







Boring Designation VB-MCSP07-25

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-MCSP07-25		LOCATION COORDINATES X = 952,115 Y = 1,078,345		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83			
				VERTICAL MLLW					
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		DEG. FROM VERTICAL		BEARING		13. TOTAL NUMBER CORE BOXES 1			
6. THICKNESS OF OVERBURDEN N/A				14. ELEVATION GROUND WATER Tidal					
7. DEPTH DRILLED INTO ROCK N/A				15. DATE BORING 08-11-07		STARTED 08-11-07			
8. TOTAL DEPTH OF BORING 20.0 Ft.				16. ELEVATION TOP OF BORING -54.2 Ft.		COMPLETED 08-11-07			
				17. TOTAL RECOVERY FOR BORING 99 %					
				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
-54.2	0.0		SAND, poorly-graded, mostly subangular fine to medium-grained sand-sized quartz, some angular shell up to 1/4", trace angular fine to medium-grained sand-sized organic matter, weak reaction with HCl, moist, 10YR 7/2 light gray (SP)	657			-54.2		
				NR	1		-57.2		
							-57.7		
				NR					
							-60.2		
				NR	2		-60.7		
							-62.2		
				NR	3		-62.7		
							-64.2		
				NR	4		-64.7		
-64.5	10.3		SAND, poorly-graded, mostly subrounded fine-grained sand-sized carbonate, some angular shell up to 1/4", strong reaction with HCl, moist, 10YR 5/1 gray (SP)						
				NR					
-68.6	14.4		SHELL, mostly angular shell up to 2", some subrounded fine-grained sand-sized silt.						

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 = 952,115 Y = 1,078,345				ELEVATION TOP OF BORING -54.2 Ft.																				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UP	REMARKS	BLOWS/ 1 FT.	N-VALUE															
-70.8	16.6	  	trace fine-grained sand-sized quartz, weak reaction with HCl, moist, 10YR 5/1 gray	NR																				
-73.9	19.7	  	SAND, silty, mostly subangular fine to medium-grained sand-sized quartz, little angular shell up to 1/4", weak reaction with HCl, moist, 10YR 4/1 dark gray (SM)																					
-74.2	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>8.0/8.5</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>10.0/10.5</td> <td>SP*</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	8.0/8.5	SP*	4	10.0/10.5	SP*				Abbreviations: NR = Not Recorded.		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																						
1	3.0/3.5	SP*																						
2	6.0/6.5	SP*																						
3	8.0/8.5	SP*																						
4	10.0/10.5	SP*																						

Penetration Graph for Core No. VB-MCSP07-25, Run 1

Date: 8/11/2007
Start Time: 11:38:04 AM
End Time: 11:41:23 AM

Penetration: 19.79 ft
Recovery: 19.7
W. D. Corrected: 54.2
W. D. Raw: 54.8

Easting: 952115
Northing: 1078345
Coord. System: FL East

Lat: 27d 17.8397' N
Long: 80d 5.3200' W
Datum: NAD-83

Comment:

