

Boring Designation VB-MCSP07-13

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-MCSP07-13		LOCATION COORDINATES X = 947,636 Y = 1,074,498		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		UNDISTURBED (UD) 0	
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		DEG. FROM VERTICAL		13. TOTAL NUMBER CORE BOXES 1		14. ELEVATION GROUND WATER Tidal	
6. THICKNESS OF OVERBURDEN N/A				15. DATE BORING 08-09-07		COMPLETED 08-09-07	
7. DEPTH DRILLED INTO ROCK N/A				16. ELEVATION TOP OF BORING -48.8 Ft.		17. TOTAL RECOVERY FOR BORING 100 %	
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 UP	REMARKS	BLOWS/1 FT.	N-VALUE
-48.8	0.0						-48.8		
			SHELL, mostly angular fine to medium-grained sand-sized shell up to 1/4", some subangular fine to medium-grained sand-sized quartz, weak reaction with HCl, moist, 10YR 7/2 light gray	667			Vibracore		
				NR	1		-51.8		
							-52.3		
				NR					
							-54.8		
				NR	2		-55.3		
-56.0	7.2		SAND, poorly-graded, mostly subangular fine to medium-grained sand-sized quartz, some angular shell up to 1/4", weak reaction with HCl, moist, 10YR 4/2 dark grayish brown (SP)						
				NR					
-58.5	9.7		SAND, poorly-graded, mostly subangular fine to medium-grained sand-sized carbonate, some angular shell up to 3/8", weak reaction with HCl, moist, 10YR 5/2 grayish brown (SP)						
				NR	3		-60.8		
							-61.3		
				NR					
				NR	4		-62.8		
				NR			-63.3		

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 = 947,636 Y = 1,074,498			ELEVATION TOP OF BORING -48.8 Ft.																					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD COR D	REMARKS	BLOWS/ 1 FT.	N-VALUE															
-64.1	15.3		SAND, silty, mostly subangular fine to medium-grained sand-sized quartz, little angular shell up to 1/4", strong reaction with HCl, moist, 10YR 4/1 dark gray (SM)	NR																				
-65.3	16.5		SHELL, mostly angular shell up to 1-1/2", little subangular fine to medium-grained sand-sized quartz, weak reaction with HCl, moist, 10YR 4/1 dark gray																					
-66.5	17.7		SILT, organic-H, mostly subrounded silt, little angular shell up to 1-1/2", weak reaction with HCl, moist, 10YR 5/1 gray (OH)																					
-68.8	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>12.0/12.5</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>14.0/14.5</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	12.0/12.5	SP*	4	14.0/14.5	SM*				Abbreviations: NR = Not Recorded.		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																						
1	3.0/3.5	SP*																						
2	6.0/6.5	SP*																						
3	12.0/12.5	SP*																						
4	14.0/14.5	SM*																						

Penetration Graph for Core No. VB-MCSP07-13, Run 1

Date: 8/9/2007
Start Time: 4:36:27 PM
End Time: 4:39:50 PM

Penetration: 19.80 ft
Recovery: 20
W. D. Corrected: 48.8
W. D. Raw: 50.5

Easting: 947636
Northing: 1074498
Coord. System: FL East

Lat: 27d 17.2103' N
Long: 80d 6.1498' W
Datum: NAD-83

Comment:

