



BECHTEL PROJECT NO.: 25409	MACTEC PROJECT NO.: 6468-07-1950	COUNTY: Miami-Dade	GEOLOGIST: B. Taylor/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-605	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	
GROUND ELEV.: -1.7 ft (NAVD88)	NORTHING: 396,917 US ft (NAD83/90)	EASTING: 876,694 US ft (NAD83/90)	
TOTAL DEPTH: 201.0 ft	BORING DIAMETER: 4" to 36.0', 3" to 201.0'	CASING DEPTH: 4" to 36.0', 3" to 119.9'	HAMMER (ID): 140 lb. Auto (MEC-03)
DATE STARTED: 2/23/08	COMPLETED: 2/27/08	CORE SIZE: HQ3	BITS USED: 3 7/8" and 2 15/16" 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
-151.3					Continued from previous page								
-151.6	149.9	5	6	11						605-19		Silty SAND (SM), greenish gray (10Y5/1), medium dense, fine grained sand, strong HCl reaction (continued)	
-156.6	154.9	4	5	7						605-20		154.9ft: fine grained sand	
-161.2	159.5	3	4	6						605-21		159.5ft: loose	
-166.2	164.5	3	4	5						605-22		166.2	Sandy SILT (ML), greenish gray (10Y5/1), firm, wet, fine to medium grained sand, strong HCl reaction
-171.2	169.5	2	3	6						605-23		169.5ft: no recovery	
-176.2	174.5	2	3	5						605-24		174.5ft: some fine grained sand	
-181.2	179.5	2	2	4						605-25		177.5ft: olive gray (5Y5/2)	
-186.2	184.5	2	3	5						605-26		184.5ft: fine to medium grained sand	
-191.2	189.5	3	3	6						605-27		187.5ft: olive gray (5Y5/2), fine grained sand,	
-196.2	194.5	4	5	13						605-28		196.2	Sandy, Silty CLAY (CL), olive gray (5Y4/2), very stiff, moist, fine to medium grained sand, weak HCl reaction
-201.2	199.5	4	4	17						605-29		199.5	Sandy SILT (ML), olive gray (5Y4/2), very stiff, moist, fine to coarse grained sand
												201.0	Boring Terminated at Elevation -202.7 ft

TURKEY POINT COL BORE: TURKEY POINT.GPJ TURKEY POINT COL.GDI 8/18 08



BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade	GEOLOGIST: B. Taylor/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-605		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		
GROUND ELEV.: -1.7 ft (NAVD88)		NORTHING: 396,917 US ft (NAD83/90)		EASTING: 876,694 US ft (NAD83/90)		
TOTAL DEPTH: 201.0 ft		CASING DEPTH: 4" to 36.0', 3" to 119.9'			HAMMER (ID): 140 lb. Auto (MEC-03)	
DATE STARTED: 2/23/08		COMPLETED: 2/27/08		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 @ 36.2 ft
-37.9	36.2	1.9	1:20	(1.9)	(1.9)	RUN-1	(11.6)	(11.4)	LIMESTONE, boundstone, white (10YR8/1), moderately hard, moist, trace shell fragments (Upper Fort Thompson Formation) (continued)	
-39.8	38.1	5.0	1:50/0.9	100%	100%	RUN-2	97%	96%		
			1:26	(4.7)	(4.5)				36.2ft: medium hard, moderately indurated, fossiliferous, few vugs	
			1:17	94%	90%				NOTE: Coring began at 35.1 ft though previous SPT. Only material below SPT depth is included in log.	
-44.8	43.1		0:57							
			0:50							
			0:48							
-49.8	48.1	5.0	0:39	(5.0)	(5.0)	RUN-3			43.1ft: hard, moderately indurated, recrystallized calcite	
			0:38	100%	100%					
			0:45							
			0:44							
			0:50							
-54.8	53.1	5.0	1:01	(5.0)	(5.0)	RUN-4	(52.7)	(36.3)	LIMESTONE, boundstone, white (10YR8/1), hard, indurated, little vugs, some shells, trace recrystallized calcite in vugs (Lower Fort Thompson Formation)	
			1:04	100%	100%		79%	54%		
			1:01							
			1:00							
			1:24							
-59.8	58.1	5.0	0:46	(4.9)	(4.2)	RUN-5			53.1ft: medium hard, moderately indurated	
			0:43	98%	84%					
			0:32							
			0:16							
			0:37							
-64.8	63.1	5.0	0:21	(3.4)	(1.9)	RUN-6			63.1ft: few vugs	
			0:24	68%	38%					
			0:20							
			0:15							
			0:15							
-69.8	68.1	5.0	0:21	(3.9)	(2.9)	RUN-7			68.1ft: mottled light gray (10YR7/1), some vugs, interbedded sand	
			0:19	78%	58%					
			0:23							
			0:26							
			0:13							
-74.8	73.1	5.0	0:29	(2.4)	(0.6)	RUN-8				
			0:10	48%	12%					
			0:16							
			0:24							
			0:28							
-75.6	73.9	0.8	0:24/0.8	(0.5)	(0.0)	RUN-9			73.9ft: hard, indurated, mostly vugs	
		5.0	0:15	63%	0%	RUN-10				
			0:25	(2.7)	(0.5)					
			0:25	54%	10%					
			0:20							
			0:26							
-80.6	78.9	5.0	0:29	(3.8)	(3.7)	RUN-11				
			0:57	76%	74%					
			0:55							
			0:51							
			0:23							
-85.6	83.9	5.0	0:15	(2.5)	(0.5)	RUN-12			83.9ft: moderately indurated	
			0:19	50%	10%					
			0:23							
			0:19							
			0:38							
-90.6	88.9	4.0	0:53	(3.8)	(2.5)	RUN-13			88.9ft: moderately hard, indurated, few vugs	
			0:53	95%	63%					
			1:00							
			1:26							
-94.6	92.9	1.0	0:54	(0.6)	(0.5)	RUN-14			92.9ft: trace vugs, trace sand	
		5.0	0:33	60%	50%	RUN-15				
			0:41	(4.9)	(3.9)					
			0:35	98%	78%					
			0:37							
			0:38							
-100.6	98.9	5.0	0:39	(5.0)	(3.0)	RUN-16				
			0:52	100%	60%					
			0:46							
			0:51							
			1:06							
-105.6	103.9	5.0	0:51	(5.0)	(5.0)	RUN-17			103.9ft: hard, shell molds and casts	
			0:58	100%	100%					
			1:03							
			0:52							
			1:03							
-110.6	108.9	5.0	0:42	(3.6)	(2.1)	RUN-18			108.9ft: moderately hard	
			0:58	72%	42%					

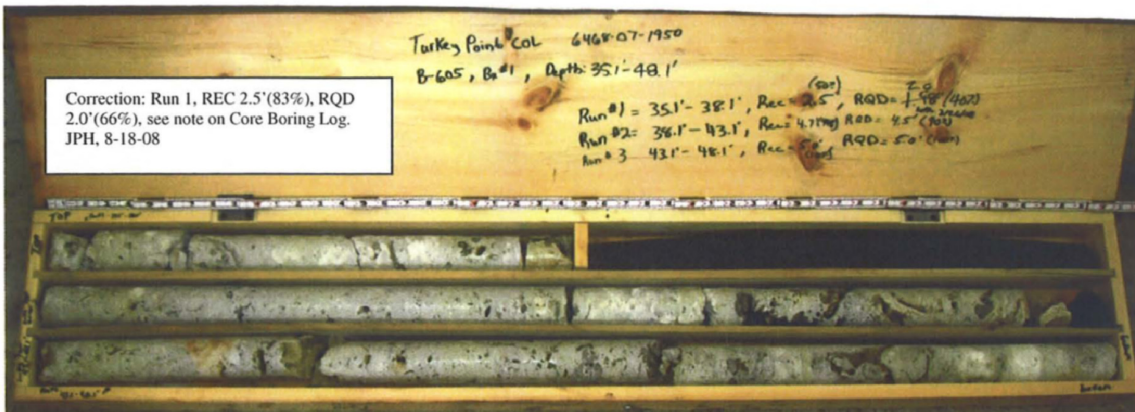
TURKEY POINT COL CORE TURKEY POINT GP TURKEY POINT COL GDT 8 18 08



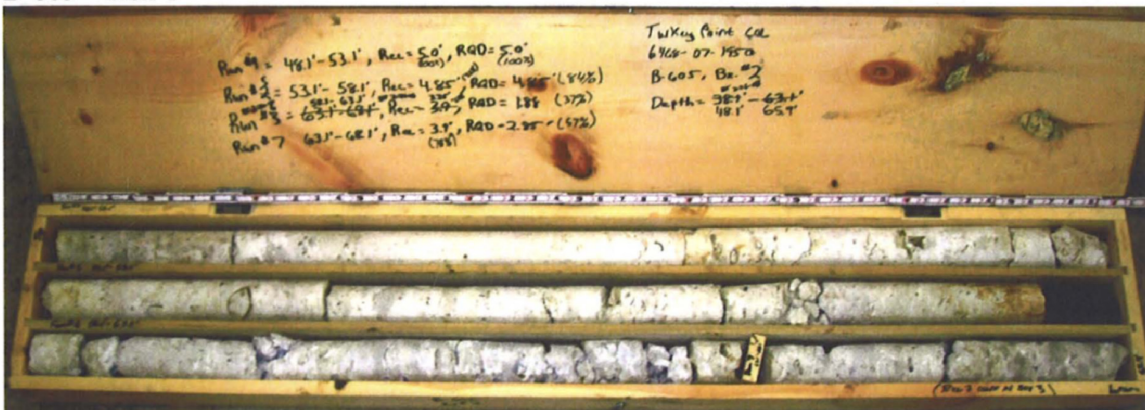
BECTEL PROJECT NO.: 25409	MACTEC PROJECT NO.: 6468-07-1950	COUNTY: Miami-Dade	GEOLOGIST: B. Taylor/L. Bisson
SITE DESCRIPTION: Turkey Point COL	DRILL MACHINE: CME-550 (ATL)	DRILLER: L. Carter/ J. Landeros	GROUND WATER (ft) 0 HR. NA 24 HR. NA
BORING NO.: B-605	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	
GROUND ELEV.: -1.7 ft (NAVD88)	NORTHING: 396,917 US ft (NAD83/90)	EASTING: 876,694 US ft (NAD83/90)	
TOTAL DEPTH: 201.0 ft	CASING DEPTH: 4" to 36.0', 3" to 119.9'		HAMMER (ID): 140 lb. Auto (MEC-03)
DATE STARTED: 2/23/08	COMPLETED: 2/27/08	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) %		
			0.55 0.21 1.22							Continued from previous page
-115.6	113.9	5.0	0.30 0.23 0.44 0.14 0.10	(0.7) 14%	(0.0) 0%	RUN-19	(0.0) 0%	(NA)		LIMESTONE, boundstone, white (10YR8/1), hard, indurated, little vugs, some shells, trace recrystallized calcite in vugs (Lower Fort Thompson Formation) (continued) 113.9ft: light gray (2.5Y7/2), hard Sandy SILT (ML), light gray (2.5Y7/1), very stiff, wet, fine to medium grained sand, strong HCl reaction (Tamiami Formation)
-120.6	118.9									Coring Terminated at Elevation -120.6

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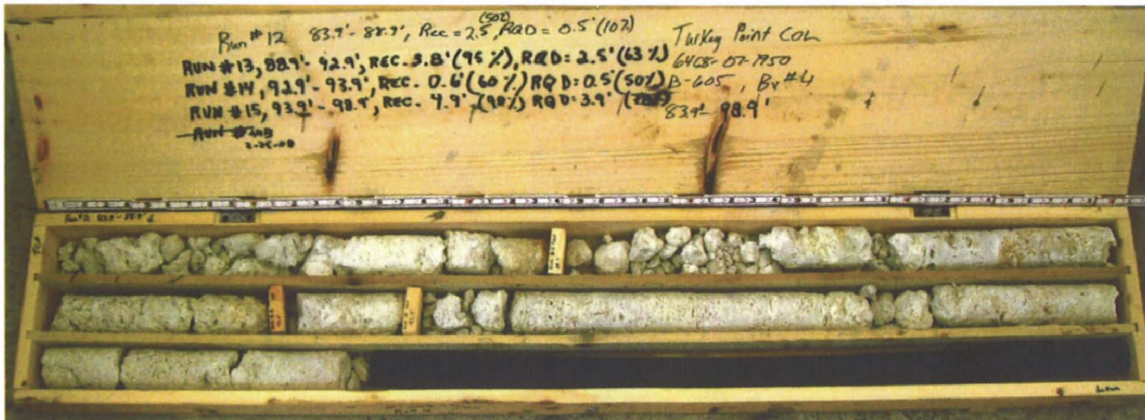
B-605 - Box 1



B-605 - Box 2



B-605 - Box 3



B-605 - Box 4



B-605 - Box 5



B-605 - Box 6



GEOTECHNICAL BORING LOG

Prepared By *JPJ* Date *5-30-08*

Checked By *JPJ* Date *5-30-08*

SHEET 1 OF 3

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-606		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA							
GROUND ELEV.: -1.4 ft (NAVD88)		NORTHING: 396,959 US ft (NAD83/90)		EASTING: 876,738 US ft (NAD83/90)		24 HR. NA							
TOTAL DEPTH: 151.2 ft		BORING DIAMETER: 4" to 16.0', 3" to 151.2'		CASING DEPTH: 4" to 16.0', 3" to 125.9'		HAMMER (ID): 140 lb. Auto (MEC-03)							
DATE STARTED: 2/28/08		COMPLETED: 3/6/08		CORE SIZE: HQ3		BITS USED: 4" & 3" Roller Cones							
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	L O G	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100
-1.4													
-1.4	0.0	WOR	WOR	WOR	0								Ground Surface
-3.9	2.5												MUCK, light brownish gray (2.5Y6/2), very soft, wet, organic, trace shell fragments
-6.4	5.0	2	4	8									2.5ft: black (2.5Y2.5/1), soft
-8.9	7.5	9	19	10									LIMESTONE, boundstone, white (10YR8/1), to light gray (10YR7/1), very soft, wet trace calcite crystals, trace shell fragments (Miami Formation)
-11.4	10.0	5	4	4									5.0ft: white (10YR8/1), soft
-13.9	12.5	4	6	9									7.5ft: very soft
-16.4	15.0	8	8	7									12.5ft: very pale brown (10YR8/2)
-17.8	16.4	3	6	50/0.1									15.0ft: hard
-19.8	18.4												16.4ft: Switch sampling method to coring
-24.8	23.4												16.4ft: light gray (10YR7/2), hard, indurated, fossiliferous, strong HCl reaction, little vugs
-28.8	27.4												18.4ft: white (10YR8/1), to light gray (10YR8/2)
-29.8	28.4												
-32.8	31.4												
-33.3	31.9												
-34.8	33.4												
-39.8	38.4												
-44.8	43.4												
-46.4	45.0												
-49.8	48.4												
-54.8	53.4												
-59.8	58.4												
-64.8	63.4												
-68.8	67.4												
-69.8	68.4												
-74.8	73.4												

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: L. Bisson						
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550 (ATL)		DRILLER: L. Carter/ J. Landeros		GROUND WATER (ft)						
BORING NO.: B-606		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA						
GROUND ELEV.: -1.4 ft (NAVD88)		NORTHING: 396,959 US ft (NAD83/90)		EASTING: 876,738 US ft (NAD83/90)		24 HR. NA						
TOTAL DEPTH: 151.2 ft		BORING DIAMETER: 4" to 16.0', 3" to 151.2'		CASING DEPTH: 4" to 16.0', 3" to 125.9'		HAMMER (ID): 140 lb. Auto (MEC-03)						
DATE STARTED: 2/28/08		COMPLETED: 3/6/08		CORE SIZE: HQ3		BITS USED: 4" & 3" 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			
-76.2					Continued from previous page							
-79.8	78.4										606-CS-05	<p>LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, strong HCl reaction, few vugs (Lower Fort Thompson Formation) (continued)</p> <p>88.4ft: white (2.5Y8/1), moderately hard, trace sand</p> <p>93.4ft: white (2.5Y8/1), to very pale brown (2.5Y8/2), hard, trace vugs</p> <p>98.4ft: white (10YR8/1)</p> <p>108.4ft: white (5Y8/1)</p> <p>117.4 - 116.0</p> <p>Silty SAND (SM), greenish gray (10Y6/1), medium dense, wet, fine grained sand, strong HCl reaction, trace shell fragments (Tamiami Formation)</p> <p>119.4ft: fine to coarse grained sand, fine gravel</p> <p>139.7ft: olive gray (5Y5/2), dense</p>
-84.8	83.4										606-CS-06	
-89.8	88.4										RUN-19	
-94.8	93.4										RUN-20	
-99.8	98.4										RUN-21	
-104.8	103.4										RUN-22	
-109.8	108.4										RUN-23	
-114.8	113.4										RUN-24	
-119.8	118.4										RUN-25	
-119.8	118.4	2	6	5							RUN-26	
-131.1	129.7	3	6	13							606-8	
-141.1	139.7	12	12	19							606-9	
-151.1	149.7										606-10	

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: L. Bisson			
SITE DESCRIPTION: Turkey Point COL			DRILL MACHINE: CME-550 (ATL)			DRILLER: L. Carter/ J. Landeros			GROUND WATER (ft)			
BORING NO.: B-606			DRILL METHOD: Mud Rotary/ Core			SAMPLE METHODS: SPT/Core			0 HR. NA			
GROUND ELEV.: -1.4 ft (NAVD88)			NORTHING: 396,959 US ft (NAD83/90)			EASTING: 876,738 US ft (NAD83/90)			24 HR. NA			
TOTAL DEPTH: 151.2 ft		BORING DIAMETER: 4" to 16.0', 3" to 151.2'			CASING DEPTH: 4" to 16.0', 3" to 125.9'			HAMMER (ID):140 lb. Auto (MEC-03)				
DATE STARTED: 2/28/08		COMPLETED: 3/6/08			CORE SIZE: HQ3			BITS USED: 4" & 3" 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			
-151.0					Continued from previous page							
		4	7	7	14					606-11		-152.6 149.7ft: olive gray (5Y4/2), medium dense, fine to medium grained sand Boring Terminated at Elevation -152.6 ft 151.2

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: L. Bisson	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550 (ATL)		DRILLER: L. Carter/ J. Landeros		GROUND WATER (ft)	
BORING NO.: B-606		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA	
GROUND ELEV.: -1.4 ft (NAVD88)		NORTHING: 396,959 US ft (NAD83/90)		EASTING: 876,738 US ft (NAD83/90)		24 HR. NA	
TOTAL DEPTH: 151.2 ft		CASING DEPTH: 4" to 16.0', 3" to 125.9'				HAMMER (ID): 140 lb. Auto (MEC-03)	
DATE STARTED: 2/28/08		COMPLETED: 3/6/08		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 @ 16.4 ft
-17.8	16.4	2.0	0:54 1:21	(2.0) 100%	(1.2) 60%	RUN-1	(7.0) 92%	(5.1) 67%		LIMESTONE, boundstone, white (10YR8/1), to light gray (10YR7/1), very soft, wet trace calcite crystals, trace shell fragments (Miami Formation) (continued)
-19.8	18.4	5.0	0:49 0:32 0:28 0:42	(5.0) 100%	(3.9) 78%	RUN-2				16.4ft: light gray (10YR7/2), hard, indurated, fossiliferous, strong HCl reaction, little vugs 18.4ft: white (10YR8/1), to light gray (10YR8/2)
-24.8	23.4	4.0	0:33 0:29 0:52 0:30	(3.2) 80%	(0.7) 18%	RUN-3	(21.4) 88%	(13.3) 55%	-25.4	LIMESTONE, boundstone, light gray (10YR7/2), hard, indurated, coralline, fossiliferous, strong HCl reaction, few vugs (Upper Fort Thompson Formation)
-28.8	27.4	1.0	0:18	(1.0) 100%	(0.0) 0%	RUN-4				27.4ft: light gray (10YR7/2)
-29.8	28.4	3.0	1:18 0:45 1:16	(2.0) 67%	(0.5) 17%	RUN-5				28.4ft: light gray (10YR7/2), to pale brown (10YR6/3), some friable cemented sand
-32.8	31.4	0.5	0:52/0.5	(0.5) 100%	(0.0) 0%	RUN-6				31.4ft: white (10YR8/1), soft to hard, friable to indurated, trace vugs
-33.3	31.9	1.5	0:51/0.5 1:14	(1.5) 100%	(0.0) 0%	RUN-7 606-CS-01				31.9ft: white (10YR8/1), to pale brown (10YR6/3), hard, indurated
-34.8	33.4	5.0	1:06 0:46 0:42 0:33 0:41	(1.5) 100%	(1.5) 100%	RUN-8 606-CS-02				33.4ft: white (10YR8/1), to light gray (10YR7/1), few vugs
-39.8	38.4	5.0	0:58 0:55 1:02 0:57 1:00	(5.0) 100%	(4.7) 94%	RUN-9				38.4ft: white (10YR8/1)
-44.8	43.4	1.6	0:48	(0.0) 0%	(0.0) 0%	RUN-10				43.9ft: no recovery (limestone)
-46.4	45.0	3.4	0:51/0.6	(3.4) 100%	(2.0) 59%	RUN-11				45ft: grayish brown (10YR5/2), to light gray (10YR7/1) from 46.0ft to 48.4ft
-49.8	48.4	5.0	1:21 1:26 1:26	(4.9) 98%	(4.9) 98%	RUN-12	(56.8) 84%	(35.2) 52%	-49.8	LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, strong HCl reaction, few vugs (Lower Fort Thompson Formation)
-54.8	53.4	5.0	1:35 1:43 1:44 2:02 1:45	(4.7) 94%	(3.7) 74%	RUN-13				53.4ft: trace coral
-59.8	58.4	5.0	1:02 0:38 0:41 0:15 0:31	(4.7) 94%	(2.3) 46%	RUN-14				
-64.8	63.4	4.0	0:29 0:28 0:27 0:18 0:28	(2.8) 70%	(1.2) 30%	RUN-15				63.4ft: white (10YR8/1), to light gray (10YR7/1)
-68.8	67.4	1.0	0:37 0:38 1:09	(0.0) 0%	(0.0) 0%	RUN-16				67.4ft: no recovery (limestone)
-69.8	68.4	5.0	0:24	(0.0) 0%	(0.0) 0%	RUN-17				68.4ft: light gray (10YR7/1)
-74.8	73.4	5.0	1:22 0:27 0:37 1:37 0:07	(2.8) 56%	(1.8) 36%	RUN-18				
-79.8	78.4	5.0	0:03 0:04 1:58 2:23 1:48	(3.0) 60%	(2.4) 48%	RUN-19 606-CS-05				73.4ft: white (10YR8/1), trace vugs
-84.8	83.4	5.0	1:18 1:15 1:16 1:04 0:52	(5.0) 100%	(3.3) 66%	RUN-20 606-CS-06				
-89.8	88.4	5.0	0:43 0:58 1:52 1:43 2:07	(5.0) 100%	(3.1) 62%	RUN-21				
		5.0	1:36 0:32 1:16	(4.7) 94%	(2.8) 56%	RUN-21				88.4ft: white (2.5Y8/1), moderately hard, trace sand

TURKEY POINT CORE TURKEY POINT G.P.I. TURKEY POINT COL.GDT 5/30/08



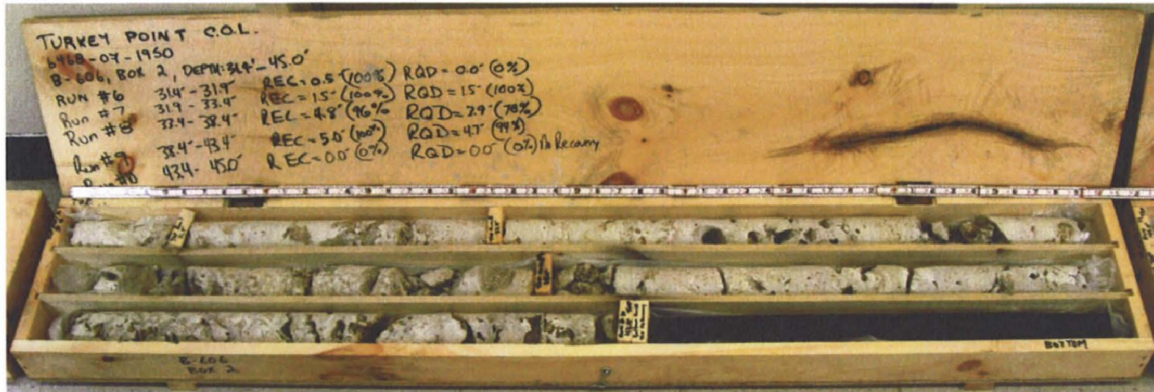
BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: L. Bisson	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550 (ATL)		DRILLER: L. Carter/ J. Landeros			GROUND WATER (ft) 0 HR. NA 24 HR. NA
BORING NO.: B-606		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core			
GROUND ELEV.: -1.4 ft (NAVD88)		NORTHING: 396,959 US ft (NAD83/90)		EASTING: 876,738 US ft (NAD83/90)			
TOTAL DEPTH: 151.2 ft		CASING DEPTH: 4" to 16.0', 3" to 125.9'				HAMMER (ID): 140 lb. Auto (MEC-03)	
DATE STARTED: 2/28/08		COMPLETED: 3/6/08		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) %		
			0:46 1:30							Continued from previous page
-94.8	93.4	5.0	1:12 0:31 0:28 0:04 0:45	(4.0) 80%	(2.5) 50%	RUN-22				LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, strong HCl reaction, few vugs (Lower Fort Thompson Formation) (continued) 93.4ft: white (2.5Y8/1), to very pale brown (2.5Y8/2), hard, trace vugs
-99.8	98.4	5.0	0:52 1:14 1:18 0:59 1:49	(5.0) 100%	(2.6) 52%	RUN-23				98.4ft: white (10YR8/1)
-104.8	103.4	5.0	1:19 0:56 0:39 0:45 0:41	(5.0) 100%	(2.9) 58%	RUN-24				108.4ft: white (5Y8/1)
-109.8	108.4	5.0	0:34 0:58 0:36 0:43 0:22	(3.8) 76%	(1.7) 34%	RUN-25				108.4ft: white (5Y8/1)
-114.8	113.4	5.0	0:23 0:18 0:12 0:16 0:07	(1.4) 28%	(0.0) 0%	RUN-26				
-119.8	118.4						(0.0) 0%	(NA)		-117.4 -119.8 Silty SAND (SM), greenish gray (10Y6/1), medium dense, wet, fine grained sand, strong HCl reaction, trace shell fragments (Tamiami Formation) Coring Terminated at Elevation -119.8

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



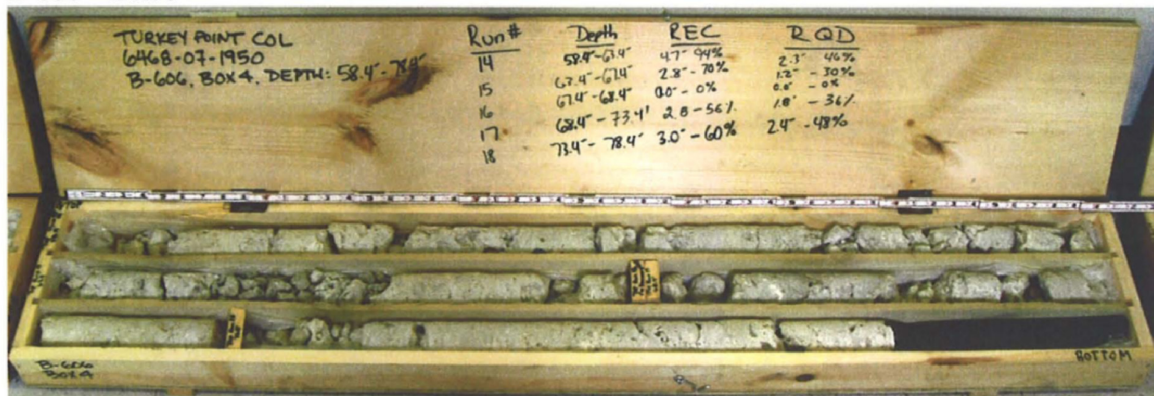
B-606 - Box 1



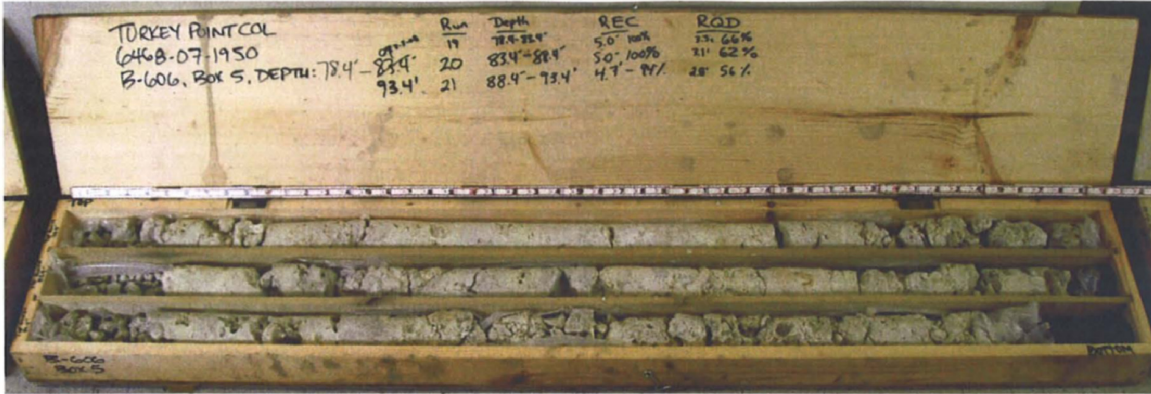
B-606 - Box 2



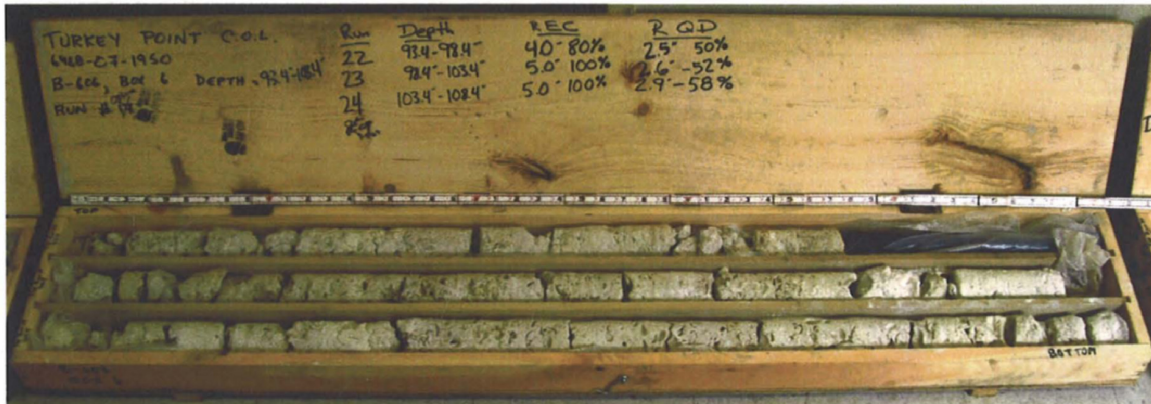
B-606 - Box 3



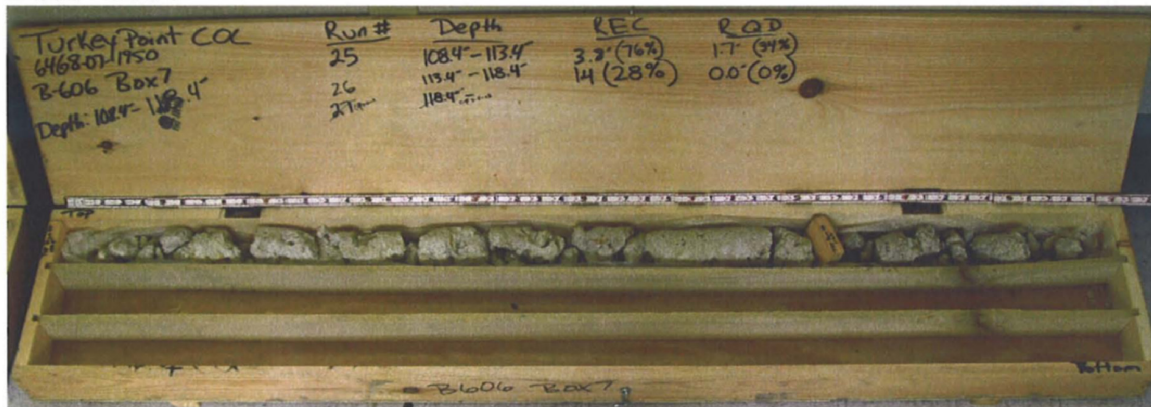
B-606 - Box 4



B-606 - Box 5



B-606 - Box 6



B-606 - Box 7



GEOTECHNICAL BORING LOG

Prepared By SPZ Date 7-10-08

Checked By [Signature] Date 7-10-08

SHEET 1 OF 3

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		BORING DIAMETER: 4" to 16.0', 3" to 152.5'		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		BITS USED: 4" & 3" 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													Ground Surface
-1.5	0.0	WOR	WOR	WOR						607-1			MUCK, light brownish gray (2.5Y6/2), to dark olive brown (2.5Y3/3), to black (2.5Y2.5/1), very soft, wet, organic, trace roots and shell fragments, no HCl reaction
-4.0	2.5	2	10	14						607-2			LIMESTONE, boundstone, pale yellow (2.5Y8/2), soft, wet, trace fines, fossiliferous, strong HCl reaction, oolitic (Miami Formation)
-6.5	5.0	8	7	7						607-3			5.0ft: white (2.5Y8/1), very soft
-9.0	7.5	8	6	4						607-4			7.5ft: very pale brown (10YR8/2), to pale brown (10YR6/3), loose
-11.5	10.0	4	4	4						607-5			10.0ft: white (2.5Y8/1)
-14.0	12.5	6	10	18						607-6			12.5ft: light gray (2.5Y7/1), soft
-16.5	15.0									607-7			15.0ft: very pale brown (10YR8/2), hard
-17.5	16.0	11	50/0.1							RUN-1			16.0ft: Switch sampling method to coring
-19.8	18.3									RUN-2			16.0ft: white (2.5Y8/1), hard, indurated, trace fines, fossiliferous, strong HCl reaction, locally interconnected vugs
-24.8	23.3									RUN-3			LIMESTONE, boundstone, very pale brown (10YR8/2), hard, indurated, fossiliferous, trace fines, strong HCl reaction, trace vugs (Upper Fort Thompson Formation)
-29.8	28.3									607-CS-01			
-34.8	33.3									RUN-4			
-39.8	38.3									RUN-5			33.3ft: white (2.5Y8/1), extremely indurated, recrystallized calcite, few vugs
-44.8	43.3									607-CS-02			
-49.8	48.3									RUN-6			38.3ft: indurated
-54.8	53.3									607-CS-03			
-59.8	58.3									RUN-7			43.3ft: moderately hard, trace sand
-64.8	63.3									RUN-8			45.9ft: gray (2.5Y6/1) to 47.7ft
-69.8	68.3									607-CS-04			LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, fossiliferous, trace to few vugs, strong HCl reaction (Lower Fort Thompson Formation)
-74.8	73.3									RUN-9			53.3ft: medium hard to hard
										RUN-10			58.3ft: hard, trace vugs
										607-CS-05			
										RUN-11			63.3ft: moderately hard, moderately indurated, sandy
										RUN-12			68.3ft: light gray (2.5Y7/2), indurated
										RUN-13			73.3ft: white (2.5Y8/1)

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: 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		BORING DIAMETER: 4" to 16.0', 3" to 15.5'		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		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				
-76.3					Continued from previous page								
-79.8	78.3												Limestone, boundstone, white (2.5Y8/1), hard, indurated, fossiliferous, trace to few vugs, strong HCl reaction (Lower Fort Thompson Formation) (continued) 78.3ft: moderately indurated 80.3ft: hard, indurated, trace sand, few vugs  88.3ft: moderately hard to hard  108.3ft: hard to soft, indurated to friable  118.3ft: Silty SAND (SM), light gray (2.5Y7/1), medium dense, wet, fine grained sand, strong HCl reaction, trace shell fragments (Tamiami Formation) 118.3ft: Switch sampling method to SPT  129.5ft: olive (5Y5/3), weak to strong HCl reaction, fine to medium grained sand  139.5ft: Clayey, Silty SAND (SC-SM), olive (5Y5/3), medium dense, wet, weak HCl reaction, fine to coarse sand
-81.8	80.3												
-84.8	83.3												
-89.8	88.3												
-94.8	93.3												
-99.8	98.3												
-104.8	103.3												
-109.8	108.3												
-114.8	113.3												
-119.8	118.3	5	11	10									
-131.0	129.5	3	4	7									
-141.0	139.5	9	10	12									
-151.0	149.5												

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: 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		BORING DIAMETER: 4" to 16.0', 3" to 152.5'		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		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				
-151.1					Continued from previous page								
-152.5	151.0	6	6	9						607-11			-152.5 149.5ft: weak to strong HCl reaction 151.0
		4	5	11						607-12			-154.0 Silty SAND (SC-SM), olive (5Y5/3), medium dense, wet, fine to coarse sand, fine gravel, weak HCl reaction 152.5 Boring Terminated at Elevation - 154.0 ft

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