

## Boring Designation VB-MCSP07-32

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Jacksonville District		SHEET 1 OF 2 SHEETS			
1. PROJECT MARTIN COUNTY OFFSHORE INVESTIGATIONS Offshore Borrow Area				9. SIZE AND TYPE OF BIT See Remarks					
2. BORING DESIGNATION VB-MCSP07-32		LOCATION COORDINATES X = 949,396 Y = 1,080,234		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83			
3. DRILLING AGENCY Challenge Engineering & Testing, Inc.		CONTRACTOR FILE NO. 2007D32		11. MANUFACTURER'S DESIGNATION OF DRILL Alpine Vibracore Unit		<input checked="" type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER			
4. NAME OF DRILLER Alpine Ocean Seismic, Inc.				12. TOTAL SAMPLES 4		DISTURBED 0			
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED				13. TOTAL NUMBER CORE BOXES 1		14. ELEVATION GROUND WATER Tidal			
6. THICKNESS OF OVERBURDEN N/A				15. DATE BORING 08-10-07		STARTED 08-10-07			
7. DEPTH DRILLED INTO ROCK N/A				16. ELEVATION TOP OF BORING -55.8 Ft.		COMPLETED 08-10-07			
8. TOTAL DEPTH OF BORING 20.0 Ft.				17. TOTAL RECOVERY FOR BORING 93 %		18. SIGNATURE AND TITLE OF INSPECTOR Eric Guarino, Geologist			
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UP	REMARKS	BLOWS/1 FT.	N-VALUE
-55.8	0.0						-55.8		
-57.5	1.7		SHELL, mostly angular shell up to 1/4", some subangular fine to medium-grained sand-sized quartz, trace angular fine to medium-grained sand-sized organic matter, weak reaction with HCl, moist, 10YR 7/2 light gray	930			Vibracore		
			SAND, poorly-graded, mostly subangular fine to medium-grained sand-sized carbonate, some angular shell up to 3/8", strong reaction with HCl, moist, 10YR 6/2 light brownish gray (SP)	NR	1		-57.8		
				NR			-58.3		
				NR			-60.8		
				NR	2		-61.3		
				NR			-62.8		
				NR	3		-63.3		
-63.5	7.7		SAND, poorly-graded with silt, mostly subrounded fine-grained sand-sized carbonate, little angular shell up to 1", strong reaction with HCl, moist, 10YR 5/1 gray (SP-SM)	NR			-64.8		
				NR	4		-65.3		
				NR					
-69.7	13.9		SAND, poorly-graded with silt, mostly subangular fine to medium-grained sand-sized quartz, little angular shell up to						

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																		
PROJECT MARTIN COUNTY OFFSHORE INVESTIGATIONS			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL MLLW																		
LOCATION COORDINATES X = 949,396 Y = 1,080,234			ELEVATION TOP OF BORING -55.8 Ft.																					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD COR D	REMARKS	BLOWS/ 1 FT.	N-VALUE															
-74.4	18.6	NR	1/2", weak reaction with HCl, moist, 10YR 6/1 gray (SP-SM)	NR																				
-75.8	20.0						-75.8																	
			<p>NOTES:</p> <p>1. Soils are field visually classified in accordance with the Unified Soils Classification System.</p> <p>2. Laboratory Testing Results</p> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.0/2.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>5.0/5.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>7.0/7.5</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>9.0/9.5</td> <td>SP-SM*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve. No Atterberg limits.</p>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.5	SP*	2	5.0/5.5	SP*	3	7.0/7.5	SP*	4	9.0/9.5	SP-SM*				<p>Abbreviations: NR = Not Recorded.</p>		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																						
1	2.0/2.5	SP*																						
2	5.0/5.5	SP*																						
3	7.0/7.5	SP*																						
4	9.0/9.5	SP-SM*																						

## Penetration Graph for Core No. VB-MCSP07-32, Run 1

Date: 8/9/2007  
Start Time: 3:45:25 PM  
End Time: 3:48:35 PM

Penetration: 19.47 ft  
Recovery: 18.6  
W. D. Corrected: 55.8  
W. D. Raw: 57

Easting: 949396  
Northing: 1080234  
Coord. System: FL East

Lat: 27d 18.5333' N  
Long: 80d 5.8184' W  
Datum: NAD-83

Comment:

