

[illegible]

TURKEY POINT COL BORE TURKEY POINT GPJ TURKEY POINT COL GDT 5/30/08



GEOTECHNICAL BORING LOG

Prepared By 2774 Date 5-3-08

Checked By 2774 Date 5-3-08

SHEET 1 OF 3

BECHTEL PROJECT NO.: 25409					MACTEC PROJECT NO.: 6468-07-1950					COUNTY: Miami-Dade			GEOLOGIST: R. Clark				
SITE DESCRIPTION: Turkey Point COL					DRILL MACHINE: CME-750 (Miller)					DRILLER: G.Bilbrey/P.McKorkle/J.Tucker					GROUND WATER (ft)		
BORING NO.: B-711					DRILL METHOD: Mud Rotary/ Core					SAMPLE METHODS: SPT/Core					0 HR. NA		
GROUND ELEV.: -1.1 ft (NAVD88)					NORTHING: 397,086 US ft (NAD83/90)					EASTING: 875,885 US ft (NAD83/90)					24 HR. NA		
TOTAL DEPTH: 151.7 ft			BORING DIAMETER: 4" to 30.5', 3" to 151.7'					CASING DEPTH: 4" to 30.5', 3" to 123.0'					HAMMER (ID):140 lb. Auto (07)				
DATE STARTED: 3/4/08			COMPLETED: 3/6/08			CORE SIZE: HQ3			BITS USED: 3 7/8" Tricone								
ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT						SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION			
		0.5ft	0.5ft	0.5ft	0	20	40	60	80	100							
-1.1					Ground Surface												
-1.1	0.0	WOH	WOH	1	●1						711-1		-1.1	0.0	MUCK, grayish brown (10YR5/2), to light gray (10YR7/2), very soft, wet, strong HCl reaction, mostly organic		
-3.6	2.5										711-2A&B		-4.1	3.0			
-6.1	5.0	WOR	8	11	●19										2.5ft: dark grayish brown (10YR4/2)		
-8.6	7.5	8	7	6	●13						711-3					LIMESTONE, boundstone, white (5Y8/1), very soft, wet, friable, strong HCl reaction, oolitic (Miami Formation)	
-11.0	9.9	7	11	3	●14						711-4						
-13.6	12.5	4	7	7	●14						711-5				12.5ft: moderately hard		
-16.1	15.0	35	36	22							711-6						
		11	17	22							711-7				15.0ft: medium hard		
															16.5ft: loss of circulation		
-21.1	20.0	8	6	5	●11						711-8				20.0ft: very soft		
-25.1	24.0	14	8	1	●9						711-9				24.0ft: friable to indurated, some circulation returned		
-30.0	28.9												-27.1	26.0	LIMESTONE, boundstone, white (5Y8/1), hard, wet, strong HCl reaction, indurated, highly fragmented (Upper Fort Thompson Formation)		
-31.6	30.5	19	29	32							711-10						
											RUN-1				30.5ft: Switch sampling method to coring		
															30.5ft: hard, indurated, few to little vugs, fossiliferous, recrystallized calcite, coralline		
-36.6	35.5										711-CS-01				30.5ft: loss of circulation		
											RUN-2						
											711-CS-02						
-41.6	40.5										RUN-3						
-46.6	45.5										RUN-4				45.5ft: white (5Y8/1), to 46.7ft then gray (5Y6/1), to 48.4ft, trace vugs		
													-49.5	48.4	LIMESTONE, boundstone, white (5Y8/1), hard, indurated, fossiliferous, porous, few vugs, few shell molds and casts, strong HCl reaction (Lower Fort Thompson Formation)		
-51.6	50.5										RUN-5						
											711-CS-03						
-56.6	55.5										RUN-6						
-61.6	60.5										711-CS-04						
											RUN-7						
											711-CS-05						
-66.6	65.5										711-CS-06						
											RUN-8						
-71.6	70.5										RUN-9						

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SHEET 2 OF 3

BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: R. Clark										
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-750 (Miller)		DRILLER: G.Bilbrey/P.McKorkle/J.Tucker		GROUND WATER (ft)										
BORING NO.: B-711		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA										
GROUND ELEV.: -1.1 ft (NAVD88)		NORTHING: 397,086 US ft (NAD83/90)		EASTING: 875,885 US ft (NAD83/90)		24 HR. NA										
TOTAL DEPTH: 151.7 ft		BORING DIAMETER: 4" to 30.5', 3" to 151.7'		CASING DEPTH: 4" to 30.5', 3" to 123.0'		HAMMER (ID): 140 lb. Auto (07)										
DATE STARTED: 3/4/08		COMPLETED: 3/6/08		CORE SIZE: HQ3		BITS USED: 3 7/8" Tricone										
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT						SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION		
		0.5ft	0.5ft	0.5ft	0	20	40	60	80	100						
-75.9		Continued from previous page														
-76.6	75.5															LIMESTONE, boundstone, white (5Y8/1), hard, indurated, fossiliferous, porous, few vugs, few shell molds and casts, strong HCl reaction (Lower Fort Thompson Formation) (continued)
-81.6	80.5															
-86.6	85.5															75.5ft: hard to moderately hard, indurated to moderately indurated 80.5ft: white (5Y8/1), to light gray (10YR7/2), hard, indurated, trace shell molds and casts
-91.6	90.5															
-96.6	95.5															85.5ft: white (5YR8/1), moderately hard, moderately indurated, trace vugs
-101.6	100.5															
-106.6	105.5															90.5ft: white (10YR8/1), medium hard to hard, moderately indurated, no vugs
-111.6	110.5															
-116.6	115.5															100.5ft: hard, indurated, little shell molds and casts
-121.6	120.5															
																105.5ft: medium hard to hard
																110.5ft: soft to hard, indurated
																114.1 Silty SAND (SM), white (10YR8/1), wet, indurated to friable, fine grained sand, little fines (Tamiami Formation)
																120.5ft: Switch sampling method to SPT 120.5ft: medium dense
																130.2ft: greenish gray (10Y6/1), loose, fine to medium grained sand, trace indurated cemented sand
																140.2ft: medium dense

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