



Boring Designation VB-MCSP07-24

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-MCSP07-24		LOCATION COORDINATES X = 951,783 Y = 1,077,502		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 -53.0 Ft.		COMPLETED 08-10-07	
8. TOTAL DEPTH OF BORING 20.0 Ft.				17. TOTAL RECOVERY FOR BORING Not Recorded		18. SIGNATURE AND TITLE OF INSPECTOR Eric Guarino, Geologist	
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR CD	REMARKS
-53.0	0.0						-53.0
			SHELL, mostly angular shell up to 1-1/2", some subangular fine to medium-grained sand-sized carbonate, trace angular fine to medium-grained sand-sized organic matter, strong reaction with HCl, moist, 10YR 7/2 light gray	19			Vibracore
				NR	1		-55.0
							-55.5
				NR			
							-57.0
				NR	2		-57.5
				NR			-59.0
-59.7	6.7			NR	3		-59.5
			SAND, poorly-graded, mostly subangular fine to medium-grained sand-sized quartz, some angular shell up to 1/2", weak reaction with HCl, moist, 10R 4/3 weak red (SP)	NR			
-61.3	8.3						-61.0
			SAND, poorly-graded, mostly subangular fine to medium-grained sand-sized carbonate, strong reaction with HCl, moist, 10YR 4/1 dark gray (SP)	NR	4		-61.5
			At El. -63.5 Ft., little angular coarse-grained sand-sized shell up to 1/8", strong reaction with HCl, moist, 10YR 5/1 gray	NR			
-67.0	14.0						
			SHELL, mostly angular coral up to 1/4", some subangular fine to medium-grained sand-sized carbonate, strong reaction with				

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 = 951,783 Y = 1,077,502			ELEVATION TOP OF BORING -53.0 Ft.																				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD UP D	REMARKS	BLOWS/ 1 FT.	N-VALUE														
-70.1	17.1		HCl, moist, 10YR 5/1 gray	NR																			
-73.0	20.0		SAND, silty, mostly subangular fine to medium-grained sand-sized carbonate, little angular shell up to 1/4", strong reaction with HCl, moist, 10YR 5/1 gray (SM)																				
		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>2.0/2.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>4.0/4.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>6.0/6.5</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>8.0/8.5</td> <td>SP*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve. No Atterberg limits.			SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.5	SP*	2	4.0/4.5	SP*	3	6.0/6.5	SP*	4	8.0/8.5	SP*			Abbreviations: NR = Not Recorded.	
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																					
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2	4.0/4.5	SP*																					
3	6.0/6.5	SP*																					
4	8.0/8.5	SP*																					

Penetration Graph for Core No. VB-MCSP07-24, Run 1

Date: 8/9/2007
Start Time: 3:01:28 PM
End Time: 3:06:19 PM

Penetration: 19.75 ft
Recovery: 19
W. D. Corrected: 53
W. D. Raw: 54.2

Easting: 951783
Northing: 1077502
Coord. System: FL East

Lat: 27d 17.7028' N
Long: 80d 5.3819' W
Datum: NAD-83

Comment:

