

RS-1



5400 Glenwood Avenue, Suite 300
Raleigh, NC 27612

ROTONSONIC BORING LOG

LR_RS- 1

Client: SFWM District
Project Location: Okeechobee, FL

Project Name: LOFT - Lakeside Ranch
Project Number: 30327-51606

Drilling Contractor: Boart Longyear
Drilling Method/Rig: Rotary Sonic/Mini Sonic
Drillers: Jason Giwing
Drilling Date: Start: 5-22-06 **End:** 5-23-06
Borehole Coordinates:
N 1,024,836.07 E 761,736.62

Surface Elevation (ft-NAVD 1988): 24.9
Total Depth (ft.): 150
Depth to Groundwater Level (ft. BLS): 3.9 (5/30/06)*
Abandonment Method: Grouted to ground surface
Field Screening Instrument: None
Logged By: J.M. Mills

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	Graphic Log	ASTM Group Symbol	Material Description	Moisture content (%)	%gravel/%sand	%fines	Liquid Limit/Plasticity Index
			24.9							
			0		SP	Grass cover and sod about 4 to 5 inches thick. Poorly Graded SAND, fine, dry, light gray; quartz sand.				
RS	S-1	6	19.9		SM	Grades to Silty SAND, fine, wet, dark yellowish brown; quartz sand.	20.5		19.5	
			5							
RS	S-2	6	14.9			Grades to white.				
			10							
RS	S-3	6	9.9			Grades to dark grayish brown.				
			15							
RS	S-4	6	4.9							

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EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

4-in. core barrel/ 6-in. temporary casing.
RS - Rotosonic/Grab Sample.
* = The groundwater depth reading was taken from the adjacent piezometer; PZ-1A on the date shown. The depth to groundwater is expected to fluctuate with time.

Reviewed by:

Date:



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			4.9 20		SM					
					SC	Clayey SAND, fine, wet, greenish gray; little shell fragments.				
					SM	Silty SAND, fine, wet, light greenish gray; little shell fragments.				
RS	S-5	6	-0.1 25		SP-SM	Poorly Graded SAND with Silt, fine, wet, very pale brown to light gray; quartz sand; mostly shell and shell fragments.	15.2		12.5	
RS	S-6	6	-5.1 30							
RS	S-7	6	-10.1 35			Increased sand content.				
					SP	Poorly graded SAND, fine, wet, olive gray; quartz sand; trace shell fragments.				
RS	S-8	6	-15.1 40							
RS	S-9	6	-20.1 45		SM	Grades to Silty SAND.	27.9		12.4	
RS	S-10	6	-25.1 50		SM	Silty SAND, fine, wet, gray; quartz sand; little shell and shell fragments.				
RS	S-11	6	-30.1 55							
RS	S-12	6	-35.1				17.5		8.6	

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			-35.1 60		SP-SM	Decreased silt content.				
RS	S-13	6	-40.1 65							
					SM	Increased silt content.				
RS	S-14	6	-45.1 70		CL/SC	Sandy CLAY, fine, moist to wet, gray; quartz sand; few shell fragments.				
RS	S-15	6	-50.1 75		SC	Clayey SAND, fine to medium, wet, gray; little shell fragments; trace carbonate silt.	31.5		42.1	NP
RS	S-16	6	-55.1 80			Decreased clay content.	19.2		14.4	NP
RS	S-17	6	-60.1 85		SM	Silty SAND, fine to medium, wet, olive gray; few to little shell fragments; carbonate sand; some cemented sand (calcite cement); trace phosphate.				
RS	S-18	6	-65.1 90							
RS	S-19	6	-70.1 95				30.3		20.7	
RS	S-20	6	-75.1							

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			-75.1 100		SM	Grades to light olive gray.						
RS	S-21	6	-80.1 105									
RS	S-22	6	-85.1 110									
RS	S-23	6	-90.1 115					Increased carbonate silt content. Strong reaction with dilute HCl.	25.6		12.6	
RS	S-24	6	-95.1 120									
RS	S-25	6	-100.1 125									
RS	S-26	6	-105.1 130					ML SILT with Sand, fine, wet, dark greenish gray; weak reaction with dilute HCl; trace shell fragments; trace phosphatic sand.				
RS	S-27	6	-110.1 135							28.1		68.0
RS	S-28	6	-115.1									



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			-115.1 140		SP-SM	Poorly Graded SAND with Silt, fine, wet, greenish gray; quartz sand with phosphate.					
RS	S-29	6	-120.1 145								
RS	S-30	6	-125.1 150						23.7		11.3
			-130.1 155			Boring terminated at 150 ft-bl.					
			-135.1 160								
			-140.1 165								
			-145.1 170								
			-150.1 175								
			-155.1								

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