

Boring Designation VB-MCSP07-40

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-MCSP07-40		LOCATION COORDINATES X = 952,378 Y = 1,081,811		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 08-11-07		STARTED 08-11-07	
7. DEPTH DRILLED INTO ROCK N/A				16. ELEVATION TOP OF BORING -54.8 Ft.		COMPLETED 08-11-07	
8. TOTAL DEPTH OF BORING 20.0 Ft.				17. TOTAL RECOVERY FOR BORING 94 %		18. SIGNATURE AND TITLE OF INSPECTOR Eric Guarino, Geologist	
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UP	REMARKS
-54.8	0.0						-54.8
			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	623			Vibracore
-57.9	3.1			NR	1		-57.8
			SAND, poorly-graded, 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 (SP)	NR			-58.3
				NR			-60.8
				NR	2		-61.3
				NR			-63.8
				NR	3		-64.3
			At El. -63.7 Ft., mostly subangular fine-grained sand-sized carbonate, some angular shell up to 1/4", strong reaction with HCl, moist, 10YR 4/1 dark gray	NR			-67.8
-67.8	13.0			NR	4		-68.3
			SAND, poorly-graded with silt, mostly subangular fine-grained sand-sized carbonate, some angular shell up to 1/4", strong reaction with HCl, moist, 10YR 4/1 dark gray (SP-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 = 952,378 Y = 1,081,811			ELEVATION TOP OF BORING -54.8 Ft.																					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD COR D	REMARKS	BLOWS/ 1 FT.	N-VALUE															
-70.3	15.5	NR	SAND, silty, mostly rounded fine-grained sand-sized carbonate, some angular shell up to 2", weak reaction with HCl, moist, 10YR 5/1 gray (SM)	NR																				
-73.5	18.7		At El. -71.8 Ft., little angular shell up to 1/4", strong reaction with HCl, moist, 10YR 4/1 dark gray																					
-74.8	20.0																							
			<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>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>13.0/13.5</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	3.0/3.5	SP*	2	6.0/6.5	SP*	3	9.0/9.5	SP*	4	13.0/13.5	SP-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	13.0/13.5	SP-SM*																						

Penetration Graph for Core No. VB-MCSP07-40, Run 1

Date: 8/11/2007
Start Time: 3:02:14 PM
End Time: 3:05:13 PM

Penetration: 19.85
Recovery: 18.7
W. D. Corrected: 54.8
W. D. Raw: 55.1

Easting: 952378
Northing: 1081811
Coord. System: FL East

Lat: 27d 18.4105' N
Long: 80d 5.2665' W
Datum: NAD-83

Comment:

