



BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: L. Bisson	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550 (ATL)		DRILLER: L. Carter/ J. Landeros		GROUND WATER (ft)	
BORING NO.: B-607		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA	
GROUND ELEV.: -1.5 ft (NAVD88)		NORTHING: 396,830 US ft (NAD83/90)		EASTING: 876,644 US ft (NAD83/90)		24 HR. NA	
TOTAL DEPTH: 152.5 ft		CASING DEPTH: 4" to 16.0', 3" to 120.0'				HAMMER (ID): 140 lb. Auto (MEC-03)	
DATE STARTED: 3/7/08		COMPLETED: 3/9/08		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 (%)		REC (%)	ROD (%)		
										Begin Coring @ 16.0 ft
-17.5	16.0	2.3	1:54	(2.3)	(1.3)	RUN-1	(7.3)	(6.1)		LIMESTONE, boundstone, pale yellow (2.5Y8/2), soft, wet, trace fines, fossiliferous, strong HCl reaction, oolitic (Miami Formation) (continued) 16.0ft: white (2.5Y8/1), hard, indurated, trace fines, fossiliferous, strong HCl reaction, locally interconnected vugs
-19.8	18.3	5.0	0:39/0:3	100%	57%		91%	76%		
			1:08	(5.0)	(4.8)	RUN-2				
			1:02	100%	96%					
			0:47							
-24.8	23.3	5.0	0:36	(3.8)	(3.3)	RUN-3	(23.2)	(21.5)		LIMESTONE, boundstone, very pale brown (10YR8/2), hard, indurated, fossiliferous, trace fines, strong HCl reaction, trace vugs (Upper Fort Thompson Formation)
			1:01	76%	66%		98%	91%		
			0:27			607-CS-01				
			0:17							
			0:28							
-29.8	28.3	5.0	0:28	(5.0)	(4.6)	RUN-4				
			0:35	100%	92%					
			0:43							
			0:58							
			1:02							
-34.8	33.3	5.0	1:03	(5.0)	(4.9)	RUN-5				33.3ft: white (2.5Y8/1), extremely indurated, recrystallized calcite, few vugs
			0:59	100%	98%					
			0:49			607-CS-02				
			1:11							
			1:01							
-39.8	38.3	5.0	1:32	(5.0)	(4.7)	RUN-6				38.3ft: indurated
			1:48	100%	94%					
			1:28			607-CS-03				
			1:54							
			1:57							
-44.8	43.3	5.0	1:36	(5.0)	(4.6)	RUN-7				43.3ft: moderately hard, trace sand
			0:56	100%	92%					
			0:30							
			1:33							
			1:28							
-49.8	48.3	5.0	2:39	(5.0)	(4.5)	RUN-8	(53.4)	(36.3)		LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, fossiliferous, trace to few vugs, strong HCl reaction (Lower Fort Thompson Formation)
			1:43	100%	90%		79%	54%		
			0:52			607-CS-04				
			1:07							
			1:25							
-54.8	53.3	5.0	1:10	(3.1)	(3.0)	RUN-9				53.3ft: medium hard to hard
			1:00	62%	60%					
			0:31							
			0:40							
			0:48							
-59.8	58.3	5.0	0:16	(5.0)	(3.8)	RUN-10				58.3ft: hard, trace vugs
			1:52	100%	76%					
			1:02			607-CS-05				
			0:53							
			1:17							
-64.8	63.3	5.0	0:59	(3.0)	(0.7)	RUN-11				63.3ft: moderately hard, moderately indurated, sandy
			0:49	60%	14%					
			0:30							
			0:08							
			0:43							
-69.8	68.3	5.0	0:39	(3.0)	(0.8)	RUN-12				68.3ft: light gray (2.5Y7/2), indurated
			0:25	60%	16%					
			0:22							
			1:02							
			0:15							
-74.8	73.3	5.0	2:04	(1.7)	(0.4)	RUN-13				73.3ft: white (2.5Y8/1)
			1:31	34%	8%					
			0:44							
			1:09							
			0:48							
-79.8	78.3	2.0	1:09	(1.3)	(0.8)	RUN-14				78.3ft: moderately indurated
			1:56	65%	40%					
			1:08							
			1:09							
-81.8	80.3	3.0	1:08	(3.0)	(1.9)	RUN-15				80.3ft: hard, indurated, trace sand, few vugs
			1:48	100%	63%					
			1:09							
-84.8	83.3	5.0	0:44	(4.7)	(3.4)	RUN-16				
			0:34	94%	68%					
			1:42							
			1:42							
-89.8	88.3	5.0	1:09	(5.0)	(3.3)	RUN-17				88.3ft: moderately hard to hard
			0:58	100%	66%					
			0:51							

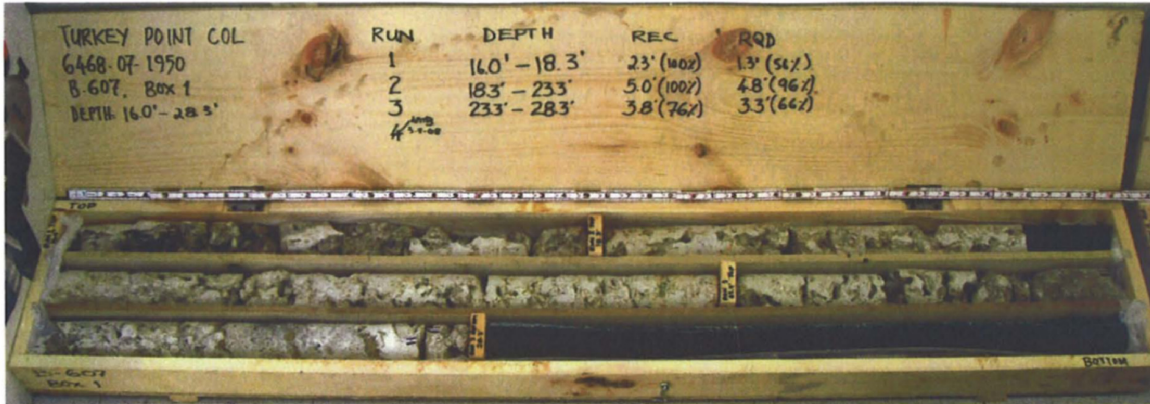
TURKEY POINT COL CORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 7:10:08



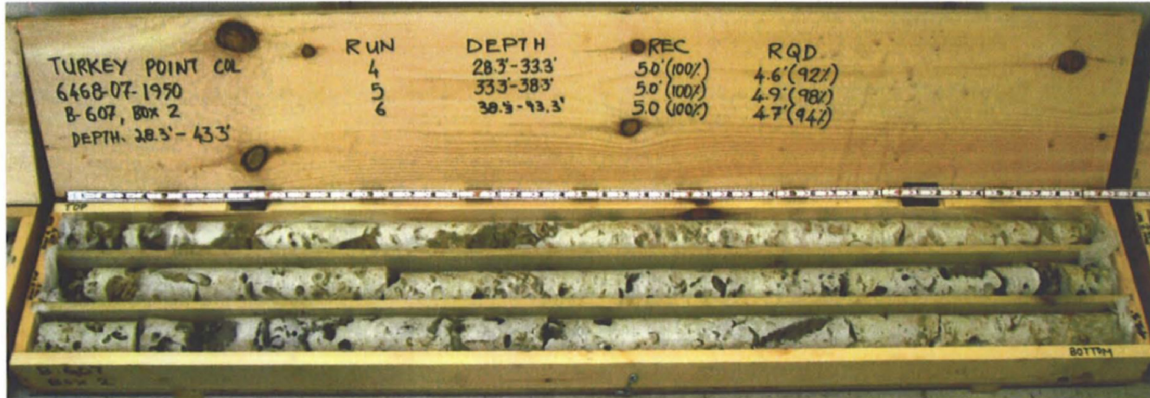
BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: L. Bisson	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550 (ATL)		DRILLER: L. Carter/ J. Landeros			GROUND WATER (ft) 0 HR. NA 24 HR. NA
BORING NO.: B-607		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core			
GROUND ELEV.: -1.5 ft (NAVD88)		NORTHING: 396,830 US ft (NAD83/90)		EASTING: 876,644 US ft (NAD83/90)			
TOTAL DEPTH: 152.5 ft		CASING DEPTH: 4" to 16.0', 3" to 120.0'				HAMMER (ID): 140 lb. Auto (MEC-03)	
DATE STARTED: 3/7/08		COMPLETED: 3/9/08		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) %		
			0.54 0.55 0.33							Continued from previous page
-94.8	93.3	5.0	0.19 0.50 1.07 1.40 1.39	(4.2) 84%	(3.7) 74%	RUN-18				LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, fossiliferous, trace to few vugs, strong HCl reaction (Lower Fort Thompson Formation) (continued)
-99.8	98.3	5.0	0.40 1.50 1.45 1.58 0.58	(5.0) 100%	(3.5) 70%	RUN-19 607-CS-06				
-104.8	103.3	5.0	0.40 1.02 0.59 0.47 0.56	(5.0) 100%	(4.3) 86%	RUN-20				
-109.8	108.3	5.0	0.30 0.34 0.38 0.50 0.55	(3.8) 76%	(1.6) 32%	RUN-21				108.3ft: hard to soft, indurated to friable
-114.8	113.3	5.0	0.42 0.32 0.24 0.08 0.10	(0.0) 0%	(0.0) 0%	RUN-22	(0.0) 0%	(NA)		
-119.8	118.3									-116.5 Silty SAND (SM), light gray (2.5Y7/1), medium dense, wet, fine grained sand, strong HCl reaction, trace shell fragments (Tamiami Formation) -119.8 Coring Terminated at Elevation -119.8

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



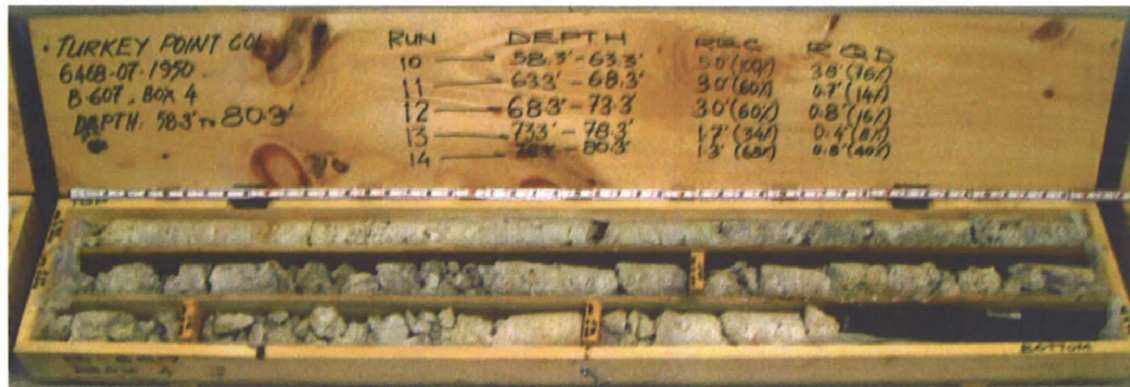
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B-607 - Box 2



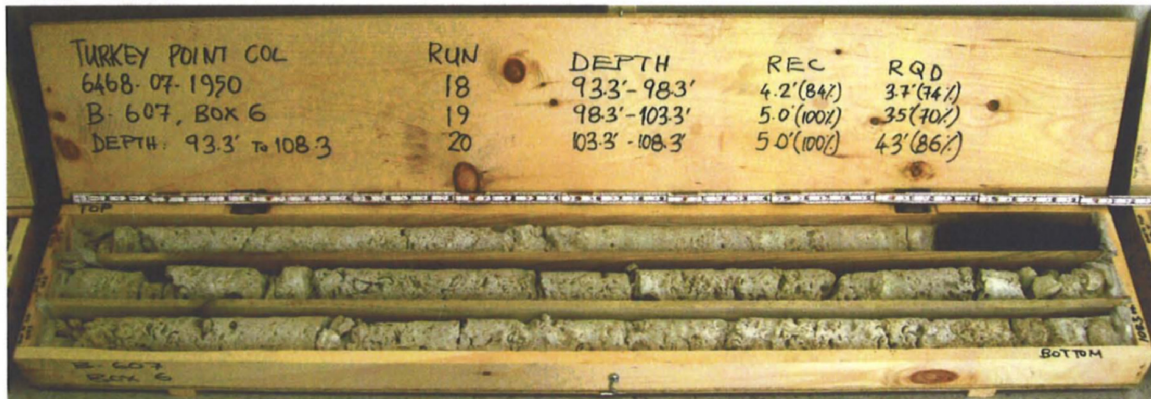
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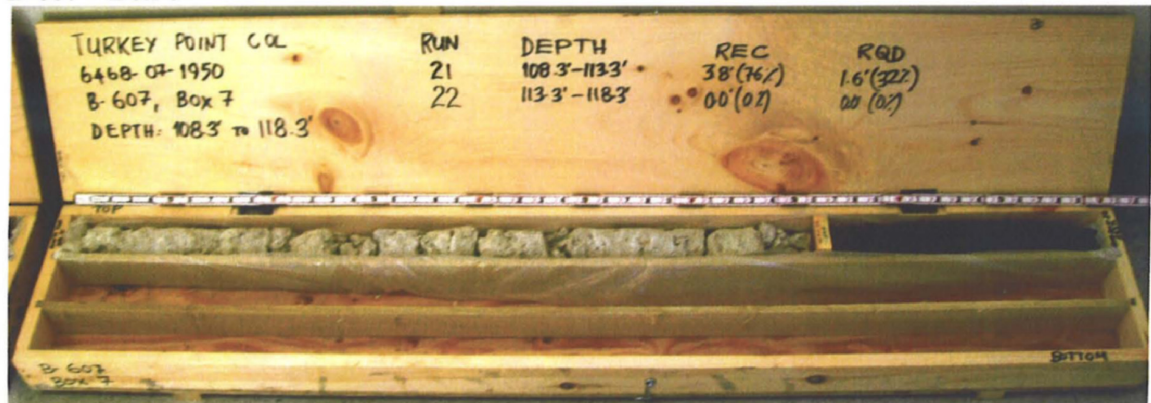
B-607 - Box 4



B-607 - Box 5



B-607 - Box 6



B-607 - Box 7



GEOTECHNICAL BORING LOG

Prepared By APZ Date 5-30-08

Checked By [Signature] Date 9-22-08

SHEET 1 OF 4

BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: S. Woodham/B. Taylor							
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550X (ATL)		DRILLER: R. Landeros/ N. Rodriguez		GROUND WATER (ft)							
BORING NO.: B-608(DH)		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR.	NA						
GROUND ELEV.: -1.5 ft (NAVD88)		NORTHING: 396,830 US ft (NAD83/90)		EASTING: 876,736 US ft (NAD83/90)		24 HR.	NA						
TOTAL DEPTH: 265.4 ft		BORING DIAMETER: 5" to 34.0', 4" to 265.4'		CASING DEPTH: 4" to 117.0'		HAMMER (ID): 140 lb. Auto (MEC-05)							
DATE STARTED: 3/25/08		COMPLETED: 4/2/08		CORE SIZE: HQ3		BITS USED: 4 7/8" & 3 7/8" Roller Cones							
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
-1.5	0.0	WOH	WOH	WOH	Ground Surface							-1.5	0.0
-5.0	3.5	2	9	7	SEE LEGEND FOR ROCK HARDNESS CRITERIA BASED ON SPT DATA					608(DH)-1		Muck; no recovery	
-7.5	6.0	6	7	6						608(DH)-2A&B		3.5ft: very dark brown (10YR2/2), very soft, wet, organics	4.5
-10.0	8.5	12	12	2						608(DH)-3		LIMESTONE, very pale yellow (10YR8/2), very soft, wet, strong HCl reaction, trace fines, oolitic (Miami Formation)	
-12.0	10.5	5	3	2						608(DH)-4		8.5ft: light gray (7.5YR7/1)	
-15.0	13.5	10	7	10						608(DH)-5		10.5ft: white (2.5Y8/1)	
-20.0	18.5	24	25	10						608(DH)-6			
-25.0	23.5	18	10	7						608(DH)-7		18.5ft: medium hard	
-30.0	28.5	1	2	1						608(DH)-8		23.5ft: very soft	26.0
-34.0	32.5	31	7	17						608(DH)-9		LIMESTONE, boundstone, pale yellow (5Y8/3), very soft, wet, coarse grained sand, strong HCl reaction (Upper Fort Thompson Formation)	
-35.5	34.0									608(DH)-10		26.0ft: loss of circulation	
-38.8	37.3									RUN-1		32.5ft: white (2.5Y8/1), soft	
-43.8	42.3									RUN-2		34.0ft: Switch sampling method to coring	
-48.8	47.3									608(DH)-CS-01		34.0ft: white (10YR8/1), hard, indurated, fossiliferous, strong HCl reaction, trace calcite recrystallization, coralline, little vugs	
-53.8	52.3									RUN-3			
-58.8	57.3									608(DH)-CS-02		42.3ft: white (10YR8/1) to gray (10YR6/1) at 44.4ft to 46.8ft	46.8
-63.8	62.3									RUN-4		LIMESTONE, boundstone, white (10YR8/1), moderately hard to hard, moderately indurated, fossiliferous, few vugs, strong HCl reaction (Lower Fort Thompson Formation)	
-68.8	67.3									RUN-5		52.3ft: trace vugs, trace recrystallized calcite, trace coarse grained sand	
-73.8	72.3									RUN-6		57.3ft: few vugs, few coarse grained sand	
										RUN-7		62.3ft: soft to moderately hard, friable to moderately indurated, some coarse grained sand	
										RUN-8		67.3ft: moderately hard, moderately indurated, few vugs	
										RUN-9		72.3ft: moderately hard to hard, moderately indurated, trace vugs	

TURKEY POINT COL. BORE. TURKEY POINT GP. TURKEY POINT COL. GDT. 5-30-08



BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950			COUNTY: Miami-Dade		GEOLOGIST: S. Woodham/B. Taylor					
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550X (ATL)			DRILLER: R. Landeros/ N. Rodriguez			GROUND WATER (ft)				
BORING NO.: B-608(DH)		DRILL METHOD: Mud Rotary/ Core			SAMPLE METHODS: SPT/Core			0 HR. NA				
GROUND ELEV.: -1.5 ft (NAVD88)		NORTHING: 396,830 US ft (NAD83/90)			EASTING: 876,736 US ft (NAD83/90)			24 HR. NA				
TOTAL DEPTH: 265.4 ft		BORING DIAMETER: 5" to 34.0', 4" to 265.4'			CASING DEPTH: 4" to 117.0'			HAMMER (ID): 140 lb. Auto (MEC-05)				
DATE STARTED: 3/25/08		COMPLETED: 4/2/08			CORE SIZE: HQ3		BITS USED: 4 7/8" & 3 7/8" Roller Cones					
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION
		0.5ft	0.5ft	0.5ft	0	20	40	60	80			
-76.3					Continued from previous page							
-78.8	77.3											LIMESTONE, boundstone, white (10YR8/1), moderately hard to hard, moderately indurated, fossiliferous, few vugs, strong HCl reaction (Lower Fort Thompson Formation) (continued)
-83.8	82.3											77.3ft: moderately hard to hard, indurated, few vugs
-88.8	87.3											82.3ft: hard, indurated
-93.8	92.3											87.3ft: moderately hard, moderately indurated
-98.8	97.3											92.3ft: hard, indurated
-103.8	102.3											97.3ft: moderately hard to hard, few vugs, few to little shell molds and casts
-108.8	107.3											102.3 to 103.3ft: sand layer
-113.8	112.3											
-119.3	117.8	8	4	7								117.8ft: Switch sampling method to SPT
-130.0	128.5	4	6	7								128.5ft: greenish gray (10Y6/1), moist, strong HCL reaction
-139.5	138.0	5	9	8								
-149.5	148.0	8	12	16								

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



BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: S. Woodham/B. Taylor	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550X (ATL)		DRILLER: R. Landeros/ N. Rodriguez		GROUND WATER (ft)	
BORING NO.: B-608(DH)		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA	
GROUND ELEV.: -1.5 ft (NAVD88)		NORTHING: 396,830 US ft (NAD83/90)		EASTING: 876,736 US ft (NAD83/90)		24 HR. NA	
TOTAL DEPTH: 265.4 ft		BORING DIAMETER: 5" to 34.0', 4" to 265.4'		CASING DEPTH: 4" to 117.0'		HAMMER (ID): 140 lb. Auto (MEC-05)	
DATE STARTED: 3/25/08		COMPLETED: 4/2/08		CORE SIZE: HQ3		BITS USED: 4 7/8" & 3 7/8" Roller Cones	

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
-151.1													Continued from previous page
-159.5	158.0	4	8	10									POORLY GRADED SAND with silt (SP-SM), greenish gray (10Y6/1), medium dense, moist, strong HCl reaction, fine to medium grained sand, trace shell fragments (continued)
-169.5	168.0	5	8	10									168.0ft: dark greenish gray (5GY4/1), weak HCl reaction
-179.5	178.0	3	5	13									178.0ft: Sandy SILT (ML), dark greenish gray (5GY4/1), very stiff, moist, fine grained sand, strong HCl reaction
-189.5	188.0	3	4	9									188.0ft: weak HCl reaction
-199.5	198.0	3	5	7									
-209.5	208.0	5	4	9									208.0ft: strong HCl reaction
-219.5	218.0	7	11	11									218.0ft: Silty SAND (SM), greenish gray (10Y6/1), medium dense, moist, fine grained sand, strong HCl reaction (Hawthorn Group)

TURKEY POINT COL BORE TURKEY POINT.GPJ TURKEY POINT COL.GDF 5:30:08



BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: S. Woodham/B. Taylor	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550X (ATL)		DRILLER: R. Landeros/ N. Rodriguez		GROUND WATER (ft)	
BORING NO.: B-608(DH)		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA	
GROUND ELEV.: -1.5 ft (NAVD88)		NORTHING: 396,830 US ft (NAD83/90)		EASTING: 876,736 US ft (NAD83/90)		24 HR. NA	
TOTAL DEPTH: 265.4 ft		BORING DIAMETER: 5" to 34.0', 4" to 265.4'		CASING DEPTH: 4" to 117.0'		HAMMER (ID):140 lb. Auto (MEC-05)	

DATE STARTED: 3/25/08	COMPLETED: 4/2/08	CORE SIZE: HQ3	BITS USED: 4 7/8" & 3 7/8" Roller Cones
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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								
-225.9					Continued from previous page													
-229.5	228.0	24	48	50/0.3													Silly SAND (SM), greenish gray (10Y6/1), medium dense, moist, fine grained sand, strong HCl reaction (Hawthorn Group) (continued) 228.0ft: very dense, fine to medium grained sand	
-240.4	238.9	12	21	24													238.9ft: dark greenish gray (10Y4/1), dense, weak HCl reaction	
-250.4	248.9	19	27	27													248.9ft: greenish gray (10Y5/1), very dense, fine to medium grained sand, trace shell fragments, strong HCl reaction	
-265.4	263.9	12	21	27													263.9ft: dense	
																	Boring Terminated at Elevation -266.9 ft	

TURKEY POINT COL BORE: TURKEY POINT.GPJ TURKEY POINT COL.GDI 5-30-08





BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade	GEOLOGIST: S. Woodham/B. Taylor	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550X (ATL)		DRILLER: R. Landeros/ N. Rodriguez		GROUND WATER (ft) 0 HR. NA 24 HR. NA
BORING NO.: B-608(DH)		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		
GROUND ELEV.: -1.5 ft (NAVD88)		NORTHING: 396,830 US ft (NAD83/90)		EASTING: 876,736 US ft (NAD83/90)		
TOTAL DEPTH: 265.4 ft		CASING DEPTH: 4" to 117.0'			HAMMER (ID): 140 lb. Auto (MEC-05)	
DATE STARTED: 3/25/08		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 @ 34.0 ft
-35.5	34.0	3.3	0.36	(2.6)	(0.9)	RUN-1	(12.1)	(8.3)		LIMESTONE, boundstone, pale yellow (5Y8/3), very soft, wet, coarse grained sand, strong HCl reaction (Upper Fort Thompson Formation)
-38.8	37.3		0.36 1.07	79%	27%		95%	65%		
		5.0	1:00/0.3	(5.0)	(3.2)	RUN-2				26.0ft: loss of circulation ( <i>continued</i> ) 34.0ft: white (10YR8/1), hard, indurated, fossiliferous, strong HCl reaction, trace calcite recrystallization, coralline, little vugs
			0.30 0.35 0.44 1.07 1.56	100%	64%					
-43.8	42.3	5.0		(5.0)	(4.7)	608(DH)-CS-01				42.3ft: white (10YR8/1) to gray (10YR6/1) at 44.4ft to 46.8ft
		5.0	1.03 1.08 0.38 0.44 1.06	100%	94%	RUN-3 608(DH)-CS-02				
-48.8	47.3								-48.3	46.8
		5.0	0.44 0.47 1.24 1.00 0.45	(5.0)	(4.5)	RUN-4	(47.6)	(25.5)		LIMESTONE, boundstone, white (10YR8/1), moderately hard to hard, moderately indurated, fossiliferous, few vugs, strong HCl reaction (Lower Fort Thompson Formation)
-53.8	52.3			100%	90%		70%	37%		
		5.0	1:20 1:15 0.57 0.56 0.54	(5.0)	(3.9)	RUN-5				52.3ft: trace vugs, trace recrystallized calcite, trace coarse grained sand
-58.8	57.3			100%	78%					
		5.0	0.26 0.26 0.36 0.17 0.14	(3.5)	(1.2)	RUN-6				57.3ft: few vugs, few coarse grained sand
-63.8	62.3			70%	24%					
		5.0	0.47 0.49 1.03 0.45 1.43	(2.8)	(0.0)	RUN-7				62.3ft: soft to moderately hard, friable to moderately indurated, some coarse grained sand
-68.8	67.3			56%	0%					
		5.0	1:10 1:02 0.37 0.59 0.25	(3.1)	(1.9)	RUN-8				67.3ft: moderately hard, moderately indurated, few vugs
-73.8	72.3			62%	38%					
		5.0	0.28 0.57 0.18 0.53 0.57	(3.4)	(0.9)	RUN-9				72.3ft: moderately hard to hard, moderately indurated, trace vugs
-78.8	77.3			68%	18%					
		5.0	1:06 0.39 0.36 0.31 0.37	(4.3)	(3.0)	RUN-10				77.3ft: moderately hard to hard, indurated, few vugs
-83.8	82.3			86%	60%					
		5.0	0.45 0.05 0.29 0.39 0.39	(0.3)	(0.0)	RUN-11				82.3ft: hard, indurated
-88.8	87.3			6%	0%					
		5.0	0.13 0.11 0.17 0.30 0.30	(1.1)	(0.0)	RUN-12				87.3ft: moderately hard, moderately indurated
-93.8	92.3			22%	0%					
		5.0	0.20 0.29 0.15 0.07 0.29	(3.6)	(1.0)	RUN-13				92.3ft: hard, indurated
-98.8	97.3			72%	20%					
		5.0	0.33 0.22 0.23 0.25 0.30	(4.8)	(3.3)	RUN-14				97.3ft: moderately hard to hard, few vugs, few to little shell molds and casts
-103.8	102.3			96%	66%					
		5.0	0.34 0.27 0.31 0.44	(5.0)	(4.2)	RUN-15				102.3 to 103.3ft: sand layer
-108.8	107.3			100%	84%					
		5.0	0.26	(3.2)	(1.1)	608(DH)-CS-03 RUN-16				

TURKEY POINT COL CORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 5/30/08



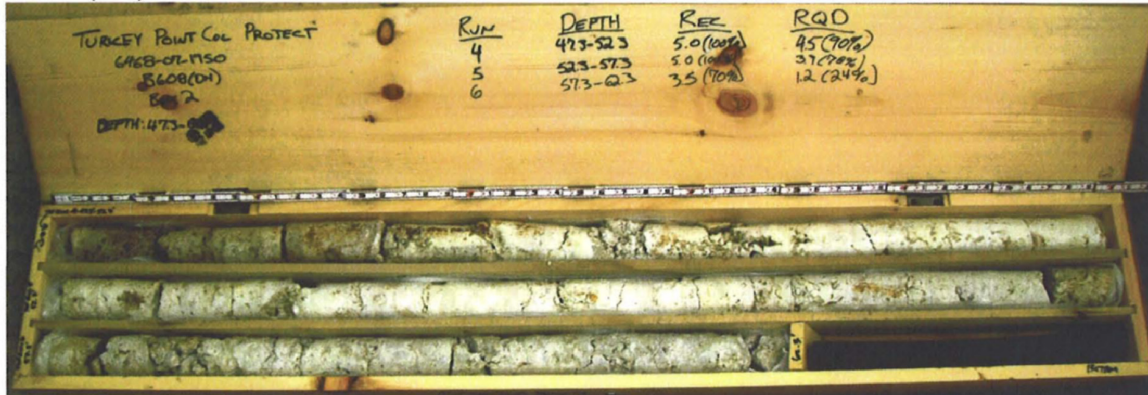
BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade	GEOLOGIST: S. Woodham/B. Taylor	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550X (ATL)		DRILLER: R. Landeros/ N. Rodriguez		GROUND WATER (ft) 0 HR. NA 24 HR. NA
BORING NO.: B-608(DH)		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		
GROUND ELEV.: -1.5 ft (NAVD88)		NORTHING: 396,830 US ft (NAD83/90)		EASTING: 876,736 US ft (NAD83/90)		
TOTAL DEPTH: 265.4 ft		CASING DEPTH: 4" to 117.0'			HAMMER (ID): 140 lb. Auto (MEC-05)	
DATE STARTED: 3/25/08		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
-113.8	112.3	5.0	0.30 0.40 0.18 0.48	64%	22%	RUN-17				LIMESTONE, boundstone, white (10YR8/1), moderately hard to hard, moderately indurated, fossiliferous, few vugs, strong HCl reaction (Lower Fort Thompson Formation) (continued)
-118.8	117.3		0.38 1.02 0.27 0.12 0.20	(2.0) 40%	(0.0) 0%		(0.0) 0%	(NA)		Silty SAND (SM), pale yellow (2.5Y8/2), medium dense, wet, fine to medium grained sand (Tamiami Formation)
										-116.5 ----- 115.0 -118.8 Coring Terminated at Elevation -118.8

TURKEY POINT COL CORE. TURKEY POINT.GPJ TURKEY POINT COL.GDT 5/30/08



B-608 (DH) – Box 1



B-608 (DH) – Box 2



B-608 (DH) – Box 3



B-608 (DH) – Box 4



B-608 (DH) - Box 5



GEOTECHNICAL BORING LOG

Prepared By JPH Date 5-30-08

Checked By [Signature] Date 5-31-08

SHEET 1 OF 3

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		BORING DIAMETER: 4" to 25.0', 3" to 150.7'		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		BITS USED: 4" & 3" Roller Cones									
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					Ground Surface									0.0	
-1.5	0.0	WOR	WOR	WOR	0						609-1			-1.5	MUCK, very pale brown (10Y3/4), to very dark gray (10YR3/1), very soft, wet, mostly organic, strong HCl reaction
-4.0	2.5	WOH	3	5	8						609-2			-3.5	LIMESTONE, boundstone, white (2.5Y8/1), very soft, wet, strong HCl reaction, oolitic (Miami Formation)
-6.5	5.0	6	6	5	11						609-3			-2.0	5.0ft: white (10YR8/1) 7.5ft: fossiliferous
-9.0	7.5	2	2	3	5						609-4				
-11.5	10.0	3	10	19	29						609-5				10.0ft: soft
-14.0	12.5	9	16	20	36						609-6				12.5ft: white (2.5Y8/1), medium hard
-16.5	15.0	7	19	15	34						609-7				15.0ft: white (10Y8/1)
-20.7	19.2	5	16	14	30						609-8				19.2ft: white (2.5Y8/1), soft
-25.7	24.2										609-9			-25.5	LIMESTONE, boundstone, white (10YR8/1), hard, wet, fossiliferous, strong HCl reaction (Upper Fort Thompson Formation)
-26.8	25.3	6	48	50/0.1	98/0.6						RUN-1			-24.0	25.3ft: Switch sampling method to coring
-29.6	28.1										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										RUN-3				33.1ft: white (10YR8/1)
-39.6	38.1										RUN-4				38.1ft: white (2.5Y8/1), recrystallized calcite
-44.6	43.1										RUN-5				43.1ft: white (2.5Y8/1), to gray (10YR6/1) from 46.1ft to 47.9ft
-49.6	48.1										RUN-6 609-CS-04			-49.4	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										RUN-7				48.1ft: white (10YR8/1), trace vugs
-59.6	58.1										RUN-8				
-64.6	63.1										RUN-9				
-65.6	64.1										RUN-10				
-66.1	64.6										RUN-11				
-69.6	68.1										RUN-12				
-73.6	72.1										RUN-13				
-74.6	73.1										RUN-14				

TURKEY POINT COL BORE, TURKEY POINT GP, TURKEY POINT COL, GDI, S-30-08



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		BORING DIAMETER: 4" to 25.0', 3" to 150.7'		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		BITS USED: 4" & 3" Roller Cones						
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION
		0.5ft	0.5ft	0.5ft	0	20	40	60	80			
-76.3					Continued from previous page							
-78.0	76.5											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) 76.5ft: white (2.5Y8/1)  88.1ft: white (10YR8/1), few vugs  98.1ft: white (7.5YR8/1)  100.1ft: white (2.5Y8/1), few vugs, little shell molds and casts  108.1ft: white (10YR8/1)  113.0ft: Silty SAND (SM), light gray (7.5YR7/1), medium dense, wet, fine grained sand, strong HCl reaction (Tamiami Formation)  119.3ft: Switch sampling method to SPT  129.3ft: greenish gray (10Y6/1), loose  139.2ft: medium dense, weak HCl reaction
-79.6	78.1											
-84.6	83.1											
-89.6	88.1											
-94.6	93.1											
-97.6	96.1											
-99.6	98.1											
-101.5	100.0											
-104.6	103.1											
-109.6	108.1											
-113.6	112.1											
-114.6	113.1											
-120.8	119.3	3	6	12								
-130.8	129.3	3	3	6								
-140.7	139.2	9	9	10								
-150.7	149.2											

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



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		BORING DIAMETER: 4" to 25.0', 3" to 150.7'			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		BITS USED: 4" & 3" Roller Cones								
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									
		5	6	9	15					609-13			-152.2	150.7
													Boring Terminated at Elevation -152.2 ft	

TURKEY POINT COL BORE, TURKEY POINT GPJ, TURKEY POINT COL GDI, 5/30/08