



GEOTECHNICAL BORING LOG

Prepared By ADH Date 8-12-08Checked By JSR Date 8/19/08

SHEET 1 OF 2

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 Marsh Buggy					DRILLER: D. White/ R. Hall					GROUND WATER (ft)		
BORING NO.: B-810					DRILL METHOD: Mud Rotary/ Core					SAMPLE METHODS: SPT/Core					0 HR. NA		
GROUND ELEV.: -1.2 ft (NAVD88)					NORTHING: 397,807 US ft (NAD83/90)					EASTING: 875,012 US ft (NAD83/90)					24 HR. NA		
TOTAL DEPTH: 127.0 ft			BORING DIAMETER: 4" to 127.0'					CASING DEPTH: 4" to 20.0'					HAMMER (ID):140 lb. Auto (893)				
DATE STARTED: 5/16/08			COMPLETED: 5/18/08			CORE SIZE: HQ3			BITS USED: 3 15/16" 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							
-1.2					Ground Surface												
-1.2	0.0	WOH	WOH	WOH	0						810-1				-1.2 0.0		
-3.7	2.5				10						810-2				-3.2 2.0		
-6.2	5.0	2	5	5							810-3				-4.3 3.1		
-8.7	7.5	24	7	5	12						810-4						
-11.2	10.0	7	10	5	15						810-5						
-13.7	12.5	5	3	10	13						810-6						
-16.2	15.0	9	10	9	19						810-7						
		50/0.5								50/0.5							
-21.2	20.0										810-8						
		5	9	28	37												
-26.2	25.0										810-9				-25.2 24.0		
-26.7	25.5	50/0.4								50/0.4	RUN-1						
-29.2	28.0										RUN-2						
											RUN-3						
-34.2	33.0										RUN-4						
-35.7	34.5										RUN-5						
-39.2	38.0										RUN-6						
-40.2	39.0										RUN-7						
-44.2	43.0										RUN-8						
-49.2	48.0										RUN-9						
-54.2	53.0										RUN-10						
-59.2	58.0										RUN-11						
-64.2	63.0										RUN-12						
-69.2	68.0										RUN-13						
-74.2	73.0																

TURKEY POINT COL BORE, TURKEY POINT GPJ, TURKEY POINT COL GDT 8/19/08



SHEET 2 OF 2

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 Marsh Buggy		DRILLER: D. White/ R. Hall		GROUND WATER (ft)						
BORING NO.: B-810		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA						
GROUND ELEV.: -1.2 ft (NAVD88)		NORTHING: 397,807 US ft (NAD83/90)		EASTING: 875,012 US ft (NAD83/90)		24 HR. NA						
TOTAL DEPTH: 127.0 ft		BORING DIAMETER: 4" to 127.0'		CASING DEPTH: 4" to 20.0'		HAMMER (ID): 140 lb. Auto (893)						
DATE STARTED: 5/16/08		COMPLETED: 5/18/08		CORE SIZE: HQ3		BITS USED: 3 15/16" Tricone						
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		
-76.0					Continued from previous page							
-79.2	78.0										RUN-14	LIMESTONE, boundstone, white (10YR8/1), hard, indurated, few vugs, fossiliferous, trace shell molds and casts, strong HCl reaction (Lower Fort Thompson Formation) (continued) 78.0ft: few vugs
-84.2	83.0										RUN-15	83.0ft: moderately hard, trace shell casts
-89.2	88.0										RUN-16	88.0ft: trace vugs, layers of soft, friable limestone
-94.2	93.0										RUN-17	
-99.2	98.0										RUN-18	98.0ft: few vugs
-104.2	103.0										RUN-19	103.0ft: moderately hard to medium hard, some shell casts
-109.2	108.0										RUN-20	108.0ft: moderately hard, sandy
-114.2	113.0										RUN-21	113.0ft: Silty SAND (SM), light gray (10YR7/2), dense, wet, fine grained sand, strong HCl reaction (Tamiami Formation)
-119.2	118.0	4	9	30							810-10	118.0ft: Switch sampling method to SPT
-126.7	125.5	6	8	11							810-11	125.0ft: greenish gray (10Y6/1), medium dense Boring Terminated at Elevation -128.2 ft

TURKEY POINT COL BORE TURKEY POINT GPJ TURKEY POINT COL GDT 8/19/08



SHEET 1 OF 2

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 Marsh Buggy	DRILLER: D. White/ R. Hall	GROUND WATER (ft)
BORING NO.: B-810	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	0 HR. NA
GROUND ELEV.: -1.2 ft (NAVD88)	NORTHING: 397,807 US ft (NAD83/90)	EASTING: 875,012 US ft (NAD83/90)	24 HR. NA
TOTAL DEPTH: 127.0 ft	CASING DEPTH: 4" to 20.0'	HAMMER (ID): 140 lb. Auto (893)	
DATE STARTED: 5/16/08	COMPLETED: 5/18/08	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		L O G	DESCRIPTION AND REMARKS
				REC (ft) %	RQD (ft) %		REC (ft) %	RQD (ft) %		
										Begin Coring @ 25.5 ft
-26.7	25.5	2.5	1:17	(2.5)	(2.5)	RUN-1	(22.1)	(17.8)		LIMESTONE, boundstone, white (10YR8/1), hard, wet, fossiliferous, strong HCl reaction (Upper Fort Thompson Formation) <i>(continued)</i>
-29.2	28.0		1:17	100%	100%		98%	79%		25.5ft: indurated, trace locally interconnected vugs, fossiliferous
		5.0	0:53/0.5	(5.0)	(3.1)	RUN-2				28.0ft: little vugs, trace coralline
			1:09	100%	62%					
			1:08							
			1:03							
			1:05							
-34.2	33.0		2:01							
		1.5	1:40	(1.3)	(0.0)	RUN-3				33.0ft: few vugs
-35.7	34.5		2:52/0.5	87%	0%					34.5ft: little vugs
		3.5	1:00	(3.5)	(3.5)	RUN-4				
			2:24	100%	100%					
			2:00							
-39.2	38.0		2:06/0.5	(1.0)	(1.0)	RUN-5				38.0ft: few vugs
-40.2	39.0	1.0	3:05	100%	100%	RUN-6				
		4.0	2:43	(3.8)	(3.4)					
			2:50	95%	85%					
			3:07							
-44.2	43.0		3:50							
		5.0	2:22	(5.0)	(4.3)	RUN-7				43.0ft: white (10YR8/1) to 44.0ft; then light gray (10YR7/1) to 48.0ft
			2:02	100%	86%					
			2:22							
-49.2	48.0		2:42							
		5.0	2:50	(4.9)	(4.6)	RUN-8	(44.6)	(30.3)		LIMESTONE, boundstone, white (10YR8/1), hard, indurated, few vugs, fossiliferous, trace shell molds and casts, strong HCl reaction (Lower Fort Thompson Formation)
			1:30	98%	92%		72%	49%		
			1:20							
			1:00							
-54.2	53.0		0:40							
		5.0	1:00	(4.3)	(3.0)	RUN-9				53.0ft: moderately hard, moderately indurated, trace sand
			1:00	86%	60%					
			1:40							
			1:20							
-59.2	58.0		1:20							
		5.0	1:00	(3.8)	(3.8)	RUN-10				58.0ft: hard, indurated, trace vugs
			1:30	76%	76%					
			0:50							
			0:36							
-64.2	63.0		0:10							
		5.0	1:30	(3.6)	(2.9)	RUN-11				63.0ft: moderately hard, moderately indurated
			1:10	72%	58%					
			0:51							
			2:12							
-69.2	68.0		1:55							
		5.0	1:50	(4.4)	(3.5)	RUN-12				68.0ft: few vugs
			1:25	88%	70%					
			0:53							
			1:26							
-74.2	73.0		1:35							
		5.0	1:15	(1.6)	(0.0)	RUN-13				73.0ft: medium hard
			0:55	32%	0%					
			1:13							
			0:45							
-79.2	78.0		0:15							
		5.0	0:20	(3.3)	(0.8)	RUN-14				78.0ft: few vugs
			0:40	66%	16%					
			1:28							
-84.2	83.0		3:30							
		5.0	1:53	(3.7)	(2.6)	RUN-15				83.0ft: moderately hard, trace shell casts
			0:20	74%	52%					
			1:30							
			1:20							
-89.2	88.0		2:10							
		5.0	1:26	(2.7)	(1.5)	RUN-16				88.0ft: trace vugs, layers of soft, friable limestone
			0:27	54%	30%					
			0:51							
			1:51							
-94.2	93.0		1:20							
		5.0	0:40	(2.2)	(0.0)	RUN-17				
			0:10	44%	0%					
			0:28							
			0:51							
-99.2	98.0		1:25							
		5.0	1:00	(5.0)	(5.0)	RUN-18				98.0ft: few vugs
			1:22	100%	100%					

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

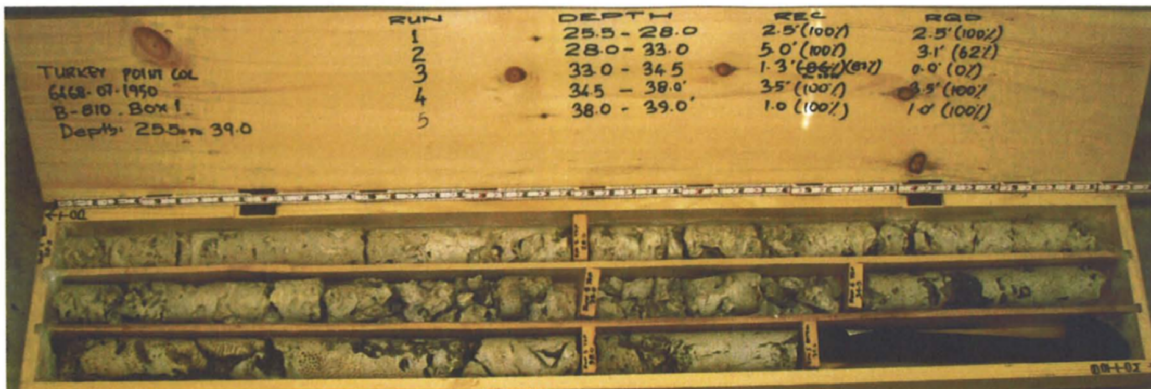


SHEET 2 OF 2

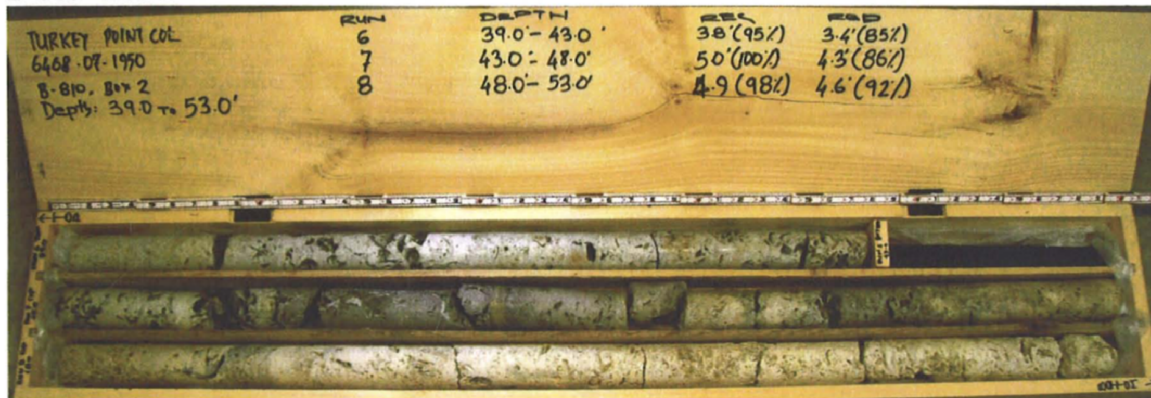
BECHTEL PROJECT NO.: 25409	MACTEC PROJECT NO.: 6468-07-1950	COUNTY: Miami-Dade	GEOLOGIST: H. Lyatuu
SITE DESCRIPTION: Turkey Point COL	DRILL MACHINE: CME-550 Marsh Buggy	DRILLER: D. White/ R. Hall	GROUND WATER (ft)
BORING NO.: B-810	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	0 HR. NA
GROUND ELEV.: -1.2 ft (NAVD88)	NORTHING: 397,807 US ft (NAD83/90)	EASTING: 875,012 US ft (NAD83/90)	24 HR. NA
TOTAL DEPTH: 127.0 ft	CASING DEPTH: 4" to 20.0'	HAMMER (ID): 140 lb. Auto (893)	
DATE STARTED: 5/16/08	COMPLETED: 5/18/08	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		L O G	DESCRIPTION AND REMARKS
				REC (ft) %	RQD (ft) %		REC (ft) %	RQD (ft) %		
										Continued from previous page
-104.2	103.0		1:05 1:15 1:30							LIMESTONE, boundstone, white (10YR8/1), hard, indurated, few vugs, fossiliferous, trace shell molds and casts, strong HCl reaction (Lower Fort Thompson Formation) (continued)
		5.0	1:40 1:25 1:00 0:55 1:45	(4.0) 80%	(2.1) 42%	RUN-19				103.0ft: moderately hard to medium hard, some shell casts
-109.2	108.0									
		5.0	1:29 1:00 0:15 0:18 0:10	(1.1) 22%	(0.5) 10%	RUN-20				108.0ft: moderately hard, sandy
-114.2	113.0						(0.0) 0%	(NA)		Silty SAND (SM), light gray (10YR7/2), dense, wet, fine grained sand, strong HCl reaction (Tamiami Formation)
		5.0	0:10 0:05 0:08 0:15 0:31	(0.0) 0%	(0.0) 0%	RUN-21				
-119.2	118.0									
										Coring Terminated at Elevation -119.2

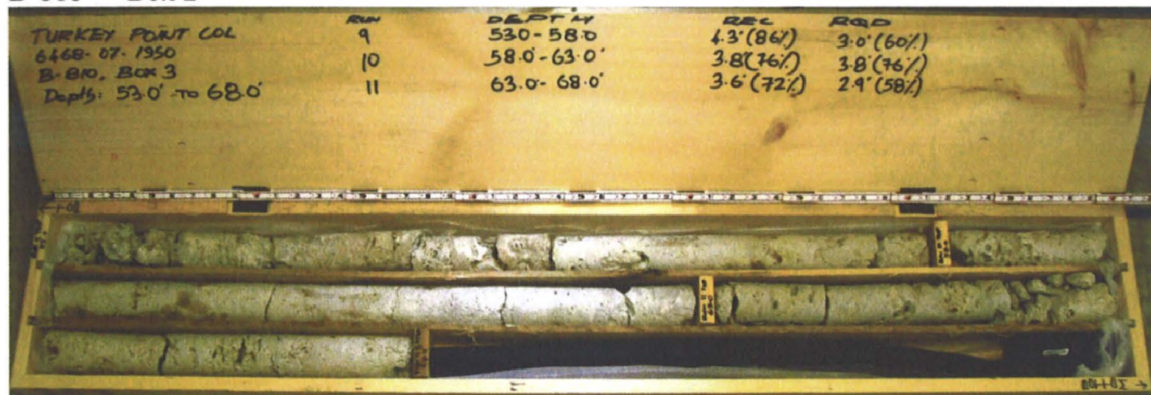
TURKEY POINT COL CORE TURKEY POINT GPJ TURKEY POINT COL CDT 7/16/08



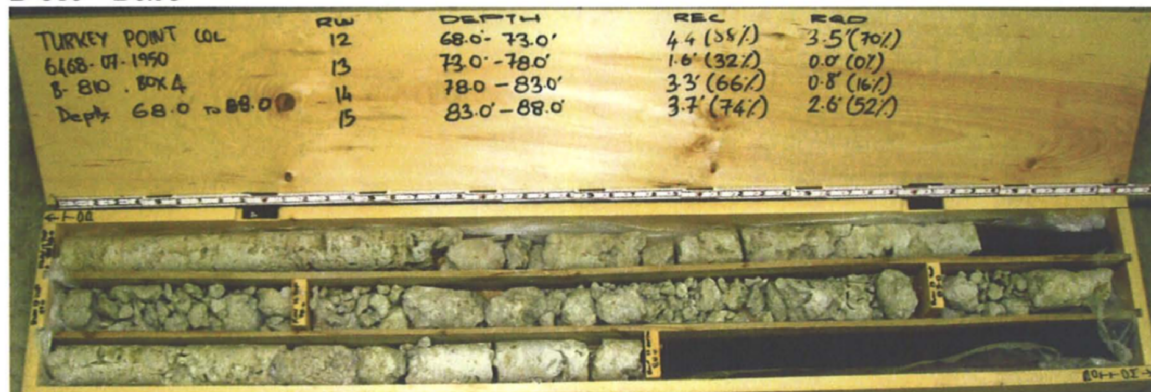
B-810- Box 1



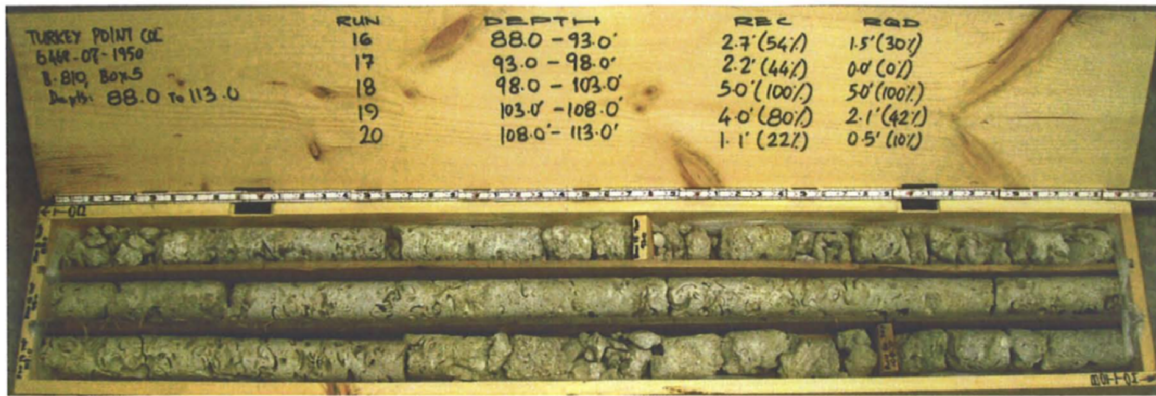
B-810 - Box 2



B-810 - Box 3



B-810 - Box 4



B-810 - Box 5

GEOTECHNICAL BORING LOG

Prepared By 227 Date 07-30-08

Checked By 11/11 Date 5-30-08

SHEET 1 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-811					DRILL METHOD: Mud Rotary/ Core					SAMPLE METHODS: SPT/Core					0 HR. NA		
GROUND ELEV.: -1.4 ft (NAVD88)					NORTHING: 398,325 US ft (NAD83/90)					EASTING: 874,954 US ft (NAD83/90)					24 HR. NA		
TOTAL DEPTH: 127.3 ft			BORING DIAMETER: 4" to 127.3'					CASING DEPTH: 4" to 125.1'					HAMMER (ID): 140 lb. Auto (M06)				
DATE STARTED: 5/13/08			COMPLETED: 5/15/08			CORE SIZE: HQ3			BITS USED: 2 7/8" Roller Cone								
ELEV.	DEPTH	BLOW COUNT			BLOWS PER FOOT					SAMP.	LOG	SOIL AND ROCK DESCRIPTION					
(ft)	(ft)	0.5ft	0.5ft	0.5ft	0	20	40	60	80	100			NO.				
-1.4					Ground Surface												
-1.4	0.0	WOH	WOH	WOH	0						811-1	-1.4	MUCK, black (2.5Y2.5/1), very soft, wet, strong HCl reaction				
-4.3	2.9										811-2	-5.3					
-6.5	5.1	WOH	WOH	2							811-3		LIMESTONE, boundstone, light gray (2.5Y7/1), very soft, wet, some fine grained sand, strong HCl reaction, oolitic (Miami Formation)				
-8.8	7.4										811-4						
		11	8	5													
		12	5	14													
-11.4	10.0										811-5		10.0ft: hard, little sand				
		6	9	50/0.2													
-13.7	12.3										811-6		12.3ft: soft				
		9	12	9													
-15.9	14.5										811-7		14.5ft: medium hard, few sand				
		9	24	14													
-22.3	20.9										811-8		20.9ft: very soft, trace fine grained sand				
		3	7	5													
-27.8	26.4										811-9	-26.4	LIMESTONE, boundstone, white (2.5Y8/1), moderately hard, wet, little fine grained sand, strong HCl reaction (Upper Fort Thompson Formation)				
		14	18	37													
-32.6	31.2										811-10		31.2ft: very soft, trace sand				
		16	8	5													
-37.8	36.4										811-11		36.4ft: hard				
-38.5	37.1										RUN-1		37.1ft: Switch sampling method to coring				
		22	50/0.2										37.1ft: indurated, few vugs, fossiliferous, recrystallized calcite				
-42.7	41.3										RUN-2		41.3ft: white (2.5Y8/1) to 45.3ft then gray (10YR6/1) to 46.3ft				
-47.7	46.3										RUN-3	-47.7	LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, trace vugs, fossiliferous, recrystallized calcite, strong HCl reaction (Lower Fort Thompson Formation)				
-52.7	51.3										RUN-4		51.3ft: medium hard to hard, friable to indurated, trace fine grained sand				
-57.7	56.3										RUN-5						
-62.7	61.3										RUN-6	-62.7	POORLY GRADED SAND (SP), white (2.5Y8/1), wet, strong HCl reaction				
													61.3 to 65.3: rod drop				
-67.7	66.3											-66.7	66.3ft: Switch sampling method to SPT				
-69.2	67.8	13	9	8							811-12		66.3ft: LIMESTONE, boundstone, white (2.5Y8/1), very soft, friable to indurated, some fine sand, little vugs, strong HCl reaction, fossiliferous				
											RUN-7		67.8ft: Switch sampling method to coring				
-72.7	71.3										RUN-8		71.3ft: moderately hard, indurated				



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-811			DRILL METHOD: Mud Rotary/ Core			SAMPLE METHODS: SPT/Core			0 HR. NA				
GROUND ELEV.: -1.4 ft (NAVD88)			NORTHING: 398,325 US ft (NAD83/90)			EASTING: 874,954 US ft (NAD83/90)			24 HR. NA				
TOTAL DEPTH: 127.3 ft			BORING DIAMETER: 4" to 127.3'			CASING DEPTH: 4" to 125.1'			HAMMER (ID): 140 lb. Auto (M06)				
DATE STARTED: 5/13/08			COMPLETED: 5/15/08			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			
-76.2					Continued from previous page								
-77.7	76.3										RUN-9		66.3ft: Switch sampling method to SPT 66.3ft: LIMESTONE, boundstone, white (2.5Y8/1), very soft, friable to indurated, some fine sand, little vugs, strong HCl reaction, fossiliferous (continued)
-82.7	81.3										RUN-10		76.3ft: medium hard to hard, friable to indurated, trace fine grained sand
-87.7	86.3										RUN-11		81.3ft: moderately hard, moderately indurated, mostly vugs
-92.7	91.3										RUN-12		86.3ft: friable to indurated, few vugs
-97.7	96.3										RUN-13		91.3ft: medium hard to moderately hard, some vugs
-102.7	101.3										RUN-14		96.3ft: friable to moderately indurated, some fine grained sand
-107.7	106.3										RUN-15		101.3ft: moderately hard, moderately indurated, mostly vugs
-112.7	111.3										RUN-16		106.3ft: medium hard to moderately hard, friable to moderately indurated, little sand
-118.5	117.1	6	3	2	5						811-13		112.7ft: POORLY GRADED SAND (SP), light gray (2.5Y8/1), wet, fine grained sand, limestone fragments, strong HCl reaction (Tamiami Formation)
-127.2	125.8	3	3	5	8						811-14		117.1ft: Switch sampling method to SPT 117.1ft: pale yellow (2.5Y7/3), loose
													125.8ft: greenish gray (10Y5/1)
													Boring Terminated at Elevation -128.7 ft

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



SHEET 1 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-811				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core				0 HR. NA	
GROUND ELEV.: -1.4 ft (NAVD88)				NORTHING: 398,325 US ft (NAD83/90)				EASTING: 874,954 US ft (NAD83/90)				24 HR. NA	
TOTAL DEPTH: 127.3 ft				CASING DEPTH: 4" to 125.1'						HAMMER (ID): 140 lb. Auto (M06)			
DATE STARTED: 5/13/08		COMPLETED: 5/15/08		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 @ 37.1 ft		
-38.5	37.1	4.2	0:55 0:51 0:49 1:21/1.2	(4.2) 100%	(2.9) 69%	RUN-1	(9.0) 98%	(7.1) 77%			LIMESTONE, boundstone, white (2.5Y8/1), moderately hard, wet, little fine grained sand, strong HCl reaction (Upper Fort Thompson Formation) (continued) 37.1ft: indurated, few vugs, fossiliferous, recrystallized calcite 41.3ft: white (2.5Y8/1) to 45.3ft then gray (10YR6/1) to 46.3ft		
-42.7	41.3												
		5.0	1:30 1:24 1:03 1:10 1:18	(4.8) 96%	(4.2) 84%	RUN-2							
-47.7	46.3												
		5.0	1:10 1:29 1:20 1:03 0:35	(5.0) 100%	(3.6) 72%	RUN-3	(11.7) 78%	(6.3) 42%			LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, trace vugs, fossiliferous, recrystallized calcite, strong HCl reaction (Lower Fort Thompson Formation)		
-52.7	51.3												
		5.0	1:21 0:51 0:15 0:31 0:43	(3.4) 68%	(1.8) 36%	RUN-4					51.3ft: medium hard to hard, friable to indurated, trace fine grained sand		
-57.7	56.3												
		5.0	0:50 0:47 0:33 0:31 0:46	(3.3) 66%	(0.9) 18%	RUN-5							
-62.7	61.3												
		5.0	NA NA NA NA 0:31	(1.5) 30%	(0.0) 0%	RUN-6	(1.5) 38%	(NA)			POORLY GRADED SAND (SP), white (2.5Y8/1), wet, strong HCl reaction 61.3 to 65.3: rod drop		
-67.7	66.3												
			N=17			811-12	(29.5) 64%	(5.1) 11%			66.3ft: Switch sampling method to SPT 66.3ft: LIMESTONE, boundstone, white (2.5Y8/1), very soft, friable to indurated, some fine sand, little vugs, strong HCl reaction, fossiliferous 67.8ft: Switch sampling method to coring 67.8ft: medium hard to hard		
-69.2	67.8	3.5	0:25/0.5 0:50 0:55 0:40	(2.7) 77%	(0.0) 0%	RUN-7					71.3ft: moderately hard, indurated		
-72.7	71.3												
		5.0	0:44 0:17 0:40 0:38 0:36	(2.4) 48%	(0.0) 0%	RUN-8					76.3ft: medium hard to hard, friable to indurated, trace fine grained sand		
-77.7	76.3												
		5.0	0:19 0:16 0:18 0:57 1:35	(1.5) 30%	(0.0) 0%	RUN-9					81.3ft: moderately hard, moderately indurated, mostly vugs		
-82.7	81.3												
		5.0	1:10 0:49 0:29 1:02 0:56	(3.1) 62%	(0.7) 14%	RUN-10					86.3ft: friable to indurated, few vugs		
-87.7	86.3												
		5.0	0:59 1:17 0:42 0:13 0:43	(3.7) 74%	(0.8) 16%	RUN-11					91.3ft: medium hard to moderately hard, some vugs		
-92.7	91.3												
		5.0	0:38 0:59 0:43 0:44 0:27	(4.3) 86%	(0.7) 14%	RUN-12					96.3ft: friable to moderately indurated, some fine grained sand		
-97.7	96.3												
		5.0	0:55 0:52 0:51 0:48 0:57	(4.4) 88%	(1.4) 28%	RUN-13					101.3ft: moderately hard, moderately indurated, mostly vugs		
-102.7	101.3												
		5.0	1:12 0:49 0:38 0:42 0:20	(4.8) 96%	(1.2) 24%	RUN-14					106.3ft: medium hard to moderately hard, friable to moderately indurated, little sand		
-107.7	106.3												
		5.0	0:37 0:46 0:48 0:15 1:03	(2.6) 52%	(0.3) 6%	RUN-15							
-112.7	111.3												

TURKEY POINT COL CORE TURKEY POINT GPJ TURKEY POINT COL GDI 5.30/08

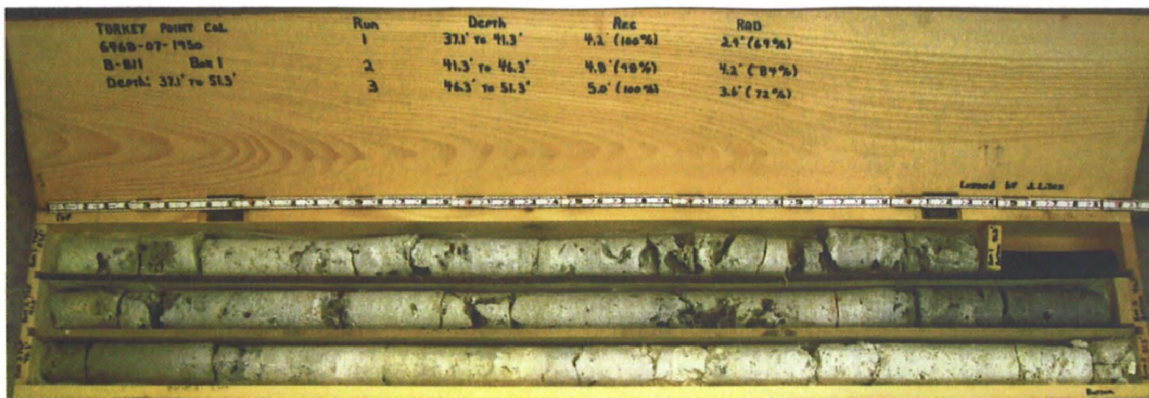


SHEET 2 OF 2

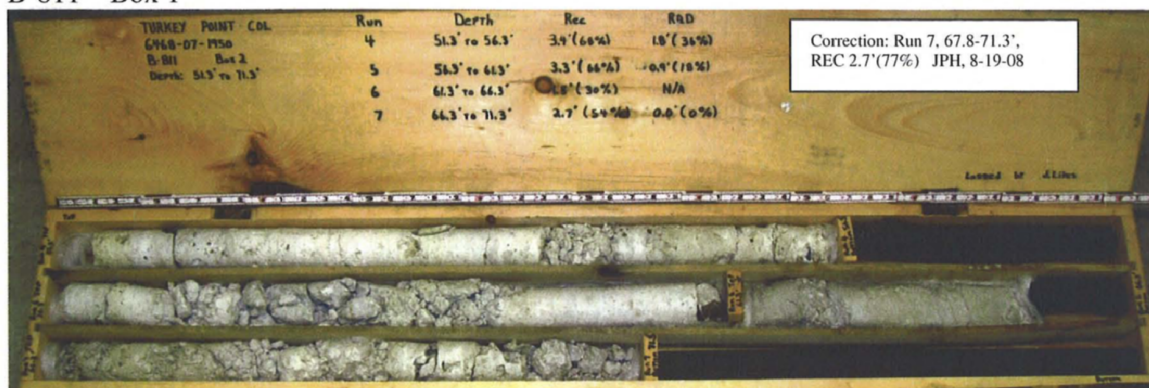
BECHTEL PROJECT NO.: 25409				MACTEC PROJECT NO.: 6468-07-1950				COUNTY: Miami-Dade		GEOLOGIST: J. Liles	
SITE DESCRIPTION: Turkey Point COL				DRILL MACHINE: CME-550 (Miller)				DRILLER: R. White/ J. Dugger/ C. White		GROUND WATER (ft)	
BORING NO.: B-811				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core		0 HR. NA	
GROUND ELEV.: -1.4 ft (NAVD88)				NORTHING: 398,325 US ft (NAD83/90)				EASTING: 874,954 US ft (NAD83/90)		24 HR. NA	
TOTAL DEPTH: 127.3 ft				CASING DEPTH: 4" to 125.1'				HAMMER (ID): 140 lb. Auto (M06)			
DATE STARTED: 5/13/08				COMPLETED: 5/15/08		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		L O G	DESCRIPTION AND REMARKS
				REC. (ft) %	RQD (ft) %		REC. (ft) %	RQD (ft) %		
										Continued from previous page
-117.7	116.3	5.0	0:37 0:34 0:24 0:48 0:34	(2.0) 40%	(0.0) 0%	RUN-16	(2.0) 40%	(NA)		POORLY GRADED SAND (SP), light gray (2.5Y8/1), wet, fine grained sand, limestone fragments, strong HCl reaction (Tamiami Formation) <i>(continued)</i>
										Coring Terminated at Elevation -117.7

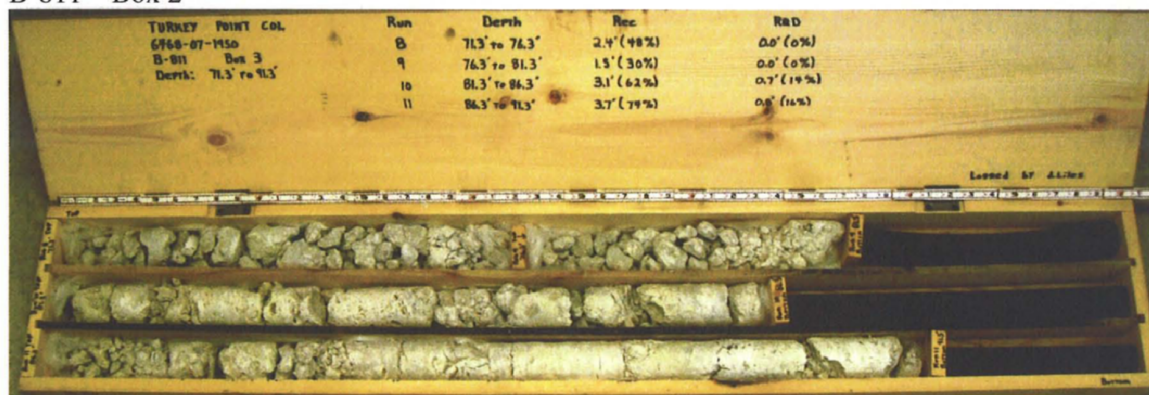
TURKEY POINT COL CORE TURKEY POINT GPJ TURKEY POINT COL.GDT 5/30/08



B-811 - Box 1



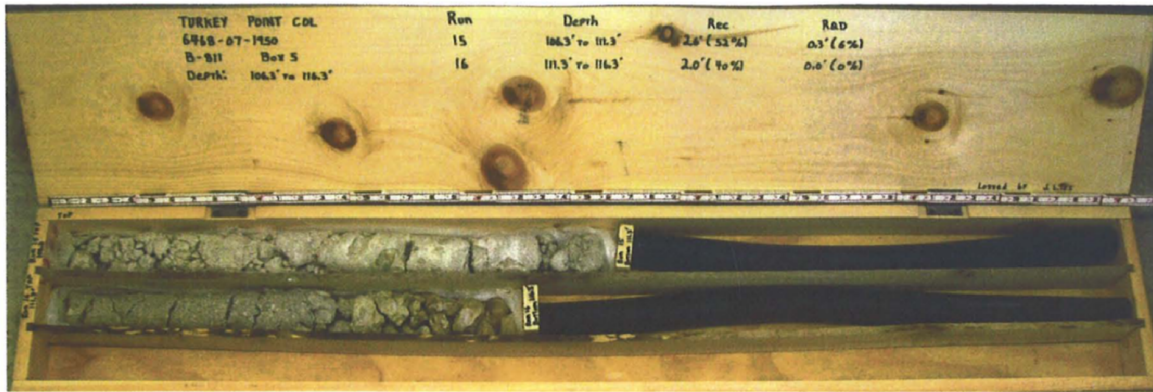
B-811 - Box 2



B-811 - Box 3



B-811 - Box 4



B-811 - Box 5



GEOTECHNICAL BORING LOG

Prepared By JPZ Date 5-30-08Checked By Jim Date 5-30-08

SHEET 1 OF 2

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 Marsh Buggy					DRILLER: D. White/ R. Hall				GROUND WATER (ft)			
BORING NO.: B-812					DRILL METHOD: Mud Rotary/ Core					SAMPLE METHODS: SPT/Core				0 HR. NA			
GROUND ELEV.: -1.4 ft (NAVD88)					NORTHING: 398,913 US ft (NAD83/90)					EASTING: 875,043 US ft (NAD83/90)				24 HR. NA			
TOTAL DEPTH: 128.7 ft			BORING DIAMETER: 4" to 128.7'					CASING DEPTH: 4" to 35.0'					HAMMER (ID): 140 lb. Auto (893)				
DATE STARTED: 4/19/08			COMPLETED: 4/22/08			CORE SIZE: HQ3			BITS USED: 2 15/16" 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							
-1.4					Ground Surface												
-1.4	0.0	WOH	WOH	WOH	0									-1.4	0.0	Sandy FAT CLAY (CH), very pale brown (10YR7/2), very soft, wet, some fine grained sand, trace organics, trace shell fragments, strong HCl reaction	-1.5
-3.9	2.5	4	43	20										-4.1	2.7		
-6.4	5.0	7	6	6												MUCK, very dark gray (10YR3/1), soft, wet, mostly organic, trace shell fragments, strong HCl reaction	
-8.9	7.5	14	7	11													
-11.4	10.0	11	11	16												LIMESTONE, boundstone, white (10YR8/1), hard, wet, fossiliferous, strong HCl reaction, oolitic (Miami Formation)	
-13.9	12.5	9	12	10													
-16.4	15.0	18	11	12												5.0ft: very soft	
																10.0ft: soft, trace fine grained sand	
-20.7	19.3	7	2	1												12.5ft: trace coarse sand	
		1	1	1												15.0ft: fine grained sand	
-25.7	24.3																
-30.4	29.0	9	26	48												19.3ft: very soft	
-35.4	34.0																
-35.6	34.2	50/0.2															
-38.6	37.2																
-43.6	42.2																
-48.6	47.2																
-53.6	52.2																
-58.6	57.2																
-63.6	62.2																
-65.1	63.7	12	5	2													
-68.6	67.2																
-73.6	72.2																
-75.1	73.7	5	1	1													

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