

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District		<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> VENICE BEACH BEACH SAND SEARCH Sarasota County, Florida			<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SCV09-03		<b>LOCATION COORDINATES</b> X = 494,223 Y = 949,993		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLW (U.S. Ft.)	<b>HORIZONTAL</b> NAD83 <b>VERTICAL</b> NAVD88
<b>3. DRILLING AGENCY</b> Challenge Engineering & Testing, Inc.		<b>CONTRACTOR FILE NO.</b> 2009D07		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> Alpine 271 Vibracore Unit	
<b>4. NAME OF DRILLER</b> American Vibracore Services, 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"/> VERTICAL <input type="checkbox"/> INCLINED		<b>DEG. FROM VERTICAL</b>	<b>BEARING</b>	<b>13. TOTAL NUMBER CORE BOXES</b> 1	
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b> Tidal		<b>15. DATE BORING</b>	
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>16. ELEVATION TOP OF BORING</b> -32.8 Ft.		<b>STARTED</b> 06-17-09	<b>COMPLETED</b> 06-17-09
<b>8. TOTAL DEPTH OF BORING</b> 17.0 Ft.		<b>17. TOTAL RECOVERY FOR BORING</b> 99 %		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b> V. J. Thompson III, Civil Engineer	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-32.8	0.0						-32.8		
			SAND, poorly-graded, mostly subangular fine to medium-grained sand-sized quartz, some angular to subangular shell up to 1", wet, 5Y 4/2 olive gray (SP)	100			Vibracore		
				100	1		-34.8 -35.3		
				100			Vibracore		
				100	2		-38.1 -38.6		
				100			Vibracore		
-39.8	7.0			100	3		-39.8 -40.3		
			SAND, poorly-graded with silt, mostly subangular fine-grained sand-sized quartz, little angular to subangular shell up to 1", wet, 5Y 6/2 light olive gray (SP-SM)	100			Vibracore		
-42.4	9.6			100	4		-43.3 -43.8		
			SAND, silty, mostly subangular fine-grained sand-sized quartz, little angular to subangular shell up to 1", wet, 5Y 6/2 light olive gray (SM)	97			Vibracore		
			At El. -46.2 Ft., some angular to subangular shell up to 2"						
-47.8	15.0								

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																					
PROJECT VENICE BEACH BEACH SAND SEARCH			COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																					
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ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																		
-49.6	16.8	Slightly Weathered NO REC	LIMESTONE, sparsely fossiliferous, moderately hard, slightly weathered, fine grained, pitted	97			Vibracore																				
-49.8	17.0																										
			BORING TERMINATED IN REFUSAL																								
			NOTES:																								
			1. USACE Jacksonville is the custodian for these original files.																								
			2. Soils are field visually classified in accordance with the Unified Soils Classification System.																								
			3. Vibracore Borings Were Sampled With An Alpine 271 Pneumatic Powered Unit Using A 3 5/8" Lexan Liner To Termination Depth Specified.																								
			4. Non-ASTM Carbonate Analysis Performed At Depth 2.0-2.5 Ft. = 3.8% Lossage																								
			5. 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>1B</td> <td>/17.0</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>5.3/5.8</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>7.0/7.5</td> <td>SP-SM*</td> </tr> <tr> <td>4</td> <td>10.5/11.0</td> <td>SM*</td> </tr> </tbody> </table>			SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.5	SP*	1B	/17.0	SP*	2	5.3/5.8	SP*	3	7.0/7.5	SP-SM*	4	10.5/11.0	SM*				
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			*Lab visual classification based on gradation curve. No Atterberg limits.																								