



SHEET 2 OF 2

BECHTEL PROJECT NO.: 25409			MACTEC PROJECT NO.: 6468-07-1950			COUNTY: Miami-Dade			GEOLOGIST: J. Liles				
SITE DESCRIPTION: Turkey Point COL			DRILL MACHINE: CME-550 (Miller)			DRILLER: R. White/ J. Dugger/ C. White			GROUND WATER (ft)				
BORING NO.: B-725			DRILL METHOD: Mud Rotary/ Core			SAMPLE METHODS: SPT/Core			0 HR. NA				
GROUND ELEV.: -1.0 ft (NAVD88)			NORTHING: 397,100 US ft (NAD83/90)			EASTING: 876,111 US ft (NAD83/90)			24 HR. NA				
TOTAL DEPTH: 126.6 ft			BORING DIAMETER: 4" to 30.0', 3" to 126.6'			CASING DEPTH: 4" to 30.0', 3" to 120.0'			HAMMER (ID): 140 lb. Auto (M06)				
DATE STARTED: 4/1/08			COMPLETED: 4/2/08			CORE SIZE: HQ3			BITS USED: 2 7/8" Roller Cone				
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT						SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION
		0.5ft	0.5ft	0.5ft	0	20	40	60	80	100			
-75.8					Continued from previous page								
-77.0	76.0										RUN-10		LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, few vugs, trace recrystallized calcite, strong HCl reaction (Lower Fort Thompson Formation) (continued)
-82.0	81.0										RUN-11		81.0ft: medium hard to moderately hard, friable to moderately indurated
-87.0	86.0										RUN-12		
-92.0	91.0										RUN-13		91.0ft: trace fine to medium grained sand
-97.0	96.0										RUN-14		96.0ft: moderately hard, moderately indurated
-102.0	101.0										725-12		101.0ft: Change sampling method to SPT
-103.5	102.5	28	21	25							RUN-15		101.0ft: white (2.5Y8/1), moderately hard, wet, little fine to medium grained sand, strong HCl reaction
-107.0	106.0										RUN-16		102.5ft: Switch sampling method to coring
-112.0	111.0										RUN-17		102.5ft: white (2.5Y8/1), moderately hard, moderately indurated, fine to medium grained sand, strong HCl reaction, fossiliferous little vugs
-117.0	116.0												106ft: few vugs
-117.0	116.0										RUN-18		115.0ft: POORLY GRADED SAND (SP), wet, fine grained sand, strong HCl reaction, few limestone fragments (Tamiami Formation)
-123.0	122.0	4	7	10							725-13		122.0ft: Switch sampling method to SPT
-126.1	125.1	4	5	12							725-14		122.0ft: greenish gray (10Y5/1), medium dense, wet, fine grained sand, strong HCl reaction
													126.6ft: Boring Terminated at Elevation -127.6 ft

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



SHEET 1 OF 2

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BORING NO.: B-725				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core				0 HR. NA	
GROUND ELEV.: -1.0 ft (NAVD88)				NORTHING: 397,100 US ft (NAD83/90)				EASTING: 876,111 US ft (NAD83/90)				24 HR. NA	
TOTAL DEPTH: 126.6 ft				CASING DEPTH: 4" to 30.0', 3" to 120.0'						HAMMER (ID): 140 lb. Auto (M06)			
DATE STARTED: 4/1/08		COMPLETED: 4/2/08		CORE SIZE: HQ3		CORE BARREL TYPE: Triple Tube Wireline (Split inner liners)							
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN REC (ft) %		SAMP. NO.	STRATA REC (ft) %		RQD (ft) %	L O G	DESCRIPTION AND REMARKS		
											Begin Coring @ 32.1 ft		
-33.1	32.1	3.0	0:47 0:43 0:43	(0.0) 0%	(0.0) 0%	RUN-1	(6.0) 41%	(3.5) 24%			LIMESTONE, boundstone, white (2.5Y8/1), very soft, wet, strong HCl reaction (Upper Fort Thompson Formation) (continued)		
-36.1	35.1	5.0	0:50 0:45 0:49 0:41 1:46	(0.0) 0%	(0.0) 0%	RUN-2							
-41.1	40.1		N=62/0.9			725-11							
-42.0	41.0	5.0	0:46 0:48 0:33 1:04 1:12	(4.2) 84%	(2.7) 54%	RUN-3					40.1ft: Switch sampling method to SPT 40.1ft: boundstone, white (2.5Y8/1), hard, wet, strong HCl reaction 41.0ft: Switch sampling method to coring 41.0ft: white (2.5Y8/1), moderately hard, moderately indurated, recrystallized calcite, strong HCl reaction, little vugs		
-47.0	46.0	5.0	1:23 1:29 1:10 1:28 1:48	(5.0) 100%	(3.3) 66%	RUN-4					46.0ft: white (2.5Y8/1) to 46.9ft, then gray (10Y6/1) to 47.8ft		
-52.0	51.0	5.0	1:22 1:01 1:01 1:17 0:51	(4.9) 98%	(4.5) 90%	RUN-5	(38.9) 60%	(11.8) 18%			LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, few vugs, trace recrystallized calcite, strong HCl reaction (Lower Fort Thompson Formation)		
-57.0	56.0	5.0	0:55 0:38 0:34 0:29 0:59	(2.6) 52%	(0.7) 14%	RUN-6					51.0ft: moderately hard, moderately indurated, fossiliferous, trace vugs		
-62.0	61.0	5.0	0:44 0:24 0:26 0:37 0:31	(3.0) 60%	(0.4) 8%	RUN-7							
-67.0	66.0	5.0	0:31 0:20 0:06 0:04 0:02	(0.8) 16%	(0.0) 0%	RUN-8					68.0 to 71.0ft: soft zone		
-72.0	71.0	5.0	0:01 0:14 0:06 0:30 0:20	(1.1) 22%	(0.0) 0%	RUN-9							
-77.0	76.0	5.0	0:05 0:38 0:47 0:26 0:52	(1.8) 36%	(0.0) 0%	RUN-10							
-82.0	81.0	5.0	0:35 0:48 0:46 0:37 0:38	(4.3) 86%	(1.1) 22%	RUN-11					81.0ft: medium hard to moderately hard, friable to moderately indurated		
-87.0	86.0	5.0	0:29 0:28 1:00 4:07 0:48	(4.5) 90%	(1.0) 20%	RUN-12							
-92.0	91.0	5.0	0:21 0:40 0:43 0:35 0:23	(3.5) 70%	(0.5) 10%	RUN-13					91.0ft: trace fine to medium grained sand		
-97.0	96.0	5.0	0:28 0:11 0:10 0:11 0:09	(1.2) 24%	(0.0) 0%	RUN-14					96.0ft: moderately hard, moderately indurated		
-102.0	101.0		N=46			725-12							
-103.5	102.5	3.5	0:31/0.5 0:26 0:34 0:22	(2.9) 83%	(1.1) 31%	RUN-15					101.0ft: Change sampling method to SPT 101.0ft: white (2.5Y8/1), moderately hard, wet, little fine to medium grained sand, strong HCl reaction 102.5ft: Switch sampling method to coring 102.5ft: white (2.5Y8/1), moderately hard, moderately indurated, fine to medium		
-107.0	106.0					RUN-16							

TURKEY POINT COL CORE: TURKEY POINT GPJ TURKEY POINT COL CDT 5/30/08



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TOTAL DEPTH: 126.6 ft	CASING DEPTH: 4" to 30.0', 3" to 120.0'	HAMMER (ID): 140 lb. Auto (M06)	
DATE STARTED: 4/1/08	COMPLETED: 4/2/08	CORE SIZE: HQ3	CORE BARREL TYPE: Triple Tube Wireline (Split inner liners)

ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	REC (ft) %	RQD (ft) %	SAMP. NO.	REC (ft) %	RQD (ft) %	L O G	DESCRIPTION AND REMARKS
										Continued from previous page
-112.0	111.0	5.0	0:37 0:26 0:29 0:24 0:27	(3.3) 66%	(0.0) 0%					grained sand, strong HCl reaction, fossiliferous little vugs 106ft: few vugs LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, few vugs, trace recrystallized calcite, strong HCl reaction (Lower Fort Thompson Formation) (continued)
-117.0	116.0	5.0	0:30 1:11 0:36 0:18 0:18	(1.8) 36%	(0.0) 0%	RUN-17	(1.1) 16%	(NA)		POORLY GRADED SAND (SP), wet, fine grained sand, strong HCl reaction, few limestone fragments (Tamiami Formation)
-122.0	121.0	5.0	0:30 0:26 0:27 0:25 0:26	(1.1) 22%	(0.0) 0%	RUN-18				Coring Terminated at Elevation -122.0

TURKEY POINT COL CORE TURKEY POINT GPJ TURKEY POINT COL GDT 5:30 08