966410.
												Northing (Y, ft):	970282.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

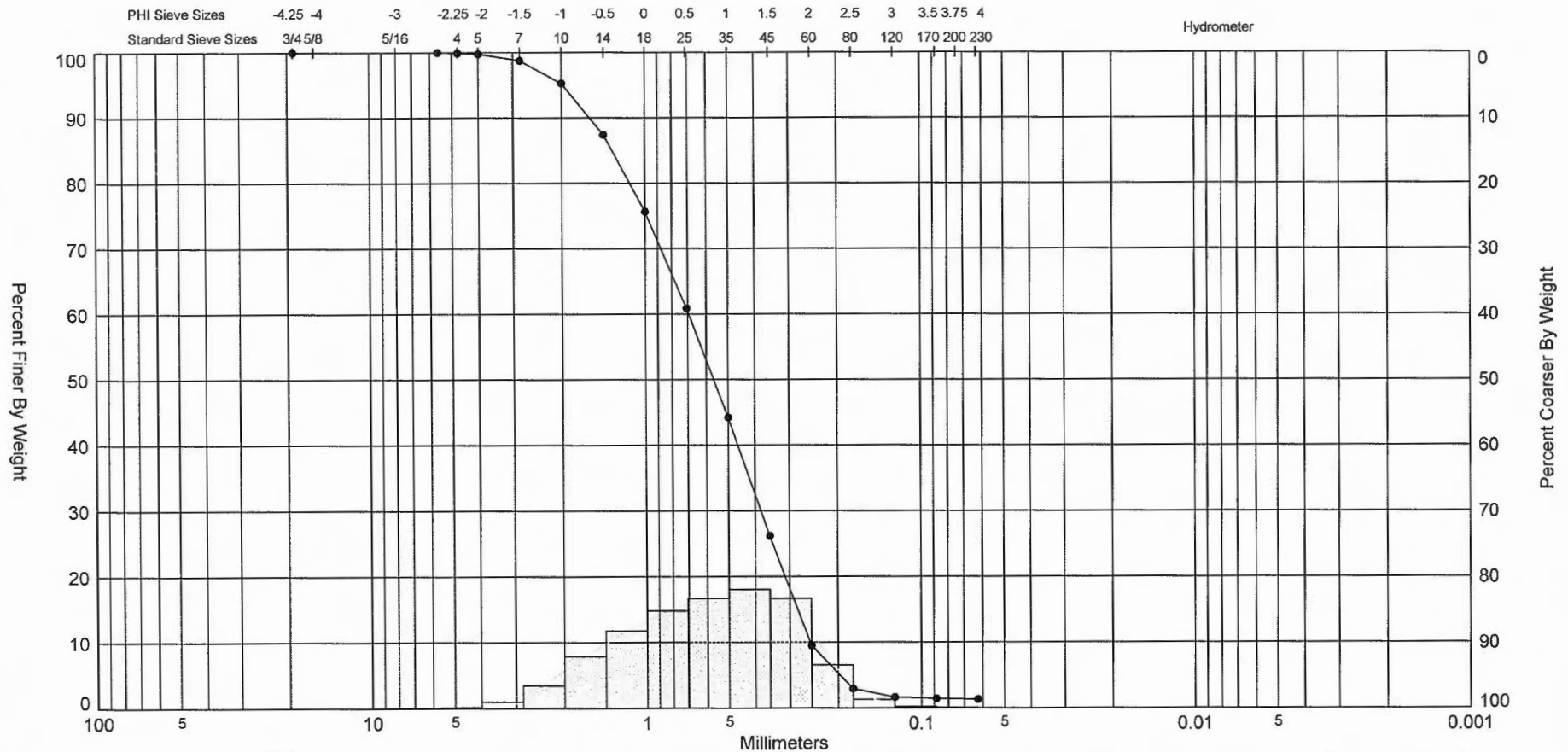
SIEVE ANALYSIS JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/28/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-28 #S-2 (3.4')	—●—	-56.1	SW	#230 - 1.15		88.50		-0.19	0.45	3.16	1.33	Project Name:	Jupiter Island 10
Comments: 10 YR 5/1 Munsell @ 10% Moisture												Analysis Date:	04-22-10
Depths and elevations based on measured values												Analyzed By:	ML
						American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444						Easting (X, ft):	966410.
												Northing (Y, ft):	970282.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

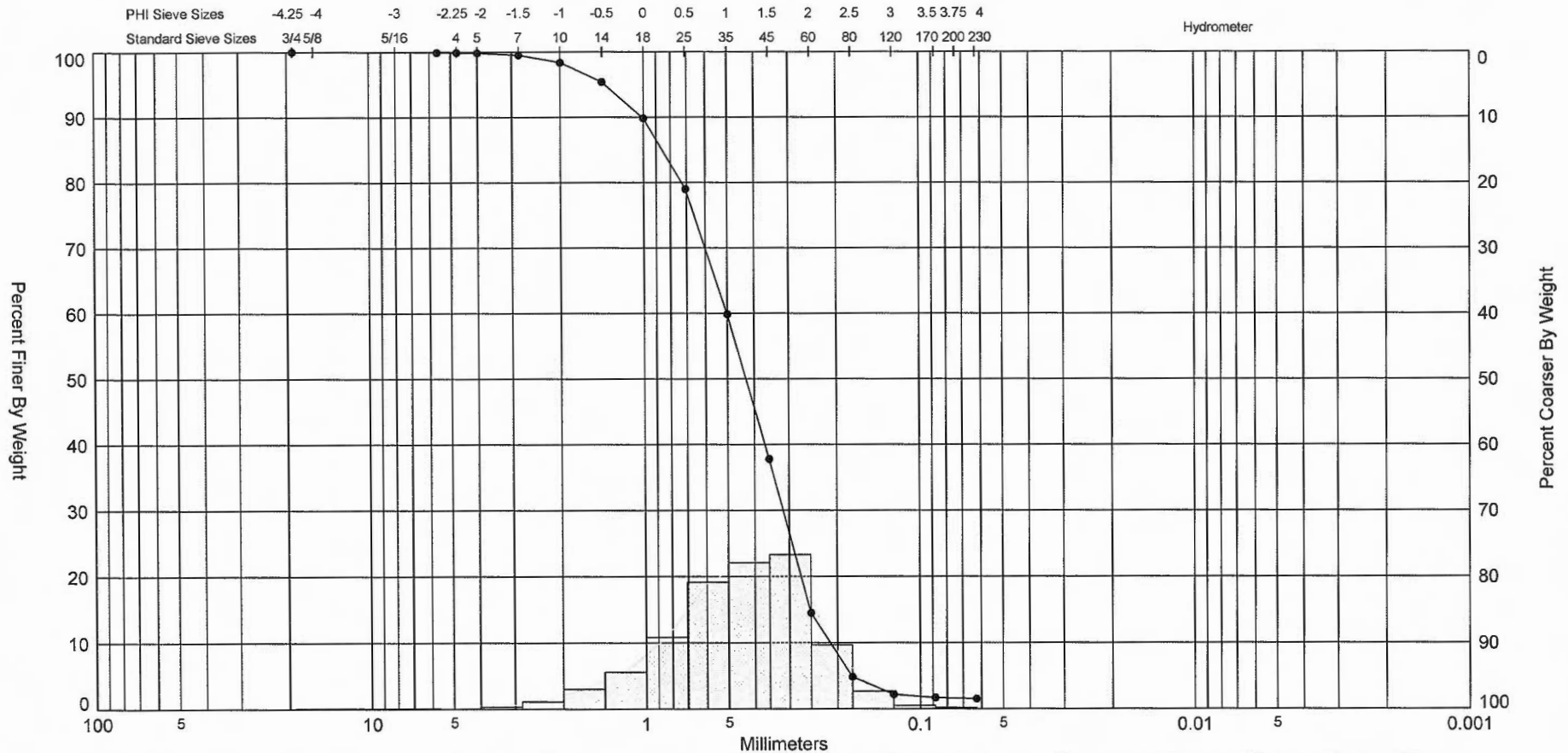
SIEVE ANALYSIS: JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-28 #S-3 (6.3')	—●—	-59.0	SW	#230 - 1.31		78.50	0.83	0.73	-0.26	2.54	1	Project Name:	Jupiter Island 10
Comments: 10 YR 5/1 Munsell @ 10% Moisture												Analysis Date:	04-24-10
Depths and elevations based on measured values												Analyzed By:	JR
 <div style="text-align: center;"> <p>American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444</p> </div>												Easting (X, ft):	966410.
												Northing (Y, ft):	970282.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

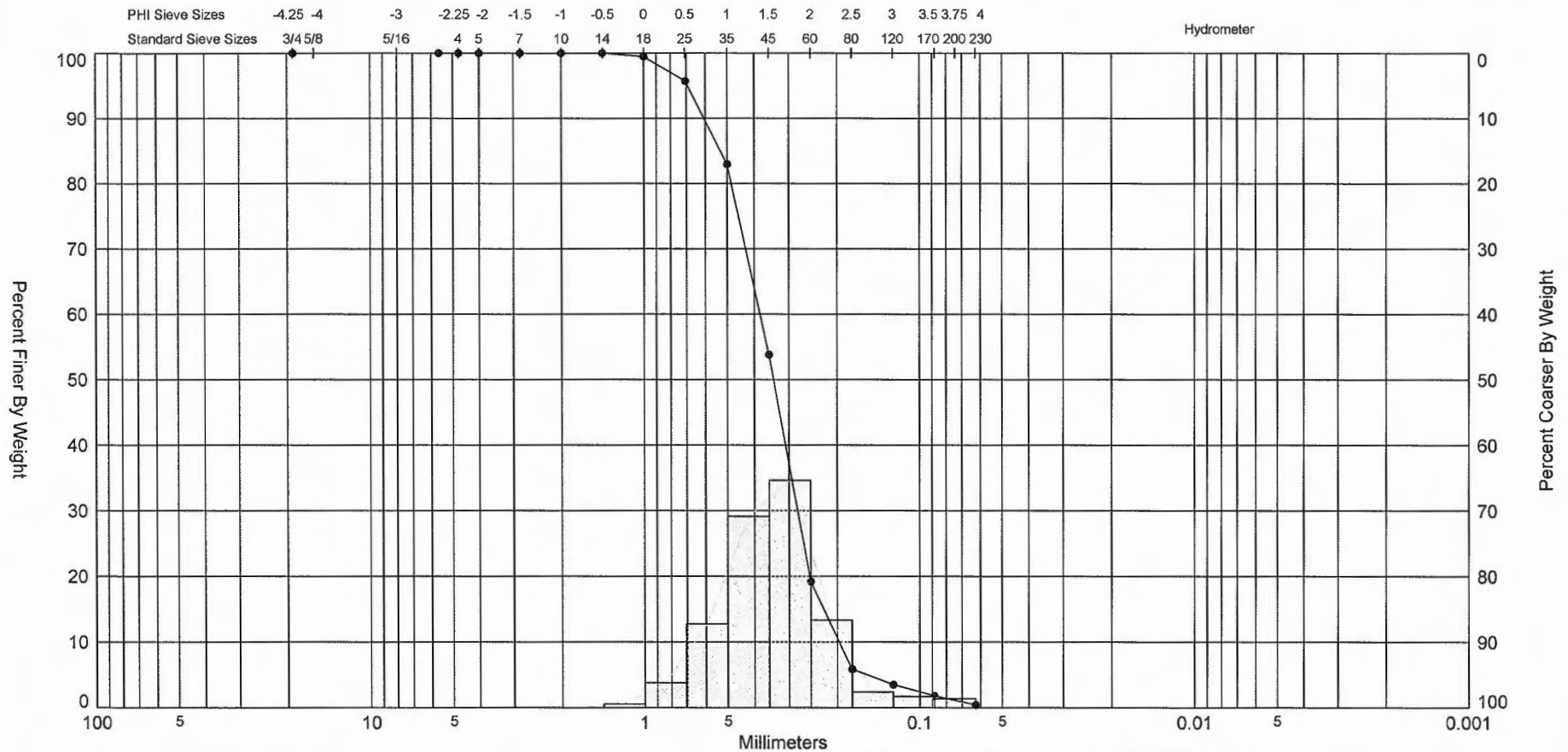
SIEVE ANALYSIS JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-28 #S-4 (9')	—●—	-61.7	SW	#230 - 1.51			1.22	1.12	-0.56	3.85	0.88	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% Moisture												Analysis Date:	04-22-10
Depths and elevations based on measured values												Analyzed By:	ML
 <div style="text-align: center;"> <p>American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444</p> </div>												Easting (X, ft):	966410.
												Northing (Y, ft):	970282.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

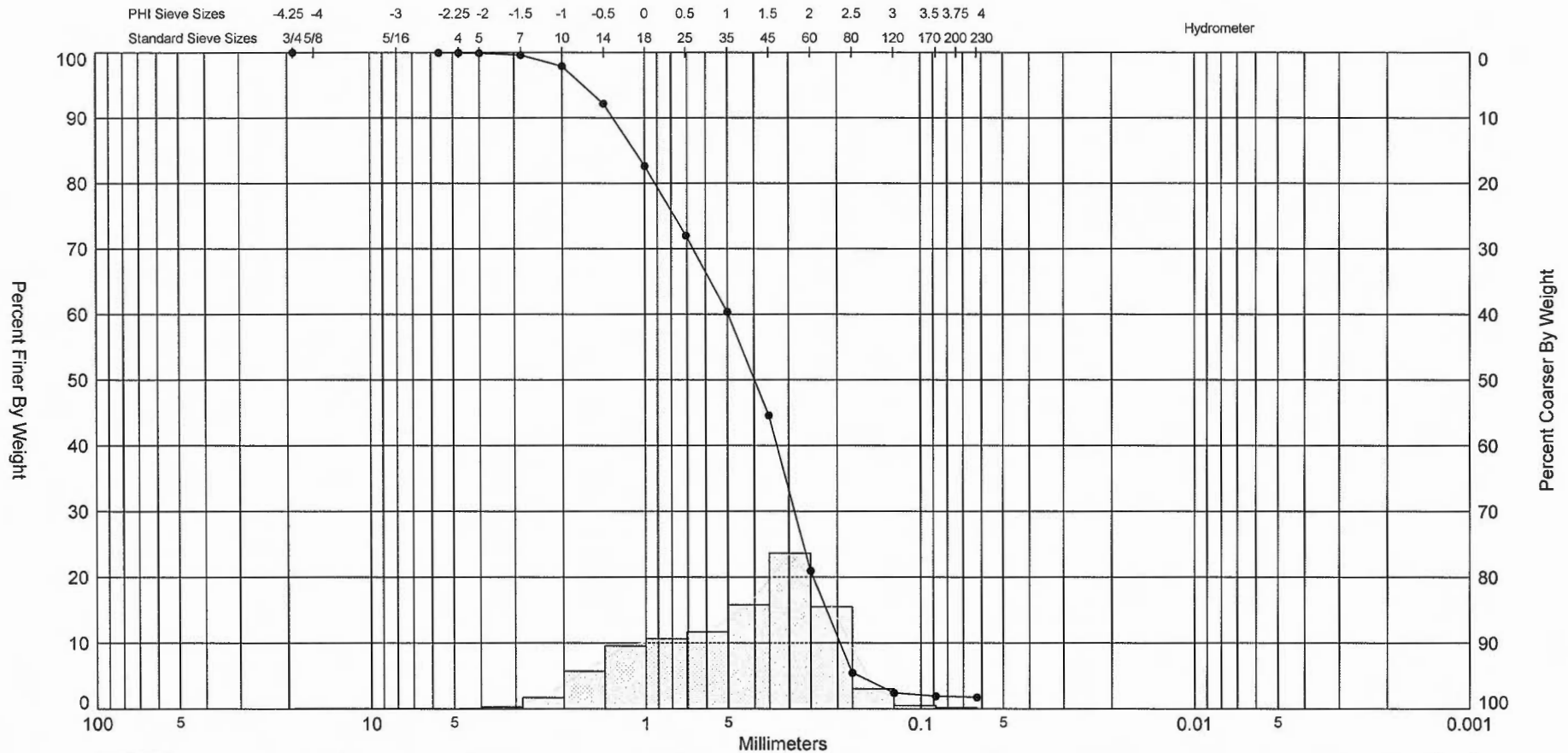
SIEVE ANALYSIS JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-28 PCC #S-1 (6.3')	—●—	-59.0	SP	#230 - 0.42			1.56	1.55	0.48	4.34	0.65	Project Name:	Jupiter Island 10
Comments: 10 YR 5/1 Munsell @ 10% moisture. Sample after calcium carbonate.											Analysis Date:	02-23-10	
Depths and elevations based on measured values											Analyzed By:	ML	
							American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444					Easting (X, ft):	966410.
												Northing (Y, ft):	970282.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

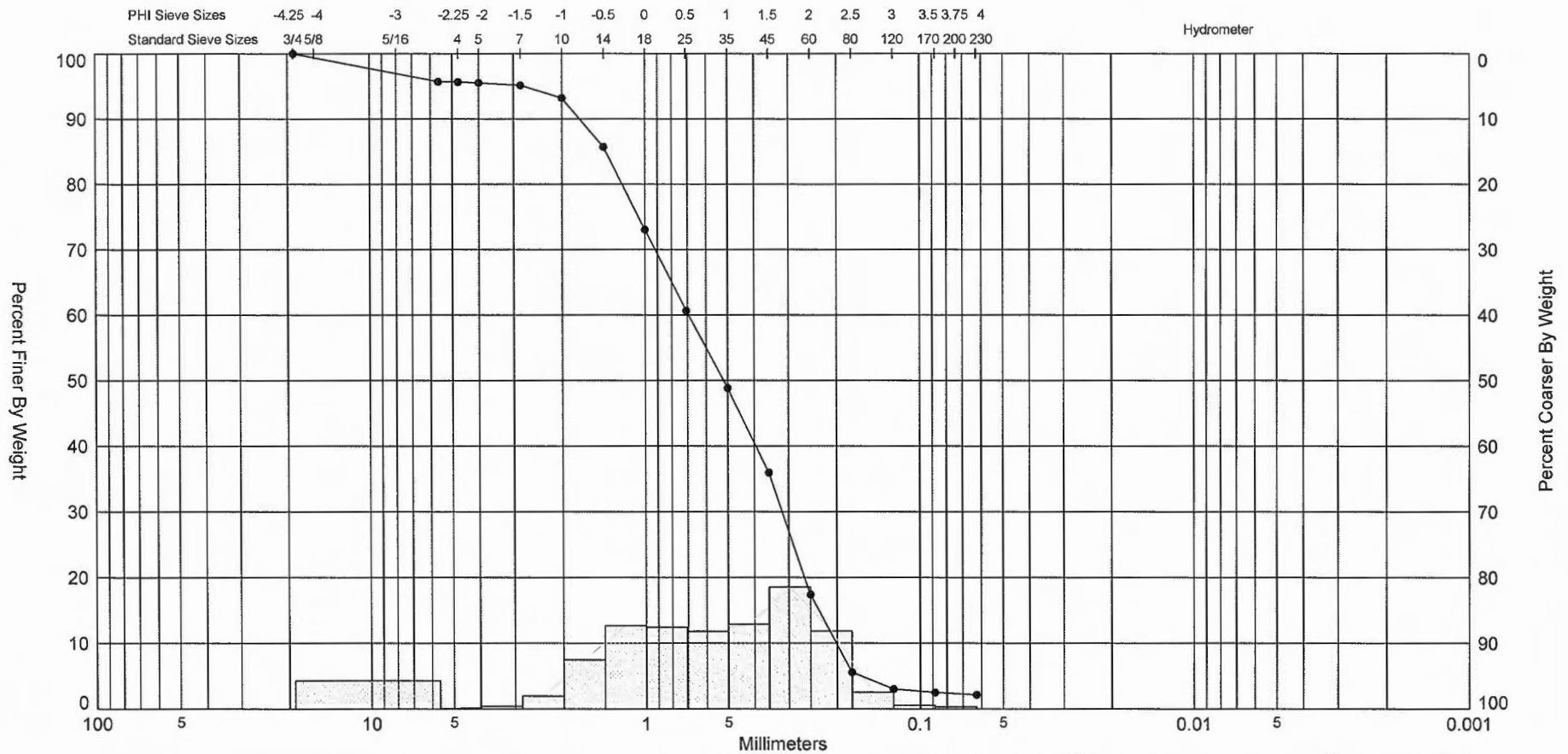
SIEVE ANALYSIS: JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-33 #S-1 (1')	—●—	-55.5	SW	#230 - 1.73			1.33	1.1	-0.49	2.61	1.02	Project Name:	Jupiter Island 10
Comments: 10 YR 5/1 Munsell @ 10% Moisture												Analysis Date:	04-22-10
Depths and elevations based on measured values												Analyzed By:	ML
 American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444												Easting (X, ft):	967647.
												Northing (Y, ft):	969625.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

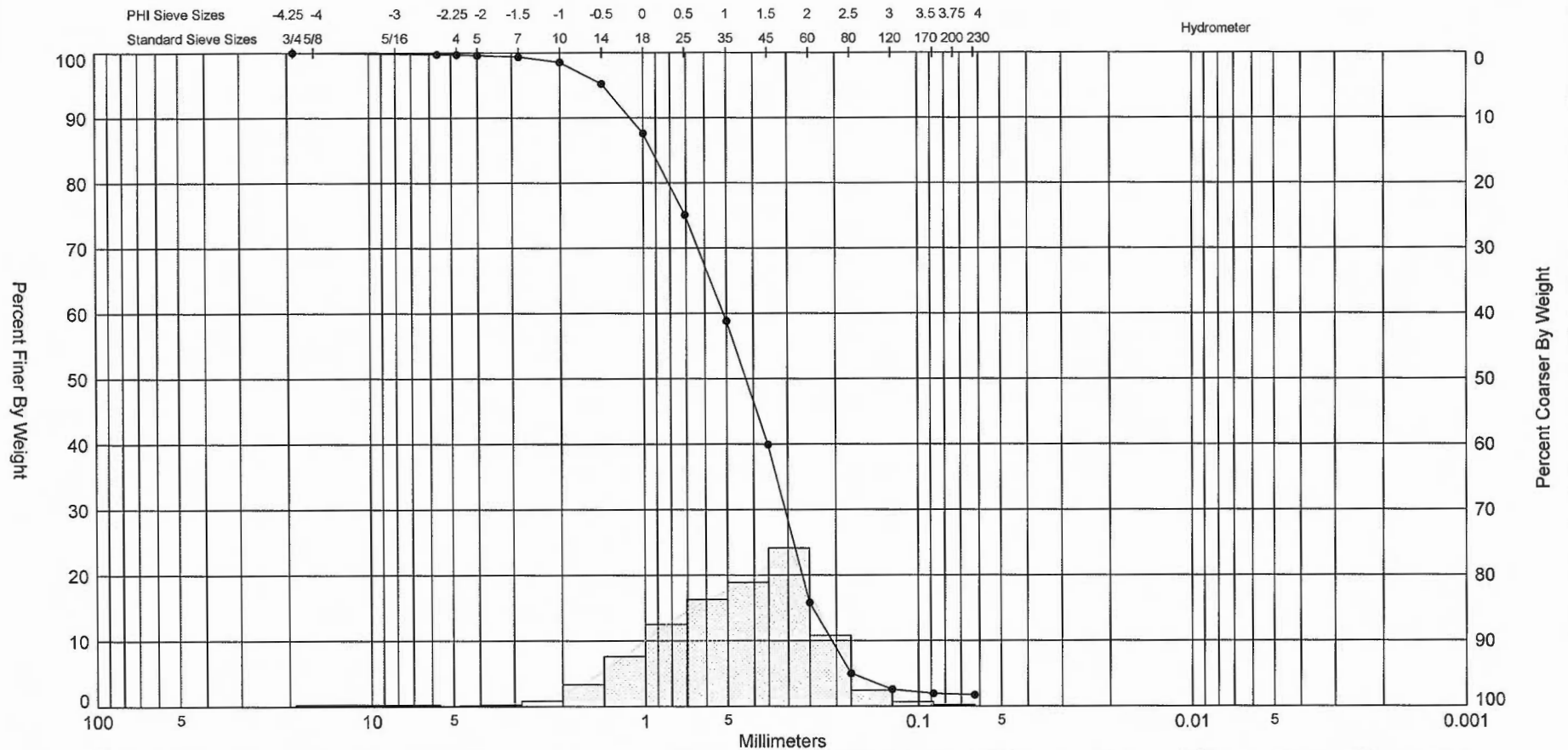
SIEVE ANALYSIS JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10



Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-33 #S-2 (5')	—●—	-59.5	SW	#230 - 2.14			0.95	0.72	-1.01	4.38	1.36	Project Name:	Jupiter Island 10
Comments: 10 YR 5/1 Munsell @ 10% Moisture												Analysis Date:	04-22-10
Depths and elevations based on measured values												Analyzed By:	ML
 <div style="display: inline-block; vertical-align: middle; margin-left: 20px;"> <p>American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444</p> </div>												Easting (X, ft):	967647.
												Northing (Y, ft):	969625.
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

SIEVE ANALYSIS, JUPITER ISLAND 10.GPJ, FL DEP ROSS.GDT, 6/26/10



Sieve Reports



Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-6 #S-1 (3')
Analysis Date: 04-23-10
Analyzed By: JR

Easting (ft): 967434.	Northing (ft): 976919.	Coordinate System: Florida State Plane East	Elevation (ft): -44.8 NAVD 88
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USCS: SW	Munsell: Wet - 10YR-4/1	Comments: 10 YR 4/1 Munsell @ 10% Moisture
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Dry Weight (g): 287.74	Wash Weight (g): 283.88	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 1.46	Organics (%):	Carbonates (%): 61.90	Shells (%):
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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
3.5	-2.49	5.62	0.23	0.08	0.23	0.08
4	-2.25	4.76	0.41	0.14	0.64	0.22
5	-2.00	4.00	0.66	0.23	1.30	0.45
7	-1.50	2.83	1.98	0.69	3.28	1.14
10	-1.00	2.00	4.74	1.65	8.02	2.79
14	-0.50	1.41	10.29	3.58	18.31	6.37
18	0.00	1.00	16.73	5.81	35.04	12.18
25	0.50	0.71	30.29	10.53	65.33	22.71
35	1.00	0.50	49.62	17.24	114.95	39.95
45	1.50	0.35	58.03	20.17	172.98	60.12
60	2.00	0.25	86.39	30.02	259.37	90.14
80	2.50	0.18	20.26	7.04	279.63	97.18
120	3.00	0.13	2.95	1.03	282.58	98.21
170	3.50	0.09	0.69	0.24	283.27	98.45
230	4.00	0.06	0.25	0.09	283.52	98.54

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.35	1.90	1.75	1.25	0.57	0.18	-0.69

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	1.06	0.48	0.9	-0.91	4.09

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-6 #S-2 (9.5')
Analysis Date: 03-11-10
Analyzed By: JR

Easting (ft): 967434.	Northing (ft): 976919.	Coordinate System: Florida State Plane East	Elevation (ft): -51.3 NAVD 88
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USCS: SW	Munsell: Wet - 10YR-5/1	Comments: 10YR 5/1 Munsell @ 10% Moisture
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Dry Weight (g): 239.31	Wash Weight (g): 237.57	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 0.77	Organics (%):	Carbonates (%): 77.20	Shells (%):
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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
3.5	-2.49	5.62	0.52	0.22	0.52	0.22
4	-2.25	4.76	0.30	0.13	0.82	0.35
5	-2.00	4.00	0.39	0.16	1.21	0.51
7	-1.50	2.83	1.62	0.68	2.83	1.19
10	-1.00	2.00	4.42	1.85	7.25	3.04
14	-0.50	1.41	12.17	5.09	19.42	8.13
18	0.00	1.00	18.97	7.93	38.39	16.06
25	0.50	0.71	23.35	9.76	61.74	25.82
35	1.00	0.50	37.74	15.77	99.48	41.59
45	1.50	0.35	59.75	24.97	159.23	66.56
60	2.00	0.25	56.33	23.54	215.56	90.10
80	2.50	0.18	15.40	6.44	230.96	96.54
120	3.00	0.13	4.93	2.06	235.89	98.60
170	3.50	0.09	1.08	0.45	236.97	99.05
230	4.00	0.06	0.42	0.18	237.39	99.23

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.38	1.87	1.68	1.17	0.46	0.00	-0.81

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	0.99	0.50	0.96	-0.75	3.95

GRANULOMETRIC REPORT JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-6 #S-3 (11.5')
Analysis Date: 03-12-10
Analyzed By: JR

Easting (ft): 967434.	Northing (ft): 976919.	Coordinate System: Florida State Plane East	Elevation (ft): -53.3 NAVD 88
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USCS: SW	Munsell: Wet - 10YR-5/1	Comments: 10YR 5/1 Munsel @ 10% Moisture
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Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
297.60	267.60			#230 - 1.06			
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	
3.5	-2.49	5.62	0.66	0.22	0.66	0.22	
4	-2.25	4.76	0.46	0.15	1.12	0.37	
5	-2.00	4.00	1.27	0.43	2.39	0.80	
7	-1.50	2.83	4.12	1.38	6.51	2.18	
10	-1.00	2.00	13.22	4.44	19.73	6.62	
14	-0.50	1.41	34.59	11.62	54.32	18.24	
18	0.00	1.00	43.02	14.46	97.34	32.70	
25	0.50	0.71	40.34	13.56	137.68	46.26	
35	1.00	0.50	53.55	17.99	191.23	64.25	
45	1.50	0.35	52.38	17.60	243.61	81.85	
60	2.00	0.25	40.11	13.48	283.72	95.33	
80	2.50	0.18	6.84	2.30	290.56	97.63	
120	3.00	0.13	2.62	0.88	293.18	98.51	
170	3.50	0.09	0.96	0.32	294.14	98.83	
230	4.00	0.06	0.33	0.11	294.47	98.94	

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
1.99	1.58	1.31	0.60	-0.27	-0.60	-1.18

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	0.5	0.71	1.02	-0.24	2.86

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT - 6/26/10

Granulometric Report
 Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
 Sample Name: JI-6 #S-4 (13.7')
 Analysis Date: 03-12-10
 Analyzed By: JR

Easting (ft): 967434. Northing (ft): 976919. Coordinate System: Florida State Plane East Elevation (ft): -55.5 NAVD 88

USCS: SP Munsell: Wet - 10YR-5/1 Comments: 10YR 5/1 Munsell @ 10% Moisture

Dry Weight (g): 375.00 Wash Weight (g): 368.71 Pan Retained (g): Sieve Loss (%): Fines (%): #230 - 1.82 Organics (%): 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
3.5	-2.49	5.62	1.12	0.30	1.12	0.30
4	-2.25	4.76	0.25	0.07	1.37	0.37
5	-2.00	4.00	0.62	0.17	1.99	0.54
7	-1.50	2.83	1.68	0.45	3.67	0.99
10	-1.00	2.00	2.85	0.76	6.52	1.75
14	-0.50	1.41	5.87	1.57	12.39	3.32
18	0.00	1.00	11.64	3.10	24.03	6.42
25	0.50	0.71	20.58	5.49	44.61	11.91
35	1.00	0.50	48.95	13.05	93.56	24.96
45	1.50	0.35	108.84	29.02	202.40	53.98
60	2.00	0.25	108.23	28.86	310.63	82.84
80	2.50	0.18	39.94	10.65	350.57	93.49
120	3.00	0.13	13.50	3.60	364.07	97.09
170	3.50	0.09	3.11	0.83	367.18	97.92
230	4.00	0.06	0.96	0.26	368.14	98.18

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.71	2.05	1.86	1.43	1.00	0.66	-0.23

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	1.33	0.40	0.85	-1.22	7.08

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT 6/26/10

Granulometric Report
 Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
 Sample Name: JI-6 PCC #S-1 (3')
 Analysis Date: 02-23-10
 Analyzed By: ML

Easting (ft): 967434. Northing (ft): 976919. Coordinate System: Florida State Plane East Elevation (ft): -44.8 NAVD 88

USCS: SP Munsell: Comments: 10 YR 4/1 Munsell @ 10% Moisture. Sample after calcium carbonate.

Dry Weight (g): 25.35 Wash Weight (g): 25.34 Pan Retained (g): Sieve Loss (%): Fines (%): #230 - 0.57 Organics (%): 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
3.5	-2.49	5.62	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	0.00	0.00	0.00	0.00
25	0.50	0.71	0.05	0.20	0.05	0.20
35	1.00	0.50	0.22	0.87	0.27	1.07
45	1.50	0.35	1.72	6.79	1.99	7.86
60	2.00	0.25	5.14	20.28	7.13	28.14
80	2.50	0.18	14.84	58.54	21.97	86.68
120	3.00	0.13	2.58	10.18	24.55	96.86
170	3.50	0.09	0.44	1.74	24.99	98.60
230	4.00	0.06	0.21	0.83	25.20	99.43

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.91	2.48	2.40	2.19	1.92	1.70	1.29

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	2.14	0.23	0.44	-0.19	5.2

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-7 #S-1 (2')
Analysis Date: 03-19-10
Analyzed By: JR

Easting (ft): 968387.	Northing (ft): 977217.	Coordinate System: Florida State Plane East	Elevation (ft): -48.3 NAVD 88
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USCS: SP	Munsell: Wet - 10YR-4/1	Comments: 10YR 4/1 Munsell @ 10% Moisture
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Dry Weight (g): 182.30	Wash Weight (g): 180.71	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 0.88	Organics (%):	Carbonates (%): 65.70	Shells (%):
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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
3.5	-2.49	5.62	0.38	0.21	0.38	0.21
4	-2.25	4.76	0.19	0.10	0.57	0.31
5	-2.00	4.00	0.45	0.25	1.02	0.56
7	-1.50	2.83	0.81	0.44	1.83	1.00
10	-1.00	2.00	1.86	1.02	3.69	2.02
14	-0.50	1.41	3.97	2.18	7.66	4.20
18	0.00	1.00	9.32	5.11	16.98	9.31
25	0.50	0.71	1.11	0.61	18.09	9.92
35	1.00	0.50	26.32	14.44	44.41	24.36
45	1.50	0.35	36.26	19.89	80.67	44.25
60	2.00	0.25	74.55	40.89	155.22	85.14
80	2.50	0.18	22.25	12.21	177.47	97.35
120	3.00	0.13	2.43	1.33	179.90	98.68
170	3.50	0.09	0.56	0.31	180.46	98.99
230	4.00	0.06	0.23	0.13	180.69	99.12

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.40	1.99	1.88	1.57	1.02	0.71	-0.42

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	1.35	0.39	0.84	-1.61	7.03

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-7 #S-2 (8')
Analysis Date: 03-23-10
Analyzed By: JR

Easting (ft): 968387.	Northing (ft): 977217.	Coordinate System: Florida State Plane East	Elevation (ft): -54.3 NAVD 88
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USCS: SW	Munsell: Wet - 10YR-6/1	Comments: 10YR 6/1 Munsell @ 10% Moisture
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Dry Weight (g): 198.10	Wash Weight (g): 195.04	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 1.65	Organics (%):	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	
3.5	-2.49	5.62	1.59	0.80	1.59	0.80	
4	-2.25	4.76	0.25	0.13	1.84	0.93	
5	-2.00	4.00	0.39	0.20	2.23	1.13	
7	-1.50	2.83	1.14	0.58	3.37	1.71	
10	-1.00	2.00	2.96	1.49	6.33	3.20	
14	-0.50	1.41	9.67	4.88	16.00	8.08	
18	0.00	1.00	16.13	8.14	32.13	16.22	
25	0.50	0.71	23.49	11.86	55.62	28.08	
35	1.00	0.50	32.28	16.29	87.90	44.37	
45	1.50	0.35	48.03	24.25	135.93	68.62	
60	2.00	0.25	41.88	21.14	177.81	89.76	
80	2.50	0.18	11.03	5.57	188.84	95.33	
120	3.00	0.13	4.43	2.24	193.27	97.57	
170	3.50	0.09	1.21	0.61	194.48	98.18	
230	4.00	0.06	0.33	0.17	194.81	98.35	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.47	1.86	1.65	1.12	0.37	-0.01	-0.82
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	0.93	0.52	1	-0.93	5.11	

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT 6/26/10

Granulometric Report
 Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
 Sample Name: JI-7 #S-3 (9.8')
 Analysis Date: 04-23-10
 Analyzed By: JR

Easting (ft): 968387. Northing (ft): 977217. Coordinate System: Florida State Plane East Elevation (ft): -56.1 NAVD 88

USCS: SP Munsell: Wet - 10YR-5/2 Comments: 10 YR 5/2 Munsell @ 10% Moisture

Dry Weight (g): 166.96 Wash Weight (g): 164.34 Pan Retained (g): Sieve Loss (%): Fines (%): #230 - 1.65 Organics (%): Carbonates (%): 69.10 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
3.5	-2.49	5.62	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	0.09	0.05	0.09	0.05
7	-1.50	2.83	0.41	0.25	0.50	0.30
10	-1.00	2.00	0.82	0.49	1.32	0.79
14	-0.50	1.41	1.90	1.14	3.22	1.93
18	0.00	1.00	3.65	2.19	6.87	4.12
25	0.50	0.71	7.65	4.58	14.52	8.70
35	1.00	0.50	20.43	12.24	34.95	20.94
45	1.50	0.35	43.54	26.08	78.49	47.02
60	2.00	0.25	53.29	31.92	131.78	78.94
80	2.50	0.18	20.45	12.25	152.23	91.19
120	3.00	0.13	9.62	5.76	161.85	96.95
170	3.50	0.09	1.88	1.13	163.73	98.08
230	4.00	0.06	0.45	0.27	164.18	98.35

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.83	2.21	1.94	1.55	1.08	0.80	0.10

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	1.47	0.36	0.77	-0.65	4.75

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report
 Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
 Sample Name: JI-7 #S-4 (18')
 Analysis Date: 03-29-10
 Analyzed By: JR

Easting (ft): 968387. Northing (ft): 977217. Coordinate System: Florida State Plane East Elevation (ft): -64.3 NAVD 88

USCS: SW Munsell: Wet - 10YR-4/1 Comments: 10YR 4/1 Munsell @ 10% Moisture

Dry Weight (g): 203.00 Wash Weight (g): 194.03 Pan Retained (g): Sieve Loss (%): Fines (%): #230 - 4.48 Organics (%): 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
3.5	-2.49	5.62	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	0.16	0.08	0.16	0.08
10	-1.00	2.00	0.70	0.34	0.86	0.42
14	-0.50	1.41	2.16	1.06	3.02	1.48
18	0.00	1.00	4.44	2.19	7.46	3.67
25	0.50	0.71	8.39	4.13	15.85	7.80
35	1.00	0.50	16.34	8.05	32.19	15.85
45	1.50	0.35	29.35	14.46	61.54	30.31
60	2.00	0.25	48.62	23.95	110.16	54.26
80	2.50	0.18	40.20	19.80	150.36	74.06
120	3.00	0.13	35.53	17.50	185.89	91.56
170	3.50	0.09	6.65	3.28	192.54	94.84
230	4.00	0.06	1.38	0.68	193.92	95.52

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.62	2.78	2.53	1.91	1.32	1.01	0.16

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	1.79	0.29	0.87	-0.68	3.58

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-7 PCC #S-1 (9.8')
Analysis Date: 02-23-10
Analyzed By: ML

Easting (ft): 968387.	Northing (ft): 977217.	Coordinate System: Florida State Plane East	Elevation (ft): -56.1 NAVD 88
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USCS: SP	Munsell:	Comments: 10 YR 5/2 Munsell @ 10% Moisture. Sample after calcium carbonate.
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Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
26.76	26.72			#230 - 0.37			
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	
3.5	-2.49	5.62	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	0.00	0.00	0.00	0.00	
25	0.50	0.71	0.01	0.04	0.01	0.04	
35	1.00	0.50	0.61	2.28	0.62	2.32	
45	1.50	0.35	6.81	25.45	7.43	27.77	
60	2.00	0.25	12.66	47.31	20.09	75.08	
80	2.50	0.18	3.17	11.85	23.26	86.93	
120	3.00	0.13	2.16	8.07	25.42	95.00	
170	3.50	0.09	0.91	3.40	26.33	98.40	
230	4.00	0.06	0.33	1.23	26.66	99.63	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.00	2.38	2.00	1.73	1.45	1.27	1.05
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.82	0.28	0.57	1.05	4.31	

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report
 Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
 Sample Name: JI-9 #S-1 (1')
 Analysis Date: 03-29-10
 Analyzed By: JR

Easting (ft): 965829. Northing (ft): 975349. Coordinate System: Florida State Plane East Elevation (ft): -49.1 NAVD 88

USCS: SW Munsell: Wet - 10YR-5/1 Comments: 10YR 5/1 Munsell @ 10% Moisture

Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
227.00	226.19			#230 - 0.65		72.30	
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	
3.5	-2.49	5.62	3.01	1.33	3.01	1.33	
4	-2.25	4.76	0.27	0.12	3.28	1.45	
5	-2.00	4.00	0.42	0.19	3.70	1.64	
7	-1.50	2.83	1.61	0.71	5.31	2.35	
10	-1.00	2.00	2.29	1.01	7.60	3.36	
14	-0.50	1.41	5.60	2.47	13.20	5.83	
18	0.00	1.00	13.35	5.88	26.55	11.71	
25	0.50	0.71	26.04	11.47	52.59	23.18	
35	1.00	0.50	44.55	19.63	97.14	42.81	
45	1.50	0.35	67.21	29.61	164.35	72.42	
60	2.00	0.25	51.40	22.64	215.75	95.06	
80	2.50	0.18	7.09	3.12	222.84	98.18	
120	3.00	0.13	2.02	0.89	224.86	99.07	
170	3.50	0.09	0.48	0.21	225.34	99.28	
230	4.00	0.06	0.15	0.07	225.49	99.35	

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.00	1.76	1.56	1.12	0.55	0.19	-0.67
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	0.94	0.52	0.93	-1.69	8.22	

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-9 #S-2 (3.6')
Analysis Date: 03-29-10
Analyzed By: JR

Easting (ft): 965829.	Northing (ft): 975349.	Coordinate System: Florida State Plane East	Elevation (ft): -51.7 NAVD 88
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USCS: SW	Munsell: Wet - 10YR-6/1	Comments: 10YR 6/1 Munsell @ 10% Moisture
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Dry Weight (g): 136.40	Wash Weight (g): 133.54	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 2.41	Organics (%):	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	
3.5	-2.49	5.62	5.64	4.13	5.64	4.13	
4	-2.25	4.76	0.95	0.70	6.59	4.83	
5	-2.00	4.00	0.92	0.67	7.51	5.50	
7	-1.50	2.83	3.21	2.35	10.72	7.85	
10	-1.00	2.00	6.42	4.71	17.14	12.56	
14	-0.50	1.41	10.59	7.76	27.73	20.32	
18	0.00	1.00	13.18	9.66	40.91	29.98	
25	0.50	0.71	16.53	12.12	57.44	42.10	
35	1.00	0.50	24.07	17.65	81.51	59.75	
45	1.50	0.35	30.99	22.72	112.50	82.47	
60	2.00	0.25	16.72	12.26	129.22	94.73	
80	2.50	0.18	2.59	1.90	131.81	96.63	
120	3.00	0.13	1.08	0.79	132.89	97.42	
170	3.50	0.09	0.22	0.16	133.11	97.58	
230	4.00	0.06	0.02	0.01	133.13	97.59	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.07	1.56	1.34	0.72	-0.26	-0.78	-2.19
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	0.39	0.76	1.28	-1.12	4.21	

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report
Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-9 #S-3 (5.6')
Analysis Date: 04-23-10
Analyzed By: JR

Easting (ft): 965829. Northing (ft): 975349. Coordinate System: Florida State Plane East Elevation (ft): -53.7 NAVD 88

USCS: SW Munsell: Wet - 10YR-4/1 Comments: 10 YR 4/1 Munsell @ 10% Moisture

Dry Weight (g): 221.96 Wash Weight (g): 218.85 Pan Retained (g): Sieve Loss (%): Fines (%): #230 - 1.46 Organics (%): Carbonates (%): 79.00 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
3.5	-2.49	5.62	3.61	1.63	3.61	1.63
4	-2.25	4.76	1.80	0.81	5.41	2.44
5	-2.00	4.00	1.55	0.70	6.96	3.14
7	-1.50	2.83	5.46	2.46	12.42	5.60
10	-1.00	2.00	9.34	4.21	21.76	9.81
14	-0.50	1.41	15.37	6.92	37.13	16.73
18	0.00	1.00	19.67	8.86	56.80	25.59
25	0.50	0.71	22.56	10.16	79.36	35.75
35	1.00	0.50	32.16	14.49	111.52	50.24
45	1.50	0.35	38.25	17.23	149.77	67.47
60	2.00	0.25	35.44	15.97	185.21	83.44
80	2.50	0.18	17.91	8.07	203.12	91.51
120	3.00	0.13	13.61	6.13	216.73	97.64
170	3.50	0.09	1.76	0.79	218.49	98.43
230	4.00	0.06	0.24	0.11	218.73	98.54

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.78	2.03	1.74	0.99	-0.03	-0.55	-1.62

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	0.76	0.59	1.31	-0.71	3.45

GRANULARMETRIC REPORT JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10

Sample Name: JI-9 #S-4 (11')

Analysis Date: 03-29-10

Analyzed By: JR

Easting (ft):

965829.

Northing (ft):

975349.

Coordinate System:

Florida State Plane East

Elevation (ft):

-59.1 NAVD 88

USCS:

SP

Munsell:

Wet - 10YR-4/1

Comments:

10YR 4/1 Munsell @ 10% Moisture

Dry Weight (g):

271.70

Wash Weight (g):

265.30

Pan Retained (g):

Sieve Loss (%):

Fines (%):

#230 - 2.66

Organics (%):

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

0.00

3.5

-2.49

5.62

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

0.11

0.04

0.11

0.04

7

-1.50

2.83

0.40

0.15

0.51

0.19

10

-1.00

2.00

1.21

0.45

1.72

0.64

14

-0.50

1.41

2.22

0.82

3.94

1.46

18

0.00

1.00

3.49

1.28

7.43

2.74

25

0.50

0.71

5.20

1.91

12.63

4.65

35

1.00

0.50

8.74

3.22

21.37

7.87

45

1.50

0.35

13.79

5.08

35.16

12.95

60

2.00

0.25

28.35

10.43

63.51

23.38

80

2.50

0.18

100.53

37.00

164.04

60.38

120

3.00

0.13

81.42

29.97

245.46

90.35

170

3.50

0.09

16.96

6.24

262.42

96.59

230

4.00

0.06

2.04

0.75

264.46

97.34

Phi 5

Phi 16

Phi 25

Phi 50

Phi 75

Phi 84

Phi 95

3.37

2.89

2.74

2.36

2.02

1.65

0.55

Moment

Mean Phi

Mean mm

Sorting

Skewness

Kurtosis

Statistics

2.2

0.22

0.8

-1.73

7.23

GRANULOMETRIC REPORT, JUPITER ISLAND 10.GPJ, FL DEP ROSS.GDT, 6/26/10

Granularmetric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10

Sample Name: JI-9 PCC #S-1 (5.6")

Analysis Date: 02-23-10

Analyzed By: ML

Easting (ft): 965829.	Northing (ft): 975349.
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Coordinate System: Florida State Plane East	Elevation (ft): -53.7 NAVD 88
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USCS: SP	Munsell:	Comments: 10 YR 4/1 Munsell @ 10% Moisture. Sample after calcium carbonate.
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Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
16.92	16.91			#230 - 0.60			
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	
3.5	-2.49	5.62	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	0.06	0.01	0.06	
25	0.50	0.71	0.07	0.41	0.08	0.47	
35	1.00	0.50	1.27	7.51	1.35	7.98	
45	1.50	0.35	4.63	27.36	5.98	35.34	
60	2.00	0.25	5.82	34.40	11.80	69.74	
80	2.50	0.18	1.98	11.70	13.78	81.44	
120	3.00	0.13	2.33	13.77	16.11	95.21	
170	3.50	0.09	0.54	3.19	16.65	98.40	
230	4.00	0.06	0.17	1.00	16.82	99.40	

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.99	2.59	2.22	1.71	1.31	1.15	0.80

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	1.8	0.29	0.66	0.54	2.96

GRANULARMETRIC REPORT, JUPITER ISLAND 10.GPJ, FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-10 #S-1 (2.5')
Analysis Date: 03-29-10
Analyzed By: JR

Easting (ft): 966727.	Northing (ft): 975665.	Coordinate System: Florida State Plane East	Elevation (ft): -45.4 NAVD 88
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USCS: SP	Munsell: Wet - 10YR-4/1	Comments: 10YR 4/1 Munsell @ 10% Moisture
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Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
186.30	184.96			#230 - 0.76			
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	
3.5	-2.49	5.62	0.00	0.00	0.00	0.00	
4	-2.25	4.76	0.28	0.15	0.28	0.15	
5	-2.00	4.00	0.13	0.07	0.41	0.22	
7	-1.50	2.83	0.55	0.30	0.96	0.52	
10	-1.00	2.00	1.14	0.61	2.10	1.13	
14	-0.50	1.41	3.68	1.98	5.78	3.11	
18	0.00	1.00	9.73	5.22	15.51	8.33	
25	0.50	0.71	24.32	13.05	39.83	21.38	
35	1.00	0.50	30.68	16.47	70.51	37.85	
45	1.50	0.35	47.02	25.24	117.53	63.09	
60	2.00	0.25	54.75	29.39	172.28	92.48	
80	2.50	0.18	10.28	5.52	182.56	98.00	
120	3.00	0.13	1.82	0.98	184.38	98.98	
170	3.50	0.09	0.36	0.19	184.74	99.17	
230	4.00	0.06	0.13	0.07	184.87	99.24	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.23	1.86	1.70	1.24	0.61	0.29	-0.32
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	1.11	0.46	0.78	-0.74	3.97	

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT - 6/26/10

Granulometric Report
 Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
 Sample Name: JI-10 #S-2 (6.6')
 Analysis Date: 04-23-10
 Analyzed By: JR

Easting (ft): 966727.	Northing (ft): 975665.	Coordinate System: Florida State Plane East	Elevation (ft): -49.5 NAVD 88
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USCS: SW	Munsell: Wet - 10YR-5/1	Comments: 10 YR 5/1 Munsell @ 10% Moisture
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Dry Weight (g): 173.64	Wash Weight (g): 171.60	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 1.32	Organics (%):	Carbonates (%): 86.80	Shells (%):
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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
3.5	-2.49	5.62	1.90	1.09	1.90	1.09
4	-2.25	4.76	0.64	0.37	2.54	1.46
5	-2.00	4.00	1.00	0.58	3.54	2.04
7	-1.50	2.83	4.09	2.36	7.63	4.40
10	-1.00	2.00	7.91	4.56	15.54	8.96
14	-0.50	1.41	14.33	8.25	29.87	17.21
18	0.00	1.00	19.84	11.43	49.71	28.64
25	0.50	0.71	25.34	14.59	75.05	43.23
35	1.00	0.50	30.22	17.40	105.27	60.63
45	1.50	0.35	31.94	18.39	137.21	79.02
60	2.00	0.25	26.84	15.46	164.05	94.48
80	2.50	0.18	4.92	2.83	168.97	97.31
120	3.00	0.13	1.73	1.00	170.70	98.31
170	3.50	0.09	0.47	0.27	171.17	98.58
230	4.00	0.06	0.18	0.10	171.35	98.68

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.09	1.66	1.39	0.69	-0.16	-0.57	-1.43
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	0.53	0.69	1.11	-0.68	3.71	

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report
 Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
 Sample Name: JI-10 #S-3 (9.5')
 Analysis Date: 03-31-10
 Analyzed By: JR

Easting (ft): 966727.	Northing (ft): 975665.	Coordinate System: Florida State Plane East	Elevation (ft): -52.4 NAVD 88
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USCS: SW	Munsell: Wet - 10YR-4/1	Comments: 10YR 4/1 Munsell @ 10% Moisture
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Dry Weight (g): 266.90	Wash Weight (g): 261.25	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 2.13	Organics (%):	Carbonates (%): 72.90	Shells (%):
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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
3.5	-2.49	5.62	1.62	0.61	1.62	0.61
4	-2.25	4.76	0.39	0.15	2.01	0.76
5	-2.00	4.00	0.50	0.19	2.51	0.95
7	-1.50	2.83	1.36	0.51	3.87	1.46
10	-1.00	2.00	3.80	1.42	7.67	2.88
14	-0.50	1.41	8.23	3.08	15.90	5.96
18	0.00	1.00	11.44	4.29	27.34	10.25
25	0.50	0.71	15.85	5.94	43.19	16.19
35	1.00	0.50	32.94	12.34	76.13	28.53
45	1.50	0.35	44.39	16.63	120.52	45.16
60	2.00	0.25	45.09	16.89	165.61	62.05
80	2.50	0.18	53.29	19.97	218.90	82.02
120	3.00	0.13	37.59	14.08	256.49	96.10
170	3.50	0.09	3.94	1.48	260.43	97.58
230	4.00	0.06	0.78	0.29	261.21	97.87

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.96	2.57	2.32	1.64	0.86	0.48	-0.66

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	1.45	0.37	1.11	-1.07	4.75

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report
 Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
 Sample Name: JI-10 #S-4 (13)
 Analysis Date: 03-31-10
 Analyzed By: JR

Easting (ft): 966727. Northing (ft): 975665. Coordinate System: Florida State Plane East Elevation (ft): -55.9 NAVD 88

USCS: SP Munsell: Wet - 10YR-4/1 Comments: 10YR 4/1 @ 10% moisture

Dry Weight (g): 222.40 Wash Weight (g): 217.92 Pan Retained (g): Sieve Loss (%): Fines (%): #230 - 2.31 Organics (%): 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
3.5	-2.49	5.62	0.18	0.08	0.18	0.08
4	-2.25	4.76	0.27	0.12	0.45	0.20
5	-2.00	4.00	0.30	0.13	0.75	0.33
7	-1.50	2.83	1.36	0.61	2.11	0.94
10	-1.00	2.00	2.90	1.30	5.01	2.24
14	-0.50	1.41	5.83	2.62	10.84	4.86
18	0.00	1.00	7.89	3.55	18.73	8.41
25	0.50	0.71	10.09	4.54	28.82	12.95
35	1.00	0.50	15.74	7.08	44.56	20.03
45	1.50	0.35	24.84	11.17	69.40	31.20
60	2.00	0.25	39.75	17.87	109.15	49.07
80	2.50	0.18	63.75	28.66	172.90	77.73
120	3.00	0.13	37.77	16.98	210.67	94.71
170	3.50	0.09	4.54	2.04	215.21	96.75
230	4.00	0.06	2.10	0.94	217.31	97.69

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.07	2.68	2.45	2.02	1.22	0.72	-0.48
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.71	0.31	1.05	-1.16	4.39	

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT - 6/26/10

Granularmetric Report
 Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
 Sample Name: JI-10 PCC #S-1 (6.6')
 Analysis Date: 02-23-10
 Analyzed By: ML

Easting (ft): 966727. Northing (ft): 975665. Coordinate System: Florida State Plane East Elevation (ft): -49.5 NAVD 88

USCS: SP Munsell: Comments: 10 YR 5/1 Munsell @ 10% moisture. Sample after Calcium carbonate.

Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
9.99	9.99			#230 - 0.50			
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	
3.5	-2.49	5.62	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	0.00	0.00	0.00	0.00	
25	0.50	0.71	0.05	0.50	0.05	0.50	
35	1.00	0.50	0.69	6.91	0.74	7.41	
45	1.50	0.35	3.22	32.23	3.96	39.64	
60	2.00	0.25	4.86	48.65	8.82	88.29	
80	2.50	0.18	0.55	5.51	9.37	93.80	
120	3.00	0.13	0.26	2.60	9.63	96.40	
170	3.50	0.09	0.17	1.70	9.80	98.10	
230	4.00	0.06	0.14	1.40	9.94	99.50	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.73	1.96	1.86	1.61	1.27	1.13	0.83
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	1.62	0.33	0.53	1.28	6.75	

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT - 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-11 #S-1 (3')
Analysis Date: 04-24-10
Analyzed By: JR

Easting (ft): 967745.	Northing (ft): 975958.	Coordinate System: Florida State Plane East	Elevation (ft): -45.9 NAVD 88
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USCS: SP	Munsell: Wet - 10YR-5/1	Comments: 10 YR 5/1 Munsell @ 10% Moisture
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Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
333.26	325.54			#230 - 2.34		65.60	

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
3.5	-2.49	5.62	0.07	0.02	0.07	0.02
4	-2.25	4.76	0.11	0.03	0.18	0.05
5	-2.00	4.00	0.13	0.04	0.31	0.09
7	-1.50	2.83	1.23	0.37	1.54	0.46
10	-1.00	2.00	2.07	0.62	3.61	1.08
14	-0.50	1.41	4.18	1.25	7.79	2.33
18	0.00	1.00	7.09	2.13	14.88	4.46
25	0.50	0.71	11.10	3.33	25.98	7.79
35	1.00	0.50	20.44	6.13	46.42	13.92
45	1.50	0.35	47.73	14.32	94.15	28.24
60	2.00	0.25	118.51	35.56	212.66	63.80
80	2.50	0.18	81.16	24.35	293.82	88.15
120	3.00	0.13	24.84	7.45	318.66	95.60
170	3.50	0.09	5.79	1.74	324.45	97.34
230	4.00	0.06	1.07	0.32	325.52	97.66

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.96	2.41	2.23	1.81	1.39	1.07	0.08
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	1.68	0.31	0.81	-1.25	6.02	

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS GDT 6/26/10

Granularmetric Report
Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-11 #S-2 (9')
Analysis Date: 03-31-10
Analyzed By: JR

Easting (ft): 967745. Northing (ft): 975958. Coordinate System: Florida State Plane East Elevation (ft): -51.9 NAVD 88

USCS: SP Munsell: Wet - 10YR-4/1 Comments: 10 YR 4/1 Munsell @ 10% Moisture

Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
281.30	279.27			#230 - 0.75		72.20	
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	
3.5	-2.49	5.62	0.75	0.27	0.75	0.27	
4	-2.25	4.76	0.17	0.06	0.92	0.33	
5	-2.00	4.00	0.52	0.18	1.44	0.51	
7	-1.50	2.83	0.72	0.26	2.16	0.77	
10	-1.00	2.00	1.37	0.49	3.53	1.26	
14	-0.50	1.41	3.75	1.33	7.28	2.59	
18	0.00	1.00	7.56	2.69	14.84	5.28	
25	0.50	0.71	14.06	5.00	28.90	10.28	
35	1.00	0.50	31.09	11.05	59.99	21.33	
45	1.50	0.35	75.23	26.74	135.22	48.07	
60	2.00	0.25	97.87	34.79	233.09	82.86	
80	2.50	0.18	30.95	11.00	264.04	93.86	
120	3.00	0.13	12.58	4.47	276.62	98.33	
170	3.50	0.09	2.34	0.83	278.96	99.16	
230	4.00	0.06	0.26	0.09	279.22	99.25	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.63	2.05	1.89	1.53	1.07	0.76	-0.05
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	1.41	0.38	0.8	-1.34	7.77	

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-11 #S-3 (11')
Analysis Date: 04-24-10
Analyzed By: JR

Easting (ft): 967745.	Northing (ft): 975958.	Coordinate System: Florida State Plane East	Elevation (ft): -53.9 NAVD 88
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USCS: SP	Munsell: Wet - 10YR-4/1	Comments: 10 YR 4/1 Munsell @ 10% Moisture
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Dry Weight (g): 377.82	Wash Weight (g): 371.50	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 1.73	Organics (%):	Carbonates (%):	Shells (%):
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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
3.5	-2.49	5.62	0.17	0.04	0.17	0.04
4	-2.25	4.76	0.04	0.01	0.21	0.05
5	-2.00	4.00	0.19	0.05	0.40	0.10
7	-1.50	2.83	0.49	0.13	0.89	0.23
10	-1.00	2.00	0.75	0.20	1.64	0.43
14	-0.50	1.41	1.78	0.47	3.42	0.90
18	0.00	1.00	4.53	1.20	7.95	2.10
25	0.50	0.71	13.84	3.66	21.79	5.76
35	1.00	0.50	39.30	10.40	61.09	16.16
45	1.50	0.35	73.75	19.52	134.84	35.68
60	2.00	0.25	107.41	28.43	242.25	64.11
80	2.50	0.18	83.79	22.18	326.04	86.29
120	3.00	0.13	38.39	10.16	364.43	96.45
170	3.50	0.09	5.94	1.57	370.37	98.02
230	4.00	0.06	0.94	0.25	371.31	98.27

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.93	2.45	2.25	1.75	1.23	0.99	0.40

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	1.68	0.31	0.76	-0.72	4.98

GRANULARMETRIC REPORT JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-11 #S-4 (14')
Analysis Date: 03-31-10
Analyzed By: JR

Easting (ft): 967745.	Northing (ft): 975958.	Coordinate System: Florida State Plane East	Elevation (ft): -56.9 NAVD 88
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USCS: SP	Munsell: Wet - 10YR-4/1	Comments: 10 YR 4/1 Munsell @ 10% moisture
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Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
280.50	271.17			#230 - 3.37			
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	
3.5	-2.49	5.62	1.18	0.42	1.18	0.42	
4	-2.25	4.76	0.27	0.10	1.45	0.52	
5	-2.00	4.00	0.33	0.12	1.78	0.64	
7	-1.50	2.83	1.32	0.47	3.10	1.11	
10	-1.00	2.00	3.64	1.30	6.74	2.41	
14	-0.50	1.41	6.87	2.45	13.61	4.86	
18	0.00	1.00	10.84	3.86	24.45	8.72	
25	0.50	0.71	14.93	5.32	39.38	14.04	
35	1.00	0.50	26.22	9.35	65.60	23.39	
45	1.50	0.35	44.29	15.79	109.89	39.18	
60	2.00	0.25	57.96	20.66	167.85	59.84	
80	2.50	0.18	49.67	17.71	217.52	77.55	
120	3.00	0.13	38.98	13.90	256.50	91.45	
170	3.50	0.09	11.18	3.99	267.68	95.44	
230	4.00	0.06	3.33	1.19	271.01	96.63	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.44	2.73	2.43	1.76	1.05	0.60	-0.48
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.58	0.33	1.1	-0.96	4.67	

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-11 #S-5 (18')
Analysis Date: 04-06-10
Analyzed By: JR

Easting (ft): 967745.	Northing (ft): 975958.	Coordinate System: Florida State Plane East	Elevation (ft): -60.9 NAVD 88
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USCS: SP	Munsell: Wet - 10YR-4/1	Comments: 10 YR 4/1 Munsell @ 10% moisture
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Dry Weight (g): 397.13	Wash Weight (g): 390.08	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 1.81	Organics (%):	Carbonates (%):	Shells (%):
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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
3.5	-2.49	5.62	1.06	0.27	1.06	0.27
4	-2.25	4.76	0.23	0.06	1.29	0.33
5	-2.00	4.00	0.17	0.04	1.46	0.37
7	-1.50	2.83	0.64	0.16	2.10	0.53
10	-1.00	2.00	2.45	0.62	4.55	1.15
14	-0.50	1.41	6.06	1.53	10.61	2.68
18	0.00	1.00	11.78	2.97	22.39	5.65
25	0.50	0.71	20.18	5.08	42.57	10.73
35	1.00	0.50	39.00	9.82	81.57	20.55
45	1.50	0.35	78.00	19.64	159.57	40.19
60	2.00	0.25	107.68	27.11	267.25	67.30
80	2.50	0.18	66.59	16.77	333.84	84.07
120	3.00	0.13	47.83	12.04	381.67	96.11
170	3.50	0.09	6.78	1.71	388.45	97.82
230	4.00	0.06	1.48	0.37	389.93	98.19

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.95	2.50	2.23	1.68	1.11	0.77	-0.11

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	1.57	0.34	0.91	-1.01	5.61

GRANULARMETRIC REPORT JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granularmetric Report
 Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
 Sample Name: JI-11 PCC #S-1 (3')
 Analysis Date: 02-23-10
 Analyzed By: ML

Easting (ft): 967745. Northing (ft): 975958. Coordinate System: Florida State Plane East Elevation (ft): -45.9 NAVD 88

USCS: SP Munsell: Comments: 10 YR 5/1 Munsell @ 10% moisture. Sample after calcium carbonate.

Dry Weight (g): 33.47 Wash Weight (g): 33.45 Pan Retained (g): Sieve Loss (%): Fines (%): #230 - 0.01 Organics (%): 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
3.5	-2.49	5.62	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	0.00	0.00	0.00	0.00
25	0.50	0.71	0.03	0.09	0.03	0.09
35	1.00	0.50	0.35	1.05	0.38	1.14
45	1.50	0.35	4.05	12.10	4.43	13.24
60	2.00	0.25	15.83	47.30	20.26	60.54
80	2.50	0.18	8.39	25.07	28.65	85.61
120	3.00	0.13	3.42	10.22	32.07	95.83
170	3.50	0.09	1.05	3.14	33.12	98.97
230	4.00	0.06	0.34	1.02	33.46	99.99

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.96	2.47	2.29	1.89	1.62	1.53	1.16

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	1.97	0.26	0.52	0.72	3.99

GRANULARMETRIC REPORT JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-12 #S-1 (1')
Analysis Date: 04-01-10
Analyzed By: JR

Easting (ft): 968693.	Northing (ft): 976243.	Coordinate System: Florida State Plane East	Elevation (ft): -44.5 NAVD 88
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USCS: SP	Munsell: Wet - 10YR-4/1	Comments: 10 YR 4/1 Munsell @ 10% Moisture
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Dry Weight (g): 233.50	Wash Weight (g): 229.74	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 1.62	Organics (%):	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	
3.5	-2.49	5.62	0.16	0.07	0.16	0.07	
4	-2.25	4.76	0.18	0.08	0.34	0.15	
5	-2.00	4.00	0.33	0.14	0.67	0.29	
7	-1.50	2.83	0.76	0.33	1.43	0.62	
10	-1.00	2.00	1.58	0.68	3.01	1.30	
14	-0.50	1.41	5.36	2.30	8.37	3.60	
18	0.00	1.00	12.32	5.28	20.69	8.88	
25	0.50	0.71	23.47	10.05	44.16	18.93	
35	1.00	0.50	34.34	14.71	78.50	33.64	
45	1.50	0.35	43.09	18.45	121.59	52.09	
60	2.00	0.25	74.72	32.00	196.31	84.09	
80	2.50	0.18	28.47	12.19	224.78	96.28	
120	3.00	0.13	4.04	1.73	228.82	98.01	
170	3.50	0.09	0.72	0.31	229.54	98.32	
230	4.00	0.06	0.14	0.06	229.68	98.38	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.45	2.00	1.86	1.44	0.71	0.35	-0.37
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.23	0.43	0.85	-0.87	4.13	

GRANULOMETRIC REPORT JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-12 #S-2 (4')
Analysis Date: 04-01-10
Analyzed By: JR

Easting (ft): 968693.	Northing (ft): 976243.	Coordinate System: Florida State Plane East	Elevation (ft): -47.5 NAVD 88
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USCS: SP	Munsell: Wet - 10YR-4/1	Comments: 10 YR 4/1 Munsell @ 10% Moisture
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Dry Weight (g): 322.90	Wash Weight (g): 319.08	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 1.22	Organics (%):	Carbonates (%): 60.60	Shells (%):
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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
3.5	-2.49	5.62	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	0.03	0.10	0.03
10	-1.00	2.00	0.41	0.13	0.51	0.16
14	-0.50	1.41	0.85	0.26	1.36	0.42
18	0.00	1.00	2.14	0.66	3.50	1.08
25	0.50	0.71	5.81	1.80	9.31	2.88
35	1.00	0.50	17.60	5.45	26.91	8.33
45	1.50	0.35	53.77	16.65	80.68	24.98
60	2.00	0.25	168.84	52.29	249.52	77.27
80	2.50	0.18	55.65	17.23	305.17	94.50
120	3.00	0.13	11.19	3.47	316.36	97.97
170	3.50	0.09	2.13	0.66	318.49	98.63
230	4.00	0.06	0.49	0.15	318.98	98.78

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.57	2.20	1.98	1.74	1.50	1.23	0.69

Moment Statistics	Mean Phi 1.69	Mean mm 0.31	Sorting 0.54	Skewness -0.88	Kurtosis 6.81
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GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-12 #S-3 (14')
Analysis Date: 04-23-10
Analyzed By: JR

Easting (ft): 968693.	Northing (ft): 976243.	Coordinate System: Florida State Plane East	Elevation (ft): -57.5 NAVD 88
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USCS: SW	Munsell: Wet - 10YR-4/1	Comments: 10 YR 4/1 Munsell @ 10% Moisture
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Dry Weight (g): 298.28	Wash Weight (g): 291.71	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 2.26	Organics (%):	Carbonates (%): 63.20	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	
3.5	-2.49	5.62	0.78	0.26	0.78	0.26	
4	-2.25	4.76	0.77	0.26	1.55	0.52	
5	-2.00	4.00	1.39	0.47	2.94	0.99	
7	-1.50	2.83	3.62	1.21	6.56	2.20	
10	-1.00	2.00	7.45	2.50	14.01	4.70	
14	-0.50	1.41	13.57	4.55	27.58	9.25	
18	0.00	1.00	17.59	5.90	45.17	15.15	
25	0.50	0.71	21.24	7.12	66.41	22.27	
35	1.00	0.50	27.55	9.24	93.96	31.51	
45	1.50	0.35	42.49	14.25	136.45	45.76	
60	2.00	0.25	93.01	31.18	229.46	76.94	
80	2.50	0.18	46.84	15.70	276.30	92.64	
120	3.00	0.13	11.23	3.76	287.53	96.40	
170	3.50	0.09	3.06	1.03	290.59	97.43	
230	4.00	0.06	0.91	0.31	291.50	97.74	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.81	2.22	1.97	1.57	0.65	0.06	-0.97
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.21	0.43	1.11	-1.01	3.93	

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-12 #S-4 (18.6')
Analysis Date: 04-01-10
Analyzed By: JR

Easting (ft): 968693.	Northing (ft): 976243.	Coordinate System: Florida State Plane East	Elevation (ft): -62.1 NAVD 88
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USCS: SM	Munsell: Wet - 10YR-5/1	Comments: 10 YR 5/1 Munsell @ 10% Moisture
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Dry Weight (g): 307.20	Wash Weight (g): 252.46	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 19.40	Organics (%):	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	
3.5	-2.49	5.62	0.18	0.06	0.18	0.06	
4	-2.25	4.76	0.42	0.14	0.60	0.20	
5	-2.00	4.00	0.30	0.10	0.90	0.30	
7	-1.50	2.83	1.00	0.33	1.90	0.63	
10	-1.00	2.00	2.47	0.80	4.37	1.43	
14	-0.50	1.41	3.52	1.15	7.89	2.58	
18	0.00	1.00	4.75	1.55	12.64	4.13	
25	0.50	0.71	7.00	2.28	19.64	6.41	
35	1.00	0.50	14.03	4.57	33.67	10.98	
45	1.50	0.35	26.43	8.60	60.10	19.58	
60	2.00	0.25	72.18	23.50	132.28	43.08	
80	2.50	0.18	61.22	19.93	193.50	63.01	
120	3.00	0.13	21.72	7.07	215.22	70.08	
170	3.50	0.09	14.65	4.77	229.87	74.85	
230	4.00	0.06	17.66	5.75	247.53	80.60	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
		3.51	2.17	1.62	1.29	0.19
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	1.91	0.27	1.03	-0.81	5.05	

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-12 PCC #S-1 (14')
Analysis Date: 02-23-10
Analyzed By: ML

Easting (ft): 968693.	Northing (ft): 976243.	Coordinate System: Florida State Plane East	Elevation (ft): -57.5 NAVD 88
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USCS: SP	Munsell:	Comments: 10 YR 4/1 Munsell @ 10% moisture. Sample after calcium carbonate.
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Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
25.22	24.97			#230 - 1.21			
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	
3.5	-2.49	5.62	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	0.00	0.00	0.00	0.00	
25	0.50	0.71	0.04	0.16	0.04	0.16	
35	1.00	0.50	0.46	1.82	0.50	1.98	
45	1.50	0.35	3.03	12.01	3.53	13.99	
60	2.00	0.25	14.82	58.76	18.35	72.75	
80	2.50	0.18	5.06	20.06	23.41	92.81	
120	3.00	0.13	1.01	4.00	24.42	96.81	
170	3.50	0.09	0.34	1.35	24.76	98.16	
230	4.00	0.06	0.16	0.63	24.92	98.79	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.77	2.28	2.06	1.81	1.59	1.52	1.13
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	1.84	0.28	0.44	0.83	6.09	

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-14 #S-1 (1')
Analysis Date: 04-16-10
Analyzed By: JR

Easting (ft): 966134.	Northing (ft): 974400.	Coordinate System: Florida State Plane East	Elevation (ft): -45.7 NAVD 88
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USCS: SW	Munsell: Wet - 10YR-4/1	Comments: 10 YR 4/1 Munsell @ 10% Moisture
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Dry Weight (g): 360.70	Wash Weight (g): 357.88	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 0.80	Organics (%):	Carbonates (%): 75.50	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	
3.5	-2.49	5.62	2.37	0.66	2.37	0.66	
4	-2.25	4.76	0.68	0.19	3.05	0.85	
5	-2.00	4.00	1.02	0.28	4.07	1.13	
7	-1.50	2.83	2.61	0.72	6.68	1.85	
10	-1.00	2.00	5.04	1.40	11.72	3.25	
14	-0.50	1.41	14.69	4.07	26.41	7.32	
18	0.00	1.00	33.78	9.37	60.19	16.69	
25	0.50	0.71	56.03	15.53	116.22	32.22	
35	1.00	0.50	68.86	19.09	185.08	51.31	
45	1.50	0.35	84.84	23.52	269.92	74.83	
60	2.00	0.25	67.36	18.67	337.28	93.50	
80	2.50	0.18	14.52	4.03	351.80	97.53	
120	3.00	0.13	4.63	1.28	356.43	98.81	
170	3.50	0.09	1.05	0.29	357.48	99.10	
230	4.00	0.06	0.37	0.10	357.85	99.20	

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.19	1.75	1.50	0.97	0.27	-0.04	-0.79

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	0.83	0.56	0.95	-0.89	5.17

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10

Sample Name: JI-14 #S-2 (6')

Analysis Date: 04-20-10

Analyzed By: JR

Easting (ft): 966134.	Northing (ft): 974400.	Coordinate System: Florida State Plane East	Elevation (ft): -50.7 NAVD 88
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USCS: SW	Munsell: Wet - 10YR-4/1	Comments: 10 YR 4/1 Munsell @ 10% Moisture
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Dry Weight (g): 384.50	Wash Weight (g): 382.60	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 0.57	Organics (%):	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	
3.5	-2.49	5.62	1.50	0.39	1.50	0.39	
4	-2.25	4.76	0.60	0.16	2.10	0.55	
5	-2.00	4.00	0.60	0.16	2.70	0.71	
7	-1.50	2.83	2.60	0.68	5.30	1.39	
10	-1.00	2.00	4.90	1.27	10.20	2.66	
14	-0.50	1.41	8.40	2.18	18.60	4.84	
18	0.00	1.00	11.80	3.07	30.40	7.91	
25	0.50	0.71	18.50	4.81	48.90	12.72	
35	1.00	0.50	37.40	9.73	86.30	22.45	
45	1.50	0.35	64.10	16.67	150.40	39.12	
60	2.00	0.25	110.50	28.74	260.90	67.86	
80	2.50	0.18	91.40	23.77	352.30	91.63	
120	3.00	0.13	24.80	6.45	377.10	98.08	
170	3.50	0.09	3.90	1.01	381.00	99.09	
230	4.00	0.06	1.30	0.34	382.30	99.43	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.76	2.34	2.15	1.69	1.08	0.67	-0.47
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	1.49	0.36	0.98	-1.42	6.24	

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT 6/26/10

Granulometric Report
 Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
 Sample Name: JI-14 #S-3 (11')
 Analysis Date: 04-24-10
 Analyzed By: JR

Easting (ft): 966134.	Northing (ft): 974400.	Coordinate System: Florida State Plane East	Elevation (ft): -55.7 NAVD 88
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USCS: SP	Munsell: Wet - 10YR-4/1	Comments: 10 YR 4/1 Munsell @ 10% Moisture
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Dry Weight (g): 377.82	Wash Weight (g): 371.50	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 1.73	Organics (%):	Carbonates (%):	Shells (%):
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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
3.5	-2.49	5.62	0.17	0.04	0.17	0.04
4	-2.25	4.76	0.04	0.01	0.21	0.05
5	-2.00	4.00	0.19	0.05	0.40	0.10
7	-1.50	2.83	0.49	0.13	0.89	0.23
10	-1.00	2.00	0.75	0.20	1.64	0.43
14	-0.50	1.41	1.78	0.47	3.42	0.90
18	0.00	1.00	4.53	1.20	7.95	2.10
25	0.50	0.71	13.84	3.66	21.79	5.76
35	1.00	0.50	39.30	10.40	61.09	16.16
45	1.50	0.35	73.75	19.52	134.84	35.68
60	2.00	0.25	107.41	28.43	242.25	64.11
80	2.50	0.18	83.79	22.18	326.04	86.29
120	3.00	0.13	38.39	10.16	364.43	96.45
170	3.50	0.09	5.94	1.57	370.37	98.02
230	4.00	0.06	0.94	0.25	371.31	98.27

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.93	2.45	2.25	1.75	1.23	0.99	0.40

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	1.68	0.31	0.76	-0.72	4.98

GRANULARMETRIC REPORT JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granularmetric Report
 Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
 Sample Name: JI-14 #S-4 (14')
 Analysis Date: 04-20-10
 Analyzed By: JR

Easting (ft): 966134. Northing (ft): 974400. Coordinate System: Florida State Plane East Elevation (ft): -58.7 NAVD 88

USCS: SP Munsell: Wet - 10YR-4/1 Comments: 10 YR 4/1 Munsell @ 10% Moisture

Dry Weight (g): 392.51 Wash Weight (g): 381.72 Pan Retained (g): Sieve Loss (%): Fines (%): #230 - 2.90 Organics (%): 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
3.5	-2.49	5.62	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	0.15	0.60	0.15
10	-1.00	2.00	0.10	0.03	0.70	0.18
14	-0.50	1.41	0.40	0.10	1.10	0.28
18	0.00	1.00	0.90	0.23	2.00	0.51
25	0.50	0.71	3.80	0.97	5.80	1.48
35	1.00	0.50	19.20	4.89	25.00	6.37
45	1.50	0.35	62.40	15.90	87.40	22.27
60	2.00	0.25	126.30	32.18	213.70	54.45
80	2.50	0.18	110.30	28.10	324.00	82.55
120	3.00	0.13	49.10	12.51	373.10	95.06
170	3.50	0.09	6.20	1.58	379.30	96.64
230	4.00	0.06	1.80	0.46	381.10	97.10

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.00	2.56	2.37	1.93	1.54	1.30	0.86

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	1.9	0.27	0.62	-0.54	5.21

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-14 PCC #S-1 (11')
Analysis Date: 02-23-10
Analyzed By: ML

Easting (ft): 966134.	Northing (ft): 974400.	Coordinate System: Florida State Plane East	Elevation (ft): -55.7 NAVD 88
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USCS: SP	Munsell:	Comments: 10 YR 4/1 Munsell @ 10% moisture. Sample after calcium carbonate.
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Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
35.49	35.48			#230 - 0.35			
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	
3.25	-2.49	5.62	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	0.00	0.00	0.00	0.00	
25	0.50	0.71	0.20	0.56	0.20	0.56	
35	1.00	0.50	1.86	5.24	2.06	5.80	
45	1.50	0.35	6.32	17.81	8.38	23.61	
60	2.00	0.25	11.39	32.09	19.77	55.70	
80	2.50	0.18	8.50	23.95	28.27	79.65	
120	3.00	0.13	5.41	15.24	33.68	94.89	
170	3.50	0.09	1.26	3.55	34.94	98.44	
230	4.00	0.06	0.43	1.21	35.37	99.65	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.02	2.64	2.40	1.91	1.52	1.29	0.92
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	1.95	0.26	0.64	0.19	2.91	

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT - 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-15B #S-1 (2')
Analysis Date: 04-16-10
Analyzed By: ML

Easting (ft): 966633.	Northing (ft): 974483.	Coordinate System: Florida State Plane East	Elevation (ft): -43.9 NAVD 88
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USCS: SW	Munsell: Wet - 10YR-5/1	Comments: 10 YR 5/1 Munsell @ 10% Moisture
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Dry Weight (g): 201.49	Wash Weight (g): 198.20	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 1.64	Organics (%):	Carbonates (%): 80.70	Shells (%):
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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
3.5	-2.49	5.62	2.16	1.07	2.16	1.07
4	-2.25	4.76	0.18	0.09	2.34	1.16
5	-2.00	4.00	0.64	0.32	2.98	1.48
7	-1.50	2.83	2.19	1.09	5.17	2.57
10	-1.00	2.00	6.20	3.08	11.37	5.65
14	-0.50	1.41	18.38	9.12	29.75	14.77
18	0.00	1.00	32.16	15.96	61.91	30.73
25	0.50	0.71	33.76	16.76	95.67	47.49
35	1.00	0.50	31.71	15.74	127.38	63.23
45	1.50	0.35	29.10	14.44	156.48	77.67
60	2.00	0.25	26.96	13.38	183.44	91.05
80	2.50	0.18	10.32	5.12	193.76	96.17
120	3.00	0.13	3.04	1.51	196.80	97.68
170	3.50	0.09	0.98	0.49	197.78	98.17
230	4.00	0.06	0.39	0.19	198.17	98.36

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.39	1.74	1.41	0.58	-0.18	-0.46	-1.11

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	0.55	0.68	1.09	-0.38	3.79

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT 6/26/10

Granularmetric Report
 Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
 Sample Name: JI-15B #S-2 (6.5')
 Analysis Date: 04-21-10
 Analyzed By: ML

Easting (ft): 966633. Northing (ft): 974483. Coordinate System: Florida State Plane East Elevation (ft): -48.4 NAVD 88

USCS: SW Munsell: Wet - 10YR-5/1 Comments: 10 YR 5/1 Munsell @ 10% Moisture

Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
269.35	262.81			#230 - 2.51			
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	
3.5	-2.49	5.62	1.53	0.57	1.53	0.57	
4	-2.25	4.76	0.67	0.25	2.20	0.82	
5	-2.00	4.00	0.68	0.25	2.88	1.07	
7	-1.50	2.83	3.53	1.31	6.41	2.38	
10	-1.00	2.00	8.23	3.06	14.64	5.44	
14	-0.50	1.41	18.15	6.74	32.79	12.18	
18	0.00	1.00	21.81	8.10	54.60	20.28	
25	0.50	0.71	24.42	9.07	79.02	29.35	
35	1.00	0.50	32.16	11.94	111.18	41.29	
45	1.50	0.35	42.52	15.79	153.70	57.08	
60	2.00	0.25	66.39	24.65	220.09	81.73	
80	2.50	0.18	28.95	10.75	249.04	92.48	
120	3.00	0.13	9.96	3.70	259.00	96.18	
170	3.50	0.09	2.62	0.97	261.62	97.15	
230	4.00	0.06	0.91	0.34	262.53	97.49	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.84	2.11	1.86	1.28	0.26	-0.26	-1.07
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	0.99	0.50	1.16	-0.72	3.47	

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10

Sample Name: JI-15B #S-3 (10')

Analysis Date: 04-21-10

Analyzed By: ML

Easting (ft): 966633.	Northing (ft): 974483.	Coordinate System: Florida State Plane East	Elevation (ft): -51.9 NAVD 88
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USCS: SW	Munsell: Wet - 10YR-4/1	Comments: 10 YR 4/1 Munsell @ 10% Moisture
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Dry Weight (g): 240.35	Wash Weight (g): 235.81	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 1.96	Organics (%):	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	
3.5	-2.49	5.62	0.45	0.19	0.45	0.19	
4	-2.25	4.76	0.14	0.06	0.59	0.25	
5	-2.00	4.00	0.35	0.15	0.94	0.40	
7	-1.50	2.83	0.51	0.21	1.45	0.61	
10	-1.00	2.00	1.72	0.72	3.17	1.33	
14	-0.50	1.41	3.38	1.41	6.55	2.74	
18	0.00	1.00	5.16	2.15	11.71	4.89	
25	0.50	0.71	8.50	3.54	20.21	8.43	
35	1.00	0.50	18.91	7.87	39.12	16.30	
45	1.50	0.35	32.36	13.46	71.48	29.76	
60	2.00	0.25	68.83	28.64	140.31	58.40	
80	2.50	0.18	66.68	27.74	206.99	86.14	
120	3.00	0.13	25.31	10.53	232.30	96.67	
170	3.50	0.09	2.63	1.09	234.93	97.76	
230	4.00	0.06	0.68	0.28	235.61	98.04	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.92	2.46	2.30	1.85	1.32	0.98	0.02
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	1.69	0.31	0.87	-1.44	6.78	

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-15B #S-4 (13')
Analysis Date: 04-23-10
Analyzed By: ML

Easting (ft): 966633.	Northing (ft): 974483.	Coordinate System: Florida State Plane East	Elevation (ft): -54.9 NAVD 88
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USCS: SP-SM	Munsell: Wet - 10YR-4/1	Comments: 10 YR 4/1 Munsell @ 10% Moisture
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Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
188.23	178.32			#230 - 5.31		60.00	
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	
3.5	-2.49	5.62	0.42	0.22	0.42	0.22	
4	-2.25	4.76	0.13	0.07	0.55	0.29	
5	-2.00	4.00	0.14	0.07	0.69	0.36	
7	-1.50	2.83	0.22	0.12	0.91	0.48	
10	-1.00	2.00	0.46	0.24	1.37	0.72	
14	-0.50	1.41	1.06	0.56	2.43	1.28	
18	0.00	1.00	1.42	0.75	3.85	2.03	
25	0.50	0.71	2.50	1.33	6.35	3.36	
35	1.00	0.50	6.71	3.56	13.06	6.92	
45	1.50	0.35	19.10	10.15	32.16	17.07	
60	2.00	0.25	51.92	27.58	84.08	44.65	
80	2.50	0.18	56.94	30.25	141.02	74.90	
120	3.00	0.13	29.96	15.92	170.98	90.82	
170	3.50	0.09	5.90	3.13	176.88	93.95	
230	4.00	0.06	1.39	0.74	178.27	94.69	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
	2.79	2.50	2.09	1.64	1.45	0.73
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.97	0.26	0.77	-1.77	11.02	

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granularmetric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-15B PCC #S-1 (13')
Analysis Date: 02-23-10
Analyzed By: ML

Easting (ft): 966633.	Northing (ft): 974483.	Coordinate System: Florida State Plane East	Elevation (ft): -54.9 NAVD 88
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USCS: SP	Munsell:	Comments: 10 YR 4/1 Munsell @ 10% moisture. Sample after calcium carbonate.
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Dry Weight (g): 32.66	Wash Weight (g): 32.65	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 0.31	Organics (%):	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	
3.5	-2.49	5.62	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	0.00	0.00	0.00	0.00	
25	0.50	0.71	0.05	0.15	0.05	0.15	
35	1.00	0.50	0.57	1.75	0.62	1.90	
45	1.50	0.35	3.09	9.46	3.71	11.36	
60	2.00	0.25	9.60	29.39	13.31	40.75	
80	2.50	0.18	12.19	37.32	25.50	78.07	
120	3.00	0.13	5.14	15.74	30.64	93.81	
170	3.50	0.09	1.34	4.10	31.98	97.91	
230	4.00	0.06	0.58	1.78	32.56	99.69	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.15	2.69	2.46	2.12	1.73	1.58	1.16
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	2.13	0.23	0.57	0.22	3.51	

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-16 #S-1 (1.0')
Analysis Date: 04-21-10
Analyzed By: ML

Easting (ft): 968035.	Northing (ft): 975002.	Coordinate System: Florida State Plane East	Elevation (ft): -42.3 NAVD 88
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USCS: SP	Munsell: Wet - 10YR-5/1	Comments: 10 YR 5/1 Munsell @ 10% Moisture
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Dry Weight (g): 284.75	Wash Weight (g): 282.19	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 1.00	Organics (%):	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	
3.5	-2.49	5.62	0.00	0.00	0.00	0.00	
4	-2.25	4.76	0.03	0.01	0.03	0.01	
5	-2.00	4.00	0.08	0.03	0.11	0.04	
7	-1.50	2.83	0.31	0.11	0.42	0.15	
10	-1.00	2.00	0.63	0.22	1.05	0.37	
14	-0.50	1.41	2.62	0.92	3.67	1.29	
18	0.00	1.00	8.37	2.94	12.04	4.23	
25	0.50	0.71	18.95	6.65	30.99	10.88	
35	1.00	0.50	33.75	11.85	64.74	22.73	
45	1.50	0.35	55.17	19.37	119.91	42.10	
60	2.00	0.25	127.28	44.70	247.19	86.80	
80	2.50	0.18	30.73	10.79	277.92	97.59	
120	3.00	0.13	3.01	1.06	280.93	98.65	
170	3.50	0.09	0.60	0.21	281.53	98.86	
230	4.00	0.06	0.39	0.14	281.92	99.00	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.38	1.97	1.87	1.59	1.06	0.72	0.06
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.41	0.38	0.68	-1.01	4.65	

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report
 Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
 Sample Name: JI-16 #S-2 (5.0')
 Analysis Date: 04-24-10
 Analyzed By: JR

Easting (ft): 968035. Northing (ft): 975002. Coordinate System: Florida State Plane East Elevation (ft): -46.3 NAVD 88

USCS: SW Munsell: Wet - 10YR-5/1 Comments: 10 YR 5/1 Munsell @ 10% Moisture

Dry Weight (g): 339.19 Wash Weight (g): 334.87 Pan Retained (g): Sieve Loss (%): Fines (%): #230 - 1.29 Organics (%): Carbonates (%): 73.50 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
3.5	-2.49	5.62	0.78	0.23	0.78	0.23
4	-2.25	4.76	0.08	0.02	0.86	0.25
5	-2.00	4.00	0.27	0.08	1.13	0.33
7	-1.50	2.83	1.34	0.40	2.47	0.73
10	-1.00	2.00	2.87	0.85	5.34	1.58
14	-0.50	1.41	11.29	3.33	16.63	4.91
18	0.00	1.00	23.96	7.06	40.59	11.97
25	0.50	0.71	37.21	10.97	77.80	22.94
35	1.00	0.50	46.38	13.67	124.18	36.61
45	1.50	0.35	56.56	16.68	180.74	53.29
60	2.00	0.25	95.45	28.14	276.19	81.43
80	2.50	0.18	48.26	14.23	324.45	95.66
120	3.00	0.13	8.14	2.40	332.59	98.06
170	3.50	0.09	1.75	0.52	334.34	98.58
230	4.00	0.06	0.44	0.13	334.78	98.71

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.48	2.09	1.89	1.40	0.58	0.18	-0.49

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	1.18	0.44	0.94	-0.78	3.94

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report
 Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
 Sample Name: JI-16 #S-3 (8.0')
 Analysis Date: 04-21-10
 Analyzed By: JR

Easting (ft): 968035.	Northing (ft): 975002.	Coordinate System: Florida State Plane East	Elevation (ft): -49.3 NAVD 88
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USCS: SW	Munsell: Wet - 10YR-5/1	Comments: 10 YR 5/1 Munsell @ 10% Moisture
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Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
270.03	266.52			#230 - 1.37			
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	
3.5	-2.49	5.62	0.50	0.19	0.50	0.19	
4	-2.25	4.76	0.25	0.09	0.75	0.28	
5	-2.00	4.00	0.22	0.08	0.97	0.36	
7	-1.50	2.83	1.81	0.67	2.78	1.03	
10	-1.00	2.00	4.27	1.58	7.05	2.61	
14	-0.50	1.41	9.00	3.33	16.05	5.94	
18	0.00	1.00	14.76	5.47	30.81	11.41	
25	0.50	0.71	25.58	9.47	56.39	20.88	
35	1.00	0.50	37.38	13.84	93.77	34.72	
45	1.50	0.35	48.05	17.79	141.82	52.51	
60	2.00	0.25	84.00	31.11	225.82	83.62	
80	2.50	0.18	33.28	12.32	259.10	95.94	
120	3.00	0.13	5.92	2.19	265.02	98.13	
170	3.50	0.09	1.02	0.38	266.04	98.51	
230	4.00	0.06	0.32	0.12	266.36	98.63	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.46	2.02	1.86	1.43	0.65	0.24	-0.64
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.18	0.44	0.94	-0.96	4.27	

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granularmetric Report
Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-16 #S-4 (11.0')
Analysis Date: 04-16-10
Analyzed By: ML

Easting (ft): 968035.	Northing (ft): 975002.	Coordinate System: Florida State Plane East	Elevation (ft): -52.3 NAVD 88
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USCS: SW	Munsell: Wet - 10YR-5/1	Comments: 10 YR 4/1 Munsell @ 10% Moisture
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Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
374.44	365.69			#230 - 2.46		67.60	
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	
3.5	-2.49	5.62	0.85	0.23	0.85	0.23	
4	-2.25	4.76	0.29	0.08	1.14	0.31	
5	-2.00	4.00	0.25	0.07	1.39	0.38	
7	-1.50	2.83	1.08	0.29	2.47	0.67	
10	-1.00	2.00	3.28	0.88	5.75	1.55	
14	-0.50	1.41	8.39	2.24	14.14	3.79	
18	0.00	1.00	17.46	4.66	31.60	8.45	
25	0.50	0.71	32.10	8.57	63.70	17.02	
35	1.00	0.50	55.13	14.72	118.83	31.74	
45	1.50	0.35	69.63	18.60	188.46	50.34	
60	2.00	0.25	116.58	31.13	305.04	81.47	
80	2.50	0.18	46.35	12.38	351.39	93.85	
120	3.00	0.13	10.83	2.89	362.22	96.74	
170	3.50	0.09	2.16	0.58	364.38	97.32	
230	4.00	0.06	0.81	0.22	365.19	97.54	

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.70	2.10	1.90	1.49	0.77	0.44	-0.37

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	1.27	0.41	0.89	-0.95	5.03

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-16 PCC #S-1 (5')
Analysis Date: 05-19-10
Analyzed By: ML

Easting (ft): 968035.	Northing (ft): 975002.	Coordinate System: Florida State Plane East	Elevation (ft): -46.3 NAVD 88
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USCS: SP	Munsell:	Comments: 10 YR 5/1 Munsell @ 10% moisture
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Dry Weight (g): 22.31	Wash Weight (g): 22.31	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 0.36	Organics (%):	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	
3.5	-2.49	5.62	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	0.18	0.04	0.18	
25	0.50	0.71	0.36	1.61	0.40	1.79	
35	1.00	0.50	1.21	5.42	1.61	7.21	
45	1.50	0.35	2.51	11.25	4.12	18.46	
60	2.00	0.25	9.86	44.20	13.98	62.66	
80	2.50	0.18	6.64	29.76	20.62	92.42	
120	3.00	0.13	1.07	4.80	21.69	97.22	
170	3.50	0.09	0.34	1.52	22.03	98.74	
230	4.00	0.06	0.20	0.90	22.23	99.64	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.77	2.36	2.21	1.86	1.57	1.39	0.80
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	1.85	0.28	0.56	-0.13	4.7	

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granularmetric Report
Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-18 #S-1 (3')
Analysis Date: 04-21-10
Analyzed By: JR

Easting (ft): 966446. Northing (ft): 973427. Coordinate System: Florida State Plane East Elevation (ft): -47.4 NAVD 88

USCS: SW Munsell: Wet - 10YR-5/1 Comments: 10 YR 5/1 Munsell @ 10% Moisture

Dry Weight (g): 280.08 Wash Weight (g): 276.65 Pan Retained (g): Sieve Loss (%): Fines (%): #230 - 1.33 Organics (%): 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
3.5	-2.49	5.62	0.99	0.35	0.99	0.35
4	-2.25	4.76	0.30	0.11	1.29	0.46
5	-2.00	4.00	0.62	0.22	1.91	0.68
7	-1.50	2.83	1.28	0.46	3.19	1.14
10	-1.00	2.00	4.68	1.67	7.87	2.81
14	-0.50	1.41	14.82	5.29	22.69	8.10
18	0.00	1.00	28.03	10.01	50.72	18.11
25	0.50	0.71	34.78	12.42	85.50	30.53
35	1.00	0.50	37.67	13.45	123.17	43.98
45	1.50	0.35	44.95	16.05	168.12	60.03
60	2.00	0.25	61.67	22.02	229.79	82.05
80	2.50	0.18	37.95	13.55	267.74	95.60
120	3.00	0.13	6.80	2.43	274.54	98.03
170	3.50	0.09	1.47	0.52	276.01	98.55
230	4.00	0.06	0.35	0.12	276.36	98.67

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.48	2.07	1.84	1.19	0.28	-0.11	-0.79

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	1.01	0.50	1.04	-0.61	3.41

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report
 Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
 Sample Name: JI-18 #S-2 (5.2')
 Analysis Date: 04-23-10
 Analyzed By: ML

Easting (ft): 966446. Northing (ft): 973427. Coordinate System: Florida State Plane East Elevation (ft): -49.6 NAVD 88

USCS: SW Munsell: Wet - 10YR-5/1 Comments: 10 YR 5/1 Munsell @ 10% Moisture

Dry Weight (g): 228.36 Wash Weight (g): 226.12 Pan Retained (g): Sieve Loss (%): Fines (%): #230 - 1.12 Organics (%): Carbonates (%): 84.20 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
3.5	-2.49	5.62	9.98	4.37	9.98	4.37
4	-2.25	4.76	2.27	0.99	12.25	5.36
5	-2.00	4.00	3.04	1.33	15.29	6.69
7	-1.50	2.83	9.07	3.97	24.36	10.66
10	-1.00	2.00	18.03	7.90	42.39	18.56
14	-0.50	1.41	32.60	14.28	74.99	32.84
18	0.00	1.00	32.86	14.39	107.85	47.23
25	0.50	0.71	26.78	11.73	134.63	58.96
35	1.00	0.50	22.29	9.76	156.92	68.72
45	1.50	0.35	22.47	9.84	179.39	78.56
60	2.00	0.25	29.15	12.76	208.54	91.32
80	2.50	0.18	13.82	6.05	222.36	97.37
120	3.00	0.13	2.56	1.12	224.92	98.49
170	3.50	0.09	0.62	0.27	225.54	98.76
230	4.00	0.06	0.28	0.12	225.82	98.88

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.30	1.71	1.32	0.12	-0.77	-1.16	-2.34

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	0.12	0.92	1.41	-0.39	2.88

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-18 #S-3 (9.5')
Analysis Date: 04-16-10
Analyzed By: ML

Easting (ft): 966446.	Northing (ft): 973427.	Coordinate System: Florida State Plane East	Elevation (ft): -53.9 NAVD 88
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USCS: SW-SM	Munsell: Wet - 10YR-4/1	Comments: 10 YR 4/1 Munsell @ 10% Moisture
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Dry Weight (g): 232.31	Wash Weight (g): 215.15	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 7.69	Organics (%):	Carbonates (%): 67.90	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	
3.5	-2.49	5.62	0.24	0.10	0.24	0.10	
4	-2.25	4.76	0.35	0.15	0.59	0.25	
5	-2.00	4.00	0.51	0.22	1.10	0.47	
7	-1.50	2.83	2.36	1.02	3.46	1.49	
10	-1.00	2.00	5.30	2.28	8.76	3.77	
14	-0.50	1.41	7.71	3.32	16.47	7.09	
18	0.00	1.00	9.45	4.07	25.92	11.16	
25	0.50	0.71	11.45	4.93	37.37	16.09	
35	1.00	0.50	14.63	6.30	52.00	22.39	
45	1.50	0.35	16.61	7.15	68.61	29.54	
60	2.00	0.25	38.78	16.69	107.39	46.23	
80	2.50	0.18	53.53	23.04	160.92	69.27	
120	3.00	0.13	34.44	14.83	195.36	84.10	
170	3.50	0.09	15.37	6.62	210.73	90.72	
230	4.00	0.06	3.70	1.59	214.43	92.31	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
	3.00	2.69	2.08	1.18	0.49	-0.81
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	1.68	0.31	1.23	-0.98	3.58	

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report
Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-18 #S-4 (12')
Analysis Date: 04-21-10
Analyzed By: JR

Easting (ft): 966446. Northing (ft): 973427. Coordinate System: Florida State Plane East Elevation (ft): -56.4 NAVD 88

USCS: SW Munsell: Wet - 10YR-5/1 Comments: 10 YR 5/1 Munsell @ 10% Moisture

Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
311.19	300.81			#230 - 3.35			
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	
3.5	-2.49	5.62	2.42	0.78	2.42	0.78	
4	-2.25	4.76	0.71	0.23	3.13	1.01	
5	-2.00	4.00	0.46	0.15	3.59	1.16	
7	-1.50	2.83	1.15	0.37	4.74	1.53	
10	-1.00	2.00	2.70	0.87	7.44	2.40	
14	-0.50	1.41	8.17	2.63	15.61	5.03	
18	0.00	1.00	19.26	6.19	34.87	11.22	
25	0.50	0.71	34.03	10.94	68.90	22.16	
35	1.00	0.50	44.81	14.40	113.71	36.56	
45	1.50	0.35	55.02	17.68	168.73	54.24	
60	2.00	0.25	65.31	20.99	234.04	75.23	
80	2.50	0.18	44.83	14.41	278.87	89.64	
120	3.00	0.13	16.05	5.16	294.92	94.80	
170	3.50	0.09	4.14	1.33	299.06	96.13	
230	4.00	0.06	1.63	0.52	300.69	96.65	

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.08	2.30	1.99	1.38	0.60	0.22	-0.51

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	1.21	0.43	1.06	-0.9	5.12

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granularmetric Report
Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-18 PCC #S-1 (5.2')
Analysis Date: 02-23-10
Analyzed By: ML

Easting (ft): 966446. Northing (ft): 973427. Coordinate System: Florida State Plane East Elevation (ft): -49.6 NAVD 88

USCS: SP Munsell: Comments: 10 YR 5/1 Munsell @ 10% moisture. Sample after calcium carbonate.

Dry Weight (g): 12.45 Wash Weight (g): 12.45 Pan Retained (g): Sieve Loss (%): Fines (%): #230 - 0.23 Organics (%): 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
3.5	-2.49	5.62	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	0.02	0.16	0.02	0.16
25	0.50	0.71	0.19	1.53	0.21	1.69
35	1.00	0.50	0.61	4.90	0.82	6.59
45	1.50	0.35	2.11	16.95	2.93	23.54
60	2.00	0.25	5.23	42.01	8.16	65.55
80	2.50	0.18	3.23	25.94	11.39	91.49
120	3.00	0.13	0.60	4.82	11.99	96.31
170	3.50	0.09	0.25	2.01	12.24	98.32
230	4.00	0.06	0.18	1.45	12.42	99.77

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.86	2.36	2.18	1.81	1.52	1.28	0.84

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	1.83	0.28	0.59	0.25	4.53

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granularmetric Report
 Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
 Sample Name: JI-19 #S-1 (1')
 Analysis Date: 04-21-10
 Analyzed By: ML

Easting (ft): 967398. Northing (ft): 973737. Coordinate System: Florida State Plane East Elevation (ft): -50.0 NAVD 88

USCS: SW Munsell: Wet - 10YR-5/1 Comments: 10 YR 5/1 Munsell @ 10% Moisture

Dry Weight (g): 246.52 Wash Weight (g): 243.08 Pan Retained (g): Sieve Loss (%): Fines (%): #230 - 1.40 Organics (%): Carbonates (%): 77.00 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
3.5	-2.49	5.62	2.89	1.17	2.89	1.17
4	-2.25	4.76	0.19	0.08	3.08	1.25
5	-2.00	4.00	0.61	0.25	3.69	1.50
7	-1.50	2.83	1.15	0.47	4.84	1.97
10	-1.00	2.00	3.38	1.37	8.22	3.34
14	-0.50	1.41	10.41	4.22	18.63	7.56
18	0.00	1.00	26.47	10.74	45.10	18.30
25	0.50	0.71	37.29	15.13	82.39	33.43
35	1.00	0.50	39.78	16.14	122.17	49.57
45	1.50	0.35	42.62	17.29	164.79	66.86
60	2.00	0.25	55.77	22.62	220.56	89.48
80	2.50	0.18	17.83	7.23	238.39	96.71
120	3.00	0.13	3.21	1.30	241.60	98.01
170	3.50	0.09	1.04	0.42	242.64	98.43
230	4.00	0.06	0.43	0.17	243.07	98.60

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.38	1.88	1.68	1.01	0.22	-0.11	-0.80

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	0.87	0.55	1.04	-0.94	5.13

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-19 #S-2 (7')
Analysis Date: 04-21-10
Analyzed By: JR

Easting (ft): 967398.	Northing (ft): 973737.	Coordinate System: Florida State Plane East	Elevation (ft): -56.0 NAVD 88
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USCS: SW	Munsell: Wet - 10YR-5/1	Comments: 10 YR 5/1 Munsell @ 10% Moisture
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Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
307.54	300.56			#230 - 2.35			
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	
3.5	-2.49	5.62	0.96	0.31	0.96	0.31	
4	-2.25	4.76	0.65	0.21	1.61	0.52	
5	-2.00	4.00	0.73	0.24	2.34	0.76	
7	-1.50	2.83	2.25	0.73	4.59	1.49	
10	-1.00	2.00	4.53	1.47	9.12	2.96	
14	-0.50	1.41	10.83	3.52	19.95	6.48	
18	0.00	1.00	14.70	4.78	34.65	11.26	
25	0.50	0.71	19.26	6.26	53.91	17.52	
35	1.00	0.50	36.90	12.00	90.81	29.52	
45	1.50	0.35	54.97	17.87	145.78	47.39	
60	2.00	0.25	83.26	27.07	229.04	74.46	
80	2.50	0.18	53.27	17.32	282.31	91.78	
120	3.00	0.13	13.10	4.26	295.41	96.04	
170	3.50	0.09	3.73	1.21	299.14	97.25	
230	4.00	0.06	1.23	0.40	300.37	97.65	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.88	2.28	2.02	1.55	0.81	0.38	-0.71
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.3	0.41	1.03	-1.05	4.73	

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT 6/26/10

Granulometric Report
 Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
 Sample Name: JI-19 #S-3 (10.1')
 Analysis Date: 04-23-10
 Analyzed By: ML

Easting (ft): 967398. Northing (ft): 973737. Coordinate System: Florida State Plane East Elevation (ft): -59.1 NAVD 88

USCS: SW Munsell: Wet - 10YR-4/1 Comments: 10 YR 4/1 Munsell @ 10% Moisture

Dry Weight (g): 237.23 Wash Weight (g): 231.12 Pan Retained (g): Sieve Loss (%): Fines (%): #230 - 2.77 Organics (%): Carbonates (%): 67.60 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
3.5	-2.49	5.62	6.63	2.79	6.63	2.79
4	-2.25	4.76	1.27	0.54	7.90	3.33
5	-2.00	4.00	1.39	0.59	9.29	3.92
7	-1.50	2.83	4.33	1.83	13.62	5.75
10	-1.00	2.00	5.84	2.46	19.46	8.21
14	-0.50	1.41	8.30	3.50	27.76	11.71
18	0.00	1.00	11.62	4.90	39.38	16.61
25	0.50	0.71	18.09	7.63	57.47	24.24
35	1.00	0.50	26.24	11.06	83.71	35.30
45	1.50	0.35	33.21	14.00	116.92	49.30
60	2.00	0.25	44.16	18.61	161.08	67.91
80	2.50	0.18	43.86	18.49	204.94	86.40
120	3.00	0.13	19.32	8.14	224.26	94.54
170	3.50	0.09	4.79	2.02	229.05	96.56
230	4.00	0.06	1.58	0.67	230.63	97.23

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.11	2.44	2.19	1.52	0.53	-0.06	-1.70

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	1.14	0.45	1.41	-1.21	4.54

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report
 Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
 Sample Name: JI-19 #S-4 (13.5')
 Analysis Date: 04-21-10
 Analyzed By: JR

Easting (ft): 967398. Northing (ft): 973737. Coordinate System: Florida State Plane East Elevation (ft): -62.5 NAVD 88

USCS: SP Munsell: Wet - 10YR-4/1 Comments: 10 YR 4/1 Munsell @ 10% Moisture

Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
210.87	205.89			#230 - 2.50			
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	
3.5	-2.49	5.62	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	0.29	0.14	0.29	0.14	
14	-0.50	1.41	1.07	0.51	1.36	0.65	
18	0.00	1.00	5.20	2.47	6.56	3.12	
25	0.50	0.71	18.99	9.01	25.55	12.13	
35	1.00	0.50	41.61	19.73	67.16	31.86	
45	1.50	0.35	52.43	24.86	119.59	56.72	
60	2.00	0.25	51.15	24.26	170.74	80.98	
80	2.50	0.18	24.57	11.65	195.31	92.63	
120	3.00	0.13	8.53	4.05	203.84	96.68	
170	3.50	0.09	1.40	0.66	205.24	97.34	
230	4.00	0.06	0.34	0.16	205.58	97.50	

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.79	2.13	1.88	1.36	0.83	0.60	0.10

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	1.33	0.40	0.73	-0.06	3.05

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT. 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-19 PCC #S-1 (10.1')
Analysis Date: 02-23-10
Analyzed By: ML

Easting (ft): 967398.	Northing (ft): 973737.	Coordinate System: Florida State Plane East	Elevation (ft): -59.1 NAVD 88
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USCS: SP	Munsell:	Comments: 10 YR 4/1 Munsell @ 10% moisture. Sample after calcium carbonate.
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Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
26.01	25.99			#230 - 0.74			
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	
3.5	-2.49	5.62	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	0.15	0.04	0.15	
25	0.50	0.71	0.51	1.96	0.55	2.11	
35	1.00	0.50	2.30	8.84	2.85	10.95	
45	1.50	0.35	5.08	19.53	7.93	30.48	
60	2.00	0.25	7.52	28.91	15.45	59.39	
80	2.50	0.18	5.95	22.88	21.40	82.27	
120	3.00	0.13	2.95	11.34	24.35	93.61	
170	3.50	0.09	0.89	3.42	25.24	97.03	
230	4.00	0.06	0.58	2.23	25.82	99.26	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.20	2.58	2.34	1.84	1.36	1.13	0.66
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	1.86	0.28	0.72	0.22	3.07	

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT 6/26/10

Granulometric Report
Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-21 #S-1 (1.5')
Analysis Date: 04-22-10
Analyzed By: ML

Easting (ft): 966746.	Northing (ft): 972478.	Coordinate System: Florida State Plane East	Elevation (ft): -52.6 NAVD 88
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USCS: SW	Munsell: Wet - 10YR-5/1	Comments: 10 YR 5/1 Munsell @ 10% Moisture
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Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
166.74	165.31			#230 - 0.85			
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	
3.5	-2.49	5.62	15.80	9.48	15.80	9.48	
4	-2.25	4.76	1.09	0.65	16.89	10.13	
5	-2.00	4.00	1.46	0.88	18.35	11.01	
7	-1.50	2.83	3.93	2.36	22.28	13.37	
10	-1.00	2.00	7.39	4.43	29.67	17.80	
14	-0.50	1.41	13.77	8.26	43.44	26.06	
18	0.00	1.00	25.54	15.32	68.98	41.38	
25	0.50	0.71	34.78	20.86	103.76	62.24	
35	1.00	0.50	25.02	15.01	128.78	77.25	
45	1.50	0.35	16.07	9.64	144.85	86.89	
60	2.00	0.25	12.95	7.77	157.80	94.66	
80	2.50	0.18	5.87	3.52	163.67	98.18	
120	3.00	0.13	1.25	0.75	164.92	98.93	
170	3.50	0.09	0.29	0.17	165.21	99.10	
230	4.00	0.06	0.08	0.05	165.29	99.15	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.05	1.35	0.93	0.21	-0.56	-1.20	-3.32
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	-0.02	1.01	1.45	-0.85	3.47	

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-21 #S-2 (2')
Analysis Date: 04-23-10
Analyzed By: ML

Easting (ft): 966746.	Northing (ft): 972478.	Coordinate System: Florida State Plane East	Elevation (ft): -53.1 NAVD 88
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USCS: SW	Munsell: Wet - 10YR-4/1	Comments: 10 YR 4/1 Munsell @ 10% Moisture
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Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
210.33	207.76			#230 - 1.27		73.40	

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
3.5	-2.49	5.62	0.29	0.14	0.29	0.14
4	-2.25	4.76	0.45	0.21	0.74	0.35
5	-2.00	4.00	0.41	0.19	1.15	0.54
7	-1.50	2.83	1.96	0.93	3.11	1.47
10	-1.00	2.00	3.22	1.53	6.33	3.00
14	-0.50	1.41	6.76	3.21	13.09	6.21
18	0.00	1.00	11.23	5.34	24.32	11.55
25	0.50	0.71	19.22	9.14	43.54	20.69
35	1.00	0.50	28.17	13.39	71.71	34.08
45	1.50	0.35	37.92	18.03	109.63	52.11
60	2.00	0.25	56.51	26.87	166.14	78.98
80	2.50	0.18	33.41	15.88	199.55	94.86
120	3.00	0.13	7.18	3.41	206.73	98.27
170	3.50	0.09	0.73	0.35	207.46	98.62
230	4.00	0.06	0.23	0.11	207.69	98.73

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.52	2.16	1.93	1.44	0.66	0.24	-0.69

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	1.21	0.43	0.98	-0.95	4.11

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-21 #S-3 (7')
Analysis Date: 04-22-10
Analyzed By: ML

Easting (ft): 966746.	Northing (ft): 972478.	Coordinate System: Florida State Plane East	Elevation (ft): -58.1 NAVD 88
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USCS: SP	Munsell: Wet - 10YR-4/1	Comments: 10 YR 4/1 Munsell @ 10% Moisture
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Dry Weight (g): 172.58	Wash Weight (g): 169.41	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 1.94	Organics (%):	Carbonates (%):	Shells (%):
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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
3.5	-2.49	5.62	0.00	0.00	0.00	0.00
4	-2.25	4.76	0.11	0.06	0.11	0.06
5	-2.00	4.00	0.06	0.03	0.17	0.09
7	-1.50	2.83	0.27	0.16	0.44	0.25
10	-1.00	2.00	1.09	0.63	1.53	0.88
14	-0.50	1.41	2.98	1.73	4.51	2.61
18	0.00	1.00	6.30	3.65	10.81	6.26
25	0.50	0.71	13.52	7.83	24.33	14.09
35	1.00	0.50	24.76	14.35	49.09	28.44
45	1.50	0.35	38.87	22.52	87.96	50.96
60	2.00	0.25	48.86	28.31	136.82	79.27
80	2.50	0.18	23.97	13.89	160.79	93.16
120	3.00	0.13	6.77	3.92	167.56	97.08
170	3.50	0.09	1.20	0.70	168.76	97.78
230	4.00	0.06	0.48	0.28	169.24	98.06

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.73	2.17	1.92	1.48	0.88	0.57	-0.17

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	1.35	0.39	0.82	-0.61	3.87

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report
 Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
 Sample Name: JI-21 #S-4 (14')
 Analysis Date: 04-22-10
 Analyzed By: ML

Easting (ft): 966746. Northing (ft): 972478. Coordinate System: Florida State Plane East Elevation (ft): -65.1 NAVD 88

USCS: SP Munsell: Wet - 10YR-4/1 Comments: 10 YR 4/1 Munsell @ 10% Moisture

Dry Weight (g): 185.59 Wash Weight (g): 180.92 Pan Retained (g): Sieve Loss (%): Fines (%): #230 - 2.61 Organics (%): Carbonates (%): 65.50 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
3.5	-2.49	5.62	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	0.05	0.03	0.05	0.03
10	-1.00	2.00	0.26	0.14	0.31	0.17
14	-0.50	1.41	1.08	0.58	1.39	0.75
18	0.00	1.00	2.87	1.55	4.26	2.30
25	0.50	0.71	7.68	4.14	11.94	6.44
35	1.00	0.50	19.53	10.52	31.47	16.96
45	1.50	0.35	44.24	23.84	75.71	40.80
60	2.00	0.25	57.64	31.06	133.35	71.86
80	2.50	0.18	28.84	15.54	162.19	87.40
120	3.00	0.13	14.70	7.92	176.89	95.32
170	3.50	0.09	2.89	1.56	179.78	96.88
230	4.00	0.06	0.94	0.51	180.72	97.39

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.98	2.39	2.10	1.65	1.17	0.95	0.33
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.6	0.33	0.73	-0.28	3.81	

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granularmetric Report
 Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
 Sample Name: JI-21 PCC #S-1 (2')
 Analysis Date: 02-23-10
 Analyzed By: ML

Easting (ft): 966746. Northing (ft): 972478. Coordinate System: Florida State Plane East Elevation (ft): -53.1 NAVD 88

USCS: SP Munsell: Comments: 10 YR 4/1 Munsell @ 10% moisture. Sample after calcium carbonate.

Dry Weight (g): 21.67 Wash Weight (g): 21.63 Pan Retained (g): Sieve Loss (%): Fines (%): #230 - 0.54 Organics (%): 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
3.5	-2.49	5.62	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	0.03	0.14	0.03	0.14
25	0.50	0.71	0.34	1.57	0.37	1.71
35	1.00	0.50	1.54	7.11	1.91	8.82
45	1.50	0.35	4.14	19.10	6.05	27.92
60	2.00	0.25	8.23	37.98	14.28	65.90
80	2.50	0.18	5.33	24.60	19.61	90.50
120	3.00	0.13	1.41	6.51	21.02	97.01
170	3.50	0.09	0.35	1.62	21.37	98.63
230	4.00	0.06	0.18	0.83	21.55	99.46

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.85	2.37	2.18	1.79	1.42	1.19	0.73

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	1.79	0.29	0.6	0.09	3.75

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-24B #S-1 (2')
Analysis Date: 04-22-10
Analyzed By: ML

Easting (ft): 966375.	Northing (ft): 971336.	Coordinate System: Florida State Plane East	Elevation (ft): -53.5 NAVD 88
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USCS: SW	Munsell: Wet - 10YR-4/1	Comments: 10 YR 4/1 Munsell @ 10% Moisture
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Dry Weight (g): 338.95	Wash Weight (g): 333.20	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 1.79	Organics (%):	Carbonates (%): 74.80	Shells (%):
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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
3.5	-2.49	5.62	7.44	2.20	7.44	2.20
4	-2.25	4.76	1.38	0.41	8.82	2.61
5	-2.00	4.00	2.38	0.70	11.20	3.31
7	-1.50	2.83	3.14	0.93	14.34	4.24
10	-1.00	2.00	9.88	2.91	24.22	7.15
14	-0.50	1.41	30.30	8.94	54.52	16.09
18	0.00	1.00	47.87	14.12	102.39	30.21
25	0.50	0.71	45.52	13.43	147.91	43.64
35	1.00	0.50	42.62	12.57	190.53	56.21
45	1.50	0.35	42.59	12.57	233.12	68.78
60	2.00	0.25	52.66	15.54	285.78	84.32
80	2.50	0.18	36.80	10.86	322.58	95.18
120	3.00	0.13	8.20	2.42	330.78	97.60
170	3.50	0.09	1.59	0.47	332.37	98.07
230	4.00	0.06	0.47	0.14	332.84	98.21

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.49	1.99	1.70	0.75	-0.18	-0.51	-1.37

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	0.65	0.64	1.27	-0.66	3.68

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granularmetric Report
 Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
 Sample Name: JI-24B #S-2 (6')
 Analysis Date: 04-22-10
 Analyzed By: ML

Easting (ft): 966375. Northing (ft): 971336. Coordinate System: Florida State Plane East Elevation (ft): -57.5 NAVD 88

USCS: SW Munsell: Wet - 10YR-6/2 Comments: 10 YR 6/2 Munsell @ 10% Moisture

Dry Weight (g): 360.93 Wash Weight (g): 352.32 Pan Retained (g): Sieve Loss (%): Fines (%): #230 - 2.46 Organics (%): 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
3.5	-2.49	5.62	0.18	0.05	0.18	0.05
4	-2.25	4.76	0.12	0.03	0.30	0.08
5	-2.00	4.00	0.16	0.04	0.46	0.12
7	-1.50	2.83	1.43	0.40	1.89	0.52
10	-1.00	2.00	6.63	1.84	8.52	2.36
14	-0.50	1.41	18.81	5.21	27.33	7.57
18	0.00	1.00	27.87	7.72	55.20	15.29
25	0.50	0.71	36.04	9.99	91.24	25.28
35	1.00	0.50	50.28	13.93	141.52	39.21
45	1.50	0.35	67.76	18.77	209.28	57.98
60	2.00	0.25	84.12	23.31	293.40	81.29
80	2.50	0.18	43.71	12.11	337.11	93.40
120	3.00	0.13	10.32	2.86	347.43	96.26
170	3.50	0.09	3.18	0.88	350.61	97.14
230	4.00	0.06	1.46	0.40	352.07	97.54

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.78	2.11	1.87	1.29	0.49	0.04	-0.75

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	1.1	0.47	1	-0.47	3

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report
 Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
 Sample Name: JI-24B #S-3 (8')
 Analysis Date: 04-24-10
 Analyzed By: JR

Easting (ft): 966375.	Northing (ft): 971336.	Coordinate System: Florida State Plane East	Elevation (ft): -59.5 NAVD 88
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USCS: SP	Munsell: Wet - 10YR-5/1	Comments: 10 YR 5/1 Munsell @ 10% Moisture
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Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
389.75	379.47			#230 - 2.67		67.00	
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	
3.5	-2.49	5.62	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	0.17	0.04	0.17	0.04	
10	-1.00	2.00	1.17	0.30	1.34	0.34	
14	-0.50	1.41	3.98	1.02	5.32	1.36	
18	0.00	1.00	8.68	2.23	14.00	3.59	
25	0.50	0.71	22.20	5.70	36.20	9.29	
35	1.00	0.50	50.48	12.95	86.68	22.24	
45	1.50	0.35	82.94	21.28	169.62	43.52	
60	2.00	0.25	93.70	24.04	263.32	67.56	
80	2.50	0.18	89.32	22.92	352.64	90.48	
120	3.00	0.13	21.50	5.52	374.14	96.00	
170	3.50	0.09	3.98	1.02	378.12	97.02	
230	4.00	0.06	1.21	0.31	379.33	97.33	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.91	2.36	2.16	1.63	1.06	0.76	0.12
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.53	0.35	0.78	-0.52	3.49	

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT - 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-24B #S-4 (10')
Analysis Date: 04-22-10
Analyzed By: ML

Easting (ft): 966375.	Northing (ft): 971336.	Coordinate System: Florida State Plane East	Elevation (ft): -61.5 NAVD 88
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USCS: SP	Munsell: Wet - 10YR-5/1	Comments: 10 YR 4/1 Munsell @ 10% Moisture
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Dry Weight (g): 319.34	Wash Weight (g): 312.17	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 2.36	Organics (%):	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	
3.5	-2.49	5.62	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	0.02	0.01	0.02	0.01	
10	-1.00	2.00	0.66	0.21	0.68	0.22	
14	-0.50	1.41	1.86	0.58	2.54	0.80	
18	0.00	1.00	4.94	1.55	7.48	2.35	
25	0.50	0.71	13.79	4.32	21.27	6.67	
35	1.00	0.50	37.37	11.70	58.64	18.37	
45	1.50	0.35	69.69	21.82	128.33	40.19	
60	2.00	0.25	105.08	32.91	233.41	73.10	
80	2.50	0.18	55.65	17.43	289.06	90.53	
120	3.00	0.13	17.46	5.47	306.52	96.00	
170	3.50	0.09	3.95	1.24	310.47	97.24	
230	4.00	0.06	1.29	0.40	311.76	97.64	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.91	2.31	2.05	1.65	1.15	0.90	0.31
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.57	0.34	0.71	-0.4	3.93	

GRANULARMETRIC REPORT JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report
 Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
 Sample Name: JI-24B PCC #S-1 (8')
 Analysis Date: 02-23-10
 Analyzed By: ML

Easting (ft): 966376. Northing (ft): 971336. Coordinate System: Florida State Plane East Elevation (ft): -59.5 NAVD 88

USCS: SP Munsell: Comments: 10 YR 5/1 Munsell @ 10% moisture. Sample after calcium carbonate.

Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
30.05	30.02			#230 - 0.24			
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	
3.5	-2.49	5.62	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	0.03	0.10	0.03	0.10	
25	0.50	0.71	0.56	1.86	0.59	1.96	
35	1.00	0.50	2.99	9.95	3.58	11.91	
45	1.50	0.35	8.16	27.15	11.74	39.06	
60	2.00	0.25	11.01	36.64	22.75	75.70	
80	2.50	0.18	5.53	18.40	28.28	94.10	
120	3.00	0.13	1.03	3.43	29.31	97.53	
170	3.50	0.09	0.42	1.40	29.73	98.93	
230	4.00	0.06	0.25	0.83	29.98	99.76	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.63	2.23	1.99	1.65	1.24	1.08	0.65
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.65	0.32	0.59	0.36	3.99	

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT 6/26/10

Granulometric Report
 Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
 Sample Name: JI-25 #S-1 (2')
 Analysis Date: 04-22-10
 Analyzed By: ML

Easting (ft): 967057. Northing (ft): 971535. Coordinate System: Florida State Plane East Elevation (ft): -53.0 NAVD 88

USCS: SW Munsell: Wet - 10YR-5/1 Comments: 10 YR 5/1 Munsell @ 10% Moisture

Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
169.24	166.74			#230 - 1.57			
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	
3.5	-2.49	5.62	0.09	0.05	0.09	0.05	
4	-2.25	4.76	0.03	0.02	0.12	0.07	
5	-2.00	4.00	0.31	0.18	0.43	0.25	
7	-1.50	2.83	0.57	0.34	1.00	0.59	
10	-1.00	2.00	2.16	1.28	3.16	1.87	
14	-0.50	1.41	10.45	6.17	13.61	8.04	
18	0.00	1.00	23.62	13.96	37.23	22.00	
25	0.50	0.71	25.99	15.36	63.22	37.36	
35	1.00	0.50	23.24	13.73	86.46	51.09	
45	1.50	0.35	24.79	14.65	111.25	65.74	
60	2.00	0.25	30.54	18.05	141.79	83.79	
80	2.50	0.18	18.67	11.03	160.46	94.82	
120	3.00	0.13	4.56	2.69	165.02	97.51	
170	3.50	0.09	1.18	0.70	166.20	98.21	
230	4.00	0.06	0.37	0.22	166.57	98.43	

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.53	2.01	1.76	0.96	0.10	-0.21	-0.75

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	0.9	0.54	1.02	-0.11	2.46

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granularmetric Report
Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-25 #S-2 (2.8')
Analysis Date: 04-22-10
Analyzed By: ML

Easting (ft): 967057. Northing (ft): 971535. Coordinate System: Florida State Plane East Elevation (ft): -53.8 NAVD 88

USCS: SW Munsell: Wet - 10YR-5/1 Comments: 10 YR 5/1 Munsell @ 10% Moisture

Dry Weight (g): 212.52 Wash Weight (g): 209.45 Pan Retained (g): Sieve Loss (%): Fines (%): #230 - 1.59 Organics (%): Carbonates (%): 80.50 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		2.26	4.81	2.26
3.5	-2.49	5.62	3.44	1.62	8.25	3.88
4	-2.25	4.76	0.60	0.28	8.85	4.16
5	-2.00	4.00	0.63	0.30	9.48	4.46
7	-1.50	2.83	2.67	1.26	12.15	5.72
10	-1.00	2.00	5.21	2.45	17.36	8.17
14	-0.50	1.41	17.10	8.05	34.46	16.22
18	0.00	1.00	31.27	14.71	65.73	30.93
25	0.50	0.71	35.55	16.73	101.28	47.66
35	1.00	0.50	29.11	13.70	130.39	61.36
45	1.50	0.35	26.20	12.33	156.59	73.69
60	2.00	0.25	29.63	13.94	186.22	87.63
80	2.50	0.18	17.34	8.16	203.56	95.79
120	3.00	0.13	4.10	1.93	207.66	97.72
170	3.50	0.09	1.04	0.49	208.70	98.21
230	4.00	0.06	0.42	0.20	209.12	98.41

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.45	1.87	1.55	0.59	-0.20	-0.51	-1.79

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	0.48	0.72	1.17	-0.19	3.71

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-25 #S-3 (7')
Analysis Date: 04-22-10
Analyzed By: ML

Easting (ft): 967057.	Northing (ft): 971535.	Coordinate System: Florida State Plane East	Elevation (ft): -58.0 NAVD 88
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USCS: SW	Munsell: Wet - 10YR-4/1	Comments: 10 YR 4/1 Munsell @ 10% Moisture
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Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
206.61	200.47			#230 - 3.13			
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	
3.5	-2.49	5.62	0.51	0.25	0.51	0.25	
4	-2.25	4.76	0.31	0.15	0.82	0.40	
5	-2.00	4.00	0.13	0.06	0.95	0.46	
7	-1.50	2.83	0.61	0.30	1.56	0.76	
10	-1.00	2.00	2.29	1.11	3.85	1.87	
14	-0.50	1.41	7.59	3.67	11.44	5.54	
18	0.00	1.00	15.01	7.26	26.45	12.80	
25	0.50	0.71	23.01	11.14	49.46	23.94	
35	1.00	0.50	30.84	14.93	80.30	38.87	
45	1.50	0.35	38.03	18.41	118.33	57.28	
60	2.00	0.25	46.39	22.45	164.72	79.73	
80	2.50	0.18	24.79	12.00	189.51	91.73	
120	3.00	0.13	7.63	3.69	197.14	95.42	
170	3.50	0.09	2.12	1.03	199.26	96.45	
230	4.00	0.06	0.86	0.42	200.12	96.87	

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.94	2.18	1.89	1.30	0.54	0.14	-0.57

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	1.14	0.45	0.99	-0.56	3.83

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT 6/26/10

Granularmetric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-25 #S-4 (11.1')
Analysis Date: 04-23-10
Analyzed By: ML

Easting (ft): 967057.	Northing (ft): 971535.	Coordinate System: Florida State Plane East	Elevation (ft): -62.1 NAVD 88
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USCS: SP-SM	Munsell: Wet - 10YR-4/1	Comments: 10 YR 4/1 Munsell @ 10% Moisture
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Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
193.10	177.27			#230 - 8.33		71.50	

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
3.5	-2.49	5.62	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	0.08	0.04	0.08	0.04
14	-0.50	1.41	0.41	0.21	0.49	0.25
18	0.00	1.00	1.65	0.85	2.14	1.10
25	0.50	0.71	6.66	3.45	8.80	4.55
35	1.00	0.50	19.74	10.22	28.54	14.77
45	1.50	0.35	38.70	20.04	67.24	34.81
60	2.00	0.25	53.22	27.56	120.46	62.37
80	2.50	0.18	34.02	17.62	154.48	79.99
120	3.00	0.13	14.36	7.44	168.84	87.43
170	3.50	0.09	5.70	2.95	174.54	90.38
230	4.00	0.06	2.50	1.29	177.04	91.67

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
	2.77	2.36	1.78	1.26	1.03	0.52
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	1.7	0.31	0.75	0.05	3.38	

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT 6/28/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-25 PCC #S-1 (11.1')
Analysis Date: 02-23-10
Analyzed By: ML

Easting (ft): 967057.	Northing (ft): 971535.	Coordinate System: Florida State Plane East	Elevation (ft): -62.1 NAVD 88
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USCS: SP	Munsell:	Comments: 10 YR 4/1 Munsell @ 10% moisture. Sample after calcium carbonate.
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Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
16.53	16.53			#230 - 0.55			
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	
3.5	-2.49	5.62	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	0.00	0.00	0.00	0.00	
25	0.50	0.71	0.17	1.03	0.17	1.03	
35	1.00	0.50	1.29	7.80	1.46	8.83	
45	1.50	0.35	3.94	23.84	5.40	32.67	
60	2.00	0.25	5.92	35.81	11.32	68.48	
80	2.50	0.18	3.19	19.30	14.51	87.78	
120	3.00	0.13	0.80	4.84	15.31	92.62	
170	3.50	0.09	0.64	3.87	15.95	96.49	
230	4.00	0.06	0.49	2.96	16.44	99.45	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.31	2.40	2.17	1.74	1.34	1.15	0.75
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.8	0.29	0.68	0.73	3.86	

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-28 #S-1 (2')
Analysis Date: 04-22-10
Analyzed By: ML

Easting (ft): 966410.	Northing (ft): 970282.	Coordinate System: Florida State Plane East	Elevation (ft): -54.7 NAVD 88
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USCS: SW	Munsell: Wet - 10YR-4/1	Comments: 10 YR 4/1 Munsell @ 10% Moisture
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Dry Weight (g): 291.89	Wash Weight (g): 289.13	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 1.01	Organics (%):	Carbonates (%):	Shells (%):
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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
3.5	-2.49	5.62	0.30	0.10	0.30	0.10
4	-2.25	4.76	0.03	0.01	0.33	0.11
5	-2.00	4.00	0.06	0.02	0.39	0.13
7	-1.50	2.83	0.60	0.21	0.99	0.34
10	-1.00	2.00	4.02	1.38	5.01	1.72
14	-0.50	1.41	11.01	3.77	16.02	5.49
18	0.00	1.00	19.08	6.54	35.10	12.03
25	0.50	0.71	26.94	9.23	62.04	21.26
35	1.00	0.50	39.55	13.55	101.59	34.81
45	1.50	0.35	49.72	17.03	151.31	51.84
60	2.00	0.25	67.94	23.28	219.25	75.12
80	2.50	0.18	53.42	18.30	272.67	93.42
120	3.00	0.13	14.67	5.03	287.34	98.45
170	3.50	0.09	1.27	0.44	288.61	98.89
230	4.00	0.06	0.30	0.10	288.91	98.99

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.66	2.24	2.00	1.45	0.64	0.22	-0.56

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	1.26	0.42	0.97	-0.66	3.22

GRANULOMETRIC REPORT JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report
Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-28 #S-2 (3.4')
Analysis Date: 04-22-10
Analyzed By: ML

Easting (ft): 966410. Northing (ft): 970282. Coordinate System: Florida State Plane East Elevation (ft): -56.1 NAVD 88

USCS: SW Munsell: Wet - 10YR-5/1 Comments: 10 YR 5/1 Munsell @ 10% Moisture

Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
322.73	319.14			#230 - 1.15		88.50	
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
3/4"	-4.25	19.03		3.21	10.35	3.21	
3.5	-2.49	5.62	9.61	2.98	19.96	6.19	
4	-2.25	4.76	2.73	0.85	22.69	7.04	
5	-2.00	4.00	3.58	1.11	26.27	8.15	
7	-1.50	2.83	10.40	3.22	36.67	11.37	
10	-1.00	2.00	37.26	11.55	73.93	22.92	
14	-0.50	1.41	60.84	18.85	134.77	41.77	
18	0.00	1.00	52.25	16.19	187.02	57.96	
25	0.50	0.71	34.99	10.84	222.01	68.80	
35	1.00	0.50	27.03	8.38	249.04	77.18	
45	1.50	0.35	19.71	6.11	268.75	83.29	
60	2.00	0.25	22.07	6.84	290.82	90.13	
80	2.50	0.18	19.71	6.11	310.53	96.24	
120	3.00	0.13	6.52	2.02	317.05	98.26	
170	3.50	0.09	1.28	0.40	318.33	98.66	
230	4.00	0.06	0.61	0.19	318.94	98.85	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.40	1.55	0.87	-0.25	-0.94	-1.30	-3.19
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	-0.19	1.14	1.33	0.45	3.16	

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report
 Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
 Sample Name: JI-28 #S-3 (6.3')
 Analysis Date: 04-24-10
 Analyzed By: JR

Easting (ft): 966410. Northing (ft): 970282. Coordinate System: Florida State Plane East Elevation (ft): -59.0 NAVD 88

USCS: SW Munsell: Wet - 10YR-5/1 Comments: 10 YR 5/1 Munsell @ 10% Moisture

Dry Weight (g): 340.73 Wash Weight (g): 336.36 Pan Retained (g): Sieve Loss (%): Fines (%): #230 - 1.31 Organics (%): Carbonates (%): 78.50 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
3.5	-2.49	5.62	0.00	0.00	0.00	0.00
4	-2.25	4.76	0.29	0.09	0.29	0.09
5	-2.00	4.00	0.51	0.15	0.80	0.24
7	-1.50	2.83	3.46	1.02	4.26	1.26
10	-1.00	2.00	11.84	3.47	16.10	4.73
14	-0.50	1.41	26.81	7.87	42.91	12.60
18	0.00	1.00	40.06	11.76	82.97	24.36
25	0.50	0.71	50.35	14.78	133.32	39.14
35	1.00	0.50	56.72	16.65	190.04	55.79
45	1.50	0.35	61.50	18.05	251.54	73.84
60	2.00	0.25	56.82	16.68	308.36	90.52
80	2.50	0.18	22.34	6.56	330.70	97.08
120	3.00	0.13	4.38	1.29	335.08	98.37
170	3.50	0.09	0.76	0.22	335.84	98.59
230	4.00	0.06	0.33	0.10	336.17	98.69

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.34	1.80	1.53	0.83	0.02	-0.36	-0.98

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	0.73	0.60	1	-0.26	2.54

GRANULOMETRIC REPORT, JUPITER ISLAND 10.GPJ, FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-28 #S-4 (9')
Analysis Date: 04-22-10
Analyzed By: ML

Easting (ft): 966410.	Northing (ft): 970282.	Coordinate System: Florida State Plane East	Elevation (ft): -61.7 NAVD 88
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USCS: SW	Munsell: Wet - 10YR-4/1	Comments: 10 YR 4/1 Munsell @ 10% Moisture
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Dry Weight (g): 341.34	Wash Weight (g): 336.57	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 1.51	Organics (%):	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	
3.5	-2.49	5.62	0.33	0.10	0.33	0.10	
4	-2.25	4.76	0.04	0.01	0.37	0.11	
5	-2.00	4.00	0.20	0.06	0.57	0.17	
7	-1.50	2.83	1.10	0.32	1.67	0.49	
10	-1.00	2.00	3.89	1.14	5.56	1.63	
14	-0.50	1.41	10.18	2.98	15.74	4.61	
18	0.00	1.00	19.05	5.58	34.79	10.19	
25	0.50	0.71	36.97	10.83	71.76	21.02	
35	1.00	0.50	65.31	19.13	137.07	40.15	
45	1.50	0.35	75.35	22.07	212.42	62.22	
60	2.00	0.25	79.52	23.30	291.94	85.52	
80	2.50	0.18	32.93	9.65	324.87	95.17	
120	3.00	0.13	9.03	2.65	333.90	97.82	
170	3.50	0.09	1.70	0.50	335.60	98.32	
230	4.00	0.06	0.58	0.17	336.18	98.49	

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.49	1.97	1.77	1.22	0.60	0.27	-0.47

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	1.12	0.46	0.88	-0.56	3.85

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-28 PCC #S-1 (6.3')
Analysis Date: 02-23-10
Analyzed By: ML

Easting (ft): 966410.	Northing (ft): 970282.	Coordinate System: Florida State Plane East	Elevation (ft): -59.0 NAVD 88
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USCS: SP	Munsell:	Comments: 10 YR 5/1 Munsell @ 10% moisture. Sample after calcium carbonate.
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Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
16.93	16.93			#230 - 0.42			

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
3.5	-2.49	5.62	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	0.09	0.53	0.09	0.53
25	0.50	0.71	0.64	3.78	0.73	4.31
35	1.00	0.50	2.16	12.76	2.89	17.07
45	1.50	0.35	4.93	29.12	7.82	46.19
60	2.00	0.25	5.86	34.61	13.68	80.80
80	2.50	0.18	2.26	13.35	15.94	94.15
120	3.00	0.13	0.40	2.36	16.34	96.51
170	3.50	0.09	0.29	1.71	16.63	98.22
230	4.00	0.06	0.23	1.36	16.86	99.58

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.68	2.12	1.92	1.56	1.14	0.96	0.53
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.55	0.34	0.65	0.48	4.34	

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10

Granularmetric Report
Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-33 #S-1 (1')
Analysis Date: 04-22-10
Analyzed By: ML

Easting (ft): 967647.	Northing (ft): 969625.	Coordinate System: Florida State Plane East	Elevation (ft): -55.5 NAVD 88
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USCS: SW	Munsell: Wet - 10YR-5/1	Comments: 10 YR 5/1 Munsell @ 10% Moisture
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Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
263.13	258.72			#230 - 1.73			
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	
3.5	-2.49	5.62	0.13	0.05	0.13	0.05	
4	-2.25	4.76	0.05	0.02	0.18	0.07	
5	-2.00	4.00	0.14	0.05	0.32	0.12	
7	-1.50	2.83	0.79	0.30	1.11	0.42	
10	-1.00	2.00	4.44	1.69	5.55	2.11	
14	-0.50	1.41	15.04	5.72	20.59	7.83	
18	0.00	1.00	25.14	9.55	45.73	17.38	
25	0.50	0.71	27.94	10.62	73.67	28.00	
35	1.00	0.50	30.65	11.65	104.32	39.65	
45	1.50	0.35	41.51	15.78	145.83	55.43	
60	2.00	0.25	62.17	23.63	208.00	79.06	
80	2.50	0.18	40.78	15.50	248.78	94.56	
120	3.00	0.13	8.01	3.04	256.79	97.60	
170	3.50	0.09	1.31	0.50	258.10	98.10	
230	4.00	0.06	0.44	0.17	258.54	98.27	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.57	2.16	1.91	1.33	0.36	-0.07	-0.75
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.1	0.47	1.02	-0.49	2.61	

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT - 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-33 #S-2 (5')
Analysis Date: 04-22-10
Analyzed By: ML

Easting (ft): 967647.	Northing (ft): 969625.	Coordinate System: Florida State Plane East	Elevation (ft): -59.5 NAVD 88
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USCS: SW	Munsell: Wet - 10YR-5/1	Comments: 10 YR 5/1 Munsell @ 10% Moisture
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Dry Weight (g): 350.39	Wash Weight (g): 343.21	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 2.14	Organics (%):	Carbonates (%):	Shells (%):
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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
3.5	-2.49	5.62	15.05	4.30	15.05	4.30
4	-2.25	4.76	0.13	0.04	15.18	4.34
5	-2.00	4.00	0.49	0.14	15.67	4.48
7	-1.50	2.83	1.41	0.40	17.08	4.88
10	-1.00	2.00	6.79	1.94	23.87	6.82
14	-0.50	1.41	26.15	7.46	50.02	14.28
18	0.00	1.00	44.44	12.68	94.46	26.96
25	0.50	0.71	43.46	12.40	137.92	39.36
35	1.00	0.50	41.39	11.81	179.31	51.17
45	1.50	0.35	45.17	12.89	224.48	64.06
60	2.00	0.25	65.00	18.55	289.48	82.61
80	2.50	0.18	41.51	11.85	330.99	94.46
120	3.00	0.13	8.86	2.53	339.85	96.99
170	3.50	0.09	1.86	0.53	341.71	97.52
230	4.00	0.06	1.18	0.34	342.89	97.86

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.61	2.06	1.79	0.95	-0.08	-0.43	-1.47

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	0.72	0.61	1.36	-1.01	4.38

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT - 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-33 #S-3 (8.5')
Analysis Date: 04-24-10
Analyzed By: JR

Easting (ft): 967647.	Northing (ft): 969625.	Coordinate System: Florida State Plane East	Elevation (ft): -63.0 NAVD 88
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USCS: SW	Munsell: Wet - 10YR-5/1	Comments: 10 YR 5/1 Munsell @ 10% Moisture
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Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
364.33	358.27			#230 - 1.70		74.50	
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	
3.5	-2.49	5.62	0.92	0.25	0.92	0.25	
4	-2.25	4.76	0.12	0.03	1.04	0.28	
5	-2.00	4.00	0.47	0.13	1.51	0.41	
7	-1.50	2.83	0.85	0.23	2.36	0.64	
10	-1.00	2.00	3.05	0.84	5.41	1.48	
14	-0.50	1.41	12.11	3.32	17.52	4.80	
18	0.00	1.00	27.74	7.61	45.26	12.41	
25	0.50	0.71	45.61	12.52	90.87	24.93	
35	1.00	0.50	59.33	16.28	150.20	41.21	
45	1.50	0.35	68.80	18.88	219.00	60.09	
60	2.00	0.25	87.86	24.12	306.86	84.21	
80	2.50	0.18	39.40	10.81	346.26	95.02	
120	3.00	0.13	8.80	2.42	355.06	97.44	
170	3.50	0.09	2.36	0.65	357.42	98.09	
230	4.00	0.06	0.77	0.21	358.19	98.30	

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.50	2.00	1.81	1.23	0.50	0.14	-0.49

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	1.1	0.47	0.93	-0.6	3.98

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT - 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-33 #S-4 (10')
Analysis Date: 04-22-10
Analyzed By: ML

Easting (ft): 967647.	Northing (ft): 969625.	Coordinate System: Florida State Plane East	Elevation (ft): -64.5 NAVD 88
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USCS: SW	Munsell: Wet - 10YR-5/1	Comments: 10 YR 4/1 Munsell @ 10% Moisture
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Dry Weight (g): 403.10	Wash Weight (g): 393.64	Pan Retained (g):	Sieve Loss (%):	Fines (%): #230 - 2.48	Organics (%):	Carbonates (%): 73.60	Shells (%):
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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
3.5	-2.49	5.62	4.45	1.10	4.45	1.10
4	-2.25	4.76	0.42	0.10	4.87	1.20
5	-2.00	4.00	0.68	0.17	5.55	1.37
7	-1.50	2.83	1.92	0.48	7.47	1.85
10	-1.00	2.00	5.09	1.26	12.56	3.11
14	-0.50	1.41	14.97	3.71	27.53	6.82
18	0.00	1.00	33.59	8.33	61.12	15.15
25	0.50	0.71	49.10	12.18	110.22	27.33
35	1.00	0.50	61.84	15.34	172.06	42.67
45	1.50	0.35	73.88	18.33	245.94	61.00
60	2.00	0.25	88.80	22.03	334.74	83.03
80	2.50	0.18	42.18	10.46	376.92	93.49
120	3.00	0.13	11.80	2.93	388.72	96.42
170	3.50	0.09	3.19	0.79	391.91	97.21
230	4.00	0.06	1.24	0.31	393.15	97.52

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.76	2.05	1.82	1.20	0.40	0.03	-0.75

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	1.02	0.49	1.07	-0.96	5.19

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT 6/26/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-33 PCC #S-1 (8.5')
Analysis Date: 02-23-10
Analyzed By: ML

Easting (ft): 967647.	Northing (ft): 969625.	Coordinate System: Florida State Plane East	Elevation (ft): -63.0 NAVD 88
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USCS: SP	Munsell:	Comments: 10 YR 5/1 Munsell @ 10% moisture. Sample after calcium carbonate.
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Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
20.86	20.85			#230 - 0.34			

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
3.5	-2.49	5.62	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	0.05	0.24	0.05	0.24
25	0.50	0.71	0.56	2.68	0.61	2.92
35	1.00	0.50	2.07	9.92	2.68	12.84
45	1.50	0.35	4.67	22.39	7.35	35.23
60	2.00	0.25	8.60	41.23	15.95	76.46
80	2.50	0.18	3.33	15.96	19.28	92.42
120	3.00	0.13	0.78	3.74	20.06	96.16
170	3.50	0.09	0.40	1.92	20.46	98.08
230	4.00	0.06	0.33	1.58	20.79	99.66

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.84	2.24	1.98	1.68	1.27	1.07	0.60

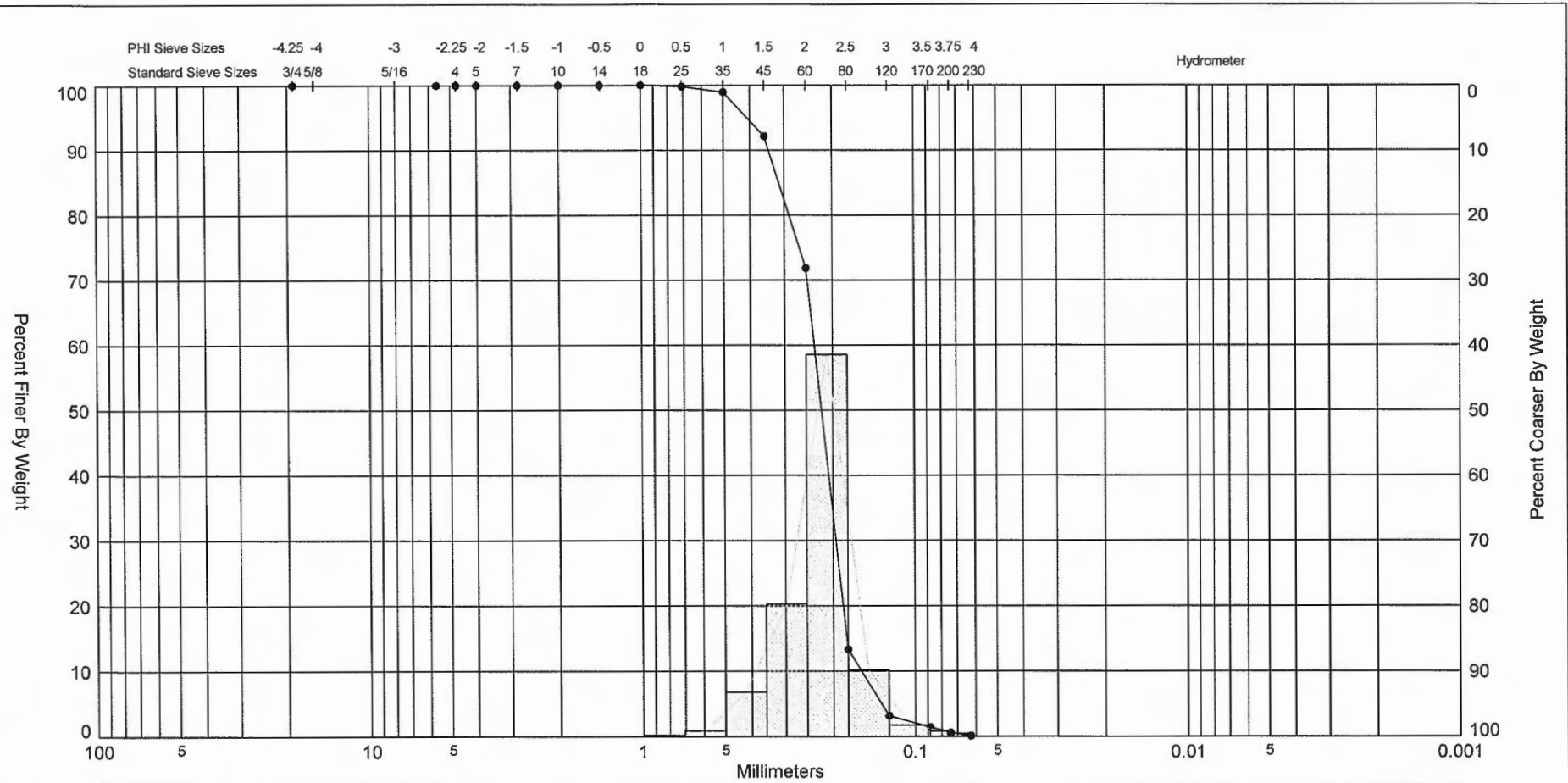
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	1.67	0.31	0.64	0.42	4.33

GRANULARMETRIC REPORT JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 6/26/10


Post-Calcium Carbonate Sieve Graphs



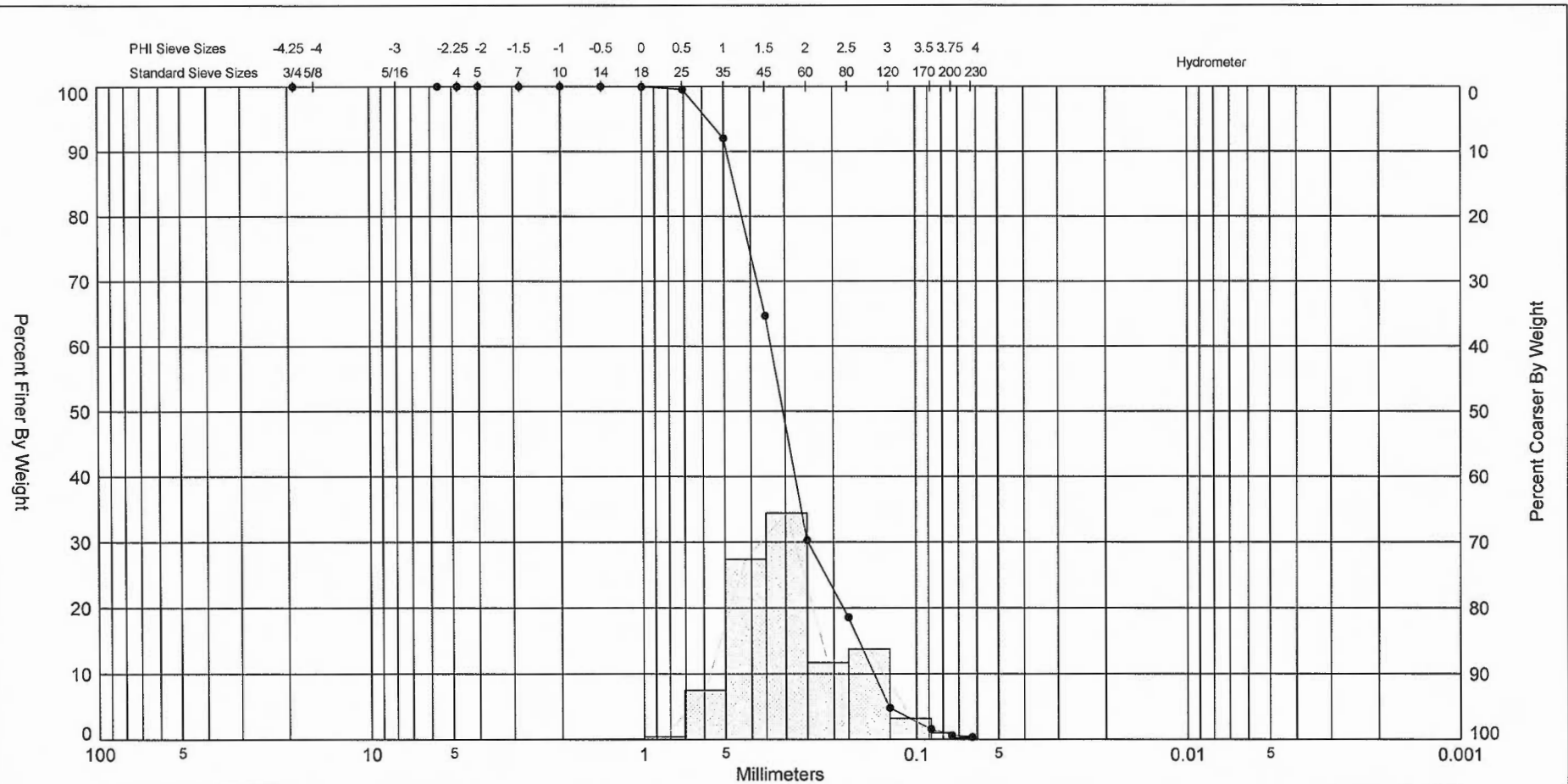
SIEVE ANALYSIS - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 5/20/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
JI-6 PCC #S-1 (3-3')	—●—		SP	#200 - 0.57 #230 - 0.10			2.19	2.15	-0.04	5.32	0.46	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% Moisture. Sample after calcium carbonate.												Analysis Date:	02-23-10
Depths and elevations based on measured values												Analyzed By:	ML
 <div style="text-align: center;"> <p>American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444</p> </div>												Easting (X, ft):	967434.061
												Northing (Y, ft):	976918.605
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

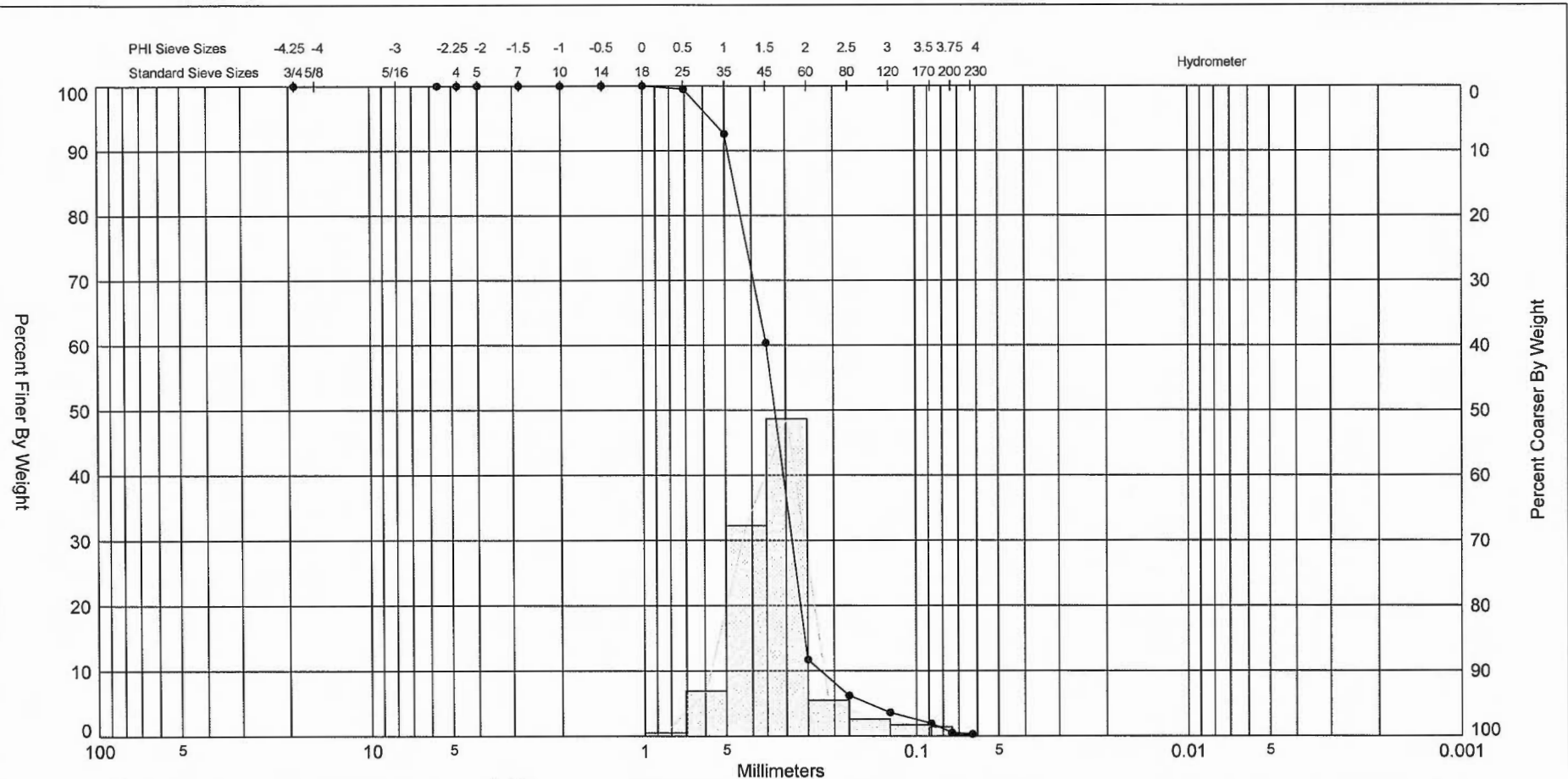
SIEVE ANALYSIS, JUPITER ISLAND 10.GPJ, FL DEP ROSS.GDT, 5/20/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
I-9 PCC #S-1 (5.6-5.6)	—●—		SP	#200 - 0.60 #230 - 0.36			1.71	1.8	0.54	2.94	0.66	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% Moisture. Sample after calcium carbonate.												Analysis Date:	02-23-10
Depths and elevations based on measured values												Analyzed By:	ML
 American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444												Easting (X, ft):	965828.685
												Northing (Y, ft):	975349.228
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

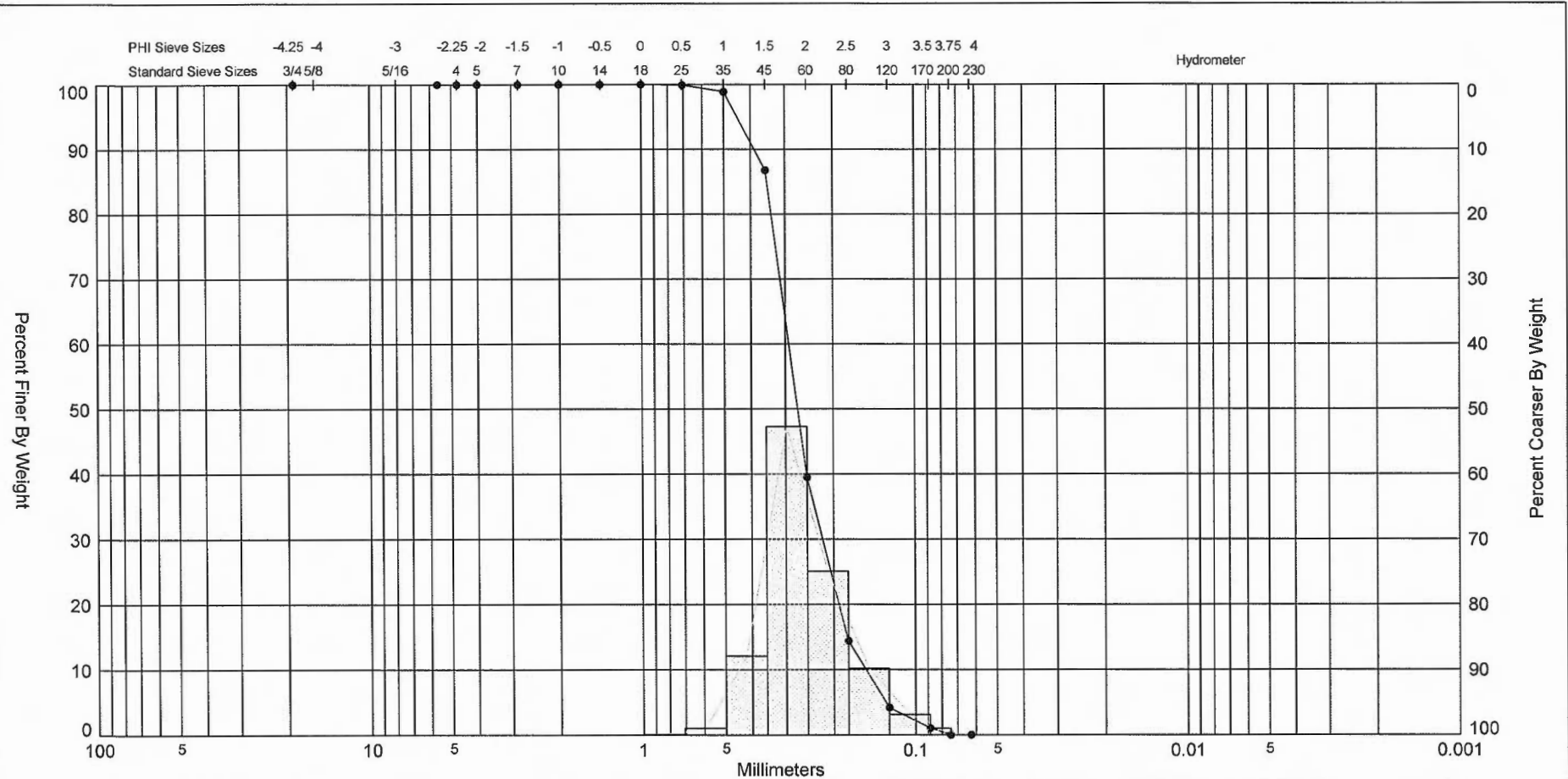
SIEVE ANALYSIS - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 5/20/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
-10 PCC #S-1 (6.6-6.6')	—●—		SP	#200 - 0.50 #230 - 0.30			1.61	1.62	1.25	6.47	0.53	Project Name:	Jupiter Island 10
Comments: 10 YR 5/1 Munsell @ 10% moisture. Sample after Calcium carbonate.												Analysis Date:	02-23-10
Depths and elevations based on measured values												Analyzed By:	ML
 American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444							Easting (X, ft):		966727.193				
							Northing (Y, ft):		975665.037				
							Horizontal System:		NAD 1983				
							Vertical System:		NAVD 88				

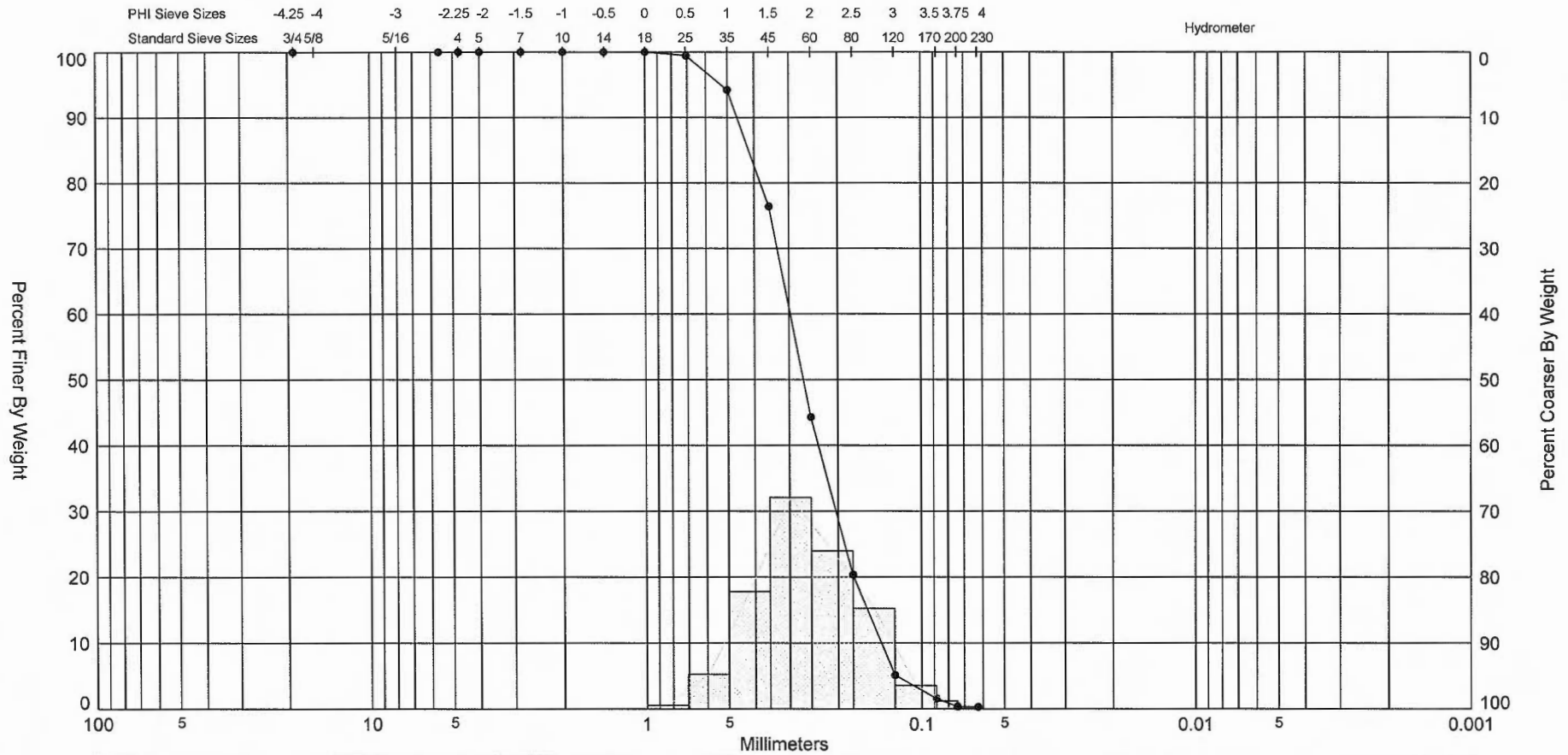
SIEVE ANALYSIS, JUPITER ISLAND 10.GPJ, FL DEP ROSS.GDT, 5/20/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-11 PCC #S-1 (3-3')	—●—		SP	#200 - 0.01 #230 - 0.01			1.89	1.97	0.67	3.76	0.51	Project Name:	Jupiter Island 10
Comments: 10 YR 5/1 Munsell @ 10% moisture. Sample after calcium carbonate.												Analysis Date:	02-23-10
Depths and elevations based on measured values												Analyzed By:	ML
 American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444												Easting (X, ft):	967745.259
												Northing (Y, ft):	975957.536
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

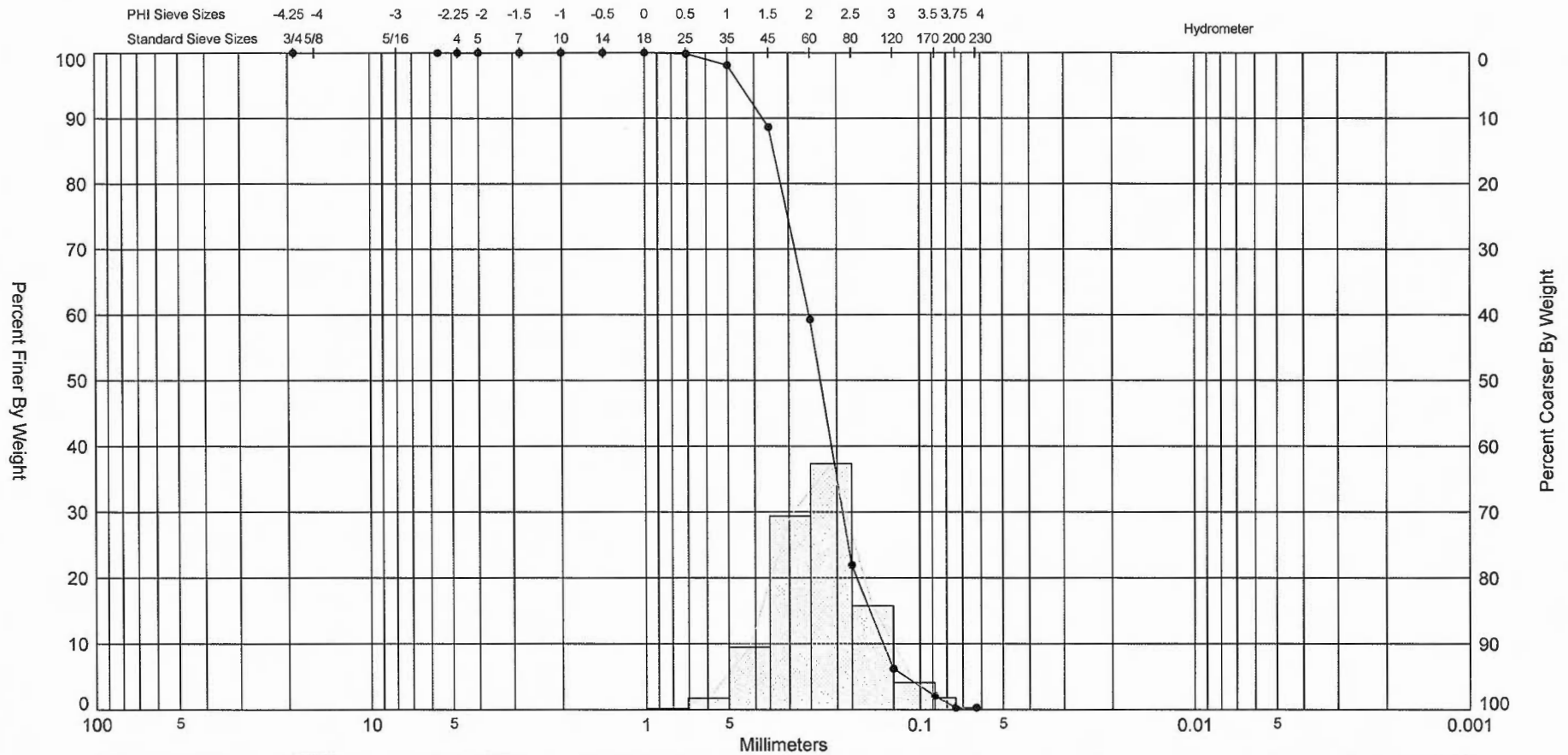
SIEVE ANALYSIS - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 5/20/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
I-14 PCC #S-1 (11-11)	—●—		SP	#200 - 0.35 #230 - 0.29			1.91	1.95	0.16	2.82	0.64	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% moisture. Sample after calcium carbonate.												Analysis Date:	02-23-10
Depths and elevations based on measured values												Analyzed By:	ML
 American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444												Easting (X, ft):	966134.337
												Northing (Y, ft):	974400.225
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

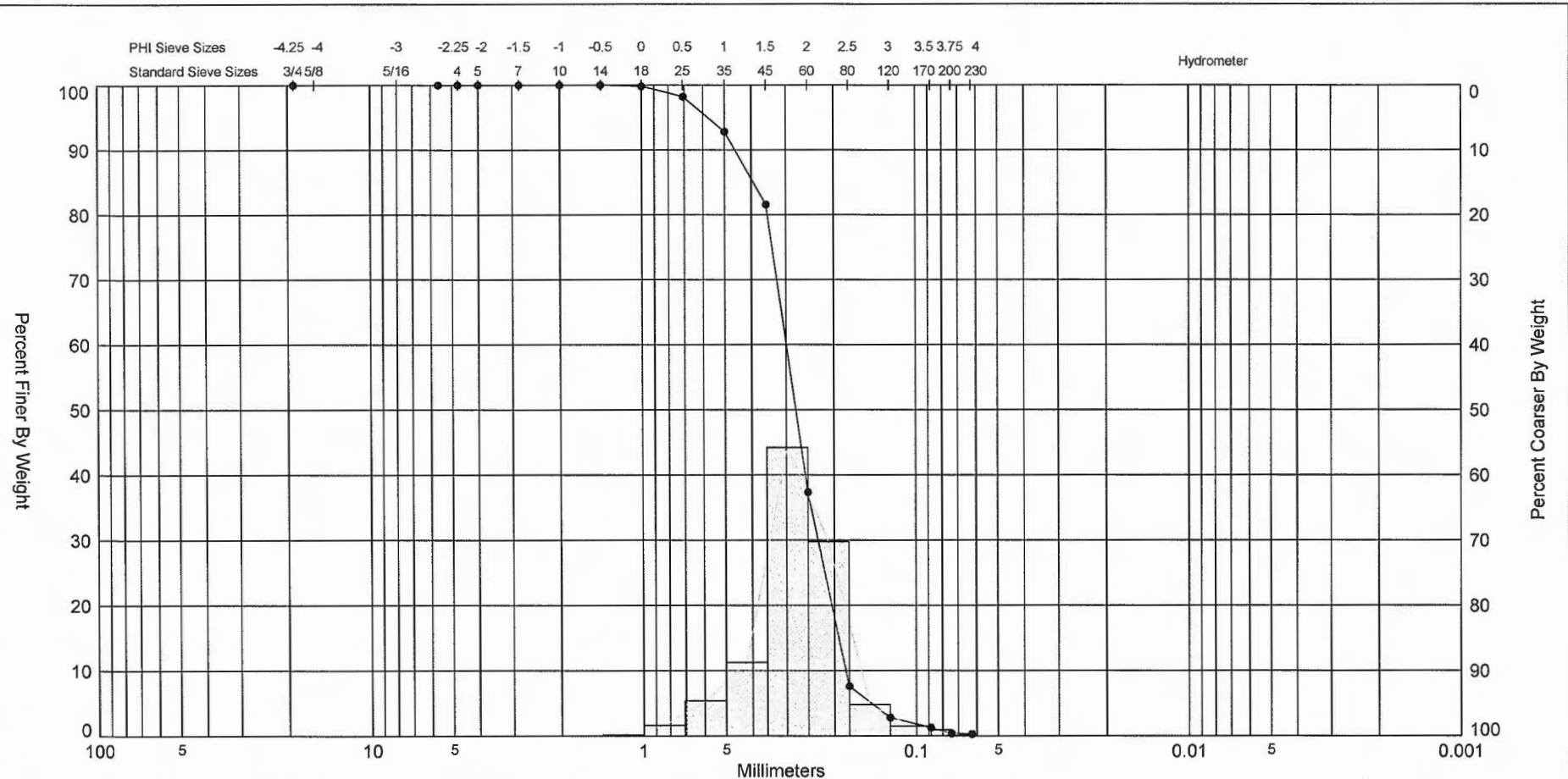
SIEVE ANALYSIS - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 5/20/10



Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
15B PCC #S-1 (13-13)	●—		SP	#200 - 0.31			2.12	2.12	0.14	3.32	0.56	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% moisture. Sample after calcium carbonate.												Analysis Date:	02-23-10
Depths and elevations based on measured values												Analyzed By:	ML
 <div style="text-align: center;"> <p>American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444</p> </div>												Easting (X, ft):	966633.016
												Northing (Y, ft):	974482.762
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

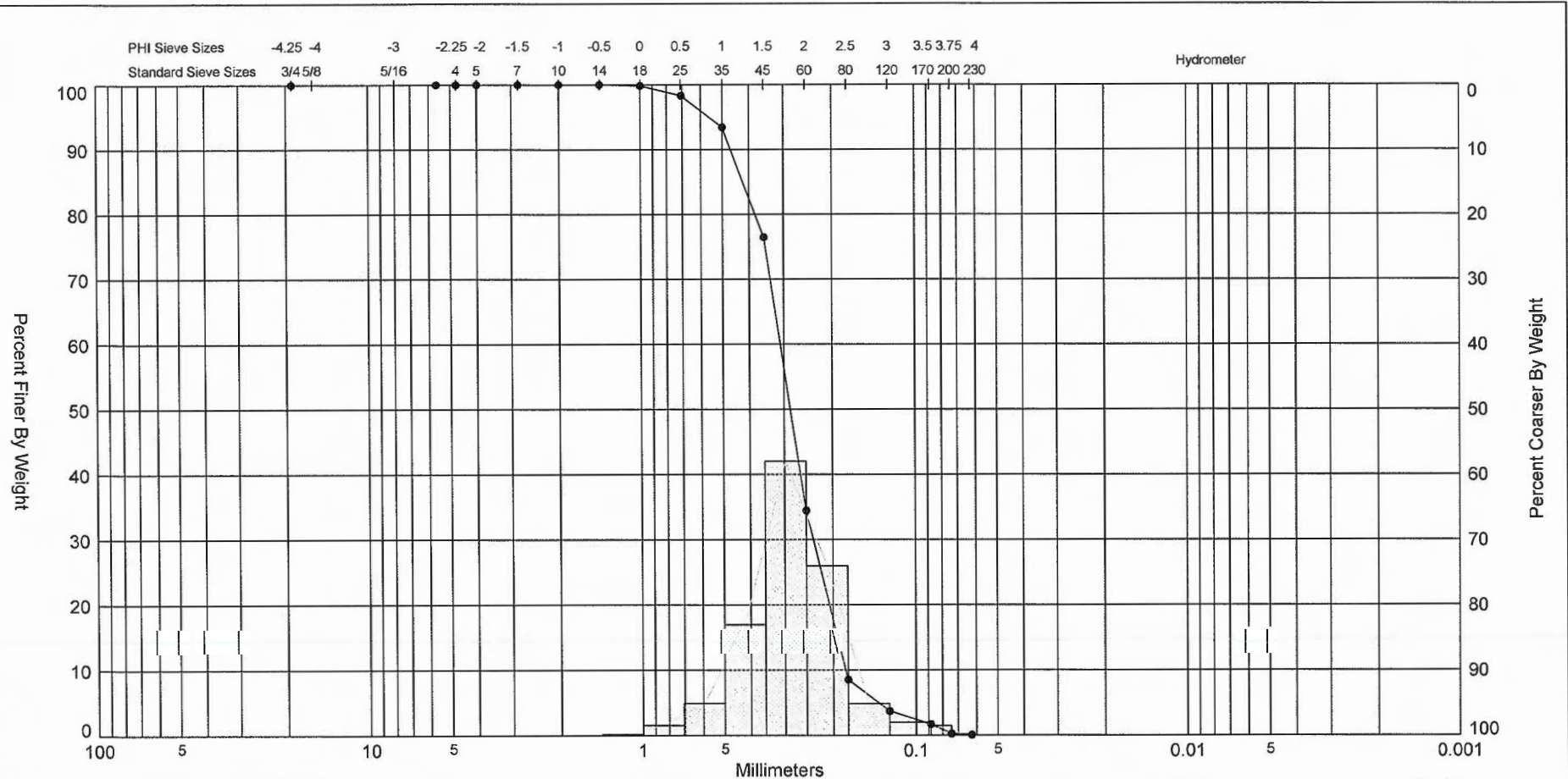
SIEVE ANALYSIS, JUPITER ISLAND 10, GPJ, FL DEP ROSS, GDT, 5/20/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Jl-16 PCC #S-1 (5-5')	—●—		SP	#200 - 0.36 #230 - 0.27			1.86	1.85	-0.16	4.59	0.56	Project Name:	Jupiter Island 10
Comments: 10 YR 5/1 Munsell @ 10% moisture. Sample after calcium carbonate.											Analysis Date:	02-23-10	
Depths and elevations based on measured values											Analyzed By:	ML	
							American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444					Easting (X, ft):	968034.717
												Northing (Y, ft):	975002.363
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

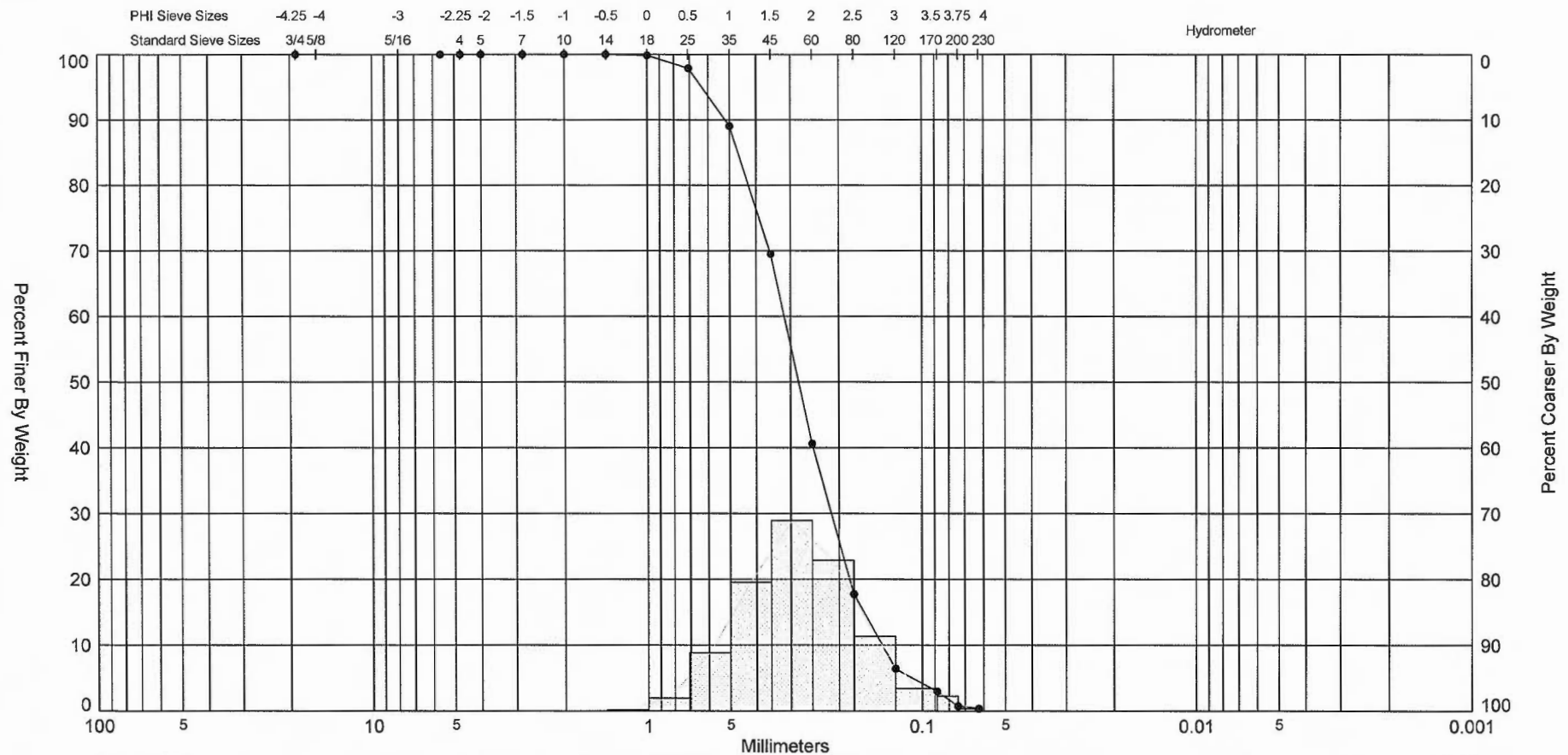
SIEVE ANALYSIS - JUPITER ISLAND 10.GPJ, FL DEP ROSS.GDT, 5/20/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
-18 PCC #S-1 (5.2-5.2')	●—		SP	#200 - 0.23 #230 - 0.07			1.81	1.83	0.22	4.38	0.59	Project Name:	Jupiter Island 10
Comments: 10 YR 5/1 Munsell @ 10% moisture. Sample after calcium carbonate.												Analysis Date:	02-23-10
Depths and elevations based on measured values												Analyzed By:	ML
 <div style="text-align: center;"> <p>American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444</p> </div>												Easting (X, ft):	966445.612
												Northing (Y, ft):	973427.029
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

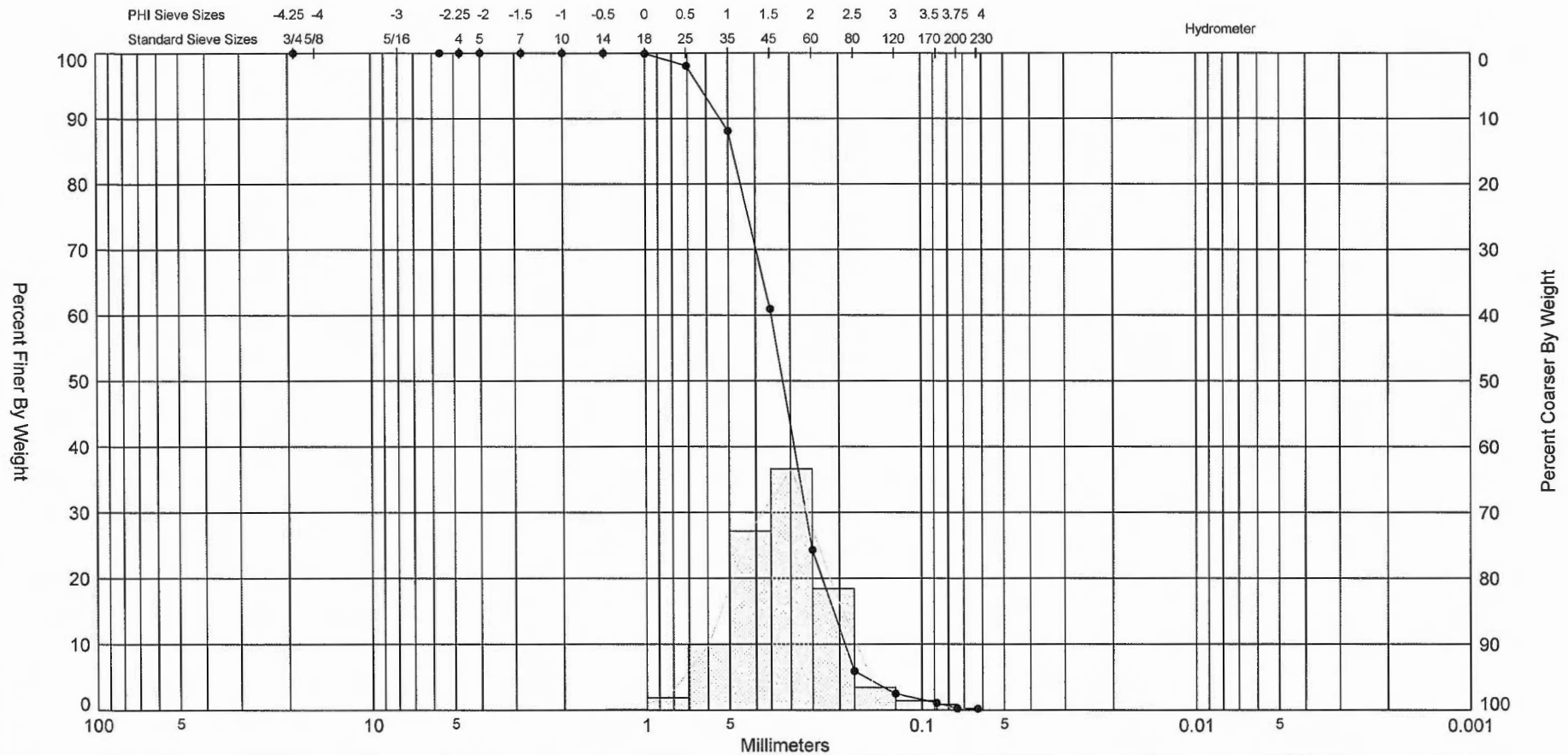
SIEVE ANALYSIS, JUPITER ISLAND, 10.GPJ, FL DEP ROSS.GDT, 5/20/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
19 PCC #S-1 (10.1-10.4)	●—		SP	#200 - 0.74 #230 - 0.36			1.84	1.86	0.2	2.99	0.72	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% moisture. Sample after calcium carbonate.												Analysis Date:	02-23-10
Depths and elevations based on measured values												Analyzed By:	ML
 <div style="text-align: center;"> <p>American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444</p> </div>												Easting (X, ft):	967398.474
												Northing (Y, ft):	973737.202
												Horizontal System:	NAD 1983
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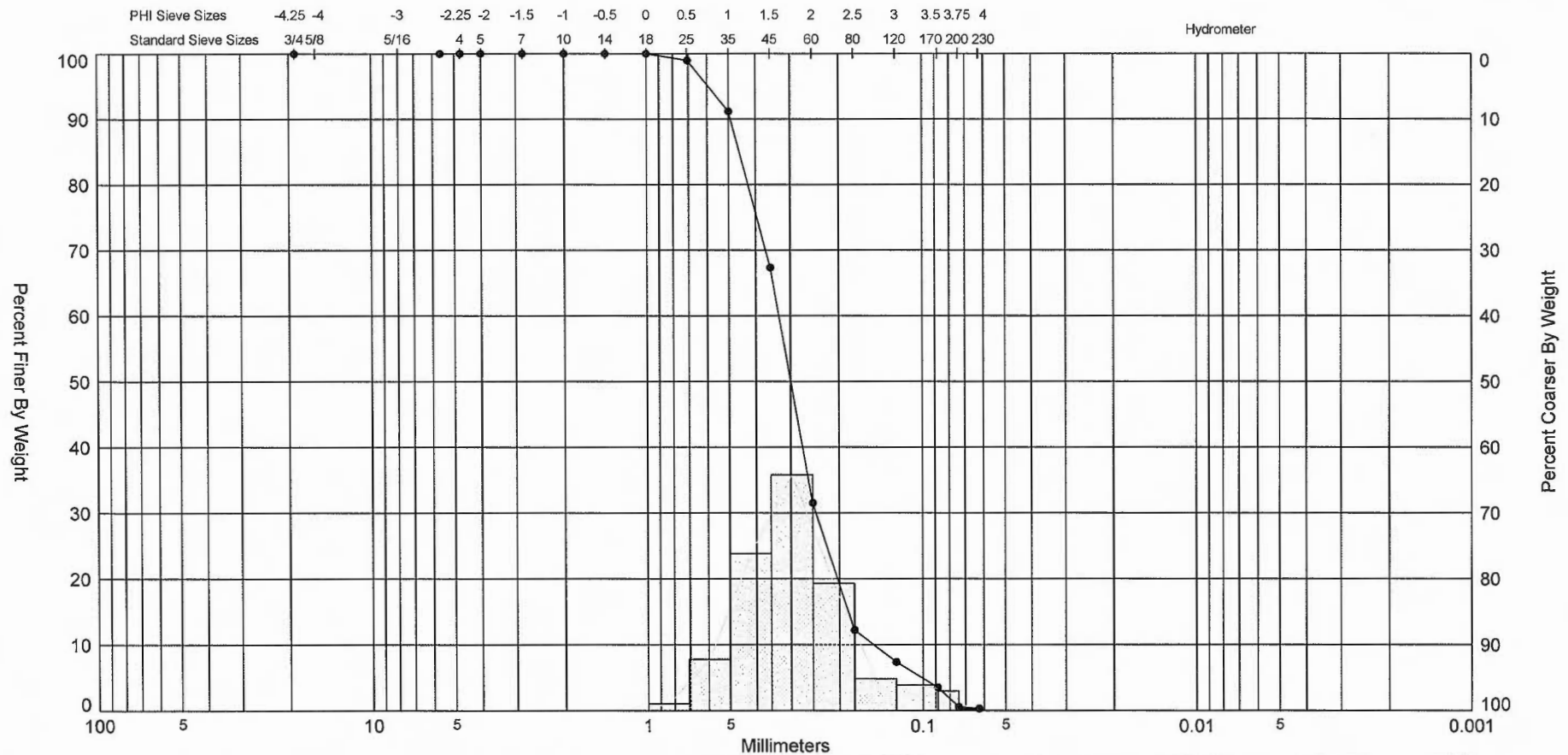
SIEVE ANALYSIS, JUPITER ISLAND 10.GPJ, FL DEP ROSS.GDT, 5/20/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
JL-24B PCC #S-1 (8-8')	—●—		SP	#200 - 0.24 #230 - 0.21			1.65	1.65	0.32	3.83	0.59	Project Name:	Jupiter Island 10
Comments: 10 YR 5/1 Munsell @ 10% moisture. Sample after calcium carbonate.												Analysis Date:	02-23-10
Depths and elevations based on measured values												Analyzed By:	ML
 American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444												Easting (X, ft):	912102.234
												Northing (Y, ft):	970962.131
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

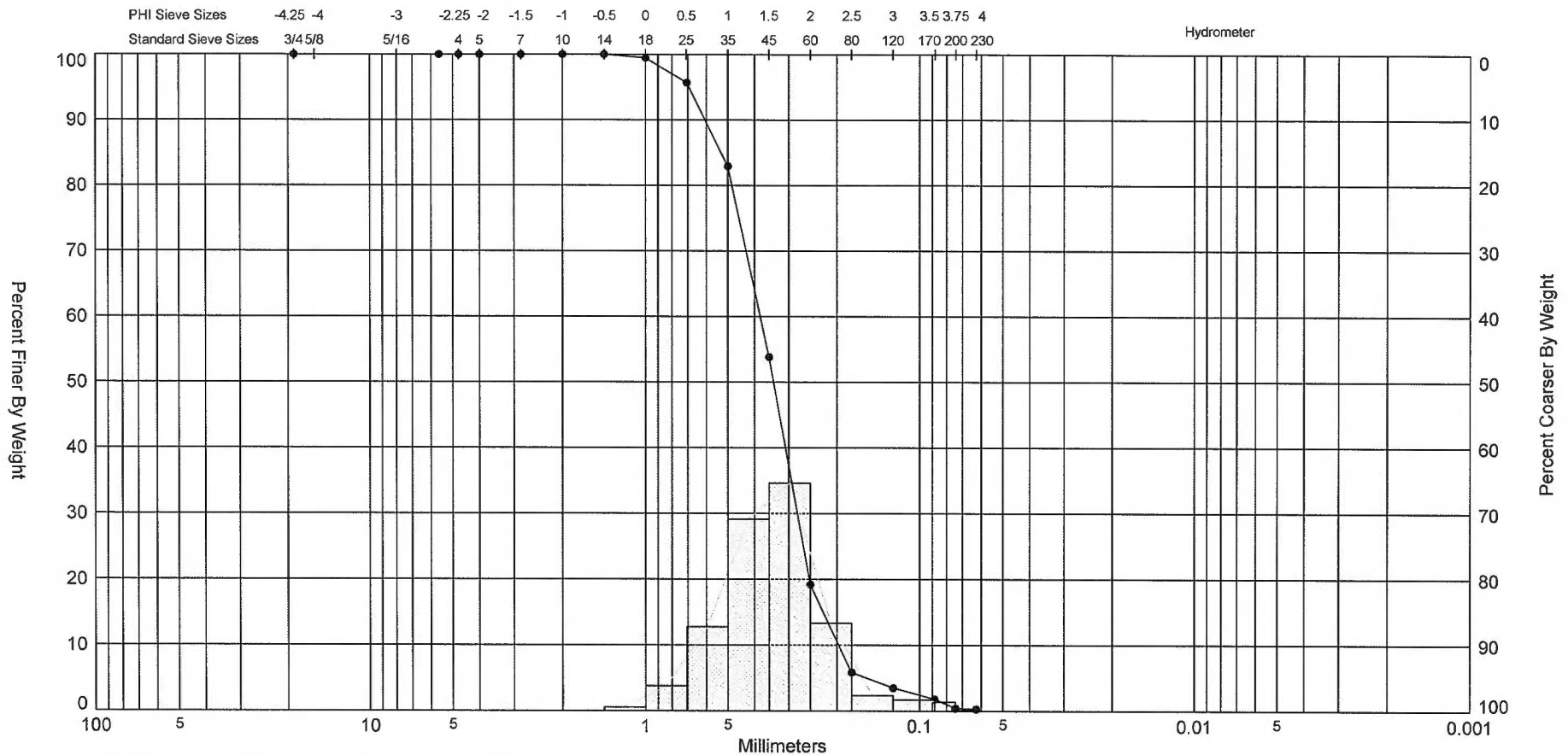
SIEVE ANALYSIS, JUPITER ISLAND 10.GPJ, FL DEP ROSS.GDT, 5/20/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
25 PCC #S-1 (11.1-11.4)	●—		SP	#200 - 0.55 #230 - 0.31			1.74	1.8	0.68	3.66	0.68	Project Name:	Jupiter Island 10
Comments: 10 YR 4/1 Munsell @ 10% moisture. Sample after calcium carbonate.											Analysis Date:	02-23-10	
Depths and elevations based on measured values											Analyzed By:	ML	
 <div style="text-align: center;"> <p>American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444</p> </div>											Easting (X, ft):	912784.845	
											Northing (Y, ft):	971160.277	
											Horizontal System:	NAD 1983	
											Vertical System:	NAVD 88	

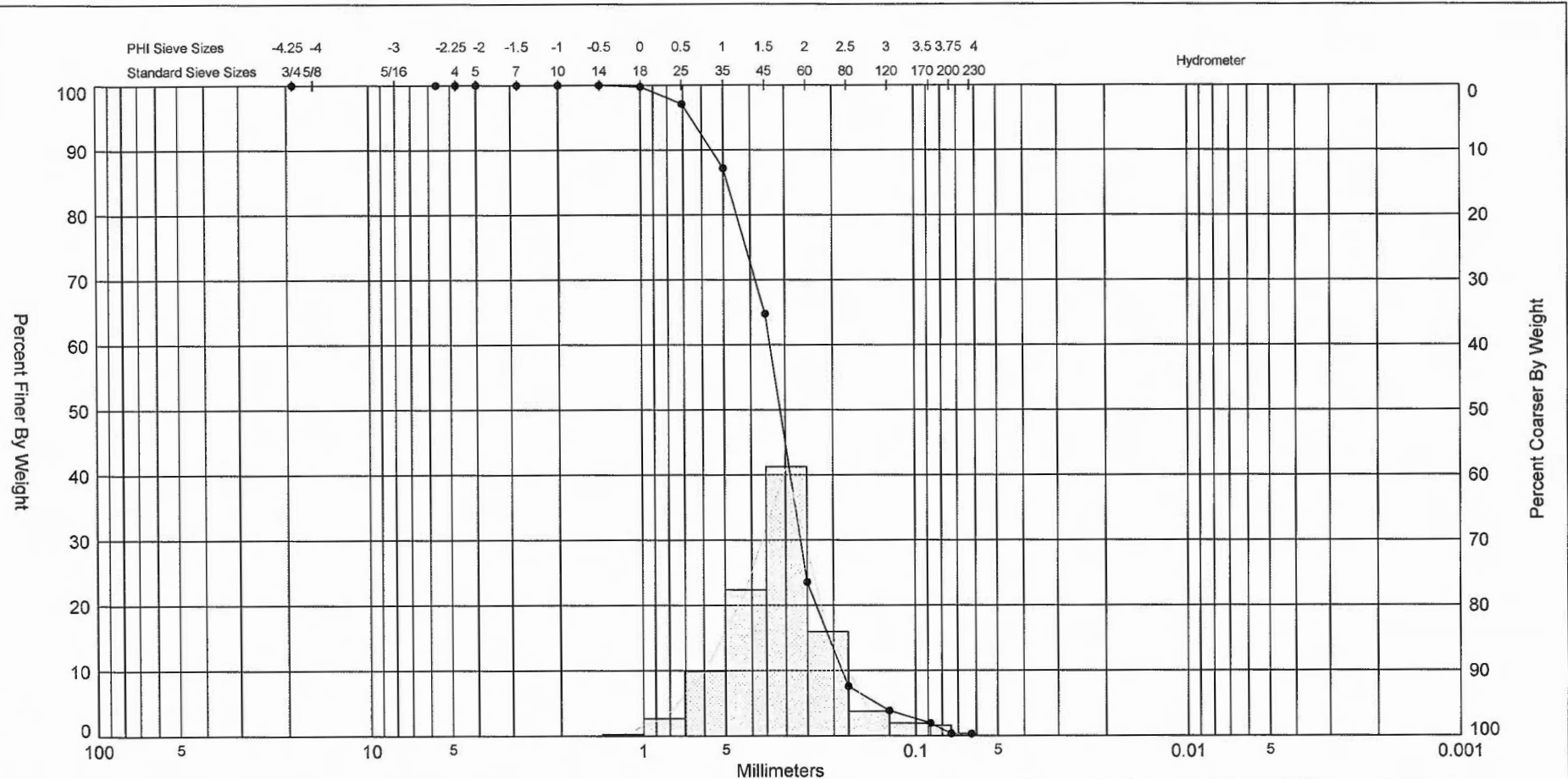
SIEVE ANALYSIS JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 5/20/10




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
-28 PCC #S-1 (6.3-6.3')	—●—		SP	#200 - 0.42 #230 - 0.30			1.56	1.55	0.44	4.18	0.65	Project Name:	Jupiter Island 10
Comments: 10 YR 5/1 Munsell @ 10% moisture. Sample after calcium carbonate.												Analysis Date:	02-23-10
Depths and elevations based on measured values												Analyzed By:	ML
 AMERICAN VIBRACORE SERVICES							American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444					Easting (X, ft):	966409.66
												Northing (Y, ft):	970281.988
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

SIEVE ANALYSIS: JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 5/20/10



Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
-33 PCC #S-1 (8.5-8.5')	●—		SP	#200 - 0.34 #230 - 0.29			1.68	1.67	0.36	4.11	0.63	Project Name:	Jupiter Island 10
Comments: 10 YR 5/1 Munsell @ 10% moisture. Sample after calcium carbonate.												Analysis Date:	02-23-10
Depths and elevations based on measured values												Analyzed By:	ML
 American Vibracore Services, Inc. 1215 Wallace Drive Delray Beach, FL 33444												Easting (X, ft):	967646.742
												Northing (Y, ft):	969624.824
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

**Post-Calcium
Carbonate
Sieve
Reports**



Granulometric Report
 Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
 Sample Name: JI-6 PCC #S-1 (3-3')
 Analysis Date: 02-23-10
 Analyzed By: ML

Easting (ft): 967434.061 Northing (ft): 976918.605 Coordinate System: Florida State Plane East Elevation (ft):

USCS: SP Munsell: Comments: 10 YR 4/1 Munsell @ 10% Moisture. Sample after calcium carbonate.

Dry Weight (g): 25.35 Wash Weight (g): 25.34 Pan Retained (g): Sieve Loss (%): Fines (%): #200 - 0.57, #230 - 0.10 Organics (%): 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
3.5	-2.49	5.62	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	0.00	0.00	0.00	0.00
25	0.50	0.71	0.05	0.20	0.05	0.20
35	1.00	0.50	0.22	0.87	0.27	1.07
45	1.50	0.35	1.72	6.79	1.99	7.86
60	2.00	0.25	5.14	20.28	7.13	28.14
80	2.50	0.18	14.84	58.54	21.97	86.68
120	3.00	0.13	2.58	10.18	24.55	96.86
170	3.50	0.09	0.44	1.74	24.99	98.60
200	3.75	0.07	0.21	0.83	25.20	99.43
230	4.00	0.06	0.12	0.47	25.32	99.90

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.91	2.48	2.40	2.19	1.92	1.70	1.29
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	2.15	0.23	0.46	-0.04	5.32	

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT 5/20/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-7 PCC #S-1 (9.8-9.8')
Analysis Date: 02-23-10
Analyzed By: ML

Easting (ft): 968386.926	Northing (ft): 977216.686	Coordinate System: Florida State Plane East	Elevation (ft):
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USCS: SP	Munsell:	Comments: 10 YR 5/2 Munsell @ 10% Moisture. Sample after calcium carbonate.
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Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%): #200 - 0.37 #230 - 0.33	Organics (%):	Carbonates (%):	Shells (%):
26.76	26.72						
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	
3.5	-2.49	5.62	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	0.00	0.00	0.00	0.00	
25	0.50	0.71	0.01	0.04	0.01	0.04	
35	1.00	0.50	0.61	2.28	0.62	2.32	
45	1.50	0.35	6.81	25.45	7.43	27.77	
60	2.00	0.25	12.66	47.31	20.09	75.08	
80	2.50	0.18	3.17	11.85	23.26	86.93	
120	3.00	0.13	2.16	8.07	25.42	95.00	
170	3.50	0.09	0.91	3.40	26.33	98.40	
200	3.75	0.07	0.33	1.23	26.66	99.63	
230	4.00	0.06	0.01	0.04	26.67	99.67	

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.00	2.38	2.00	1.73	1.45	1.27	1.05

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	1.81	0.29	0.56	1.01	4.09

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT 5/20/10

Granulometric Report
Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-9 PCC #S-1 (5.6-5.6')
Analysis Date: 02-23-10
Analyzed By: ML

Easting (ft): 965828.685 Northing (ft): 975349.228 Coordinate System: Florida State Plane East Elevation (ft):

USCS: SP Munsell: Comments: 10 YR 4/1 Munsell @ 10% Moisture. Sample after calcium carbonate.

Dry Weight (g): 16.92 Wash Weight (g): 16.91 Pan Retained (g): Sieve Loss (%): Fines (%): #200 - 0.60, #230 - 0.36 Organics (%): 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
3.5	-2.49	5.62	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	0.06	0.01	0.06
25	0.50	0.71	0.07	0.41	0.08	0.47
35	1.00	0.50	1.27	7.51	1.35	7.98
45	1.50	0.35	4.63	27.36	5.98	35.34
60	2.00	0.25	5.82	34.40	11.80	69.74
80	2.50	0.18	1.98	11.70	13.78	81.44
120	3.00	0.13	2.33	13.77	16.11	95.21
170	3.50	0.09	0.54	3.19	16.65	98.40
200	3.75	0.07	0.17	1.00	16.82	99.40
230	4.00	0.06	0.04	0.24	16.86	99.64

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.99	2.59	2.22	1.71	1.31	1.15	0.80

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	1.8	0.29	0.66	0.54	2.94

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT - 5/20/10

Granularmetric Report
 Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
 Sample Name: JI-10 PCC #S-1 (6.6-6.6')
 Analysis Date: 02-23-10
 Analyzed By: ML

Easting (ft): 966727.193 Northing (ft): 975665.037 Coordinate System: Florida State Plane East Elevation (ft):

USCS: SP Munsell: Comments: 10 YR 5/1 Munsell @ 10% moisture. Sample after Calcium carbonate.

Dry Weight (g): 9.99 Wash Weight (g): 9.99 Pan Retained (g): Sieve Loss (%): Fines (%): #200 - 0.50, #230 - 0.30 Organics (%): 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
3.5	-2.49	5.62	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	0.00	0.00	0.00	0.00
25	0.50	0.71	0.05	0.50	0.05	0.50
35	1.00	0.50	0.69	6.91	0.74	7.41
45	1.50	0.35	3.22	32.23	3.96	39.64
60	2.00	0.25	4.86	48.65	8.82	88.29
80	2.50	0.18	0.55	5.51	9.37	93.80
120	3.00	0.13	0.26	2.60	9.63	96.40
170	3.50	0.09	0.17	1.70	9.80	98.10
200	3.75	0.07	0.14	1.40	9.94	99.50
230	4.00	0.06	0.02	0.20	9.96	99.70

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.73	1.96	1.86	1.61	1.27	1.13	0.83

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	1.62	0.33	0.53	1.25	6.47

GRANULARMETRIC REPORT JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 5/20/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-11 PCC #S-1 (3-3')
Analysis Date: 02-23-10
Analyzed By: ML

Easting (ft): 967745.259	Northing (ft): 975957.536	Coordinate System: Florida State Plane East	Elevation (ft):
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USCS: SP	Munsell:	Comments: 10 YR 5/1 Munsell @ 10% moisture. Sample after calcium carbonate.
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Dry Weight (g): 33.47	Wash Weight (g): 33.45	Pan Retained (g):	Sieve Loss (%):	Fines (%): #200 - 0.01 #230 - 0.01	Organics (%):	Carbonates (%):	Shells (%):
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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
3.5	-2.49	5.62	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	0.00	0.00	0.00	0.00
25	0.50	0.71	0.03	0.09	0.03	0.09
35	1.00	0.50	0.35	1.05	0.38	1.14
45	1.50	0.35	4.05	12.10	4.43	13.24
60	2.00	0.25	15.83	47.30	20.26	60.54
80	2.50	0.18	8.39	25.07	28.65	85.61
120	3.00	0.13	3.42	10.22	32.07	95.83
170	3.50	0.09	1.05	3.14	33.12	98.97
200	3.75	0.07	0.34	1.02	33.46	99.99
230	4.00	0.06	0.00	0.00	33.46	99.99

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.96	2.47	2.29	1.89	1.62	1.53	1.16
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	1.97	0.26	0.51	0.67	3.76	

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT 5/20/10

Granularmetric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10

Sample Name: JI-12 PCC #S-1 (14-14')

Analysis Date: 02-23-10

Analyzed By: ML

Easting (ft): 968692.81	Northing (ft): 976243.464	Coordinate System: Florida State Plane East	Elevation (ft):
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USCS: SP	Munsell:	Comments: 10 YR 4/1 Munsell @ 10% moisture. Sample after calcium carbonate.
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Dry Weight (g): 25.22	Wash Weight (g): 24.97	Pan Retained (g):	Sieve Loss (%):	Fines (%): #200 - 1.21 #230 - 1.17	Organics (%):	Carbonates (%):	Shells (%):
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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
3.5	-2.49	5.62	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	0.00	0.00	0.00	0.00
25	0.50	0.71	0.04	0.16	0.04	0.16
35	1.00	0.50	0.46	1.82	0.50	1.98
45	1.50	0.35	3.03	12.01	3.53	13.99
60	2.00	0.25	14.82	58.76	18.35	72.75
80	2.50	0.18	5.06	20.06	23.41	92.81
120	3.00	0.13	1.01	4.00	24.42	96.81
170	3.50	0.09	0.34	1.35	24.76	98.16
200	3.75	0.07	0.16	0.63	24.92	98.79
230	4.00	0.06	0.01	0.04	24.93	98.83

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.77	2.28	2.06	1.81	1.59	1.52	1.13

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	1.84	0.28	0.44	0.78	5.81

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS GDT 5/20/10

Granulometric Report
 Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
 Sample Name: JI-14 PCC #S-1 (11-11')
 Analysis Date: 02-23-10
 Analyzed By: ML

Easting (ft): 966134.337 Northing (ft): 974400.225 Coordinate System: Florida State Plane East Elevation (ft):

USCS: SP Munsell: Comments: 10 YR 4/1 Munsell @ 10% moisture. Sample after calcium carbonate.

Dry Weight (g): 35.49 Wash Weight (g): 35.48 Pan Retained (g): Sieve Loss (%): Fines (%): #200 - 0.35, #230 - 0.29 Organics (%): 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
3.25	-2.49	5.62	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	0.00	0.00	0.00	0.00
25	0.50	0.71	0.20	0.56	0.20	0.56
35	1.00	0.50	1.86	5.24	2.06	5.80
45	1.50	0.35	6.32	17.81	8.38	23.61
60	2.00	0.25	11.39	32.09	19.77	55.70
80	2.50	0.18	8.50	23.95	28.27	79.65
120	3.00	0.13	5.41	15.24	33.68	94.89
170	3.50	0.09	1.26	3.55	34.94	98.44
200	3.75	0.07	0.43	1.21	35.37	99.65
230	4.00	0.06	0.02	0.06	35.39	99.71

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.02	2.64	2.40	1.91	1.52	1.29	0.92

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	1.95	0.26	0.64	0.16	2.82

GRANULARMETRIC REPORT JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 5/20/10

Granularmetric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-15B PCC #S-1 (13-13')
Analysis Date: 02-23-10
Analyzed By: ML

Easting (ft): 966633.016	Northing (ft): 974482.762	Coordinate System: Florida State Plane East	Elevation (ft):
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USCS: SP	Munsell:	Comments: 10 YR 4/1 Munsell @ 10% moisture. Sample after calcium carbonate.
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Dry Weight (g): 32.66	Wash Weight (g): 32.65	Pan Retained (g):	Sieve Loss (%):	Fines (%): #200 - 0.31 #230 - 0.31	Organics (%):	Carbonates (%):	Shells (%):
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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
3.5	-2.49	5.62	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	0.00	0.00	0.00	0.00
25	0.50	0.71	0.05	0.15	0.05	0.15
35	1.00	0.50	0.57	1.75	0.62	1.90
45	1.50	0.35	3.09	9.46	3.71	11.36
60	2.00	0.25	9.60	29.39	13.31	40.75
80	2.50	0.18	12.19	37.32	25.50	78.07
120	3.00	0.13	5.14	15.74	30.64	93.81
170	3.50	0.09	1.34	4.10	31.98	97.91
200	3.75	0.07	0.58	1.78	32.56	99.69
230	4.00	0.06	0.00	0.00	32.56	99.69

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.15	2.69	2.46	2.12	1.73	1.58	1.16
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	2.12	0.23	0.56	0.14	3.32	

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT 5/20/10

Granulometric Report
Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-16 PCC #S-1 (5-5')
Analysis Date: 02-23-10
Analyzed By: ML

Easting (ft): 968034.717 Northing (ft): 975002.363 Coordinate System: Florida State Plane East Elevation (ft):

USCS: SP Munsell: Comments: 10 YR 5/1 Munsell @ 10% moisture. Sample after calcium carbonate.

Dry Weight (g): 22.31 Wash Weight (g): 22.31 Pan Retained (g): Sieve Loss (%): Fines (%): #200 - 0.36, #230 - 0.27 Organics (%): 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
3.5	-2.49	5.62	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	0.18	0.04	0.18
25	0.50	0.71	0.36	1.61	0.40	1.79
35	1.00	0.50	1.21	5.42	1.61	7.21
45	1.50	0.35	2.51	11.25	4.12	18.46
60	2.00	0.25	9.86	44.20	13.98	62.66
80	2.50	0.18	6.64	29.76	20.62	92.42
120	3.00	0.13	1.07	4.80	21.69	97.22
170	3.50	0.09	0.34	1.52	22.03	98.74
200	3.75	0.07	0.20	0.90	22.23	99.64
230	4.00	0.06	0.02	0.09	22.25	99.73

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.77	2.36	2.21	1.86	1.57	1.39	0.80
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	1.85	0.28	0.56	-0.16	4.59	

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 5/20/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-18 PCC #S-1 (5.2-5.2')
Analysis Date: 02-23-10
Analyzed By: ML

Easting (ft): 966445.612	Northing (ft): 973427.029	Coordinate System: Florida State Plane East	Elevation (ft):
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USCS: SP	Munsell:	Comments: 10 YR 5/1 Munsell @ 10% moisture. Sample after calcium carbonate.
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Dry Weight (g): 12.45	Wash Weight (g): 12.45	Pan Retained (g):	Sieve Loss (%):	Fines (%): #200 - 0.23 #230 - 0.07	Organics (%):	Carbonates (%):	Shells (%):
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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
3.5	-2.49	5.62	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	0.02	0.16	0.02	0.16
25	0.50	0.71	0.19	1.53	0.21	1.69
35	1.00	0.50	0.61	4.90	0.82	6.59
45	1.50	0.35	2.11	16.95	2.93	23.54
60	2.00	0.25	5.23	42.01	8.16	65.55
80	2.50	0.18	3.23	25.94	11.39	91.49
120	3.00	0.13	0.60	4.82	11.99	96.31
170	3.50	0.09	0.25	2.01	12.24	98.32
200	3.75	0.07	0.18	1.45	12.42	99.77
230	4.00	0.06	0.02	0.16	12.44	99.93

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.86	2.36	2.18	1.81	1.52	1.28	0.84

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	1.83	0.28	0.59	0.22	4.38

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 5/20/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-19 PCC #S-1 (10.1-10.1)
Analysis Date: 02-23-10
Analyzed By: ML

Easting (ft): 967398.474	Northing (ft): 973737.202	Coordinate System: Florida State Plane East	Elevation (ft):
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USCS: SP	Munsell:	Comments: 10 YR 4/1 Munsell @ 10% moisture. Sample after calcium carbonate.
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Dry Weight (g): 26.01	Wash Weight (g): 25.99	Pan Retained (g):	Sieve Loss (%):	Fines (%): #200 - 0.74 #230 - 0.36	Organics (%):	Carbonates (%):	Shells (%):
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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
3.5	-2.49	5.62	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	0.15	0.04	0.15
25	0.50	0.71	0.51	1.96	0.55	2.11
35	1.00	0.50	2.30	8.84	2.85	10.95
45	1.50	0.35	5.08	19.53	7.93	30.48
60	2.00	0.25	7.52	28.91	15.45	59.39
80	2.50	0.18	5.95	22.88	21.40	82.27
120	3.00	0.13	2.95	11.34	24.35	93.61
170	3.50	0.09	0.89	3.42	25.24	97.03
200	3.75	0.07	0.58	2.23	25.82	99.26
230	4.00	0.06	0.10	0.38	25.92	99.64

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.20	2.58	2.34	1.84	1.36	1.13	0.66

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	1.86	0.28	0.72	0.2	2.99

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT - 5/20/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-21 PCC #S-1 (2-2')
Analysis Date: 02-23-10
Analyzed By: ML

Easting (ft): 966745.864	Northing (ft): 972477.989	Coordinate System: Florida State Plane East	Elevation (ft):
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USCS: SP	Munsell:	Comments: 10 YR 4/1 Munsell @ 10% moisture. Sample after calcium carbonate.
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Dry Weight (g): 21.67	Wash Weight (g): 21.63	Pan Retained (g):	Sieve Loss (%):	Fines (%): #200 - 0.54 #230 - 0.40	Organics (%):	Carbonates (%):	Shells (%):
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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
3.5	-2.49	5.62	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	0.03	0.14	0.03	0.14
25	0.50	0.71	0.34	1.57	0.37	1.71
35	1.00	0.50	1.54	7.11	1.91	8.82
45	1.50	0.35	4.14	19.10	6.05	27.92
60	2.00	0.25	8.23	37.98	14.28	65.90
80	2.50	0.18	5.33	24.60	19.61	90.50
120	3.00	0.13	1.41	6.51	21.02	97.01
170	3.50	0.09	0.35	1.62	21.37	98.63
200	3.75	0.07	0.18	0.83	21.55	99.46
230	4.00	0.06	0.03	0.14	21.58	99.60

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.85	2.37	2.18	1.79	1.42	1.19	0.73
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	1.79	0.29	0.6	0.09	3.69	

GRANULARMETRIC REPORT JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 5/20/10

Granularmetric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-24B PCC #S-1 (8-8')
Analysis Date: 02-23-10
Analyzed By: ML

Easting (ft): 912102.234	Northing (ft): 970962.131	Coordinate System: Florida State Plane East	Elevation (ft):
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USCS: SP	Munsell:	Comments: 10 YR 5/1 Munsell @ 10% moisture. Sample after calcium carbonate.
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Dry Weight (g): 30.05	Wash Weight (g): 30.02	Pan Retained (g):	Sieve Loss (%):	Fines (%): #200 - 0.24 #230 - 0.21	Organics (%):	Carbonates (%):	Shells (%):
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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
3.5	-2.49	5.62	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	0.03	0.10	0.03	0.10
25	0.50	0.71	0.56	1.86	0.59	1.96
35	1.00	0.50	2.99	9.95	3.58	11.91
45	1.50	0.35	8.16	27.15	11.74	39.06
60	2.00	0.25	11.01	36.64	22.75	75.70
80	2.50	0.18	5.53	18.40	28.28	94.10
120	3.00	0.13	1.03	3.43	29.31	97.53
170	3.50	0.09	0.42	1.40	29.73	98.93
200	3.75	0.07	0.25	0.83	29.98	99.76
230	4.00	0.06	0.01	0.03	29.99	99.79

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.63	2.23	1.99	1.65	1.24	1.08	0.65

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	1.65	0.32	0.59	0.32	3.83

GRANULARMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT 5/20/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-25 PCC #S-1 (11.1-11.1)
Analysis Date: 02-23-10
Analyzed By: ML

Easting (ft): 912784.845	Northing (ft): 971160.277	Coordinate System: Florida State Plane East	Elevation (ft):
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USCS: SP	Munsell:	Comments: 10 YR 4/1 Munsell @ 10% moisture. Sample after calcium carbonate.
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Dry Weight (g): 16.53	Wash Weight (g): 16.53	Pan Retained (g):	Sieve Loss (%):	Fines (%): #200 - 0.55 #230 - 0.31	Organics (%):	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	
3.5	-2.49	5.62	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	0.00	0.00	0.00	0.00	
25	0.50	0.71	0.17	1.03	0.17	1.03	
35	1.00	0.50	1.29	7.80	1.46	8.83	
45	1.50	0.35	3.94	23.84	5.40	32.67	
60	2.00	0.25	5.92	35.81	11.32	68.48	
80	2.50	0.18	3.19	19.30	14.51	87.78	
120	3.00	0.13	0.80	4.84	15.31	92.62	
170	3.50	0.09	0.64	3.87	15.95	96.49	
200	3.75	0.07	0.49	2.96	16.44	99.45	
230	4.00	0.06	0.04	0.24	16.48	99.69	

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.31	2.40	2.17	1.74	1.34	1.15	0.75

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	1.8	0.29	0.68	0.68	3.66

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 5/20/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-28 PCC #S-1 (6.3-6.3')
Analysis Date: 02-23-10
Analyzed By: ML

Easting (ft): 966409.66	Northing (ft): 970281.988	Coordinate System: Florida State Plane East	Elevation (ft):
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USCS: SP	Munsell:	Comments: 10 YR 5/1 Munsell @ 10% moisture. Sample after calcium carbonate.
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Dry Weight (g): 16.93	Wash Weight (g): 16.93	Pan Retained (g):	Sieve Loss (%):	Fines (%): #200 - 0.42 #230 - 0.30	Organics (%):	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	
3.5	-2.49	5.62	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	0.09	0.53	0.09	0.53	
25	0.50	0.71	0.64	3.78	0.73	4.31	
35	1.00	0.50	2.16	12.76	2.89	17.07	
45	1.50	0.35	4.93	29.12	7.82	46.19	
60	2.00	0.25	5.86	34.61	13.68	80.80	
80	2.50	0.18	2.26	13.35	15.94	94.15	
120	3.00	0.13	0.40	2.36	16.34	96.51	
170	3.50	0.09	0.29	1.71	16.63	98.22	
200	3.75	0.07	0.23	1.36	16.86	99.58	
230	4.00	0.06	0.02	0.12	16.88	99.70	

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.68	2.12	1.92	1.56	1.14	0.96	0.53
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.55	0.34	0.65	0.44	4.18	

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ - FL DEP ROSS.GDT 5/20/10

Granulometric Report

Depths and elevations based on measured values



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

Project Name: Jupiter Island 10
Sample Name: JI-33 PCC #S-1 (8.5-8.5')
Analysis Date: 02-23-10
Analyzed By: ML

Easting (ft): 967646.742	Northing (ft): 969624.824	Coordinate System: Florida State Plane East	Elevation (ft):
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USCS: SP	Munsell:	Comments: 10 YR 5/1 Munsell @ 10% moisture. Sample after calcium carbonate.
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Dry Weight (g): 20.86	Wash Weight (g): 20.85	Pan Retained (g):	Sieve Loss (%):	Fines (%): #200 - 0.34 #230 - 0.29	Organics (%):	Carbonates (%):	Shells (%):
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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
3.5	-2.49	5.62	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	0.05	0.24	0.05	0.24
25	0.50	0.71	0.56	2.68	0.61	2.92
35	1.00	0.50	2.07	9.92	2.68	12.84
45	1.50	0.35	4.67	22.39	7.35	35.23
60	2.00	0.25	8.60	41.23	15.95	76.46
80	2.50	0.18	3.33	15.96	19.28	92.42
120	3.00	0.13	0.78	3.74	20.06	96.16
170	3.50	0.09	0.40	1.92	20.46	98.08
200	3.75	0.07	0.33	1.58	20.79	99.66
230	4.00	0.06	0.01	0.05	20.80	99.71

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Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.84	2.24	1.98	1.68	1.27	1.07	0.60

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	1.67	0.31	0.63	0.36	4.11

GRANULOMETRIC REPORT - JUPITER ISLAND 10.GPJ FL DEP ROSS.GDT 5/20/10

Calcium Carbonate Content Reports



REPORT OF CARBONATES CONTENT
By Acid Digestion – (Non-Pulverization)

DATE: 4/30/2010

Project No. : 10-0100

CLIENT: Gahagan & Bryant

Lab ID : CA-07

PROJECT: Jupiter Island 10

SAMPLED BY: AVS

DATE: 2-23-10

TESTED BY: M L

DATE: 4/30/2010

MATERIAL

DESCRIPTION: (Refer individual description on grain size distribution)

INTENDED USE: N/A

RESULTS

Location	Mass of Sample (g)	Insoluble residue (g)	Carbonates Content (%)
Jl-6 (3.0) ft	20.15	7.68	61.9
Jl-6 (9.5) ft	21.31	4.85	77.2
Jl-7 (2.0) ft	21.17	7.26	65.7
Jl-7 (9.8) ft	21.17	6.54	69.1
Jl-9 (1.0) ft	21.06	5.83	72.3
Jl-9 (5.6) ft	41.20	8.67	79.0
Jl-10 (6.6) ft	40.45	5.34	86.8
Jl-10 (9.5) ft	41.14	11.15	72.9
Jl-11 (3.0) ft	40.44	13.91	65.6
Jl-11 (9.0) ft	41.13	11.43	72.2

REPORT OF CARBONATES CONTENT
By Acid Digestion – (Non-Pulverization)

DATE: 4/30/2010

Project No. : 10-0100

CLIENT: Gahagan & Bryant

Lab ID : CA-08

PROJECT: Jupiter Island 10

SAMPLED BY: AVS

DATE: 2-23-10

TESTED BY: M L

DATE: 4/30/2010

MATERIAL

DESCRIPTION: (Refer individual description on grain size distribution)

INTENDED USE: N/A

RESULTS

Location	Mass of Sample (g)	Insoluble residue (g)	Carbonates Content (%)
Jl-12 (4.0) ft	40.51	15.98	60.6
Jl-12 (14.0) ft	41.01	15.11	63.2
Jl-14 (1.0) ft	20.10	4.93	75.5
Jl-14 (11.0) ft	20.54	8.16	60.3
Jl-15B (2.0) ft	20.58	3.98	80.7
Jl-15B (13.0) ft	20.45	8.17	60.0
Jl-16 (5.0) ft	20.82	5.52	73.5
Jl-16 (11.0) ft	20.18	6.53	67.6
Jl-18 (5.2) ft	20.97	3.31	84.2
Jl-18 (9.5) ft	20.08	6.44	67.9

REPORT OF CARBONATES CONTENT
By Acid Digestion – (Non-Pulverization)

DATE: 4/30/2010

Project No. : 10-0100

CLIENT: Gahagan & Bryant

Lab ID : CA-09

PROJECT: Jupiter Island 10

SAMPLED BY: AVS

DATE: 2-23-10

TESTED BY: M L

DATE: 4/30/2010

MATERIAL

DESCRIPTION: (Refer individual description on grain size distribution)

INTENDED USE: N/A

RESULTS

Location	Mass of Sample (g)	Insoluble residue (g)	Carbonates Content (%)
Jl-19 (1.0) ft	20.07	4.61	77.0
Jl-19 (10.1) ft	21.09	6.83	67.6
Jl-21 (2.0) ft	20.39	5.42	73.4
Jl-21 (14.0) ft	20.18	6.96	65.5
Jl-24B (2.0) ft	20.65	5.21	74.8
Jl-24B (8.0) ft	20.52	6.77	67.0
Jl-25 (2.8) ft	20.91	4.07	80.5
Jl-25 (11.1) ft	18.93	5.39	71.5
Jl-28 (3.4) ft	20.04	2.30	88.5
Jl-28 (6.3) ft	20.49	4.41	78.5

Photographic Logs



AVS
AMERICAN VIBRACORE
SERVICES

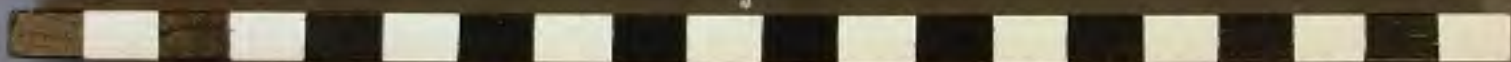
JUPITER ISLAND 1/2010

J1-6

0.0 - 2.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

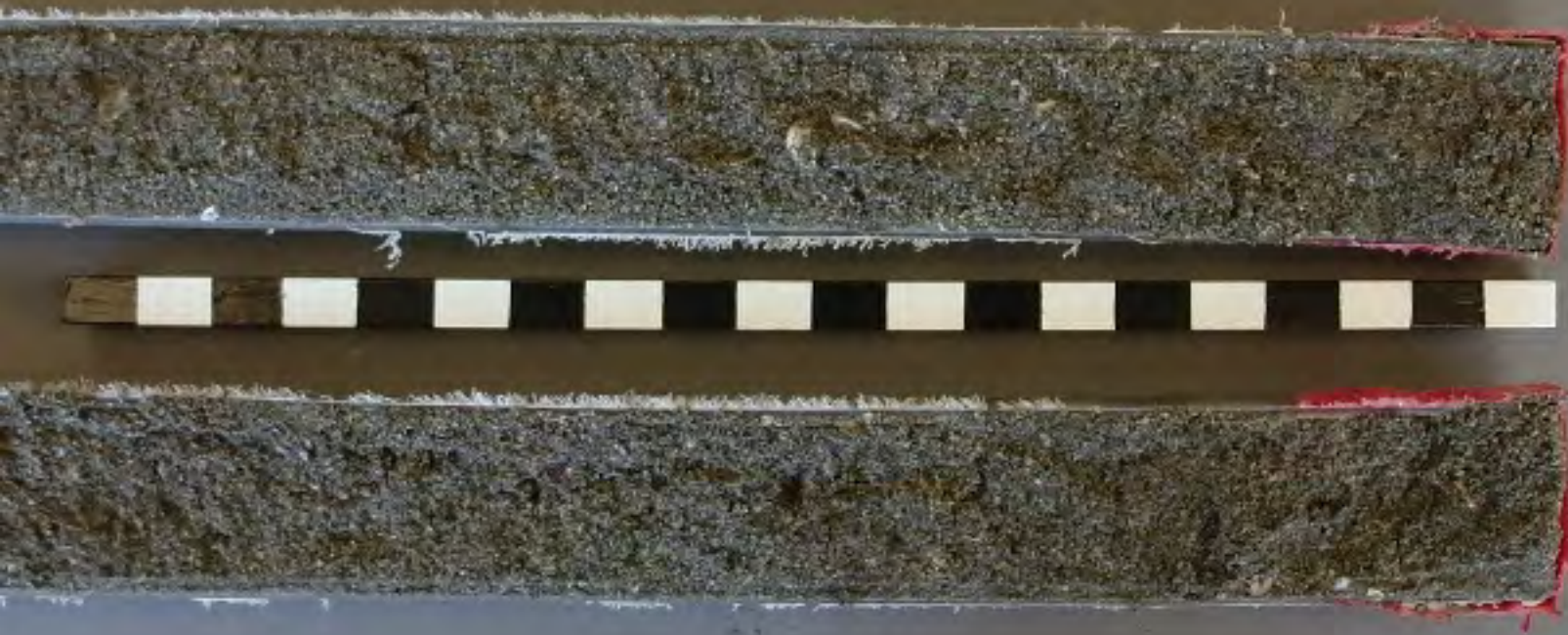
JUPITER ISLAND 1/2010

JI-6

2.0 - 4.0 FEET

TOP

BOTTOM




AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI-6

4.0 - 6.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI-6

6.0 - 8.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

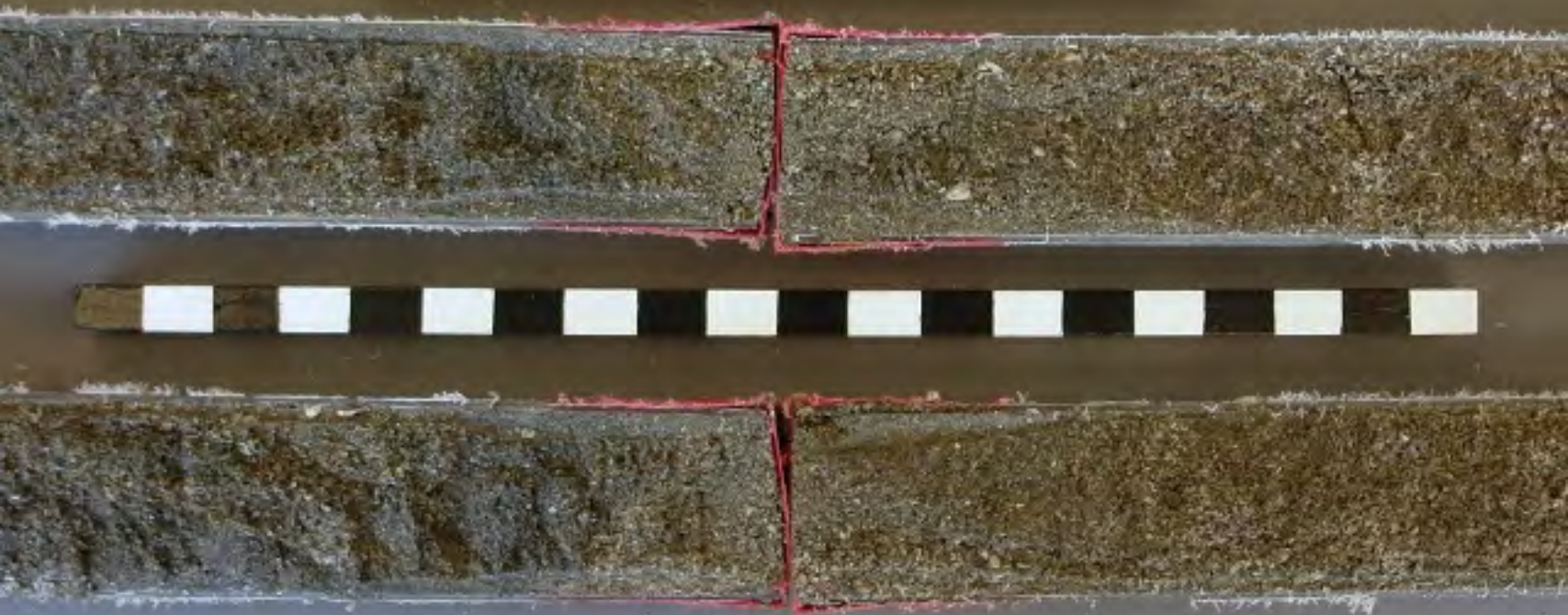
JUPITER ISLAND 1/2010

JI-6

8.0 - 10.0 FEET

TOP

BOTTOM



AOS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI - 6

10.0 - 12.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI - 6

12.0 - 14.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI-6

14.0 - 16.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI-6

16.0 - 18.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

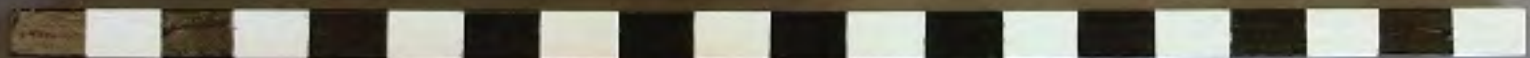
JUPITER ISLAND 1/2010

JI - 6

18.0 - 19.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

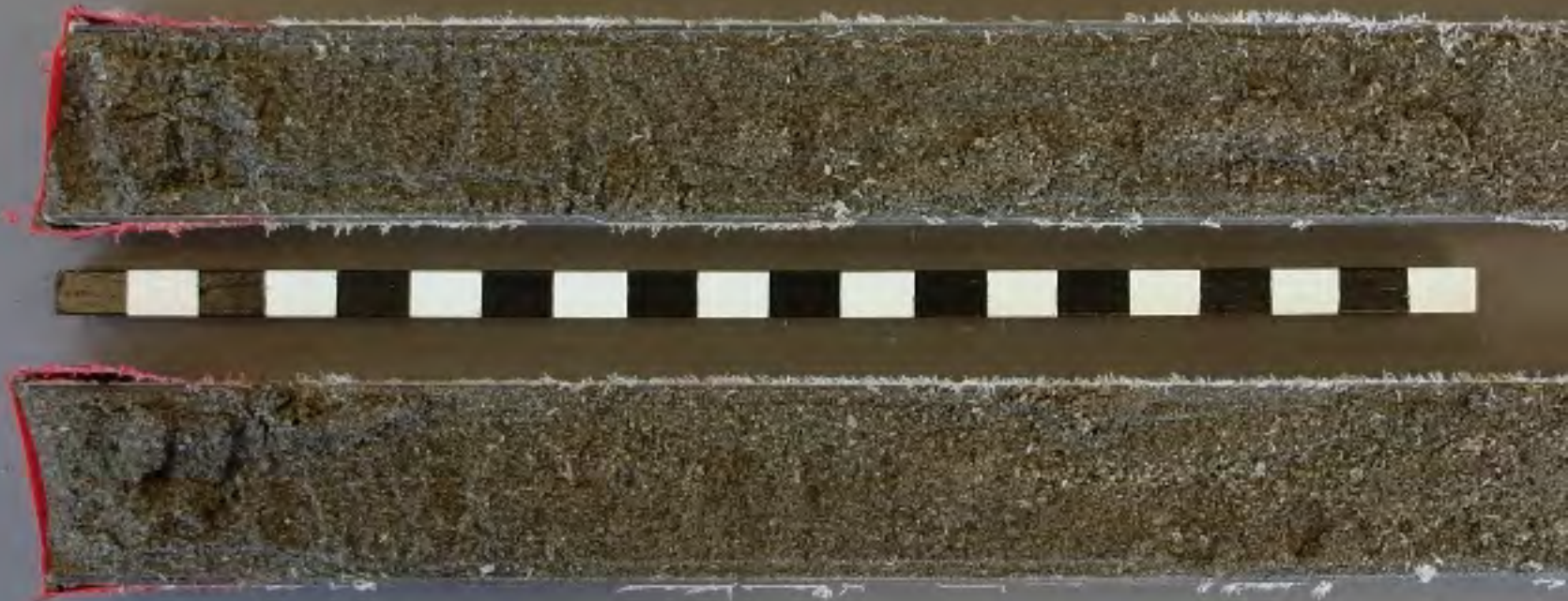
JUPITER ISLAND 1/2010

JI - 7

0.0 - 2.0 FEET

TOP

BOTTOM




AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

J1 - 7

2.0 - 4.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

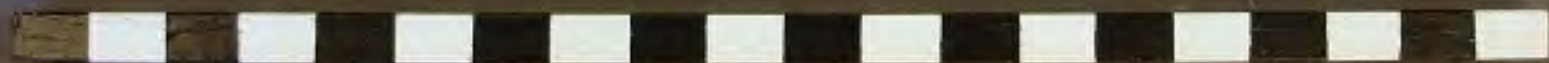
JUPITER ISLAND 1/2010

JI - 7

4.0 - 6.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

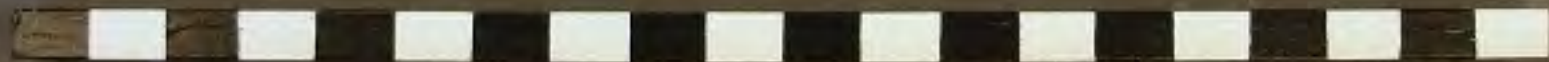
JUPITER ISLAND 1/2010

JI - 7

6.0 - 8.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

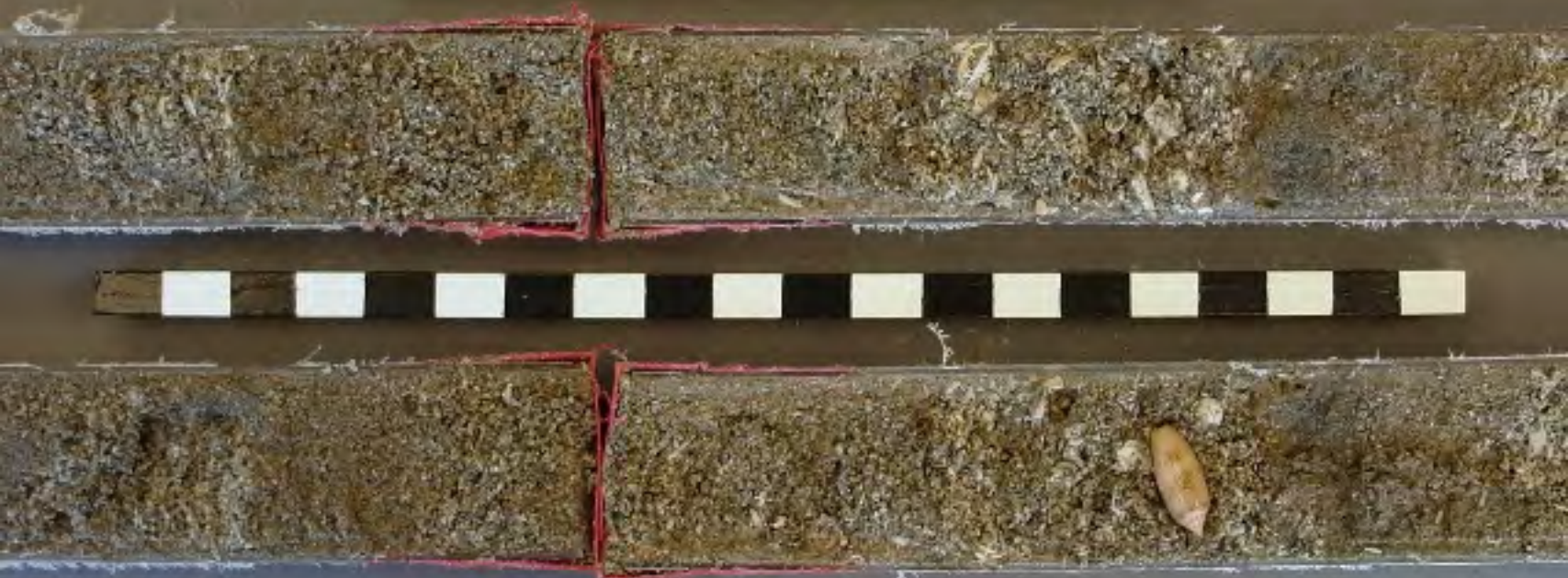
JUPITER ISLAND 1/2010

JI - 7

8.0 - 10.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI - 7

10.0 - 12.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

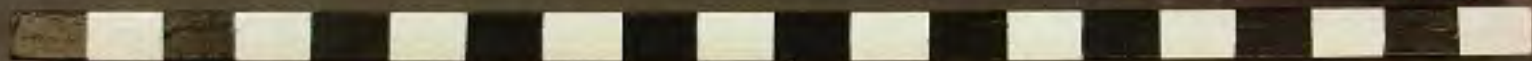
JUPITER ISLAND 1/2010

JI - 7

12.0 - 14.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI - 7

14.0 - 16.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

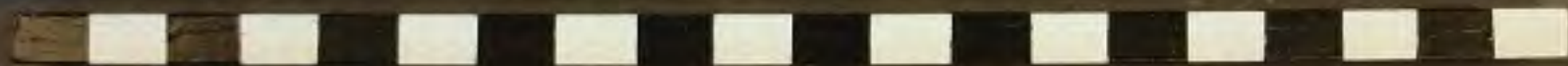
JUPITER ISLAND 1/2010

JI - 7

16.0 - 18.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

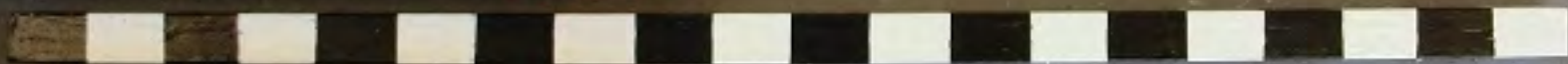
JUPITER ISLAND 1/2010

JI - 7

18.0 - 18.6 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

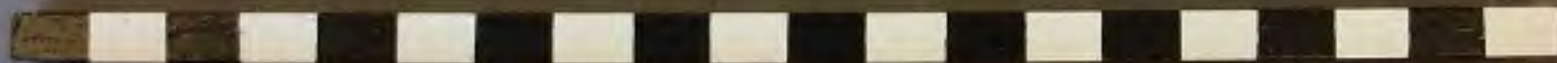
JUPITER ISLAND 1/2010

JI - 9

0.0 - 2.0 FEET

TOP

BOTTOM




AMERICAN VIBRACORE
SERVICES

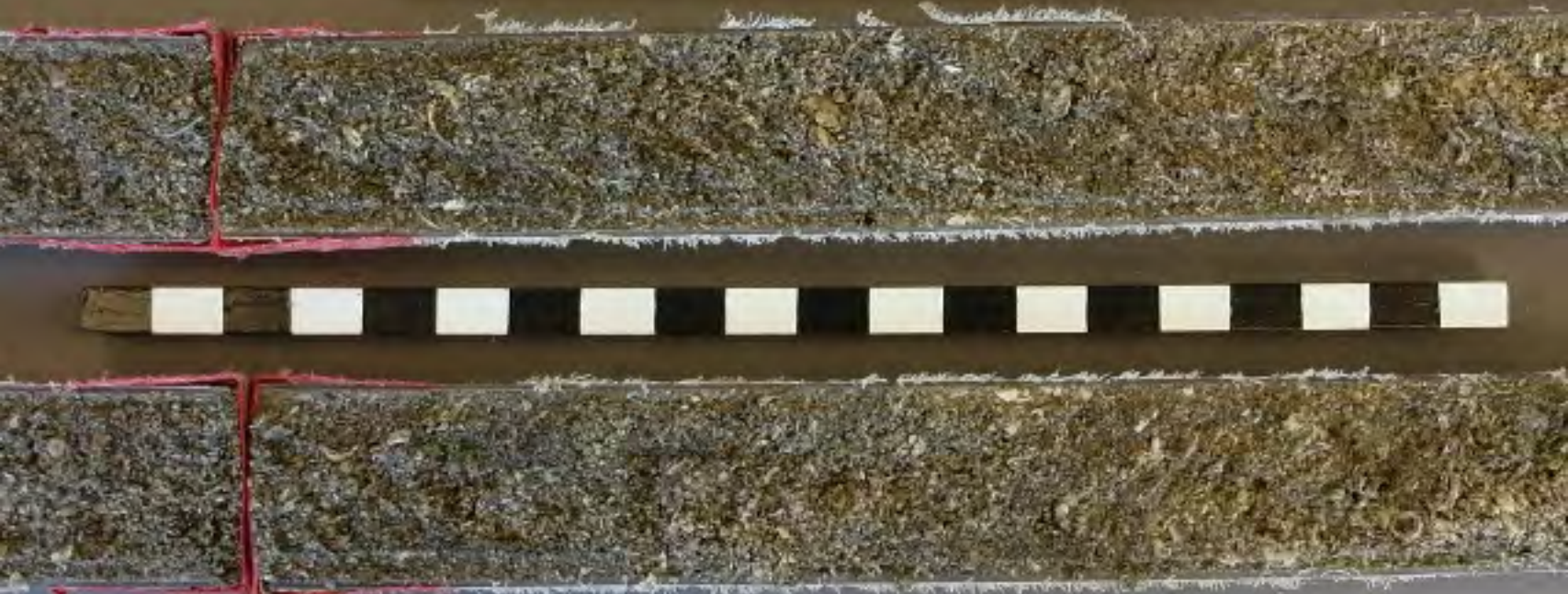
JUPITER ISLAND 1/2010

J1 - 9

2.0 - 4.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

J1 - 9

4.0 - 6.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI - 9

6.0 - 8.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

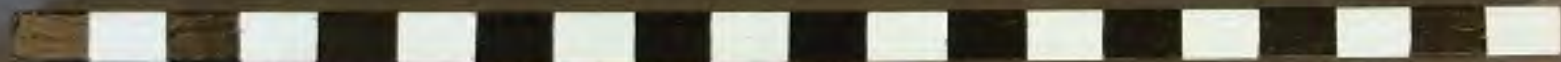
JUPITER ISLAND 1/2010

JI - 9

8.0 - 10.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI - 9

10.0 - 12.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

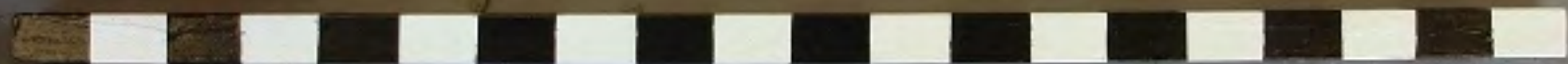
JUPITER ISLAND 1/2010

JI - 9

12.0 - 12.3 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

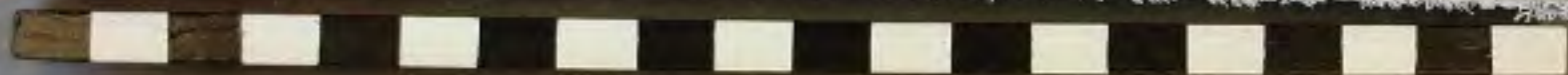
JUPITER ISLAND 1/2010

J1-10

0.0 - 2.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI-10

2.0 - 4.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

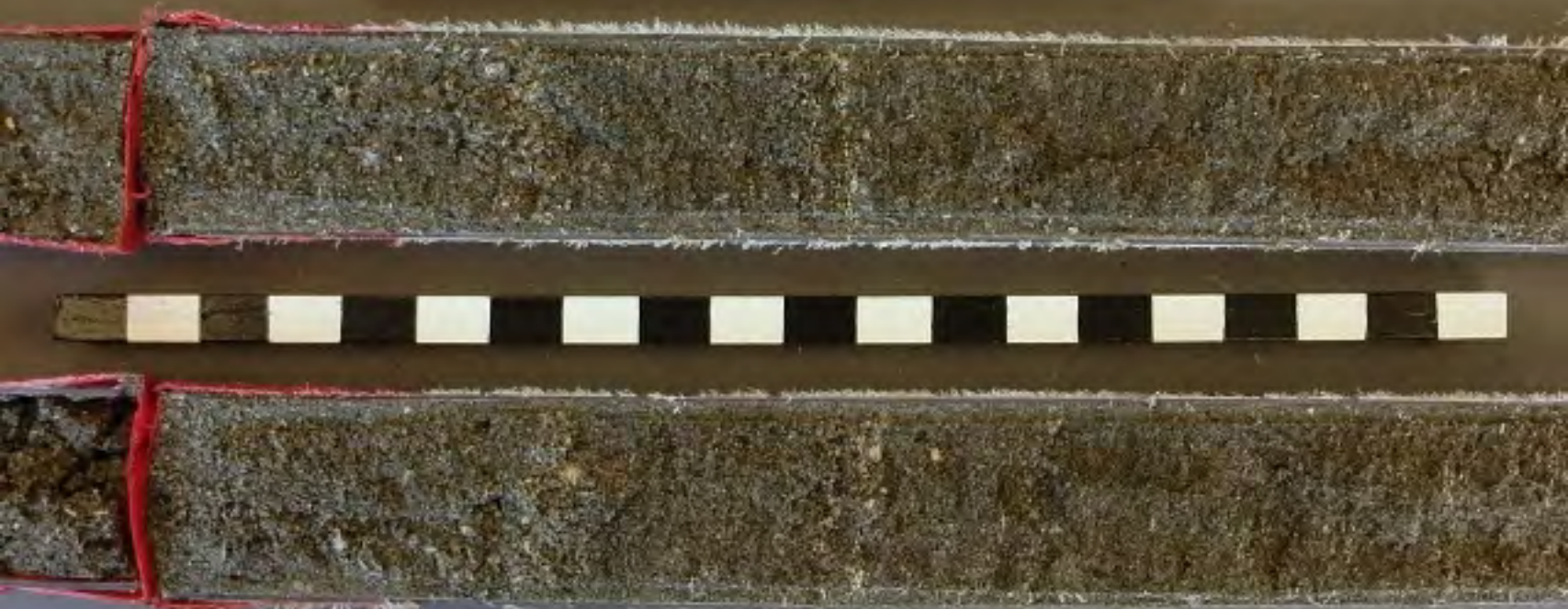
JUPITER ISLAND 1/2010

JI-10

4.0 - 6.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI-10

6.0 - 8.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI-10

8.0 - 10.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI-10

10.0 - 12.0 FEET

TOP

BOTTOM



A/S
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI-10

12.0 - 14.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

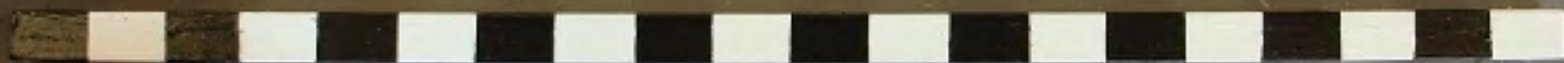
JUPITER ISLAND 1/2010

JI-10

14.0 - 14.2 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

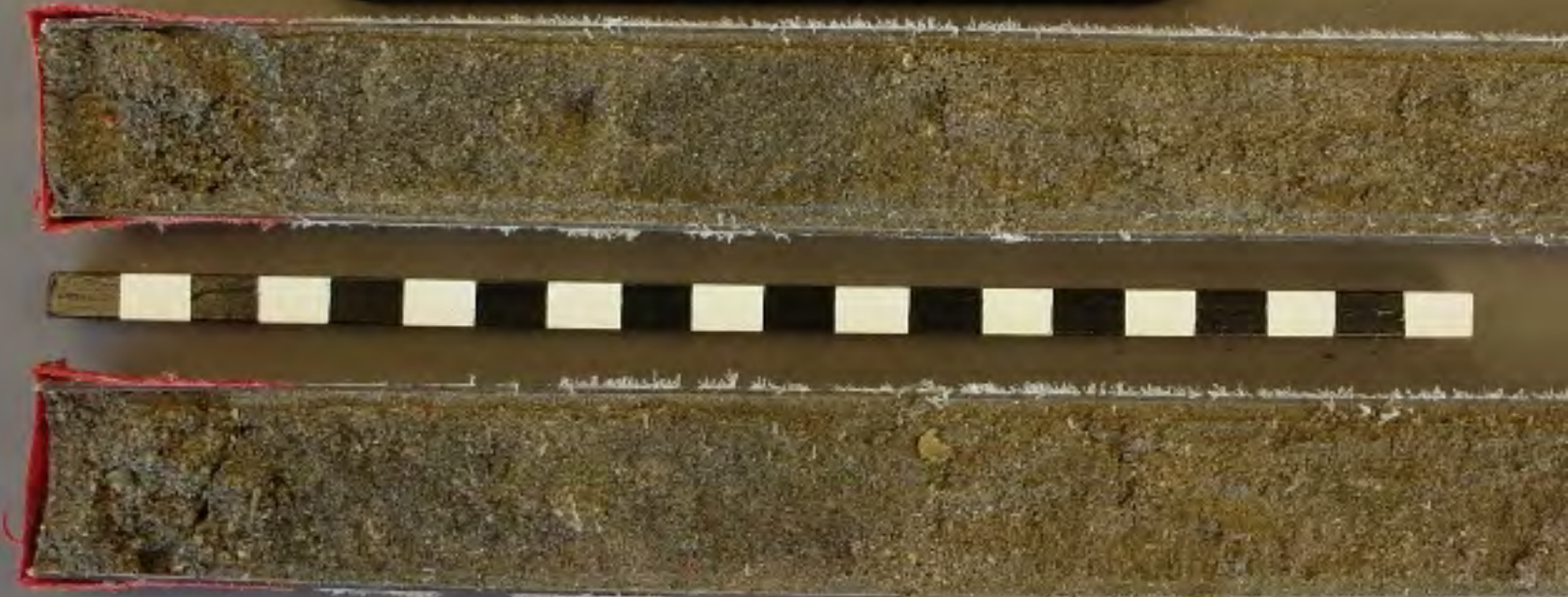
JUPITER ISLAND 1/2010

JI - 11

0.0 - 2.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI-11

2.0 - 4.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

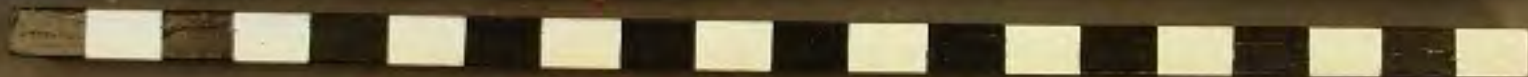
JUPITER ISLAND 1/2010

JI - 11

4.0 - 6.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI - 11

6.0 - 8.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

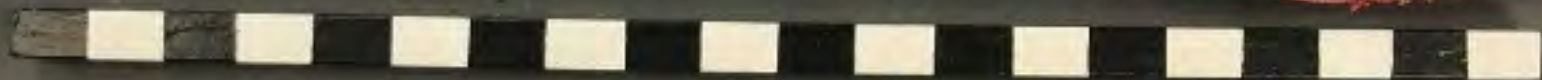
JUPITER ISLAND 1/2010

JI - 11

8.0 - 10.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

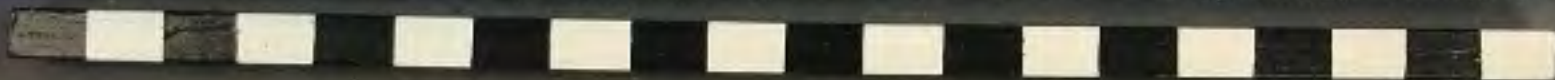
JUPITER ISLAND 1/2010

JI - 11

10.0 - 12.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI - 11

12.0 - 14.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

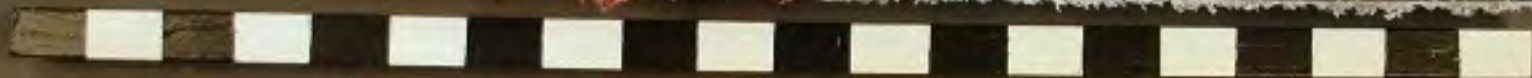
JUPITER ISLAND 1/2010

JI-11

14.0 - 16.0 FEET

TOP

BOTTOM




AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI - 11

16.0 - 18.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

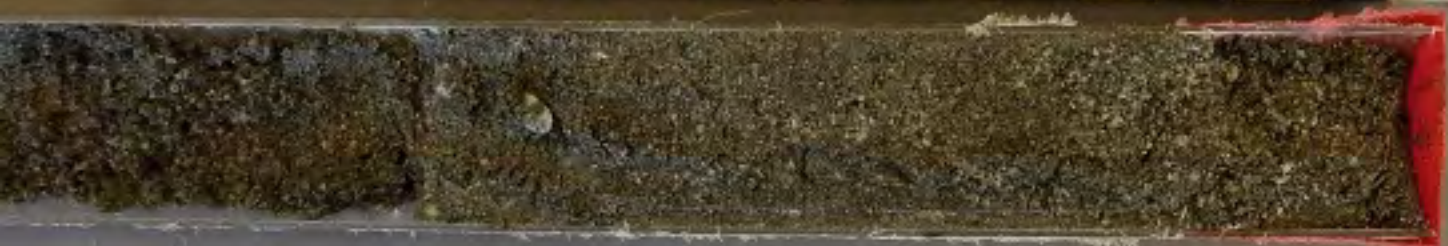
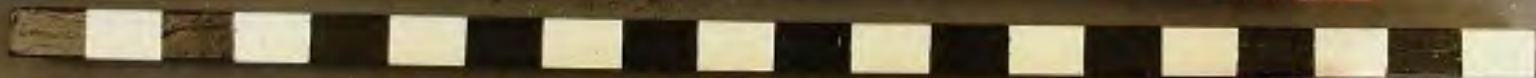
JUPITER ISLAND 1/2010

JI - 11

18.0 - 19.7 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

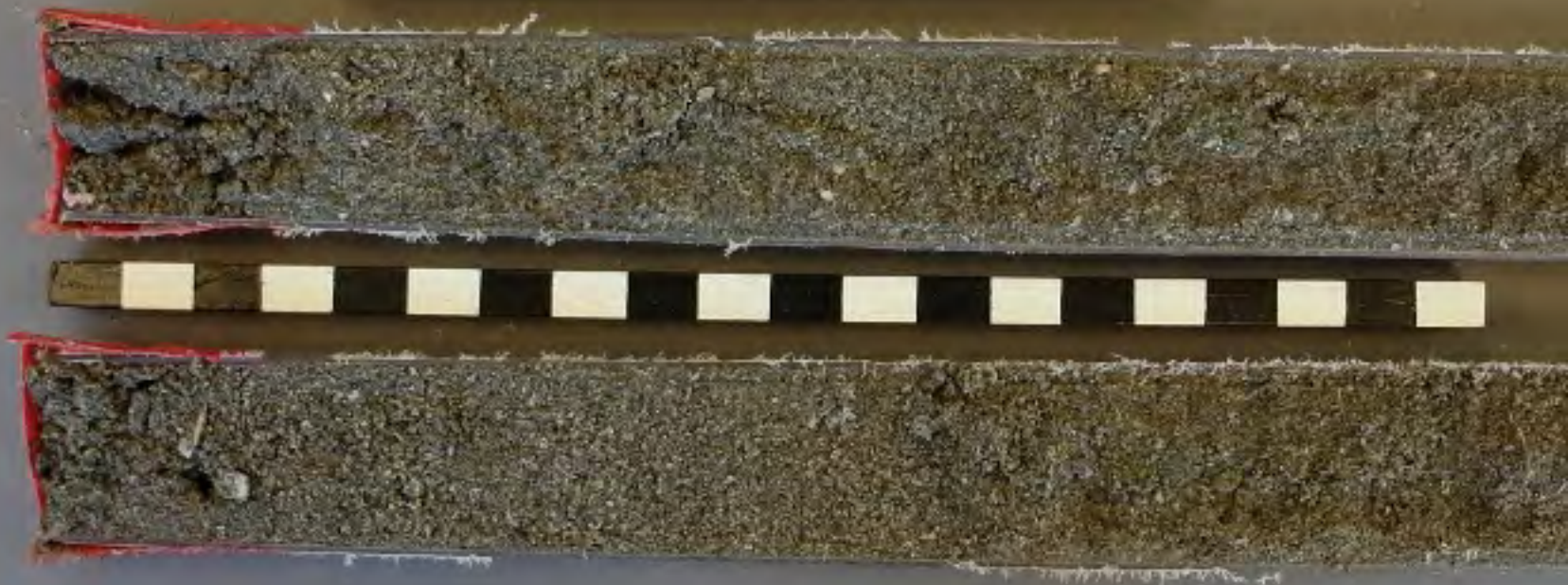
JUPITER ISLAND 1/2010

JI-12

0.0 - 2.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI-12

2.0 - 4.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

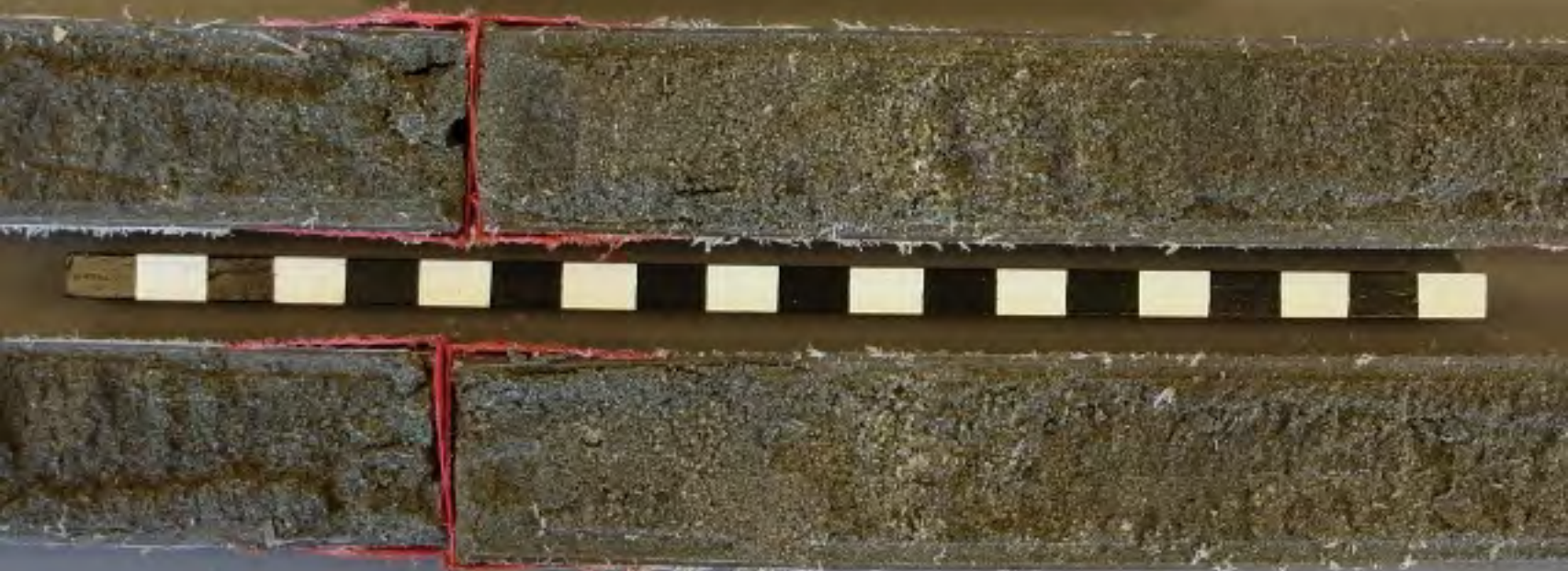
JUPITER ISLAND 1/2010

JI-12

4.0 - 6.0 FEET

TOP

BOTTOM



AOS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI-12

6.0 - 8.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI-12

8.0 - 10.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

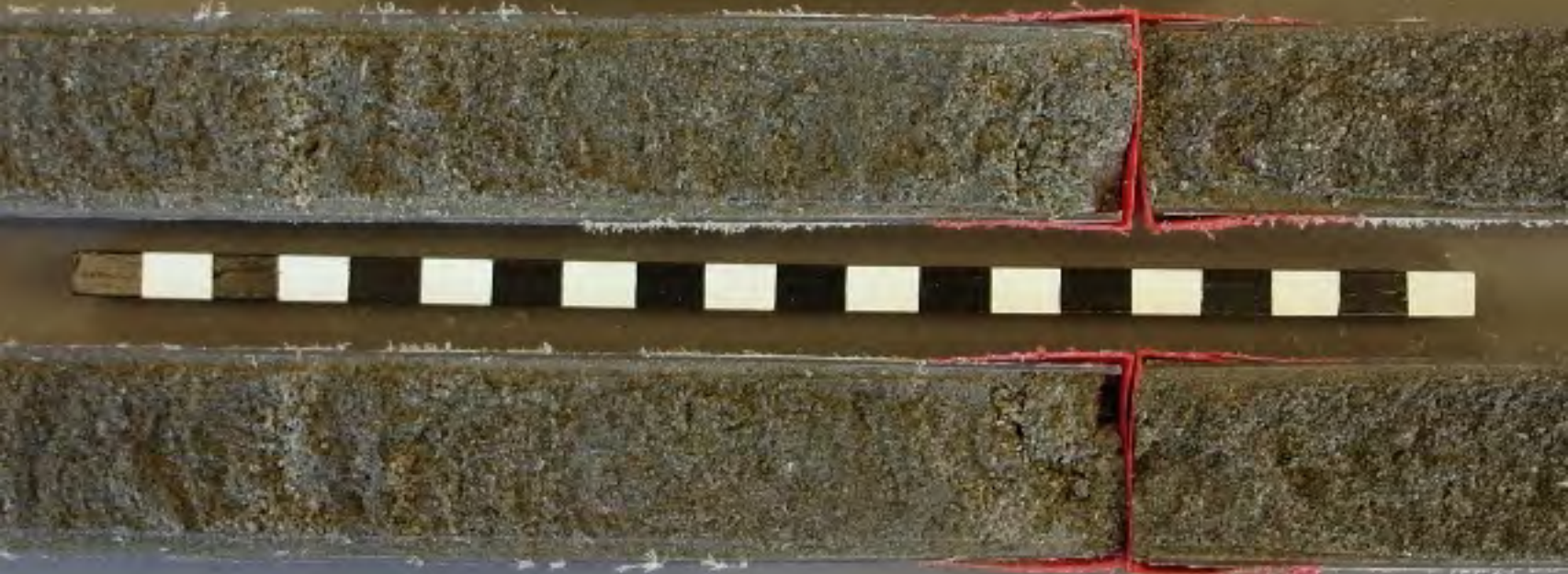
JUPITER ISLAND 1/2010

JI-12

8.0 - 10.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI-12

10.0 - 12.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

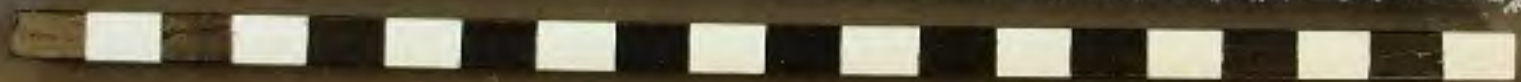
JUPITER ISLAND 1/2010

JI-12

12.0 - 14.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI-12

14.0 - 16.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI-12

16.0 - 18.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

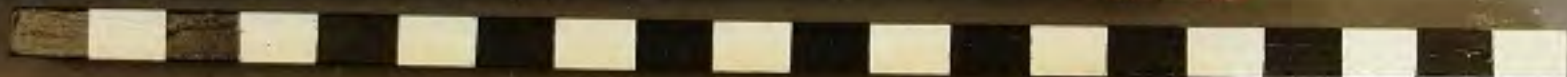
JUPITER ISLAND 1/2010

JI-12

18.0 - 19.5 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI-14

0.0 - 2.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

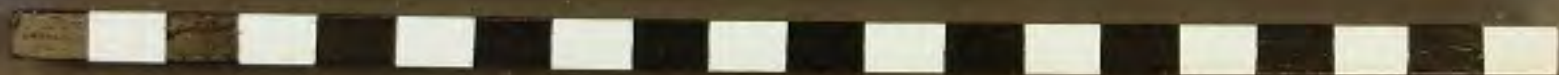
JUPITER ISLAND 1/2010

JI-14

2.0 - 4.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

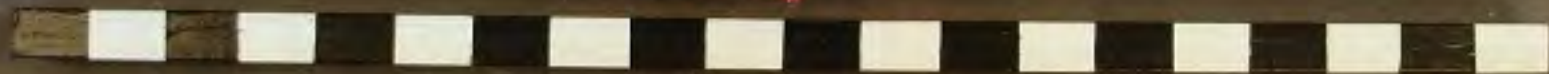
JUPITER ISLAND 1/2010

JI-14

4.0 - 6.0 FEET

TOP

BOTTOM




AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI-14

6.0 - 8.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI-14

8.0 - 10.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

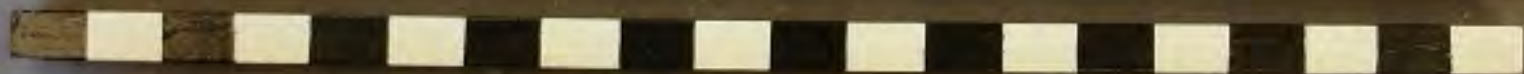
JUPITER ISLAND 1/2010

JI-14

10.0 - 12.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

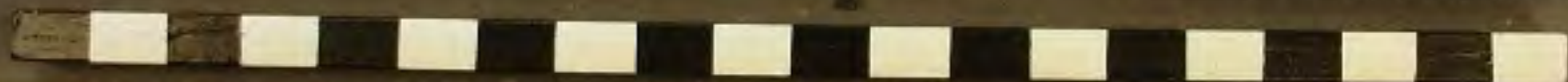
JUPITER ISLAND 1/2010

JI-14

12.0 - 14.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

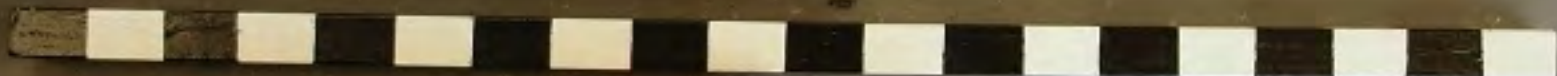
JUPITER ISLAND 1/2010

JI-14

14.0 - 15.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI-15 B

0.0 - 2.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

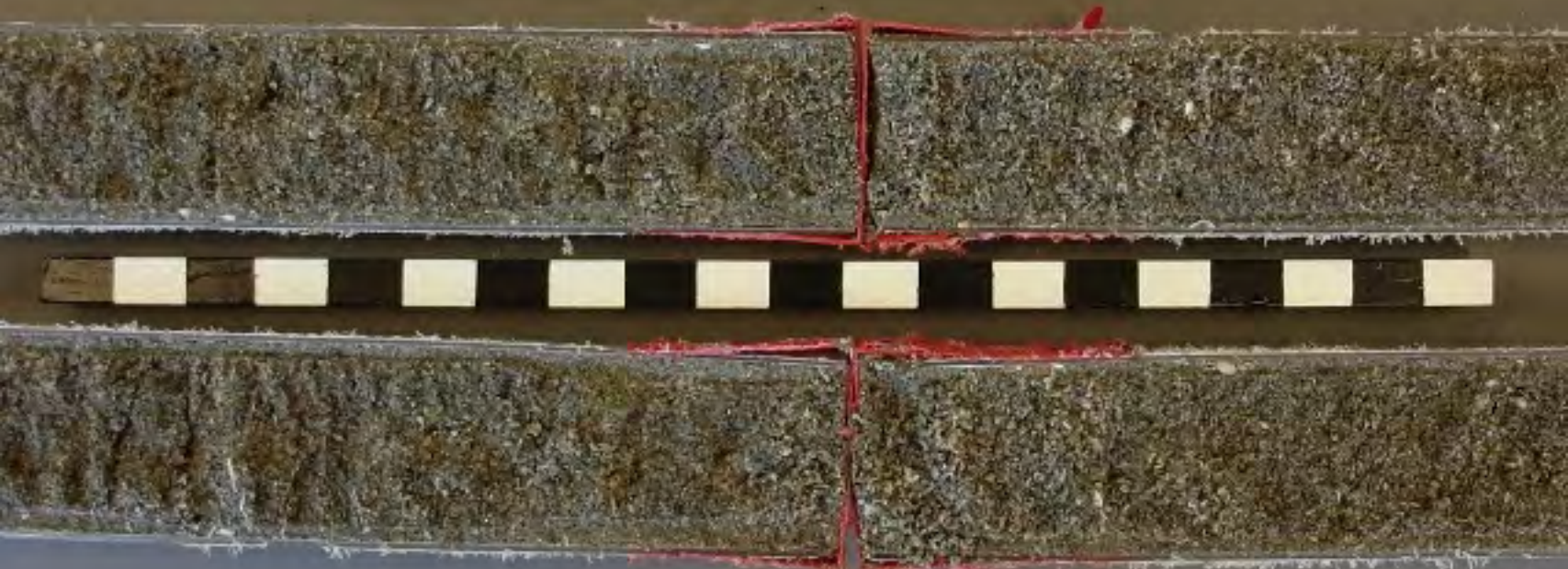
JUPITER ISLAND 1/2010

JI-15 B

2.0 - 4.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI - 15 B

4.0 - 6.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

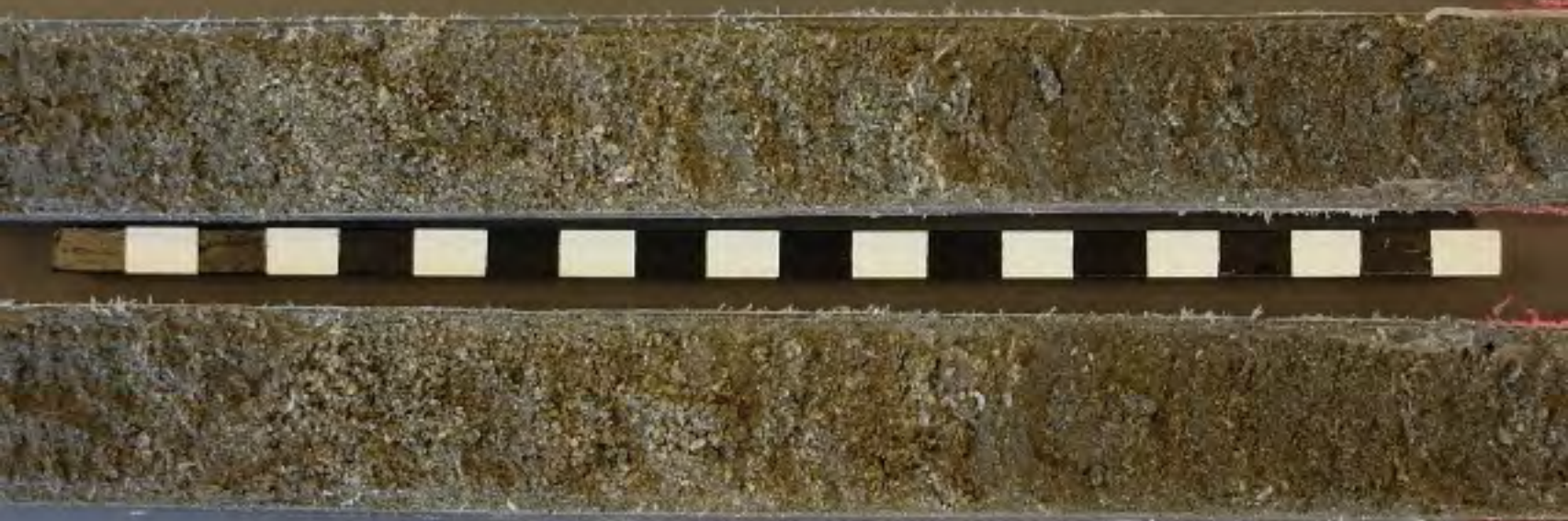
JUPITER ISLAND 1/2010

JI-15 B

6.0 - 8.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

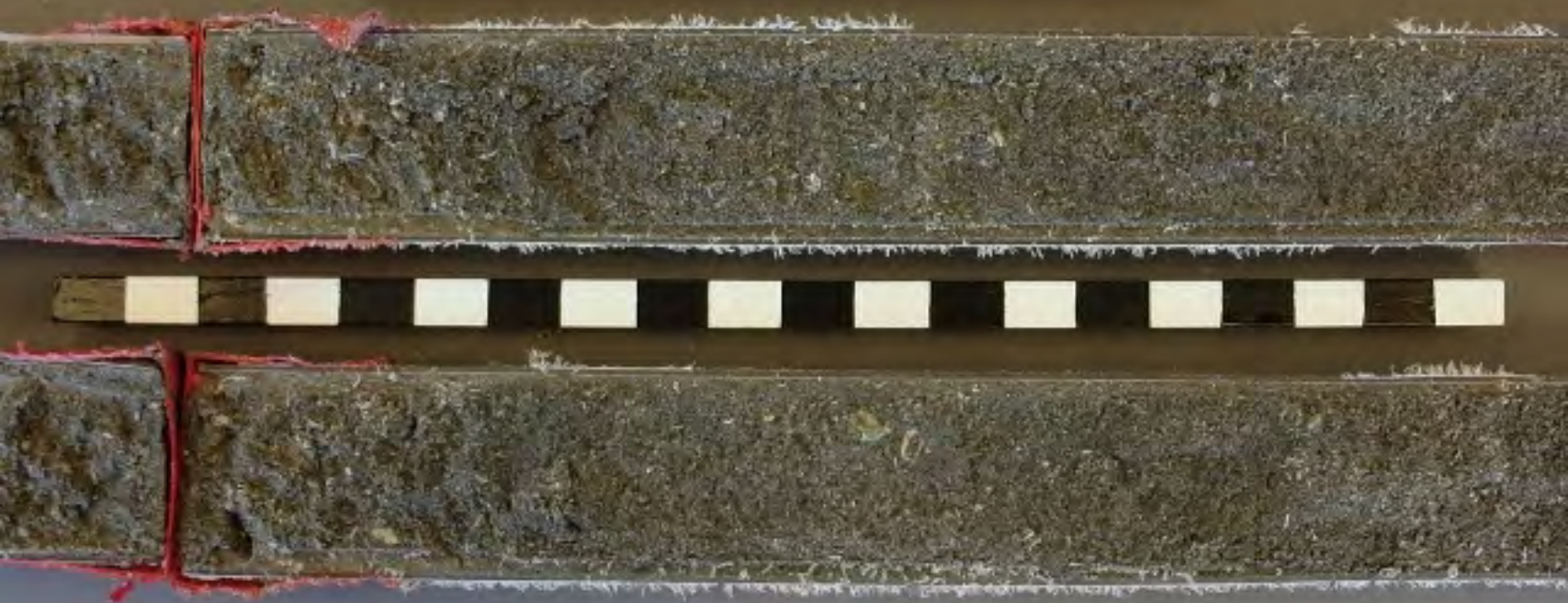
JUPITER ISLAND 1/2010

JI-15 B

8.0 - 10.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

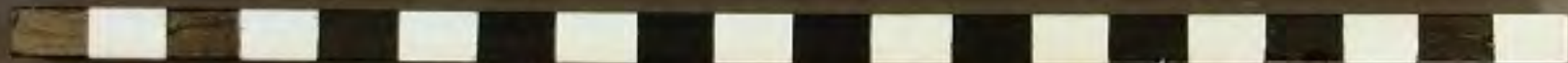
JUPITER ISLAND 1/2010

J1-15 B

10.0 - 12.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

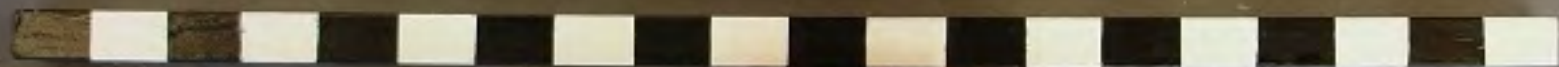
JUPITER ISLAND 1/2010

JI-15 B

12.0 - 13.2 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

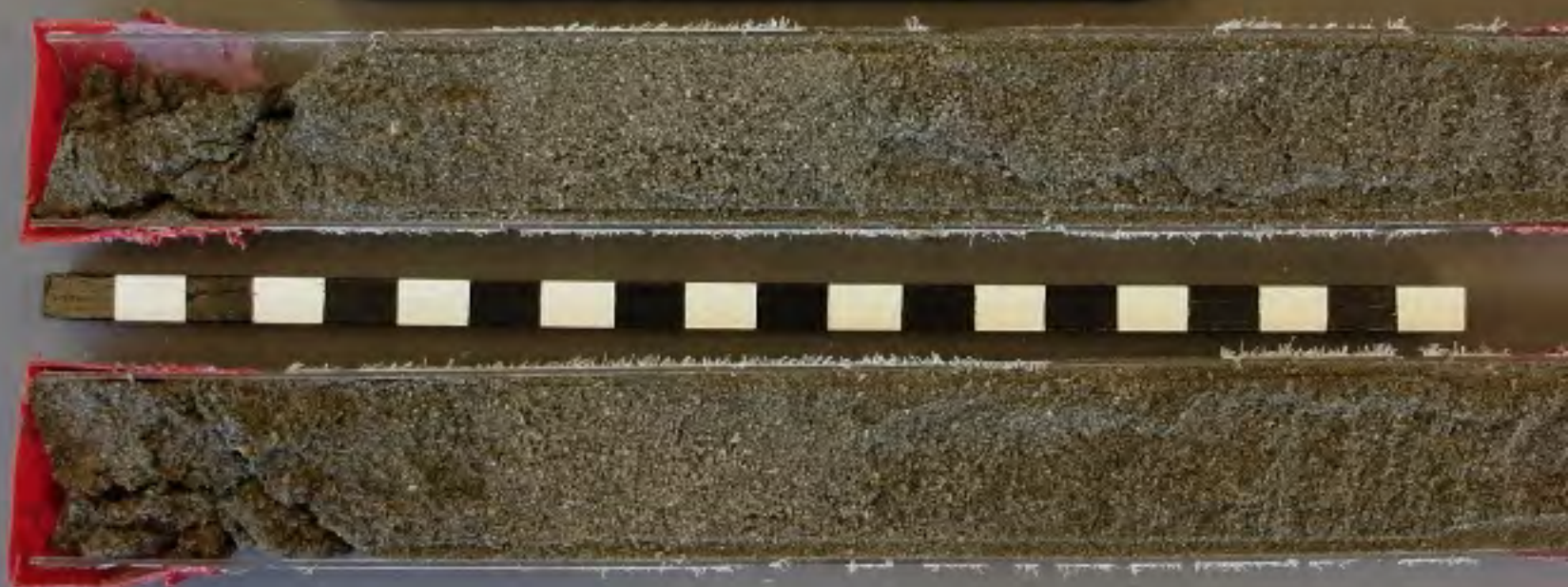
JUPITER ISLAND 1/2010

JI-16

0.0 - 2.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

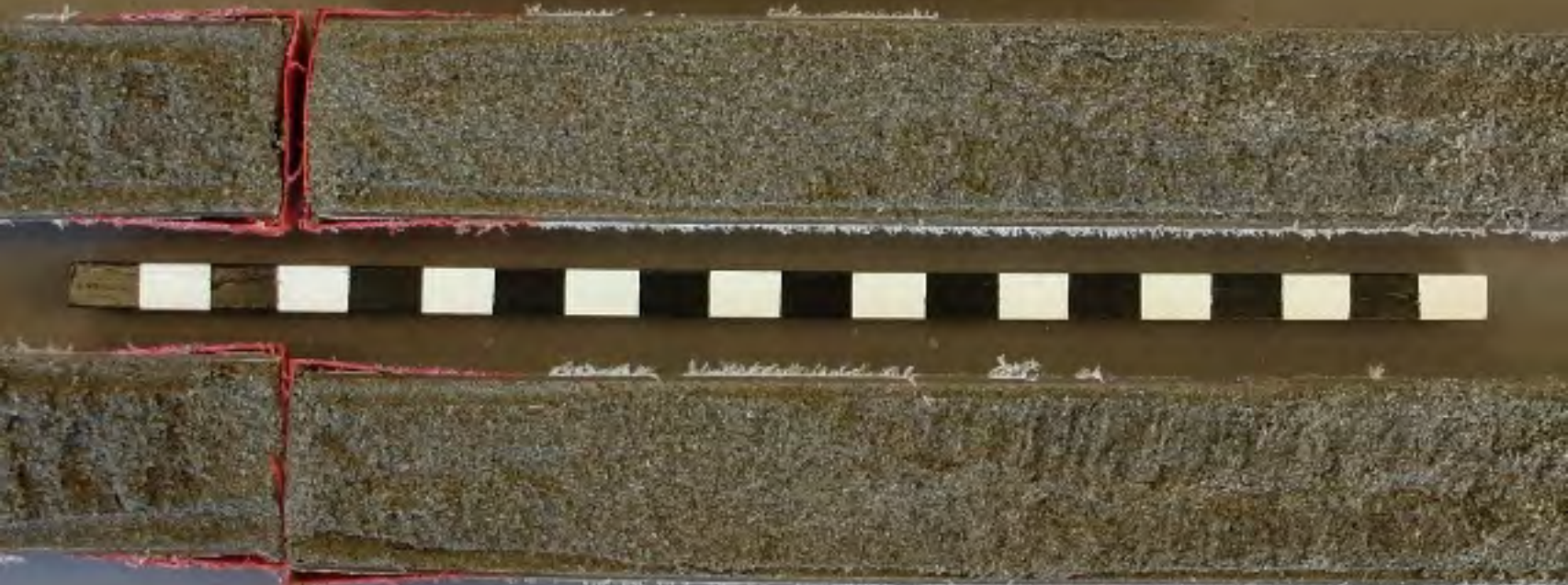
JUPITER ISLAND 1/2010

JI - 16

2.0 - 4.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

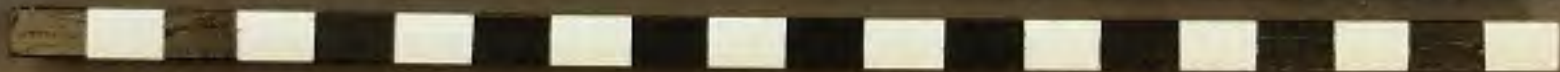
JUPITER ISLAND 1/2010

JI - 16

4.0 - 6.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

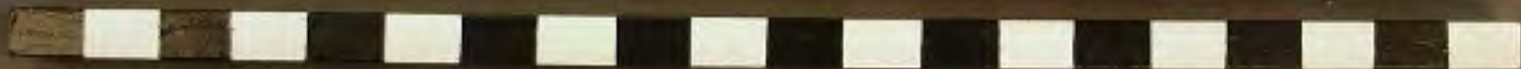
JUPITER ISLAND 1/2010

JI - 16

6.0 - 8.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI - 16

8.0 - 10.0 FEET

TOP

BOTTOM



A/S
AMERICAN VIBRACORE
SERVICES

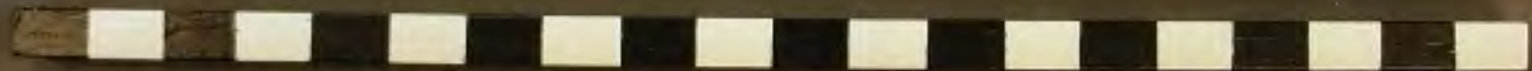
JUPITER ISLAND 1/2010

JI - 16

10.0 - 12.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

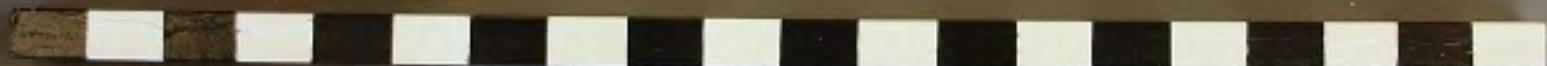
JUPITER ISLAND 1/2010

J1 - 16

12.0 - 12.4 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

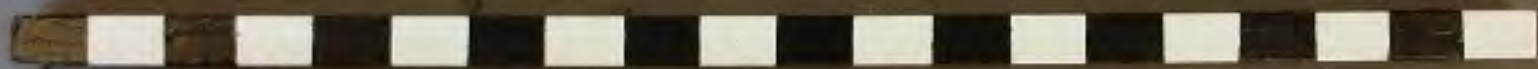
JUPITER ISLAND 1/2010

JI-18

0.0 - 2.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

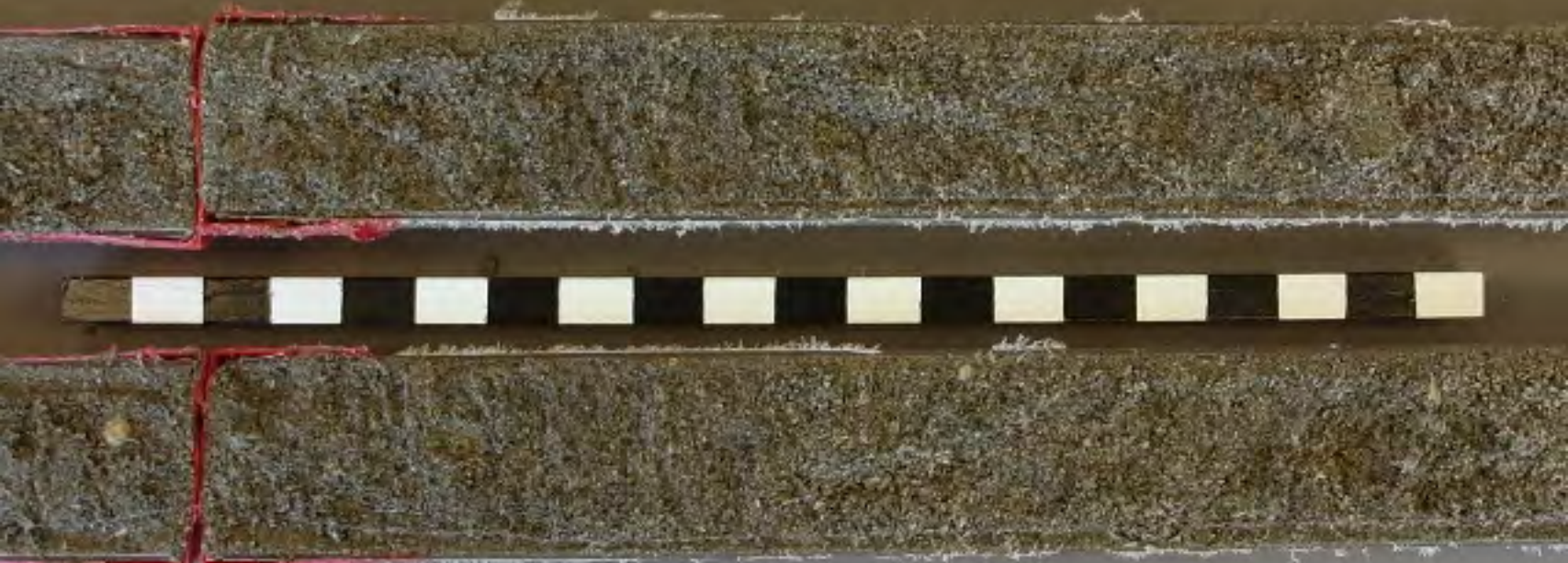
JUPITER ISLAND 1/2010

JI-18

2.0 - 4.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

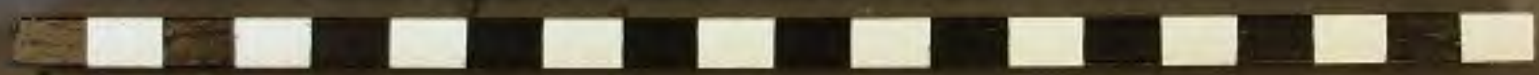
JUPITER ISLAND 1/2010

JI-18

4.0 - 6.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI-18

6.0 - 8.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

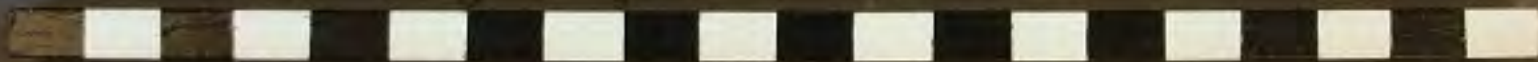
JUPITER ISLAND 1/2010

JI-18

8.0 - 10.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI-18

10.0 - 12.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

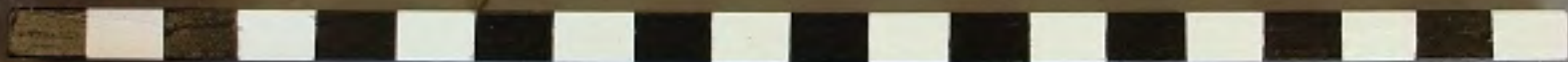
JUPITER ISLAND 1/2010

JI-18

12.0 - 12.2 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

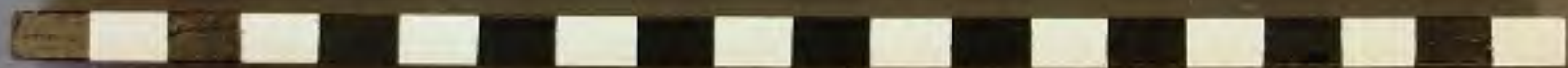
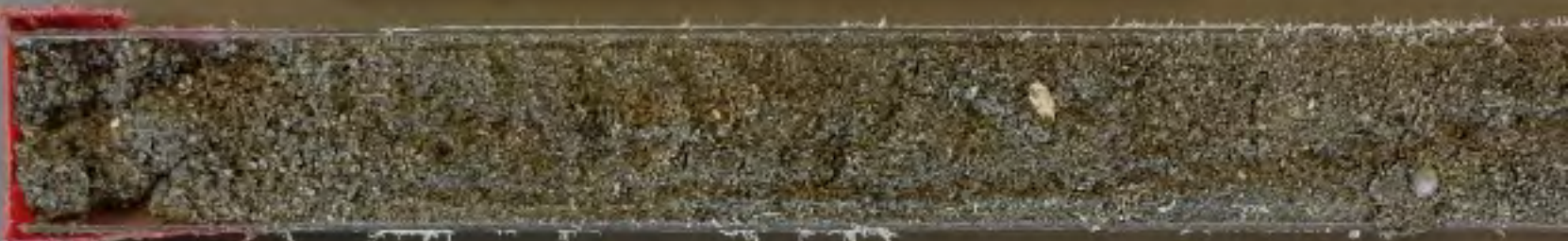
JUPITER ISLAND 1/2010

JI-19

0.0 - 2.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

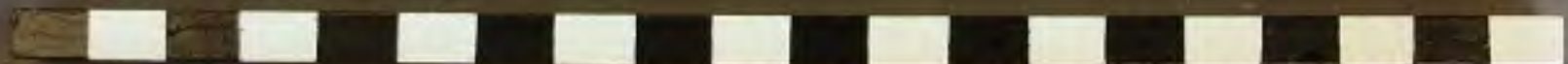
JUPITER ISLAND 1/2010

JI-19

2.0 - 4.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI-19

4.0 - 6.0 FEET

TOP

BOTTOM




AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI-19

6.0 - 8.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

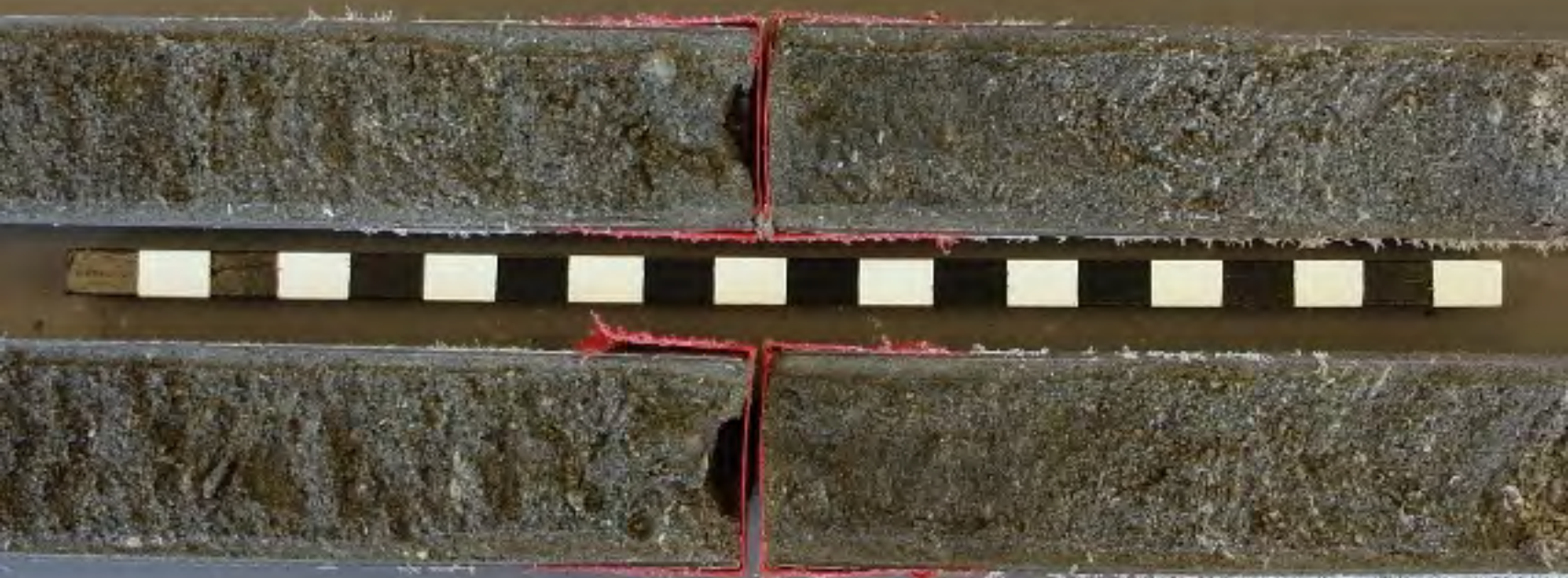
JUPITER ISLAND 1/2010

JI-19

8.0 - 10.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

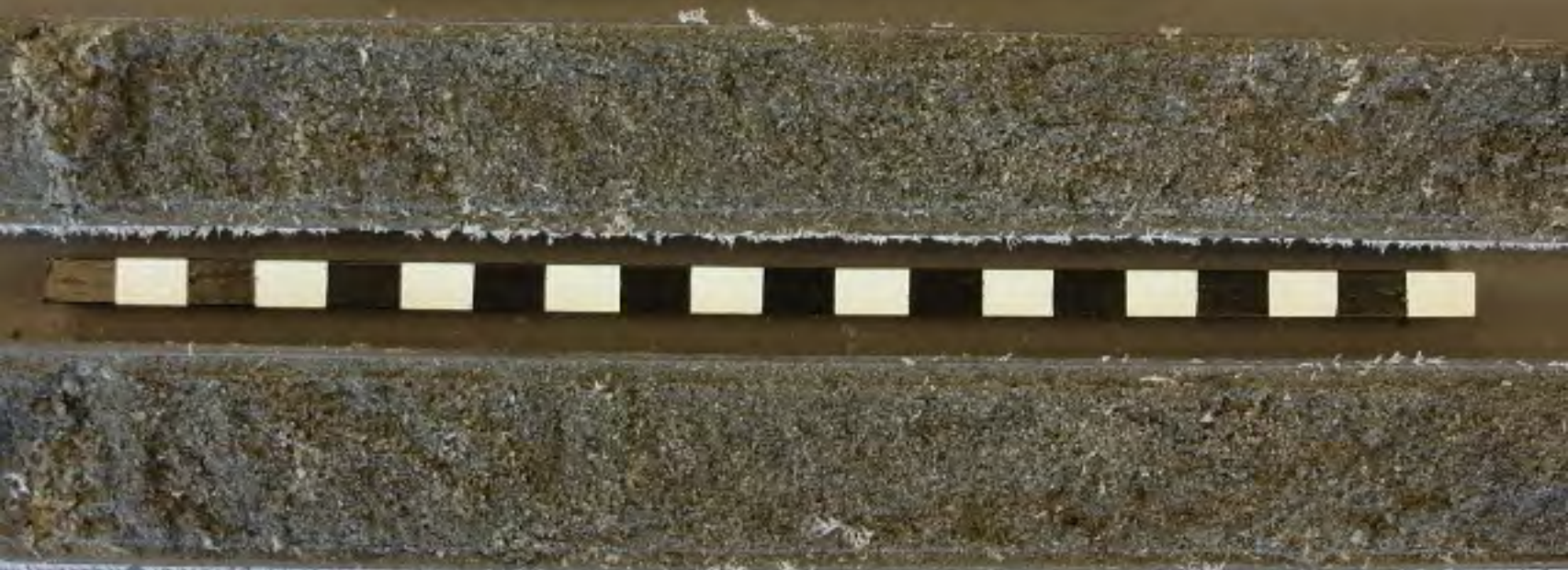
JUPITER ISLAND 1/2010

JI-19

10.0 - 12.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI-19

12.0 - 14.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

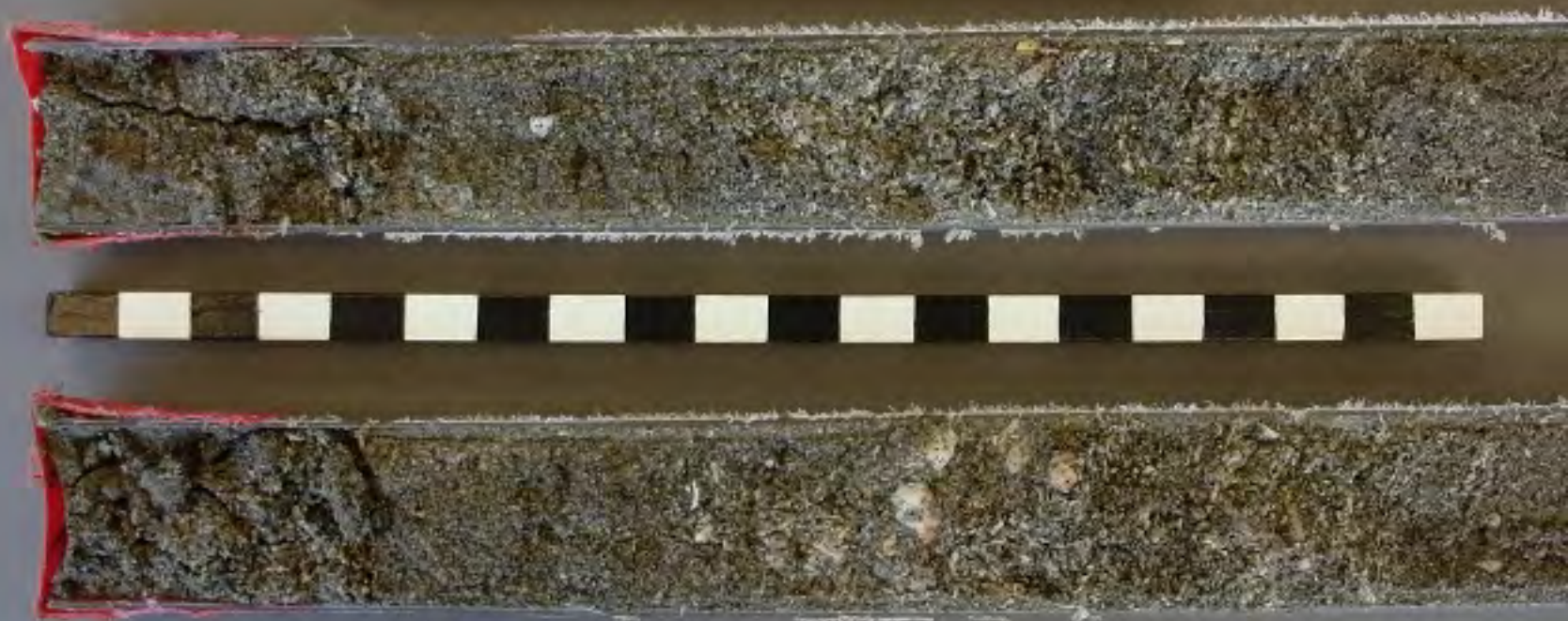
JUPITER ISLAND 1/2010

JI - 21

0.0 - 2.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

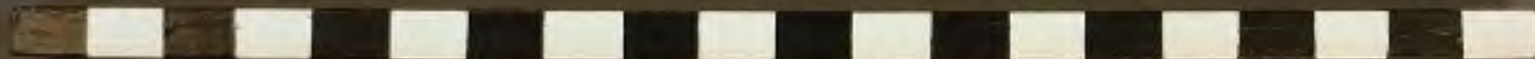
JUPITER ISLAND 1/2010

JI - 21

2.0 - 4.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

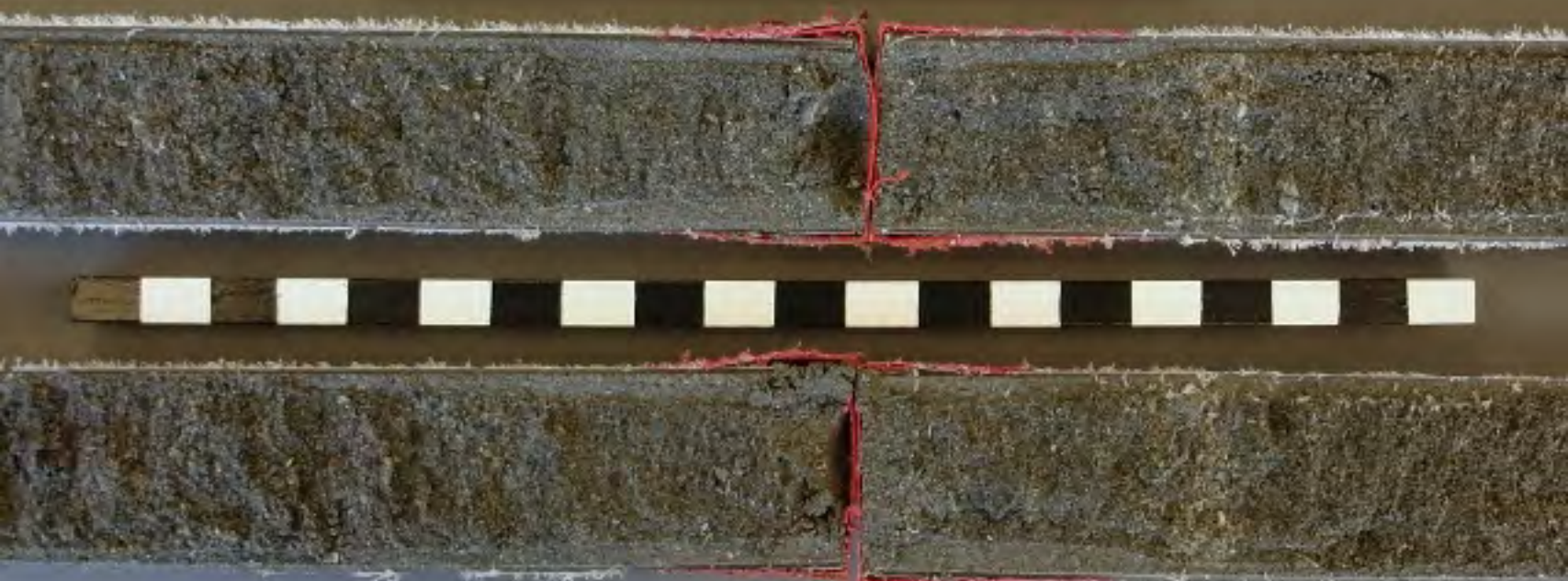
JUPITER ISLAND 1/2010

JI - 21

4.0 - 6.0 FEET

TOP

BOTTOM




AMERICAN VIBRACORE
SERVICES

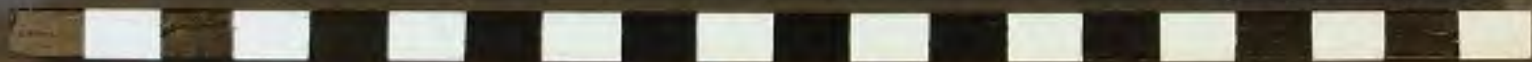
JUPITER ISLAND 1/2010

JI - 21

6.0 - 8.0 FEET

TOP

BOTTOM




AMERICAN VIBRACORE
SERVICES

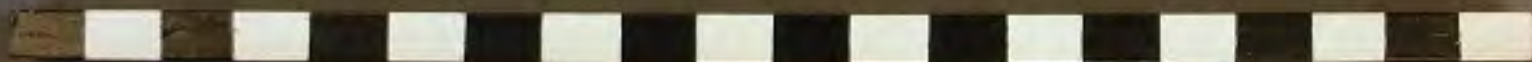
JUPITER ISLAND 1/2010

JI - 21

8.0 - 10.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

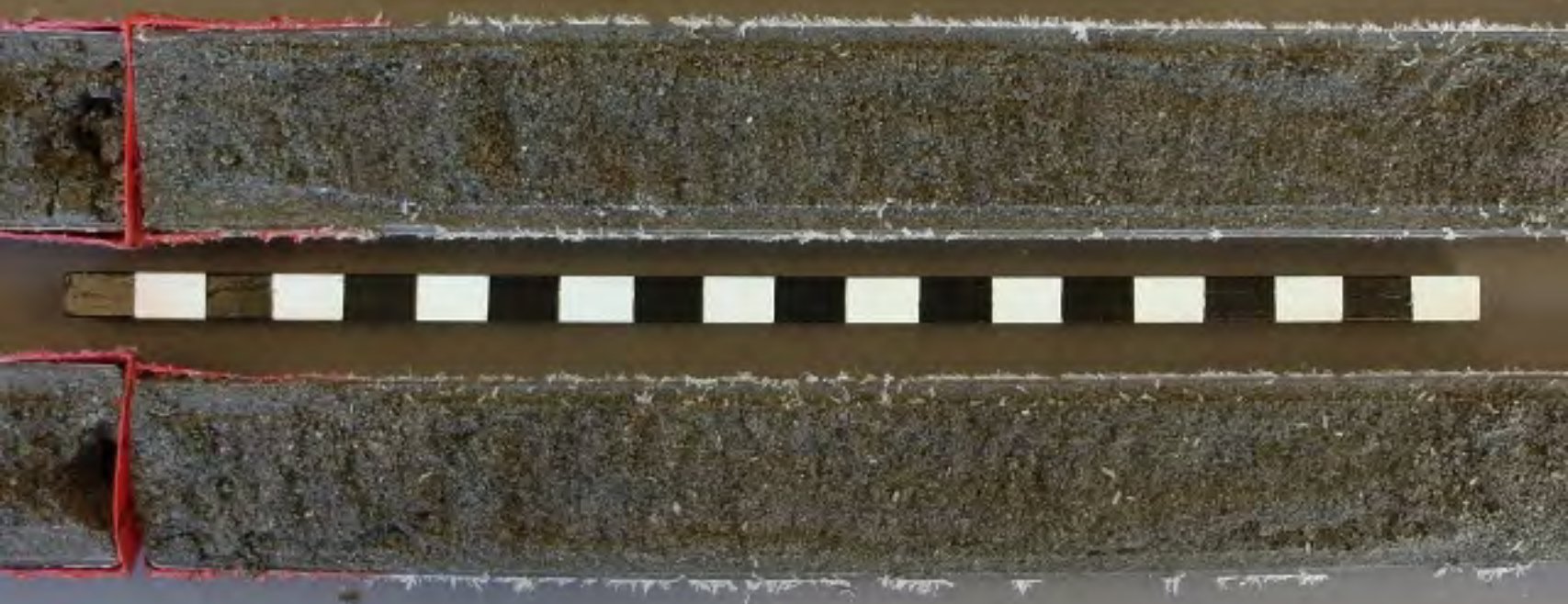
JUPITER ISLAND 1/2010

JI - 21

10.0 - 12.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI - 21

12.0 - 14.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

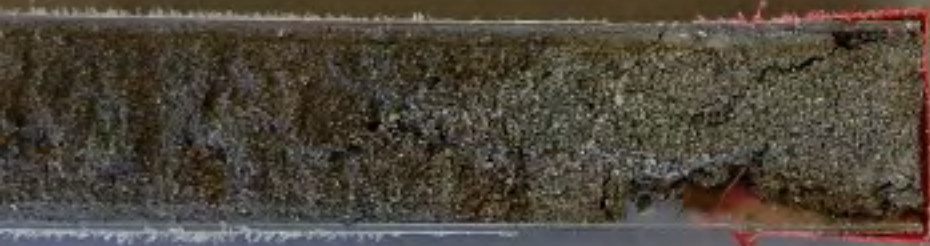
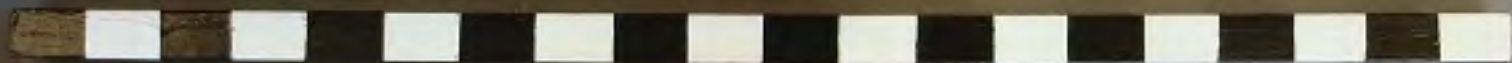
JUPITER ISLAND 1/2010

J1 - 21

14.0 - 15.1 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

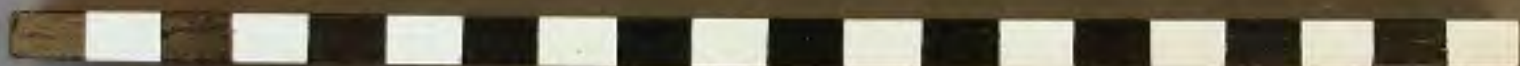
JUPITER ISLAND 1/2010

JI - 24 B

0.0 - 2.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI - 24 B

2.0 - 4.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

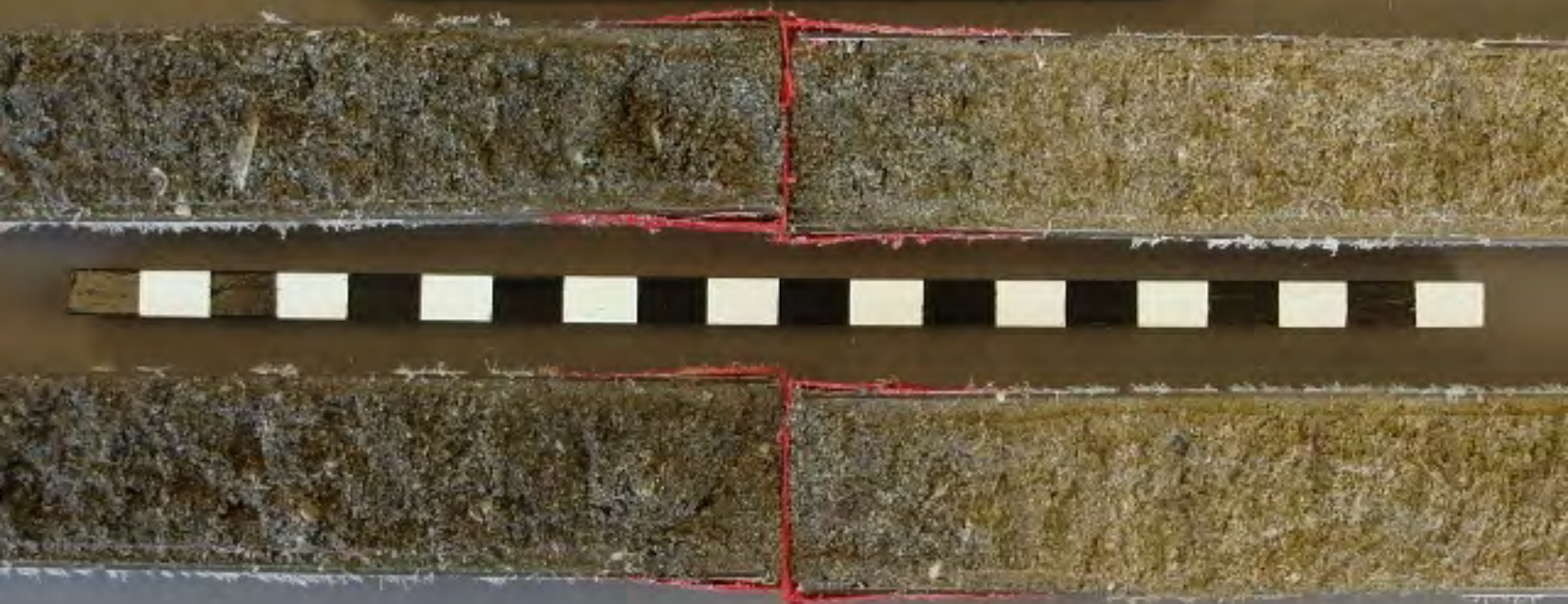
JUPITER ISLAND 1/2010

JI - 24 B

4.0 - 6.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI - 24 B

6.0 - 8.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI - 24 B

8.0 - 10.0 FEET

TOP

BOTTOM




AMERICAN VIBRACORE
SERVICES

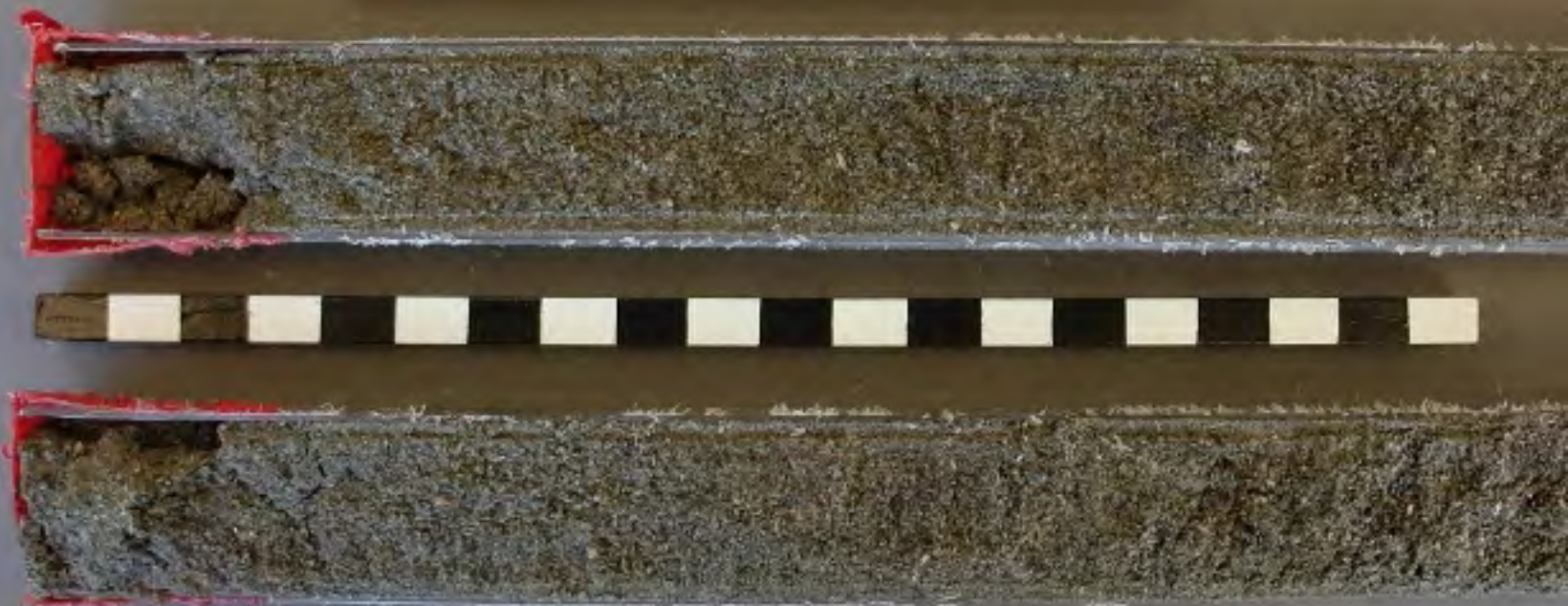
JUPITER ISLAND 1/2010

JI - 25

0.0 - 2.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI - 25

2.0 - 4.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

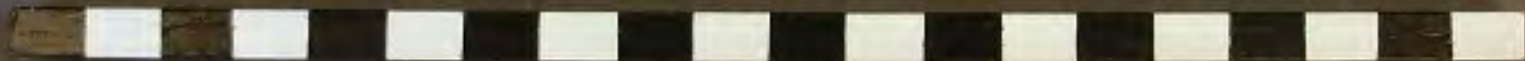
JUPITER ISLAND 1/2010

JI - 25

4.0 - 6.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI - 25

6.0 - 8.0 FEET

TOP

BOTTOM




AMERICAN VIBRACORE
SERVICES

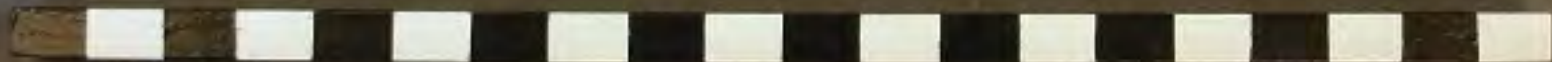
JUPITER ISLAND 1/2010

JI - 25

8.0 - 10.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI - 25

10.0 - 11.4 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

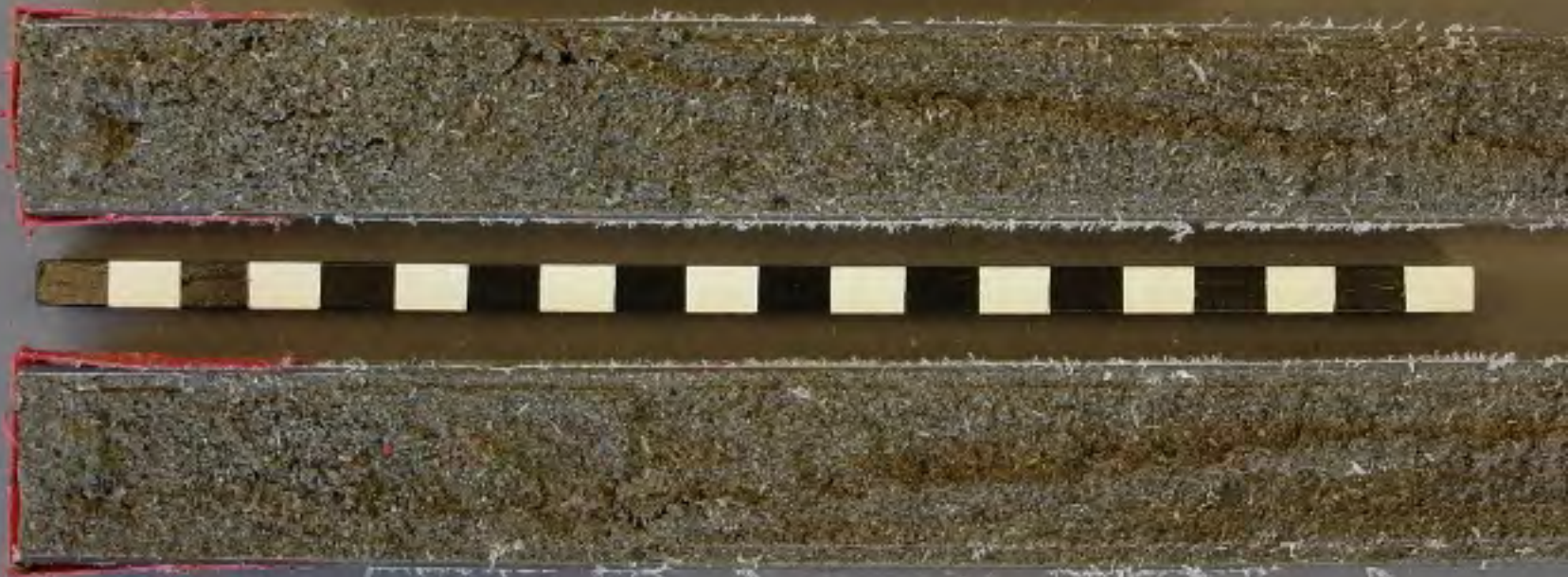
JUPITER ISLAND 1/2010

J1 - 28

0.0 - 2.0 FEET

TOP

BOTTOM




AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI - 28

2.0 - 4.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

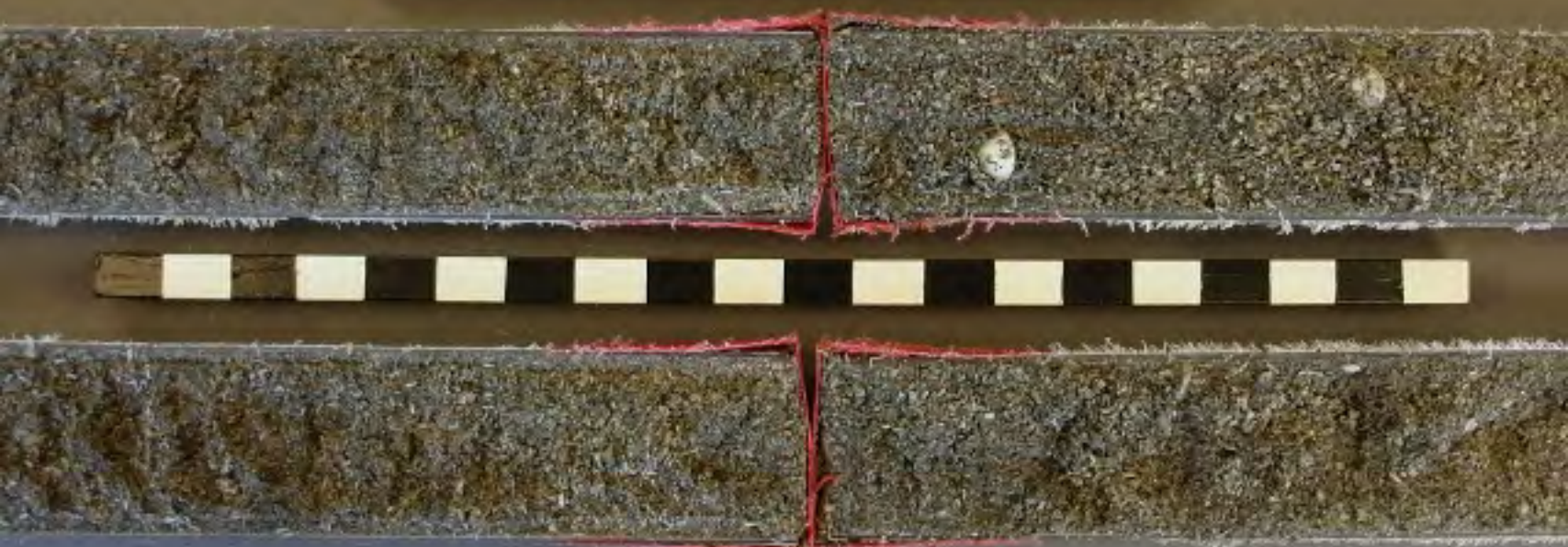
JUPITER ISLAND 1/2010

JI - 28

4.0 - 6.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

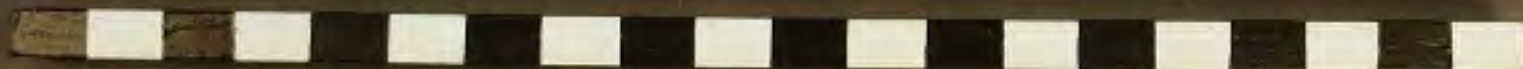
JUPITER ISLAND 1/2010

JI - 28

6.0 - 8.0 FEET

TOP

BOTTOM




AMERICAN VIBRACORE
SERVICES

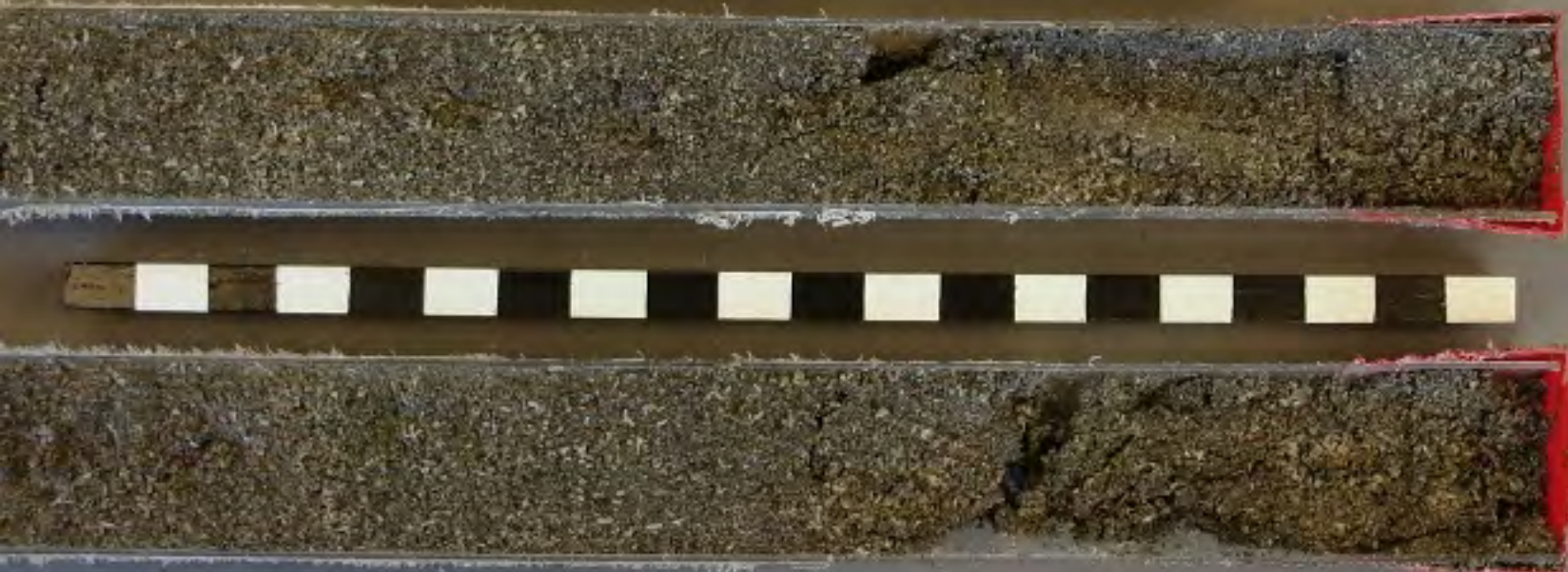
JUPITER ISLAND 1/2010

JI - 28

8.0 - 10.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

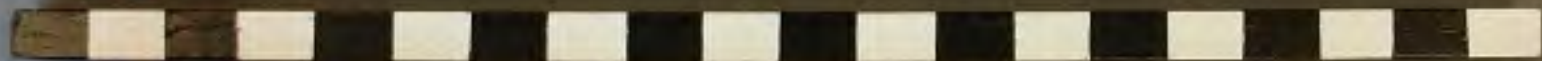
JUPITER ISLAND 1/2010

JI - 33

0.0 - 2.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

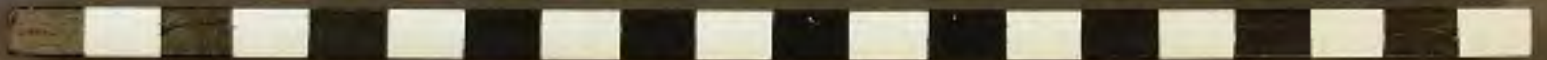
JUPITER ISLAND 1/2010

JI - 33

2.0 - 4.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI - 33

4.0 - 6.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI - 33

6.0 - 8.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI - 33

8.0 - 10.0 FEET

TOP

BOTTOM



AVS
AMERICAN VIBRACORE
SERVICES

JUPITER ISLAND 1/2010

JI - 33

10.0 - 10.7 FEET

TOP

BOTTOM

