



BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade	GEOLOGIST: H. Lyatuu
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550 (ATL)		DRILLER: L. Carter/ J. Landeros	
BORING NO.: B-609		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core	
GROUND ELEV.: -1.5 ft (NAVD88)		NORTHING: 396,763 US ft (NAD83/90)		EASTING: 876,689 US ft (NAD83/90)	
TOTAL DEPTH: 150.7 ft		CASING DEPTH: 4" to 25.0', 3" to 125.0'			HAMMER (ID): 140 lb. Auto (MEC-03)
DATE STARTED: 3/10/08		COMPLETED: 3/12/08		CORE SIZE: HQ3	CORE BARREL TYPE: Triple Tube Wireline (Split inner liners)

ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC. (%)	ROD (ft)		REC. (%)	ROD (ft)		
										Begin Coring @ 25.3 ft
-26.8	25.3	2.8	1:02 1:06	(2.8) 100%	(2.5) 89%	RUN-1	(21.8) 96%	(19.3) 85%		LIMESTONE, boundstone, white (10YR8/1), hard, wet, fossiliferous, strong HCl reaction (Upper Fort Thompson Formation) (continued)
-29.6	28.1	5.0	1:33/0.8	(4.9) 98%	(4.7) 94%	RUN-2 609-CS-01 609-CS-02				25.3ft: white (7.5YR8/1), hard, indurated, fossiliferous, strong HCl reaction, coralline, few to little vugs
-34.6	33.1	5.0	0:57 0:58 1:15 1:20 0:45	(5.0) 100%	(3.9) 78%	RUN-3				33.1ft: white (10YR8/1)
-39.6	38.1	5.0	1:04 1:10 1:13 0:50 1:12	(4.8) 96%	(4.3) 86%	RUN-4				38.1ft: white (2.5Y8/1), recrystallized calcite
-44.6	43.1	5.0	1:09 0:53 1:26 1:25 1:46	(4.5) 90%	(3.9) 78%	RUN-5				43.1ft: white (2.5Y8/1), to gray (10YR6/1) from 46.1ft to 47.9ft
-49.6	48.1	5.0	0:42 0:45 1:22 1:28 1:22	(5.0) 100%	(5.0) 100%	RUN-6 609-CS-04	(55.6) 85%	(38.2) 59%		LIMESTONE, boundstone, very pale brown (10YR8/3) to white (10YR8/1), hard, indurated, trace to few vugs, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation)
-54.6	53.1	5.0	1:55 1:47 1:44 1:21 0:49	(4.8) 96%	(4.0) 80%	RUN-7				48.1ft: white (10YR8/1), trace vugs
-59.6	58.1	5.0	0:51 1:05 1:02 0:29 0:52	(5.0) 100%	(4.7) 94%	RUN-8				
-64.6	63.1	5.0	0:42 1:00 0:56 0:35 0:41	(5.0) 100%	(4.7) 94%	RUN-9				
-65.6	64.1	1.0	0:38	(1.0)	(0.8)	RUN-10				
-66.1	64.6	0.5	1:49/0.5	100%	80%	RUN-10				
-69.6	68.1	3.5	0:25/0.5 0:48 0:26	(0.0) 0%	(0.0) 0%	RUN-11				
-73.6	72.1	4.0	0:18 0:33 1:40 0:55 0:45	(1.6) 46%	(0.0) 0%	RUN-12				
-74.6	73.1	1.0	0:38	(1.0)	(0.0)	RUN-13				
-78.0	76.5	3.4	0:20 0:23 0:35	100%	0%	RUN-14				
-79.6	78.1	1.6	0:52/0.4	(1.6)	(0.9)	RUN-15				76.5ft: white (2.5Y8/1)
-84.6	83.1	5.0	0:50/0.6 1:12 2:01 1:34 0:48 0:45 0:40	100%	56%	RUN-16 609-CS-06	(4.4) 88%	(2.2) 44%		
-89.6	88.1	5.0	1:04 1:02 1:12 2:07 2:09	(4.5) 90%	(2.9) 58%	RUN-17				
-94.6	93.1	5.0	2:01 0:36 0:30 1:28 0:40	(5.0) 100%	(3.3) 66%	RUN-18				88.1ft: white (10YR8/1), few vugs
-97.6	96.1	3.0	0:42 1:07 2:08	(1.9) 63%	(0.4) 13%	RUN-19				
-99.6	98.1	2.0	0:45 1:15	(1.6) 80%	(0.6) 30%	RUN-20				
-101.6	100.1	2.0	1:05 1:18	(2.0) 100%	(0.9) 45%	RUN-21				98.1ft: white (7.5YR8/1)

TURKEY POINT COL CORE TURKEY POINT GJ TURKEY POINT COL GDT 5:3008



BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: H. Lyatuu	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550 (ATL)		DRILLER: L. Carter/ J. Landeros		GROUND WATER (ft)	
BORING NO.: B-609		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA	
GROUND ELEV.: -1.5 ft (NAVD88)		NORTHING: 396,763 US ft (NAD83/90)		EASTING: 876,689 US ft (NAD83/90)		24 HR. NA	
TOTAL DEPTH: 150.7 ft		CASING DEPTH: 4" to 25.0', 3" to 125.0'				HAMMER (ID): 140 lb. Auto (MEC-03)	
DATE STARTED: 3/10/08		COMPLETED: 3/12/08		CORE SIZE: HQ3		CORE BARREL TYPE: Triple Tube Wireline (Split inner liners)	

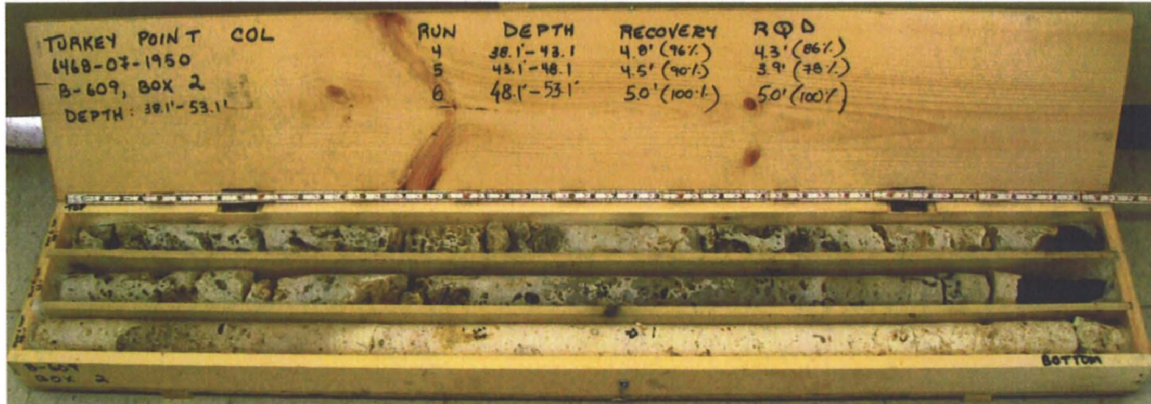
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC (ft) %	RQD (ft) %		REC (ft) %	RQD (ft) %		
										Continued from previous page
-104.6	103.1	3.0	0.57 0.58 1.04	100% (3.0)	45% (2.8)	RUN-22 RUN-22 609-CS-07				100.1ft: white (2.5Y8/1), few vugs, little shell molds and casts LIMESTONE, boundstone, very pale brown (10YR8/3) to white (10YR8/1), hard, indurated, trace to few vugs, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation) (continued)
-109.6	108.1	5.0	0.48 0.44 0.56 0.56 1.05	(4.7) 100%	(4.7) 94%	RUN-23				
-113.6	112.1	4.0	0.40 0.49 1.12 0.13	(2.9) 73%	(2.2) 55%	RUN-24				108.1ft: white (10YR8/1)
-114.6	113.1	1.0	0.40	(0.6)	(0.0)	RUN-25				-114.5
-119.6	118.1	5.0	0.48 0.53 0.44 0.22 0.15	60% (0.0) 0%	0% (0.0) 0%	RUN-26	(0.0) 0%	(NA)		Silty SAND (SM), light gray (7.5YR7/1), medium dense, wet, fine grained sand, strong HCl reaction (Tamiami Formation)

Coring Terminated at Elevation -119.6

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



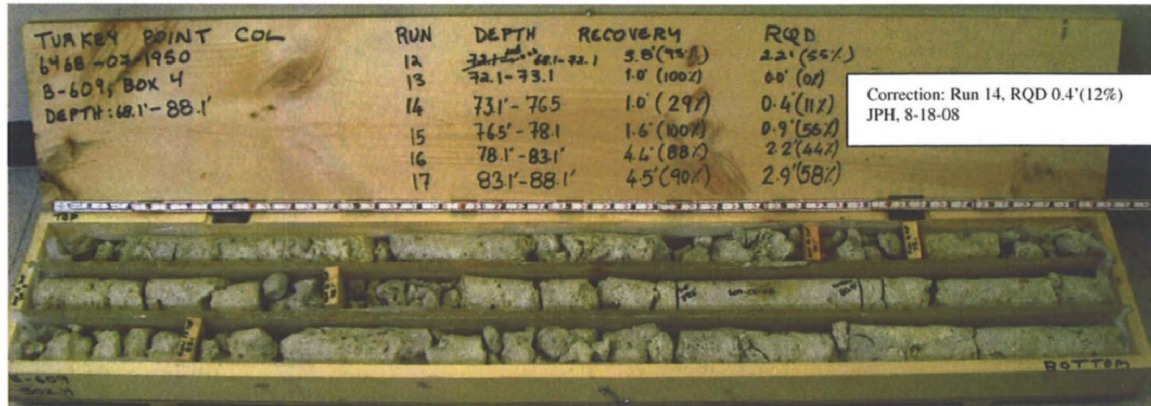
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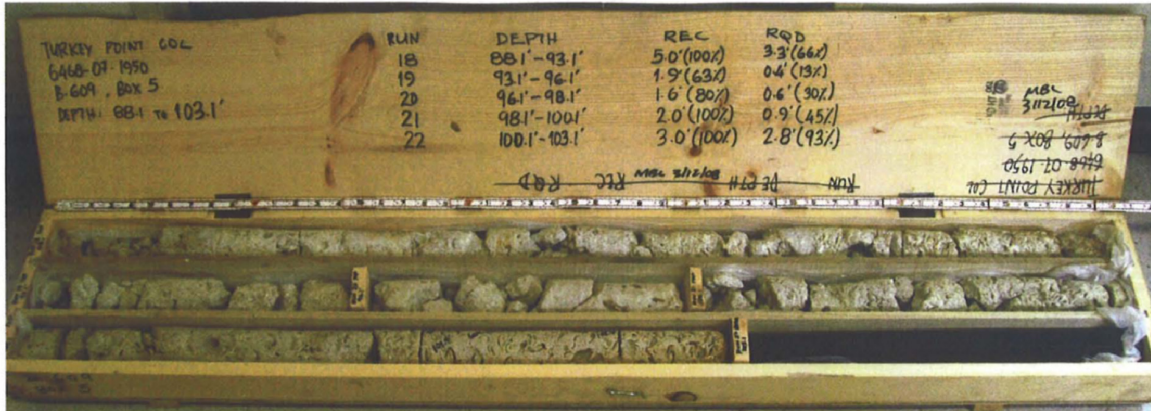
B-609 - Box 2



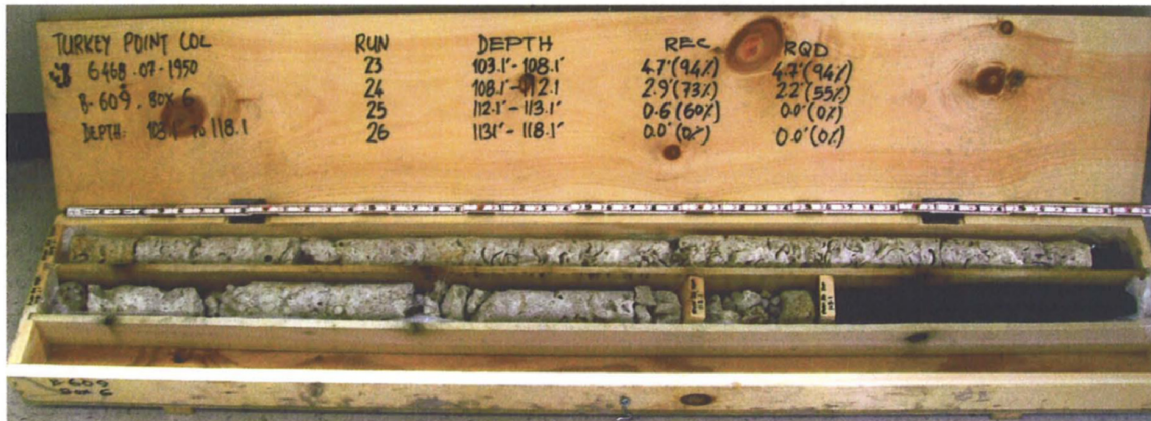
B-609 - Box 3



B-609 - Box 4



B-609 - Box 5



B-609 - Box 6



GEOTECHNICAL BORING LOG

Prepared By *[Signature]* Date 7-10-08

Checked By *[Signature]* Date 7-10-08

SHEET 1 OF 4

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-610(DH)		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA							
GROUND ELEV.: -1.4 ft (NAVD88)		NORTHING: 397,084 US ft (NAD83/90)		EASTING: 876,644 US ft (NAD83/90)		24 HR. NA							
TOTAL DEPTH: 269.0 ft		BORING DIAMETER: 4" to 106.0', 3" to 269.0'		CASING DEPTH: 4" to 106.0'		HAMMER (ID): 140 lb. Auto (07)							
DATE STARTED: 3/24/08		COMPLETED: 4/2/08		CORE SIZE: HQ3		BITS USED: 2 15/16" & 3 7/8" Tricones							
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
-1.4					Ground Surface								
-1.4	0.0	WOH	WOH	WOH									
-4.0	2.6	1	2	5						610(DH)-1		MUCK, pinkish gray (7.5YR/2), to black (7.5YR2.5/1), very soft, wet, mostly organic. strong HCl reaction	
-6.4	5.0	6	9	8						610(DH)-2&3		LIMESTONE, boundstone, pale yellow (2.5Y7/3), very soft, wet, friable, some sand. strong HCl reaction, oolitic (Miami Formation) 5.0ft: white (5Y8/1), fossiliferous	
-8.9	7.5	6	6	3						610(DH)-3			
-11.5	10.1	5	5	4						610(DH)-4			
-13.9	12.5	17	22	34						610(DH)-5			
-16.4	15.0	11	10	50/0.5						610(DH)-6		12.5ft: moderately hard	
-17.9	16.5									610(DH)-7		16.5ft: Switch sampling method to coring	
-22.4	21.0									RUN-1		16.5ft: white (5Y8/1), soft to hard, friable to indurated, strong HCl reaction, fossiliferous, locally interconnected vugs	
-27.4	26.0									RUN-2		21.0ft: hard, indurated, few to little vugs, porous	
-32.4	31.0									RUN-3		LIMESTONE, boundstone, white (5Y8/1), hard, indurated, strong HCl reaction, fossiliferous, recrystallized calcite, little vugs (Upper Fort Thompson Formation)	
-37.4	36.0									610(DH)-CS-01		28.5ft: loss of circulation	
-42.4	41.0									610(DH)-CS-02			
-47.4	46.0									RUN-4			
-52.4	51.0									RUN-5		36.0ft: coralline	
-57.4	56.0									RUN-6		41.0ft: white (5Y8/1) to light bluish gray (5PB7/1) at 45.5ft	
-62.4	61.0									RUN-7		46.0ft: light bluish gray (5PB7/1) to 48.3ft, horizontal bedding plane at 48.3ft	
-67.4	66.0									610(DH)-CS-04		LIMESTONE, boundstone, white (5Y8/1), hard, indurated, fossiliferous, porous, trace vugs, strong HCl reaction (Lower Fort Thompson Formation)	
-72.4	71.0									RUN-8		51.0ft: medium hard, moderately indurated 53.0 to 54.0ft: soft, friable	
										RUN-9		56.0ft: medium hard to hard, moderately indurated to indurated	
										RUN-10		61.0 to 62.4ft: soft, friable 62.4ft: hard, indurated, some sand	
										RUN-11		66.0ft: medium hard, moderately indurated to indurated	
										RUN-12		71.0ft: hard, indurated	

TURKEY POINT COL BORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 7:10 08



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-610(DH)		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR.	NA						
GROUND ELEV.: -1.4 ft (NAVD88)		NORTHING: 397,084 US ft (NAD83/90)		EASTING: 876,644 US ft (NAD83/90)		24 HR.	NA						
TOTAL DEPTH: 269.0 ft		BORING DIAMETER: 4" to 106.0', 3" to 269.0'		CASING DEPTH: 4" to 106.0'		HAMMER (ID): 140 lb. Auto (07)							
DATE STARTED: 3/24/08		COMPLETED: 4/2/08		CORE SIZE: HQ3		BITS USED: 2 15/16" & 3 7/8" Tricones							
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
-76.2					Continued from previous page								
-77.4	76.0												LIMESTONE, boundstone, white (5Y8/1), hard, indurated, fossiliferous, porous, trace vugs, strong HCl reaction (Lower Fort Thompson Formation) (continued)
-82.4	81.0									RUN-13 610(DH)-CS-05			81.0ft: few vugs, shell molds and casts 84.0 to 86.5ft: no recovery, soft layer-possible sand lense
-87.4	86.0									RUN-14			86.5ft: medium hard to hard, moderately indurated to indurated
-92.4	91.0									RUN-15			91.0ft. hard, indurated, little bivalve and gastropod shell molds and casts
-97.4	96.0									RUN-16			96.0ft. mostly bivalve and gastropod shell molds and casts
-102.4	101.0									RUN-17			
-107.4	106.0									RUN-18			
-112.4	111.0									RUN-19			106.0ft: trace sand
-117.4	116.0									RUN-20			
-117.4	116.0	6	5	4						610(DH)-8			114.9 113.5 POORLY SORTED SAND with silt (SP-SM), pale yellow (5Y8/2), loose, wet, fine to coarse grained sand, fine gravel, strong HCl reaction, trace limestone gravel-sized fragments (Tamiami Formation) 116.0ft: Switch sampling method to SPT
-123.9	122.5	3	4	5						610(DH)-9			122.5ft: trace shell fragments
-133.9	132.5	4	4	4						610(DH)-10			133.9 132.5 Silty SAND (SM), olive gray (5Y5/2), loose, wet, friable calcareous cemented sandstone fragments, strong HCl reaction, fine to medium grained sand, fine to coarse gravel
-143.9	142.5	6	4	7						610(DH)-11			142.5ft: medium dense

TURKEY POINT COL BORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 7:10:08



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-610(DH)		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR.	NA						
GROUND ELEV.: -1.4 ft (NAVD88)		NORTHING: 397,084 US ft (NAD83/90)		EASTING: 876,644 US ft (NAD83/90)		24 HR.	NA						
TOTAL DEPTH: 269.0 ft		BORING DIAMETER: 4" to 106.0', 3" to 269.0'		CASING DEPTH: 4" to 106.0'		HAMMER (ID): 140 lb. Auto (07)							
DATE STARTED: 3/24/08		COMPLETED: 4/2/08		CORE SIZE: HQ3		BITS USED: 2 15/16" & 3 7/8" Tricones							
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
-151.0					Continued from previous page								
-153.9	152.5	5	6	8									Silty SAND (SM), olive gray (5Y5/2), loose, wet, friable calcareous cemented sandstone fragments, strong HCl reaction, fine to medium grained sand, fine to coarse gravel (continued)
-163.9	162.5	4	3	8									
-173.9	172.5	3	3	9									172.5ft: light olive gray (5Y6/2)
-183.9	182.5	3	5	9									
-193.9	192.5	3	2	7									192.5ft: olive gray (5Y5/2), loose
-203.9	202.5	4	5	7									202.5ft: medium dense
-213.9	212.5	6	4	6									212.5ft: loose
-224.1	222.7	6	7	13									-217.4 Silty SAND (SM), light olive brown (5Y6/2), medium dense, wet, fine grained sand, strong HCl reaction (Hawthorn Group) 216.0

TURKEY POINT COL BORE TURKEY POINT GPI TURKEY POINT COL GDT 7.10.05



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-610(DH)		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR.	NA						
GROUND ELEV.: -1.4 ft (NAVD88)		NORTHING: 397,084 US ft (NAD83/90)		EASTING: 876,644 US ft (NAD83/90)		24 HR.	NA						
TOTAL DEPTH: 269.0 ft		BORING DIAMETER: 4" to 106.0', 3" to 269.0'		CASING DEPTH: 4" to 106.0'		HAMMER (ID): 140 lb. Auto (07)							
DATE STARTED: 3/24/08		COMPLETED: 4/2/08		CORE SIZE: HQ3		BITS USED: 2 15/16" & 3 7/8" Tricones							
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
-225.8					Continued from previous page								
-233.9	232.5	7	9	12									Silty SAND (SM), light olive brown (5Y6/2), medium dense, wet, fine grained sand, strong HCl reaction (Hawthorn Group) (continued)
-243.9	242.5	16	17	21									242.5ft: dense
-253.9	252.5	6	9	20									252.5ft: gray (5Y5/1), medium dense
-268.9	267.5	10	19	32									267.5ft: olive gray (5Y5/2), very dense
													Boring Terminated at Elevation -270.4 ft

TURKEY POINT COL BORE TURKEY POINT GPJ TURKEY POINT COL GDT 7/10/08



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) 0 HR. NA 24 HR. NA
BORING NO.: B-610(DH)		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		
GROUND ELEV.: -1.4 ft (NAVD88)		NORTHING: 397,084 US ft (NAD83/90)		EASTING: 876,644 US ft (NAD83/90)		
TOTAL DEPTH: 269.0 ft		CASING DEPTH: 4" to 106.0'			HAMMER (ID): 140 lb. Auto (07)	
DATE STARTED: 3/24/08		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		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC (ft) %	RQD (ft) %		REC (ft) %	RQD (ft) %		
										Begin Coring @ 16.5 ft
-17.9	16.5	4.5	1:38 0:33 0:17 0:20	(1.5) 33%	(1.0) 22%	RUN-1	(3.2) 38%	(1.4) 16%		LIMESTONE, boundstone, pale yellow (2.5Y7/3), very soft, wet, friable, some sand, strong HCl reaction, oolitic (Miami Formation) (continued) 16.5ft: white (5Y8/1), soft to hard, friable to indurated, strong HCl reaction, fossiliferous, locally interconnected vugs 21.0ft: hard, indurated, few to little vugs, porous
-22.4	21.0	5.0	0:13/0.5 0:41 0:11 0:07 0:09 1:27	(1.7) 34%	(0.4) 8%	RUN-2				
-27.4	26.0	5.0	0:59 1:05 1:11 2:01 2:21	(4.8) 96%	(4.8) 96%	RUN-3 610(DH)-CS-01 610(DH)-CS-02	(21.1) 91%	(17.8) 76%	-26.4	LIMESTONE, boundstone, white (5Y8/1), hard, indurated, strong HCl reaction, fossiliferous, recrystallized calcite, little vugs (Upper Fort Thompson Formation) 28.5ft: loss of circulation
-32.4	31.0	5.0	1:25 1:27 0:52 2:26 2:11	(4.0) 80%	(1.6) 32%	RUN-4				
-37.4	36.0	5.0	1:35 1:31 1:52 2:51 2:15	(5.0) 100%	(4.3) 86%	RUN-5				36.0ft: coralline
-42.4	41.0	5.0	2:11 2:59 2:45 2:39 2:41	(5.0) 100%	(5.0) 100%	RUN-6				41.0ft: white (5Y8/1) to light bluish gray (5PB7/1) at 45.5ft
-47.4	46.0	5.0	3:32 3:35 3:30 2:45 2:57	(5.0) 100%	(4.8) 96%	RUN-7 610(DH)-CS-04				46.0ft: light bluish gray (5PB7/1) to 48.3ft; horizontal bedding plane at 48.3ft
-52.4	51.0	5.0	1:40 1:11 0:28 1:10 1:16	(3.8) 76%	(3.1) 62%	RUN-8	(52.0) 80%	(36.1) 55%	-49.7	LIMESTONE, boundstone, white (5Y8/1), hard, indurated, fossiliferous, porous, trace vugs, strong HCl reaction (Lower Fort Thompson Formation) 51.0ft: medium hard, moderately indurated 53.0 to 54.0ft: soft, friable
-57.4	56.0	5.0	0:43 0:49 1:05 1:11 1:28	(3.6) 72%	(2.2) 44%	RUN-9				56.0ft: medium hard to hard, moderately indurated to indurated
-62.4	61.0	5.0	0:35 0:31 1:21 1:35 0:56	(4.5) 90%	(3.9) 78%	RUN-10				61.0 to 62.4ft: soft, friable 62.4ft: hard, indurated, some sand
-67.4	66.0	5.0	1:48 1:28 2:05 2:04 2:01	(4.4) 88%	(3.0) 60%	RUN-11				66.0ft: medium hard, moderately indurated to indurated
-72.4	71.0	5.0	1:11 1:05 1:20 1:35 1:46	(3.7) 74%	(2.5) 50%	RUN-12				71.0ft: hard, indurated
-77.4	76.0	5.0	0:09 0:47 1:14 1:14 1:59	(3.8) 76%	(3.0) 60%	RUN-13 610(DH)-CS-05				
-82.4	81.0	5.0	1:11 1:13 0:45 0:09 0:02	(2.7) 54%	(1.3) 26%	RUN-14				81.0ft: few vugs, shell molds and casts 84.0 to 86.5ft: no recovery, soft layer-possible sand lens
-87.4	86.0	5.0	0:30 1:01 1:20 2:05 2:01	(3.0) 60%	(1.1) 22%	RUN-15				86.5ft: medium hard to hard, moderately indurated to indurated
-92.4	91.0	5.0								

TURKEY POINT CORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 7/10/08



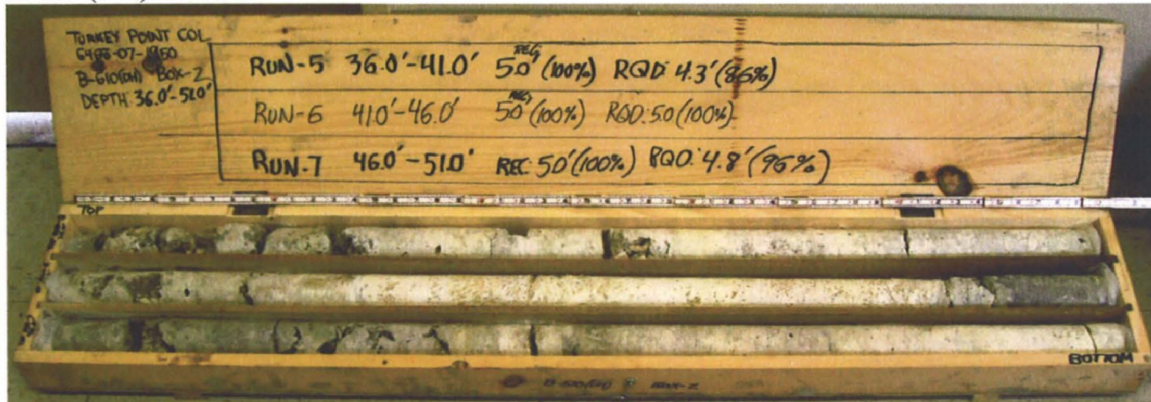
BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade	GEOLOGIST: R. Clark	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-750 (Miller)		DRILLER: G.Bilbrey/P.McKorkle/J.Tucker		GROUND WATER (ft)
BORING NO.: B-610(DH)		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA
GROUND ELEV.: -1.4 ft (NAVD88)		NORTHING: 397,084 US ft (NAD83/90)		EASTING: 876,644 US ft (NAD83/90)		24 HR. NA
TOTAL DEPTH: 269.0 ft		CASING DEPTH: 4" to 106.0'			HAMMER (ID): 140 lb. Auto (07)	
DATE STARTED: 3/24/08		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		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC (ft) (%)	RQD (ft) (%)		REC (ft) (%)	RQD (ft) (%)		
										Continued from previous page
-97.4	96.0	5.0	0:31 1:04 1:10 1:20 1:12	(4.0) 80%	(2.6) 52%	RUN-16				91.0ft: hard, indurated, little bivalve and gastropod shell molds and casts LIMESTONE, boundstone, white (5Y8/1), hard, indurated, fossiliferous, porous, trace vugs, strong HCl reaction (Lower Fort Thompson Formation) (continued)
-102.4	101.0	5.0	1:01 0:54 0:59 1:04 1:38	(4.2) 84%	(2.7) 54%	RUN-17				96.0ft: mostly bivalve and gastropod shell molds and casts
-107.4	106.0	5.0	1:24 0:58 1:21 1:22 1:25	(5.0) 100%	(4.0) 80%	RUN-18				106.0ft: trace sand
-112.4	111.0	5.0	1:23 1:14 1:01 1:28 1:22	(4.5) 90%	(3.3) 66%	RUN-19				
-117.4	116.0	5.0	0:42 0:14 1:04 0:48 0:33	(2.1) 42%	(0.7) 14%	RUN-20	(0.0) 0%	(NA)		-114.9 -117.4 POORLY SORTED SAND with silt (SP-SM), pale yellow (5Y8/2), loose, wet, fine to coarse grained sand, fine gravel, strong HCl reaction, trace limestone gravel-sized fragments (Tamiami Formation) Coring Terminated at Elevation -117.4 113.5 116.0

TURKEY POINT COL CORE: TURKEY POINT.GPJ TURKEY POINT COL.GDT 7/10/08



B-610 (DH) - Box 1



B-610 (DH) - Box 2



B-610 (DH) - Box 3



B-610 (DH) - Box 4



B-610 (DH) – Box 5



B-610 (DH) – Box 6



BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: H. Lyatuu/G. Pillappa								
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550 (CLT)		DRILLER: Warren/Banks/Sloan/Rosser		GROUND WATER (ft)								
BORING NO.: B-611		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR.	NA							
GROUND ELEV.: -1.5 ft (NAVD88)		NORTHING: 397,087 US ft (NAD83/90)		EASTING: 876,735 US ft (NAD83/90)		24 HR.	NA							
TOTAL DEPTH: 151.5 ft		BORING DIAMETER: 4" to 25.0', 3" to 151.5'		CASING DEPTH: 4" to 25.0', 3" to 120.1'		HAMMER (ID): 140 lb. Auto (MEC-04)								
DATE STARTED: 2/26/08		COMPLETED: 3/24/08		CORE SIZE: HQ3		BITS USED: 2 15/16" & 2 7/8" Tricones								
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
-1.5	0.0	WOH	WOH	WOH	Ground Surface					611-1			-1.5	0.0
-4.0	2.5	4	15	22	SEE LEGEND FOR ROCK HARDNESS CRITERIA BASED ON SPT DATA					611-2			-3.5	2.0
-6.5	5.0	9	8	9						611-3				
-9.0	7.5	6	5	6						611-4				
-11.5	10.0	4	8	21						611-5				
-14.0	12.5	4	21	25						611-6				
-16.5	15.0	3	6	34						611-7				
-21.5	20.0	5	6	9						611-8				
-26.5	25.0	16	50/0.4							611-9			-25.5	24.0
-27.4	25.9									RUN-1				
-32.4	30.9									RUN-2				
-37.4	35.9									RUN-3				
-41.1	39.6									611-CS-02				
-43.0	41.5									RUN-4				
-46.6	45.1									RUN-5				
-51.6	50.1									611-CS-03				
-56.6	55.1									RUN-6				
-61.6	60.1									RUN-7			-49.4	47.9
-66.6	65.1									RUN-8				
-71.6	70.1									RUN-9				
										RUN-10				
										611-CS-05				
										RUN-11				

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



BECHTEL PROJECT NO.: 25409	MACTEC PROJECT NO.: 6468-07-1950	COUNTY: Miami-Dade	GEOLOGIST: H. Lyatuu/G. Pillappa
SITE DESCRIPTION: Turkey Point COL	DRILL MACHINE: CME-550 (CLT)	DRILLER: Warren/Banks/Sloan/Rosser	GROUND WATER (ft) 0 HR. NA 24 HR. NA
BORING NO.: B-611	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	
GROUND ELEV.: -1.5 ft (NAVD88)	NORTHING: 397,087 US ft (NAD83/90)	EASTING: 876,735 US ft (NAD83/90)	
TOTAL DEPTH: 151.5 ft	BORING DIAMETER: 4" to 25.0', 3" to 151.5'	CASING DEPTH: 4" to 25.0', 3" to 120.1'	HAMMER (ID): 140 lb. Auto (MEC-04)
DATE STARTED: 2/26/08	COMPLETED: 3/24/08	CORE SIZE: HQ3	BITS USED: 2 15/16" & 2 7/8" Tricones

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
-76.3		Continued from previous page											
-76.6	75.1										RUN-12	 LIMESTONE, boundstone, white (10YR8/1), to white (5YR8/1), hard, indurated, strong HCl reaction, trace shells, few vugs (Lower Fort Thompson Formation) (<i>continued</i>) Silty SAND (SM), white (5Y8/1), wet, some shell fragments, strong HCl reaction, grades to limestone LIMESTONE, boundstone, white (5Y8/1), hard, indurated, sandy, fossiliferous, strong HCl reaction, few vugs, little shell molds and casts Silty SAND with gravel (SM), light brownish gray (10YR6/2), medium dense, wet, fine to coarse grained sand, fine to coarse gravel, weak HCl reaction (Tamiami Formation)	
-81.6	80.1										RUN-13		
-86.6	85.1										RUN-14		
-91.6	90.1										RUN-15		
-96.6	95.1										611-CS-06		
-101.6	100.1										RUN-16		
-106.6	105.1										RUN-17		
-111.6	110.1										RUN-18		
-116.6	115.1										611-CS-07		
-121.6	120.1										RUN-19		
-121.6	120.1	6	8	10							611-10		
-132.5	131.0										RUN-20		
-132.5	131.0	5	9	9							611-11		
-141.5	140.0										RUN-20		
-141.5	140.0	4	4	4							611-12		
													120.1ft: Switch sampling method to SPT
													140.0ft: olive gray (5Y5/2), loose

TURKEY POINT COL BORE TURKEY POINT G.P.J. TURKEY POINT COL GDT 5/30/08



BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950			COUNTY: Miami-Dade		GEOLOGIST: H. Lyatuu/G. Pillappa							
SITE DESCRIPTION: Turkey Point COL				DRILL MACHINE: CME-550 (CLT)		DRILLER: Warren/Banks/Sloan/Rosser			GROUND WATER (ft)					
BORING NO.: B-611				DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core			0 HR. NA					
GROUND ELEV.: -1.5 ft (NAVD88)		NORTHING: 397,087 US ft (NAD83/90)			EASTING: 876,735 US ft (NAD83/90)		24 HR. NA							
TOTAL DEPTH: 151.5 ft		BORING DIAMETER: 4" to 25.0', 3" to 151.5'		CASING DEPTH: 4" to 25.0', 3" to 120.1'		HAMMER (ID):140 lb. Auto (MEC-04)								
DATE STARTED: 2/26/08		COMPLETED: 3/24/08		CORE SIZE: HQ3		BITS USED: 2 15/16" & 2 7/8" Tricones								
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
-151.1					Continued from previous page									
-151.5	150.0	9	9	13	22					611-13			-153.0 150.0ft: medium dense Boring Terminated at Elevation -153.0 ft	151.5

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