

Boring Designation VB-MCSP07-15

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-MCSP07-15		LOCATION COORDINATES X = 947,561 Y = 1,045,439		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 -49.7 Ft.		17. TOTAL RECOVERY FOR BORING 95 %	
8. TOTAL DEPTH OF BORING 20.0 Ft.				18. SIGNATURE AND TITLE OF INSPECTOR Eric Guarino, Geologist			

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-49.7	0.0						-49.7		
			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	630			Vibracore		
				NR	1		-52.7		
							-53.2		
				NR					
							-55.7		
				NR	2		-56.2		
-57.4	7.7			NR					
			SAND, poorly-graded, some subangular fine to medium-grained sand-sized quartz, some angular shell up to 1/4", weak reaction with HCl, moist, 10YR 5/1 gray (SP)				-58.7		
				NR	3		-59.2		
			At El. -60.4 Ft., little angular fine to medium-grained sand-sized shell up to 1/4", strong reaction with HCl, moist, 10YR 5/1 gray	NR			-61.7		
-62.1	12.4			NR	4		-62.2		
			SAND, silty, mostly rounded silt, some angular shell up to 1-1/2", strong reaction with HCl, moist, 10YR 5/1 gray (SM)	NR					

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 = 947,561 Y = 1,045,439			ELEVATION TOP OF BORING -49.7 Ft.																					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE															
-66.8	17.1	NR	SAND, silty, mostly subangular fine to medium-grained sand-sized carbonate, some angular shell up to 1/4", strong reaction with HCl, moist, 10YR 5/1 gray (SM)	NR																				
-68.6	18.9																							
-69.7	20.0																							
			NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System. 2. Laboratory Testing Results <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>3.0/3.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>6.0/6.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>9.0/9.5</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>12.0/12.5</td> <td>SM*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve. No Atterberg limits.	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.0/3.5	SP*	2	6.0/6.5	SP*	3	9.0/9.5	SP*	4	12.0/12.5	SM*				Abbreviations: NR = Not Recorded.		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																						
1	3.0/3.5	SP*																						
2	6.0/6.5	SP*																						
3	9.0/9.5	SP*																						
4	12.0/12.5	SM*																						

Penetration Graph for Core No. VB-MCSP07-15, Run 1

Date: 8/9/2007
Start Time: 9:21:36 AM
End Time: 9:24:23 AM

Penetration: 19.57 ft
Recovery: 18.9
W. D. Corrected: 49.7
W. D. Raw: 51.5

Easting: 947561
Northing: 1075439
Coord. System: FL East

Lat: 27d 17.3675' N
Long: 80d 6.1665' W
Datum: NAD-83

Comment:

