

<b>DRILLING LOG</b>		<b>DIVISION</b>	<b>INSTALLATION</b>	<b>SHEET 1</b>
<b>1. PROJECT</b> AMI 2013 Sand Search Anna Maria Island, FL		<b>9. SIZE AND TYPE OF BIT</b> 3.0 In.		
<b>2. BORING DESIGNATION</b> AMVC-13-16		<b>LOCATION COORDINATES</b> X = 411,512 Y = 1,161,975	<b>10. COORDINATE SYSTEM/DATUM</b> Florida State Plane West	<b>HORIZONTAL</b> NAD 1983
<b>3. DRILLING AGENCY</b> Athena Technologies, Inc.		<b>CONTRACTOR FILE NO.</b>	<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> Electric	<input type="checkbox"/> <b>AUTO HAMMER</b> <input type="checkbox"/> <b>MANUAL HAMMER</b>
<b>4. NAME OF DRILLER</b> Palmer McLellan		<b>12. TOTAL SAMPLES</b>		
<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>13. TOTAL NUMBER CORE BOXES</b>
<b>6. THICKNESS OF OVERBURDEN</b> 0.0 Ft.		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> 0.0 Ft.		<b>15. DATE BORING</b> 01-24-13 13:42		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -10.8 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 17.6 Ft.		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b> LC		

ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIALS Depths and elevations based on measured values	% REC.	BOX OR SAMPLE	REMARKS
-10.8	0.0					Shell Hash calculated from visual estimate of shell <4.75mm and >2.8mm.
-13.2	2.4		SAND, fine grained, quartz, little shell hash, trace shell fragments, trace silt, shell frags up to 1.0", light gray (2.5Y-7/1), (SW).		1	Sample #1, Depth = 1.2' Mean (mm): 0.26, Phi Sorting: 1.44 Fines (230): 1.49% (SW)
-13.5	2.7		SANDY SHELL HASH, trace shell fragments, shell frags up to 0.5", gray (2.5Y-6/1), (SW).		2	Sample #2, Depth = 2.5' Mean (mm): 0.48, Phi Sorting: 1.62 Fines (230): 1.35% (SW)
-13.8	3.0		SAND, fine grained, quartz, little shell hash, trace silt, light gray (2.5Y-7/1), (SW).		1	
-14.1	3.3		SANDY SHELL HASH, trace shell fragments, shell frags up to 0.5", gray (2.5Y-6/1), (SW).		2	
-16.1	5.3		SAND, trace clay, trace shell hash, clay distributed in pockets up to 0.25", (3.0"x1.0") pocket of shell frags @ 3.5', light gray (5Y-7/1), (SP).		3	Sample #3, Depth = 4.3' Mean (mm): 0.17, Phi Sorting: 0.60 Fines (230): 1.78% (SP)
-17.0	6.2		SHELL HASH, some sand, trace shell fragments, shell frags up to 0.5", (3.0"x1.5") silty pocket @ 5.7', gray (5Y-6/1), (SW).		4	Sample #4, Depth = 6.0' Mean (mm): 0.83, Phi Sorting: 2.03 Fines (230): 2.15% (SW)
-17.4	6.6		SAND, fine grained, quartz, trace shell hash, trace silt, (2.0"x1.0") shell frag @ 6.5', light gray (5Y-7/1), (SP).		3	
-19.2	8.4		SHELL HASH, some sand, trace rock fragments, trace shell fragments, trace whole shell, shell frags up to 0.75", whole shells up to 0.5", rock frags up to 1.5", gray (5Y-6/1), (GW).		5	Sample #5, Depth = 7.3' Mean (mm): 1.30, Phi Sorting: 1.80 Fines (230): 1.13% (SW)
-20.6	9.8		SHELL HASH, some sand, trace rock fragments, trace shell fragments, trace whole shell, shell frags up to 0.75", whole shells up to 0.5", rock frags up to 1.5", gray (5Y-6/1), (GW).		6	Sample #6, Depth = 9.4' Mean (mm): 0.57, Phi Sorting: 1.66 Fines (230): 1.93% (SW)
-21.8	11.0		SANDY SHELL HASH, trace shell fragments, trace silt, shell frags up to 0.75", light gray (2.5Y-7/1), (SW).		1	
-23.2	12.4		SAND, fine grained, quartz, little shell hash, 3.0" pocket of shell frags up to 2.0" @ 10.2', light gray (2.5Y-7/1), (SW).		7	Sample #7, Depth = 11.5' Mean (mm): 1.12, Phi Sorting: 2.12 Fines (230): 2.19% (SW)
-23.5	12.7		SHELL HASH, some sand, little shell fragments, trace rock fragments, trace whole shell, rock frags, whole shells and shell frags up to 1.0", 3" rock frag @ 11', gray (5Y-6/1), (GW).			
-24.0	13.2		Shelly SAND, fine grained, quartz, little rock fragments, shell component is shell hash and shell frags up to 0.5", rock frags up to 1.0", light gray (5Y-7/1), (GW).			
-27.0	16.2		Clayey SAND, fine grained, quartz, some rock fragments, rock frags up to 4.0", olive gray (5Y-4/2), (GC).			
-28.4	17.6		SAND, fine grained, quartz, trace rock fragments, trace shell hash, trace silt, rock frags up to 2.0", light gray (5Y-7/1), (GW).			
-30.8	20.0		Silty SAND, little shell hash, trace shell fragments, trace whole shell, olive gray (5Y-5/2), (SM).			
			No Recovery.			