

## Boring Designation VB-MCSP07-8

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Jacksonville District		SHEET 1 OF 2 SHEETS			
<b>1. PROJECT</b> MARTIN COUNTY OFFSHORE INVESTIGATIONS Offshore Borrow Area				<b>9. SIZE AND TYPE OF BIT</b> See Remarks					
<b>2. BORING DESIGNATION</b> VB-MCSP07-8		<b>LOCATION COORDINATES</b> X = 948,270 Y = 1,073,941		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		<b>HORIZONTAL</b> NAD83	<b>VERTICAL</b> MLLW		
<b>3. DRILLING AGENCY</b> Challenge Engineering & Testing, Inc.		<b>CONTRACTOR FILE NO.</b> 2007D32		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> Alpine Vibracore Unit		<input checked="" type="checkbox"/> <b>AUTO HAMMER</b> <input type="checkbox"/> <b>MANUAL HAMMER</b>			
<b>4. NAME OF DRILLER</b> Alpine Ocean Seismic, Inc.				<b>12. TOTAL SAMPLES</b>		<b>DISTURBED</b> 4	<b>UNDISTURBED (UD)</b> 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> <b>VERTICAL</b> <input type="checkbox"/> <b>INCLINED</b>				<b>13. TOTAL NUMBER CORE BOXES</b> 1		<b>14. ELEVATION GROUND WATER</b> Tidal			
<b>6. THICKNESS OF OVERBURDEN</b> N/A				<b>15. DATE BORING</b>		<b>STARTED</b> 08-10-07	<b>COMPLETED</b> 08-10-07		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A				<b>16. ELEVATION TOP OF BORING</b> -44.9 Ft.		<b>17. TOTAL RECOVERY FOR BORING</b> 97 %			
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.				<b>18. SIGNATURE AND TITLE OF INSPECTOR</b> Eric Guarino, Geologist					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE
-44.9	0.0						-44.9		
			SHELL, mostly angular fine to medium-grained sand-sized 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	647			Vibracore		
				NR	1		-47.9		
							-48.4		
				NR					
							-50.9		
				NR	2		-51.4		
				NR			-53.9		
				NR	3		-54.4		
				NR					
-57.2	12.3						-57.9		
			SAND, poorly-graded, mostly subangular fine to medium-grained sand-sized quartz, little angular fine to medium-grained sand-sized shell up to 1/8", weak reaction with HCl, moist, 10YR 6/1 gray (SP)		4		-58.4		
				NR					

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																		
PROJECT			COORDINATE SYSTEM/DATUM		HORIZONTAL	VERTICAL																		
MARTIN COUNTY OFFSHORE INVESTIGATIONS			State Plane, FLE (U.S. Ft.)		NAD83	MLLW																		
LOCATION COORDINATES			ELEVATION TOP OF BORING																					
X = 948,270 Y = 1,073,941			-44.9 Ft.																					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE															
-62.7	17.8			NR																				
-64.3	19.4		SILT, organic-L, mostly subrounded fine-grained sand-sized carbonate, some angular shell up to 1/2", strong reaction with HCl, moist, 10YR 5/1 gray (OL)																					
-64.9	20.0	NR					-64.9																	
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>13.0/13.5</td> <td>SP*</td> </tr> </tbody> </table>			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*							
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*Lab visual classification based on gradation curve. No Atterberg limits.																								
			Abbreviations: NR = Not Recorded.																					

## Penetration Graph for Core No. VB-MCSP07-8, Run 1

Date: 8/9/2007  
Start Time: 8:38:02 AM  
End Time: 8:41:50 AM

Penetration: 19.81 ft  
Recovery: 19.4  
W. D. Corrected: 44.9  
W. D. Raw: 47

Easting: 948270  
Northing: 1073941  
Coord. System: FL East

Lat: 27d 17.1192' N  
Long: 80d 6.354' W  
Datum: NAD-83

Comment:

