

## Boring Designation VB-SCV09-45

<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>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLW (U.S. Ft.)		<b>HORIZONTAL</b> NAD83	<b>VERTICAL</b> NAVD88
<b>2. BORING DESIGNATION</b> VB-SCV09-45		<b>LOCATION COORDINATES</b> X = 492,737 Y = 935,362		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> Alpine 271 Vibracore Unit		<input type="checkbox"/> <b>AUTO HAMMER</b> <input checked="" type="checkbox"/> <b>MANUAL HAMMER</b>	
<b>3. DRILLING AGENCY</b> Challenge Engineering & Testing, Inc.		<b>CONTRACTOR FILE NO.</b> 2009D07		<b>12. TOTAL SAMPLES</b>		<b>DISTURBED</b> 4	<b>UNDISTURBED (UD)</b> 0
<b>4. NAME OF DRILLER</b> American Vibracore Services, Inc.				<b>13. TOTAL NUMBER CORE BOXES</b> 1			
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> <b>VERTICAL</b> <input type="checkbox"/> <b>INCLINED</b>		<b>DEG. FROM VERTICAL</b>	<b>BEARING</b>	<b>14. ELEVATION GROUND WATER</b> Tidal			
				<b>15. DATE BORING</b>		<b>STARTED</b> 06-16-09	<b>COMPLETED</b> 06-16-09
<b>6. THICKNESS OF OVERBURDEN</b>		N/A		<b>16. ELEVATION TOP OF BORING</b> -39.1 Ft.			
<b>7. DEPTH DRILLED INTO ROCK</b>		N/A		<b>17. TOTAL RECOVERY FOR BORING</b> 93 %			
<b>8. TOTAL DEPTH OF BORING</b>		20.3 Ft.		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b> V. J. Thompson III, Civil Engineer			

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD COR'D	REMARKS	BLOWS/1 FT.	N-VALUE
-39.1	0.0						-39.1		
			SAND, poorly-graded, mostly subangular fine to medium-grained sand-sized quartz, little angular to subangular shell up to 3/8", wet, 5Y 4/1 dark gray (SP)	100			Vibracore		0
				100	1		-40.6	Vibracore	
				100				Vibracore	
				100	2		-43.6	Vibracore	
				100			-44.1	Vibracore	
-46.1	7.0		SAND, poorly-graded with silt, mostly subangular fine-grained sand-sized quartz, few angular to subangular shell up to 3/8", wet, 5Y 4/1 dark gray (SP-SM)	100	3		-46.6	Vibracore	
							-47.1	Vibracore	
				100				Vibracore	
-49.1	10.0		SAND, silty, mostly subangular fine-grained sand-sized quartz, little angular to subangular shell up to 1/2", wet, 5Y 6/2 light olive gray (SM)	100	4		-49.6	Vibracore	
							-50.1	Vibracore	
				85				Vibracore	
-52.6	13.5		LIMESTONE, fossiliferous, soft, slightly weathered, pitted, 5Y 8/2 pale yellow						
			At El. -50.6 Ft., trace coral up to 3"						
			At El. -53.6 Ft., moderately hard						

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																	
LOCATION COORDINATES X = 492,737 Y = 935,362			ELEVATION TOP OF BORING -39.1 Ft.																				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE														
-58.0	18.9	Slightly Weathered		85			Vibracore																
-59.4	20.3	NR					-59.4																
<p>NOTES:</p> <p>1. USACE Jacksonville is the custodian for these original files.</p> <p>2. Soils are field visually classified in accordance with the Unified Soils Classification System.</p> <p>3. Vibracore Borings Were Sampled With An Alpine 271 Pneumatic Powered Unit Using A 3 5/8" Lexan Liner To Termination Depth Specified.</p> <p>4. 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>1.0/1.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>4.5/5.0</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>7.5/8.0</td> <td>SP-SM*</td> </tr> <tr> <td>4</td> <td>10.5/11.0</td> <td>SM*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve. No Atterberg limits.</p>			SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	1.0/1.5	SP*	2	4.5/5.0	SP*	3	7.5/8.0	SP-SM*	4	10.5/11.0	SM*						
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