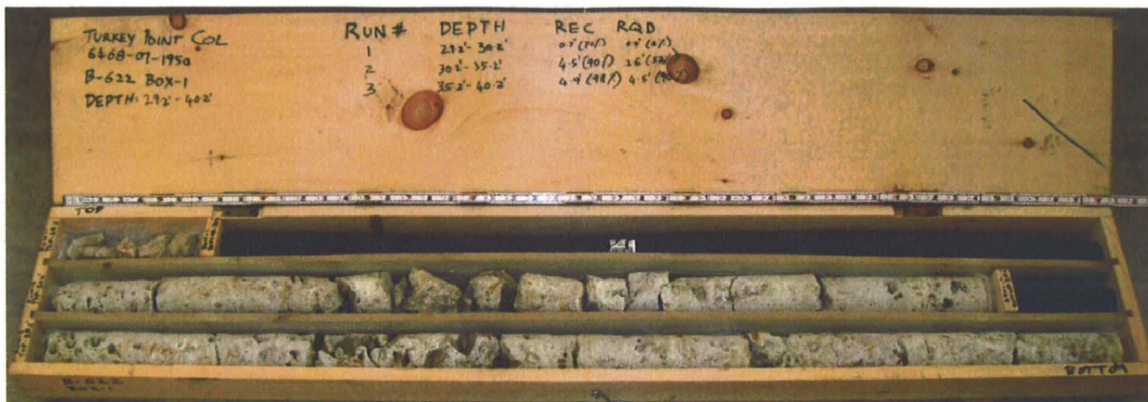




BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: G. Pillappa	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-55 LC (RAL)		DRILLER: R. Banks/ J. Rosser		GROUND WATER (ft)	
BORING NO.: B-622		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA	
GROUND ELEV.: 0.2 ft (NAVD88)		NORTHING: 397,421 US ft (NAD83/90)		EASTING: 876,811 US ft (NAD83/90)		24 HR. NA	
TOTAL DEPTH: 100.2 ft		CASING DEPTH: 4" to 28.9'				HAMMER (ID): 140 lb. Auto (MEC-02)	
DATE STARTED: 4/4/08		COMPLETED: 4/6/08		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 @ 29.2 ft
-29.0	29.2	1.0	1:20	(0.7)	(0.0)	RUN-1	(16.8)	(10.2)		LIMESTONE, boundstone, white (10YR8/1), hard, wet, fossiliferous, strong HCl reaction (Upper Fort Thompson Formation) (continued)
-30.0	30.2	5.0	0:59 0:30 0:29 0:38 0:37	70%	0%	RUN-2	90%	55%		
-35.0	35.2	5.0	0:49 0:30 0:30 0:26 0:27	(4.5) 90%	(2.6) 52%					29.2ft: white (10YR8/1), hard, indurated, trace coralline, strong HCl reaction, few vugs
		5.0	0:49 0:30 0:30 0:26 0:27	(4.9) 98%	(4.5) 90%	RUN-3				
-40.0	40.2	5.0	0:36 0:41 0:21 0:28 0:36	(4.6) 92%	(2.4) 48%	RUN-4				40.2ft: recrystallized calcite
-45.0	45.2	5.0	0:40 0:31 0:28 0:47 0:50	(4.5) 90%	(1.9) 38%	RUN-5				45.2ft: white (10YR8/1) to 46.5ft then light gray (10YR7/1) to 47.8ft
-50.0	50.2	5.0	0:51 0:42 0:33 0:30 0:30	(4.4) 88%	(3.9) 78%	RUN-6	(31.1) 59%	(11.9) 23%		-47.6 LIMESTONE, boundstone, white (10YR8/1), hard, indurated, trace vugs, trace to few gastropod shell molds and casts, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation) 47.8
-55.0	55.2	5.0	0:29 0:22 0:16 0:23 0:24	(4.0) 80%	(0.0) 0%	RUN-7				55.2ft: moderately hard to hard, moderately indurated to indurated, few shell molds and casts
-60.0	60.2	5.0	0:31 0:19 0:30 0:29 0:35	(3.1) 62%	(1.5) 30%	RUN-8				60.2ft: hard, indurated
-65.0	65.2	5.0	0:32 0:35 0:12 0:10 0:21	(2.2) 44%	(0.4) 8%	RUN-9				
-70.0	70.2	5.0	0:28 0:28 0:49 0:34 0:32	(2.1) 42%	(1.5) 30%	RUN-10				
-75.0	75.2	5.0	0:43 0:36 0:37 0:40 0:50	(2.3) 46%	(0.0) 0%	RUN-11				75.2ft: moderately hard to hard, moderately indurated
-80.0	80.2	5.0	0:50 0:43 0:17 0:24 0:28	(3.3) 66%	(1.6) 32%	RUN-12				80.2ft: moderately hard, moderately indurated
-85.0	85.2	5.0	0:28 0:15 0:16 0:24 0:41	(2.3) 46%	(0.5) 10%	RUN-13				85.2ft: trace fine grained sand
-90.0	90.2	5.0	0:26 0:24 0:23 0:33 0:35	(3.0) 60%	(1.3) 26%	RUN-14				90.2ft: hard, indurated, few to little shell molds and casts
-95.0	95.2	5.0	0:24 0:20 0:13 0:23 0:18	(2.0) 40%	(0.0) 0%	RUN-15				95.2ft: moderately hard to hard, moderately indurated, trace shell molds and casts
-100.0	100.2									-100.0 Coring Terminated at Elevation -100.0 100.2

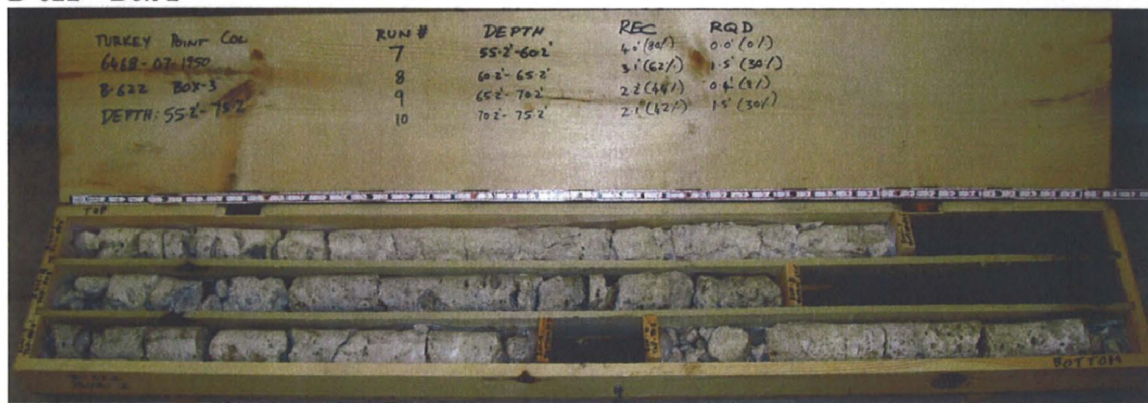
TURKEY POINT CORE TURKEY POINT COL GDI 8/18/08



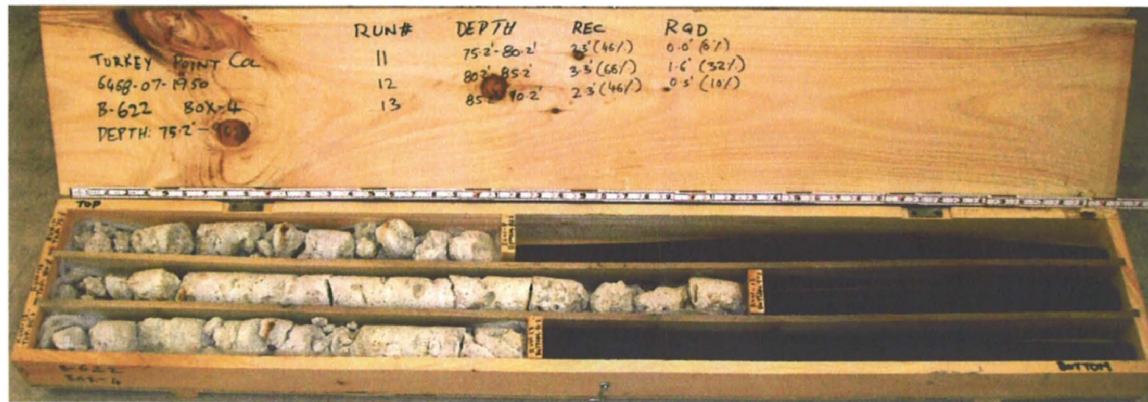
B-622 - Box 1



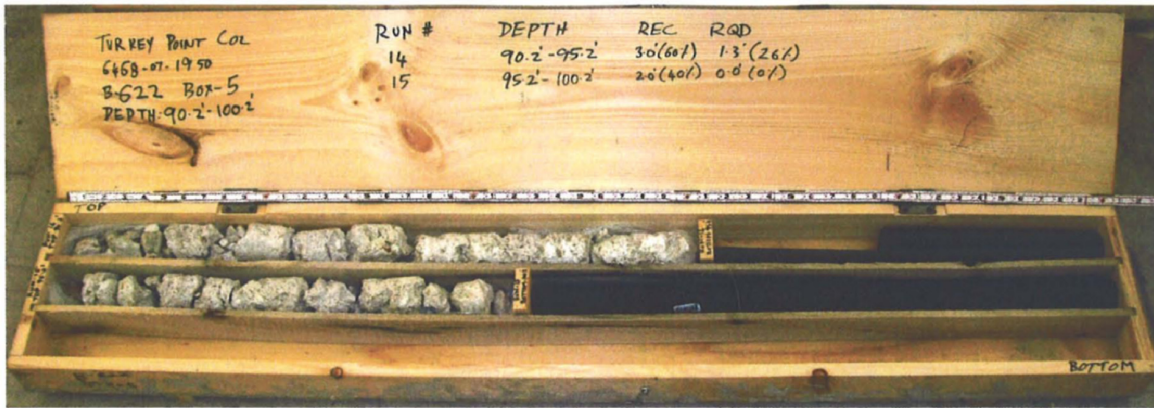
B-622 - Box 2



B-622 - Box 3



B-622 - Box 4



B-622 - Box 5



GEOTECHNICAL BORING LOG

Prepared By JPJ Date 5-30-08

Checked By JPJ Date 5-30-08

SHEET 1 OF 2

BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: G. Pillappa							
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-55 LC (RAL)		DRILLER: R. Banks/ J. Rosser		GROUND WATER (ft)							
BORING NO.: B-623		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR.	NA						
GROUND ELEV.: -1.3 ft (NAVD88)		NORTHING: 397,423 US ft (NAD83/90)		EASTING: 876,523 US ft (NAD83/90)		24 HR.	NA						
TOTAL DEPTH: 100.2 ft		BORING DIAMETER: 4" to 33.8", 3" to 100.2'		CASING DEPTH: 4" to 33.8', 3" to 100.2'		HAMMER (ID): 140 lb. Auto (MEC-02)							
DATE STARTED: 4/1/08		COMPLETED: 4/2/08		CORE SIZE: HQ3		BITS USED: 3 7/8" 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			
-1.3	0.0	WOH	WOH	WOH	Ground Surface								
-3.8	2.5	WOH	WOH	2							623-1		MUCK, light brownish gray (10YR6/3), to very dark gray (10YR3/1), wet, mostly organic, strong HCl reaction
-5.8	4.5	5	9	9							623-2		Field notes do not indicate that sample 623-2 was split into separate jars
-8.3	7.0	5	9	7							623-3		LIMESTONE, boundstone, white (10YR8/1), very soft, wet, trace organics at top of formation, strong HCl reaction (Miami Formation)
-10.3	9.0	3	5	5							623-4		4.5ft: oolitic
-12.8	11.5	3	5	18							623-5		11.5ft: soft
-15.3	14.0	2	3	15							623-6		14.0ft: very soft
-19.3	18.0	5	7	5							623-7		
-24.8	23.5	3	4	25							623-8		
-29.8	28.5	25	37	7							623-9		23.5ft: soft
-34.8	33.5	50/0.4									623-10		LIMESTONE, boundstone, white (10YR8/1), medium hard, wet, trace shells, strong HCl reaction (Upper Fort Thompson Formation)
-36.5	35.2										623-11		33.5ft: hard
-41.5	40.2										RUN-1		35.2ft: Switch sampling method to coring
-46.5	45.2										RUN-2		35.2ft: white (10YR8/1), hard, indurated, fossiliferous, coralline, strong HCl reaction, few vugs
-51.5	50.2										RUN-3		45.2ft: white (10YR8/1) to 46.6ft then gray (10YR6/1) to 48.5ft, trace coralline
-56.5	55.2										RUN-4		LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, few vugs, trace to few shells and shell molds/casts, strong HCl reaction (Lower Fort Thompson Formation)
-61.5	60.2										RUN-5		
-66.5	65.2										RUN-6		
-71.5	70.2										RUN-7		65.2ft: trace fine sand

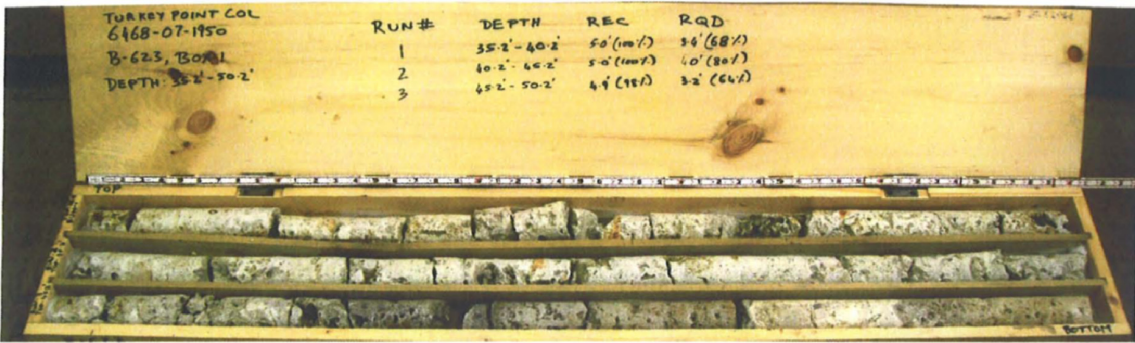
TURKEY POINT COL BORE TURKEY POINT GPJ TURKEY POINT COL GDT 5-30-08



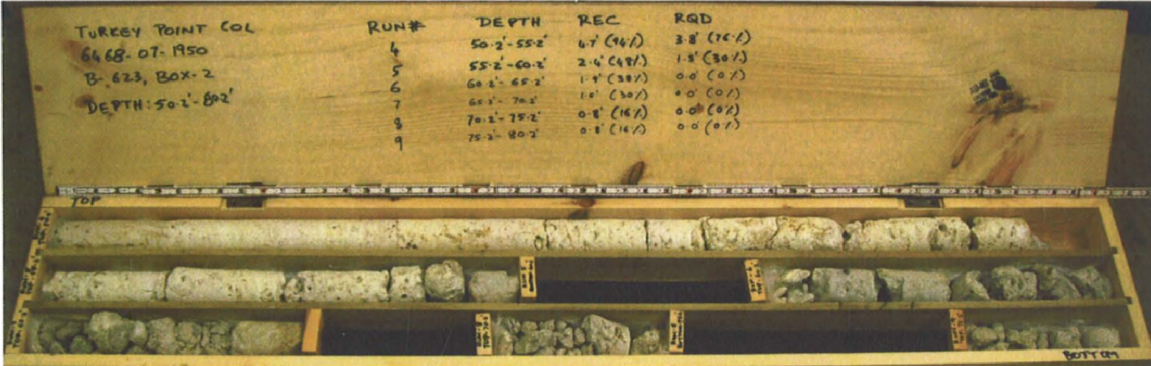
BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: G. Pillappa	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-55 LC (RAL)		DRILLER: R. Banks/ J. Rosser		GROUND WATER (ft)	
BORING NO.: B-623		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA	
GROUND ELEV.: -1.3 ft (NAVD88)		NORTHING: 397,423 US ft (NAD83/90)		EASTING: 876,523 US ft (NAD83/90)		24 HR. NA	
TOTAL DEPTH: 100.2 ft		CASING DEPTH: 4" to 33.8', 3" to 100.2'				HAMMER (ID): 140 lb. Auto (MEC-02)	
DATE STARTED: 4/1/08		COMPLETED: 4/2/08		CORE SIZE: HQ3		CORE BARREL TYPE: Triple Tube Wireline (Split inner liners)	

ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC. (ft) %	RQD (ft) %		REC. (ft) %	RQD (ft) %		
										Begin Coring @ 35.2 ft
-36.5	35.2	5.0	0.45 0.27 0.23 0.27 0.32	(5.0) 100%	(3.4) 68%	RUN-1	(13.2) 99%	(8.9) 67%		LIMESTONE, boundstone, white (10YR8/1), medium hard, wet, trace shells, strong HCl reaction (Upper Fort Thompson Formation) (continued)
-41.5	40.2									35.2ft: white (10YR8/1), hard, indurated, fossiliferous, coralline, strong HCl reaction, few vugs
		5.0	0.29 0.29 0.31 0.22 0.24	(5.0) 100%	(4.0) 80%	RUN-2				
-46.5	45.2									
		5.0	0.21 0.28 0.29 0.30 0.25	(4.9) 98%	(3.2) 64%	RUN-3				45.2ft: white (10YR8/1) to 46.6ft then gray (10YR6/1) to 48.5ft, trace coralline
-51.5	50.2						(23.2) 45%	(10.2) 20%	-49.8	LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, few vugs, trace to few shells and shell molds/casts, strong HCl reaction (Lower Fort Thompson Formation)
		5.0	0.30 0.33 0.23 0.17 0.23	(4.7) 94%	(3.8) 76%	RUN-4				
-56.5	55.2									
		5.0	0.20 0.16 0.06 0.07 0.18	(2.4) 48%	(1.5) 30%	RUN-5				
-61.5	60.2									
		5.0	0.20 0.16 0.10 0.06 0.21	(1.9) 38%	(0.0) 0%	RUN-6				
-66.5	65.2									
		5.0	0.13 0.15 0.20 1:16 0:14	(1.5) 30%	(0.0) 0%	RUN-7				65.2ft: trace fine sand
-71.5	70.2									
		5.0	0.26 0.12 0.16 0.17 0.12	(0.8) 16%	(0.0) 0%	RUN-8				
-76.5	75.2									
		5.0	0.15 0.25 0.27 0.20 0.14	(0.8) 16%	(0.0) 0%	RUN-9				
-81.5	80.2									
		5.0	0.19 0.23 0.26 0.28 0.19	(0.5) 10%	(0.0) 0%	RUN-10				
-86.5	85.2									
			N=22			623-72				
-88.0	86.7	3.5	0:10/0.5 0:17 0:23 0:31	(2.4) 69%	(0.5) 14%	RUN-11				85.2ft: Switch sampling method to SPT 85.2ft: white (10YR8/1), soft, wet, some fine grained sand, strong HCl reaction 86.7ft: Switch sampling method to coring 86.7ft: hard, indurated, fossiliferous, few vugs
-91.5	90.2									
		5.0	0.30 0.19 0.18 0.25 0.28	(4.3) 86%	(2.7) 54%	RUN-12				
-96.5	95.2									
		5.0	0.16 0.15 0.14 0.18 0.17	(2.2) 44%	(0.0) 0%	RUN-13				
-101.5	100.2								-101.5	Coring Terminated at Elevation -101.5

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



B-623 - Box 1



B-623 - Box 2



B-623 - Box 3



GEOTECHNICAL BORING LOG

Prepared By APZ Date 5-30-08

Checked By APM Date 5-30-08

SHEET 1 OF 2

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-624		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR.	NA							
GROUND ELEV.: -1.4 ft (NAVD88)		NORTHING: 397,327 US ft (NAD83/90)		EASTING: 876,514 US ft (NAD83/90)		24 HR.	NA							
TOTAL DEPTH: 103.2 ft		BORING DIAMETER: 4" to 36.0', 3" to 103.2'		CASING DEPTH: 4" to 36.0', 3" to 103.0'		HAMMER (ID): 140 lb. Auto (MEC-03)								
DATE STARTED: 4/1/08		COMPLETED: 4/2/08		CORE SIZE: HQ3		BITS USED: 4" 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	
-1.4					Ground Surface								0.0	
-1.4	0.0	WOR	WOR	WOR							624-1		MUCK, light olive brown (2.5Y5/3), to very dark grayish brown (2.5Y3/2), very soft, wet, organic, strong HCl reaction	3.0
-3.9	2.5	3	7	7							624-2A&B			
-6.4	5.0	12	12	9							624-3		LIMESTONE, boundstone, pale yellow (2.5Y8/2), to light gray (2.5Y7/1), very soft, wet, trace sand, strong HCl reaction, oolitic (Miami Formation)	
-8.9	7.5	5	48	9							624-4		5.0ft: soft	
-11.4	10.0	5	5	16							624-5		7.5ft: white (10YR8/1), to gray (10YR5/1), hard, fossiliferous	
-13.9	12.5	6	17	17							624-6		10.0ft: white (10YR8/1), soft	
-16.4	15.0	6	4	16							624-7		12.5ft: white (2.5Y8/1), to light gray (2.5Y7/1), medium hard, trace sand	
-20.9	19.5	5	5	4							624-8		15.0ft: soft	
-25.9	24.5	25	14	19							624-9		19.5ft: white (10YR8/1), very soft	24.0
-30.9	29.5	26	46	34							624-10		LIMESTONE, boundstone, white (2.5Y8/1), medium hard, fossiliferous, strong HCl reaction (Upper Fort Thompson Formation)	
-35.9	34.5										624-11		29.5ft: light gray (2.5Y7/1), hard	
-37.1	35.7	11	48	50/0.2							RUN-1		34.5ft: mottled gray (2.5Y6/1)	
-39.6	38.2										RUN-2		35.7ft: Switch sampling method to coring	
-44.6	43.2										RUN-3		35.7ft: white (10YR8/1), to light gray (10YR7/1), hard, indurated, coralline, recrystallized calcite, strong HCl reaction, few to little vugs	
-49.6	48.2										RUN-4		36.8ft: loss of circulation	
-54.6	53.2										RUN-5		38.2ft: white (2.5Y8/1), mottled light gray (10YR7/1), and olive yellow (2.5Y6/6)	
-59.6	58.2										RUN-6		43.2ft: white (10YR8/1), to 46.6ft then grayish brown (10YR5/2), fossiliferous, trace vugs	48.2
-64.6	63.2										RUN-7		LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, little to few vugs, strong HCl reaction (Lower Fort Thompson Formation)	
-66.6	65.2										RUN-8		53.2ft: white (2.5Y8/1), hard to moderately hard	
-69.6	68.2										RUN-9		58.2ft: white (5Y8/1), medium hard to hard, moderately indurated, some coarse grained sand, few vugs	
-74.6	73.2										RUN-10		63.2ft: white (10YR8/1), hard, indurated	
													65.2ft: white (2.5Y8/1)	
													73.2ft: white (10YR8/1)	

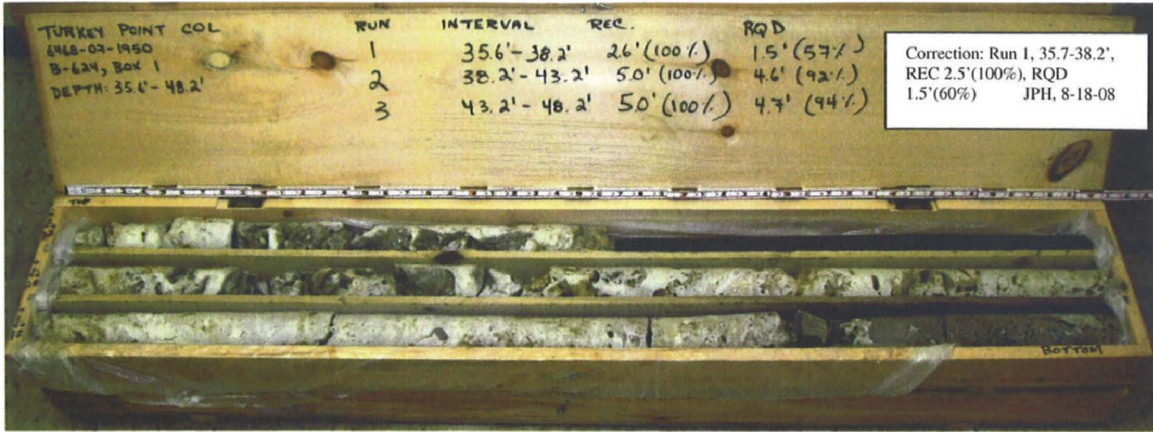
TURKEY POINT COL BORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 5/30/08



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) 0 HR. NA 24 HR. NA
BORING NO.: B-624		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		
GROUND ELEV.: -1.4 ft (NAVD88)		NORTHING: 397,327 US ft (NAD83/90)		EASTING: 876,514 US ft (NAD83/90)		
TOTAL DEPTH: 103.2 ft		CASING DEPTH: 4" to 36.0', 3" to 103.0'			HAMMER (ID): 140 lb. Auto (MEC-03)	
DATE STARTED: 4/1/08		COMPLETED: 4/2/08		CORE SIZE: HQ3	CORE BARREL TYPE: Triple Tube Wireline (Split inner liners)	

ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC (ft) %	RQD (ft) %		REC (ft) %	RQD (ft) %		
										Begin Coring @ 35.7 ft
-37.1 -39.6	35.7 38.2	2.5 5.0	1:27 1:29 1:80/0.5	(2.5) 100%	(1.5) 60%	RUN-1	(12.5) 100%	(10.8) 86%		LIMESTONE, boundstone, white (2.5Y8/1), medium hard, fossiliferous, strong HCl reaction (Upper Fort Thompson Formation) (continued)
			1:20 1:31 1:36 1:29 1:50	(5.0) 100%	(4.6) 92%	RUN-2				35.7ft: white (10YR8/1), to light gray (10YR7/1), hard, indurated, coralline, recrystallized calcite, strong HCl reaction, few to little vugs
-44.6	43.2	5.0		(5.0) 100%	(4.7) 94%	RUN-3				36.8ft: loss of circulation 38.2ft: white (2.5Y8/1), mottled light gray (10YR7/1), and olive yellow (2.5Y6/6)
-49.6	48.2	5.0	1:29 1:33 1:11 1:19 1:27	(5.0) 100%	(4.7) 94%	RUN-3				43.2ft: white (10YR8/1), to 46.6ft then grayish brown (10YR5/2), fossiliferous, trace vugs
			1:01 0:59 1:14 1:03 0:33	(5.0) 100%	(4.6) 92%	RUN-4	(40.7) 74%	(21.4) 39%		LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, little to few vugs, strong HCl reaction (Lower Fort Thompson Formation)
-54.6	53.2	5.0	0:18 0:25 0:34 0:16 0:03	(4.0) 80%	(1.7) 34%	RUN-5				53.2ft: white (2.5Y8/1), hard to moderately hard
-59.6	58.2	5.0	0:26 1:08 1:22 0:42 0:25	(4.3) 86%	(2.4) 48%	RUN-6				58.2ft: white (5Y8/1), medium hard to hard, moderately indurated, some coarse grained sand, few vugs
-64.6	63.2	2.0	0:23 0:35	(0.5) 25%	(0.0) 0%	RUN-7				63.2ft: white (10YR8/1), hard, indurated
-66.6	65.2	3.0	1:02 2:10 0:03	(2.0) 67%	(1.0) 33%	RUN-8				65.2ft: white (2.5Y8/1)
-69.6	68.2	5.0	0:09 0:26 1:00 1:52 1:52	(2.6) 52%	(0.4) 8%	RUN-9				
-74.6	73.2	3.0	0:57 0:40 1:50	(2.0) 67%	(0.0) 0%	RUN-10				73.2ft: white (10YR8/1)
-77.6	76.2	2.0	1:53 1:05	(2.0) 100%	(1.8) 90%	RUN-11				76.2ft: moderately hard, moderately indurated, some coarse sand
-84.6	83.2	5.0	1:35 1:10 1:16 1:20 0:50	(4.7) 94%	(3.5) 70%	RUN-12				
-89.6	88.2	5.0	0:45 0:03 0:07 1:59 0:48	(1.6) 32%	(0.0) 0%	RUN-13				84.2 to 86.2ft: sand lenses; very soft/fast drilling
-94.6	93.2	5.0	1:12 2:07 0:35 0:53 0:59	(4.3) 86%	(1.8) 36%	RUN-14				88.2ft: moderately hard to hard, trace vugs
-99.6	98.2	5.0	0:36 0:48 0:50 0:48 0:41	(4.0) 80%	(2.5) 50%	RUN-15				93.2ft: white (2.5Y8/1), moderately hard, moderately indurated
-104.6	103.2	5.0	0:52 0:47 0:21 0:33 0:30	(3.7) 74%	(1.7) 34%	RUN-16				98.2ft: hard, indurated, few vugs
										Coring Terminated at Elevation -104.6

TURKEY POINT COL CORE TURKEY POINT GPI TURKEY POINT COL GDI 5:30:08



B-624 - Box 1



B-624 - Box 2



B-624 - Box 3



B-624 - Box 4



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-625				DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA					
GROUND ELEV.: -1.4 ft (NAVD88)				NORTHING: 397,107 US ft (NAD83/90)		EASTING: 876,961 US ft (NAD83/90)		24 HR. NA					
TOTAL DEPTH: 126.7 ft		BORING DIAMETER: 4" to 15.1', 3" to 126.7'		CASING DEPTH: 4" to 15.1'		HAMMER (ID): 140 lb. Auto (M06)							
DATE STARTED: 3/23/08		COMPLETED: 3/24/08		CORE SIZE: HQ3		BITS USED: 2 7/8" 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
-1.4													0.0
-1.4	0.0	WOH	WOH	WOH									
-3.6	2.2									625-1		MUCK, black (2.5Y2.5/1), very soft, wet, strong HCl reaction, mostly organic, fibrous	2.8
-6.5	5.1	1	4	10						625-2A&B		LIMESTONE, boundstone, white (2.5Y8/1), very soft, wet, little to some fine grained sand, strong HCl reaction, oolitic (Miami Formation)	
-9.0	7.6	10	9	9						625-3			
-11.5	10.1	10	9	5						625-4		7.6ft: trace sand	
-13.9	12.5	8	6	8						625-5			
-16.6	15.2	9	13	12						625-6		12.5ft: soft	
-17.8	16.4	5	15	50/0.2						625-7		15.2ft: hard	
										RUN-1		16.4ft: Switch sampling method to coring	
-21.8	20.4									RUN-2		16.4ft: white (2.5Y8/1), moderately hard, moderately indurated, strong HCl reaction, trace coarse grained sand, locally interconnected vugs filled with sand	
-26.8	25.4									RUN-3		LIMESTONE, boundstone, white (2.5Y8/1), moderately hard, moderately indurated, strong HCl reaction, coralline, trace vugs (Upper Fort Thompson Formation)	24.0
-31.8	30.4									RUN-4			
-36.8	35.4									RUN-5			
-41.8	40.4									RUN-6		40.4ft: hard, indurated, recrystallized calcite, few vugs	
-46.8	45.4									RUN-7		45.4ft: white (2.5Y8/1) to 48.1ft then light gray (10YR7/1) to 50.4ft	
-51.8	50.4									RUN-8		LIMESTONE, boundstone, white (2.5Y8/1), moderately hard, moderately indurated, trace vugs, strong HCl reaction (Lower Fort Thompson Formation)	50.4
-56.8	55.4									RUN-9			
-61.8	60.4									RUN-10			
-66.8	65.4									RUN-11		POORLY GRADED SAND (SP), light gray (5Y7/1), wet, fine grained sand, strong HCl reaction, trace limestone fragments	65.4
-71.8	70.4									RUN-12		LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, strong HCl reaction, trace vugs	70.4

TURKEY POINT COL BORE TURKEY POINT G.P.I. TURKEY POINT COL GDT. 7/10/08



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-625		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR.	NA						
GROUND ELEV.: -1.4 ft (NAVD88)		NORTHING: 397,107 US ft (NAD83/90)		EASTING: 876,961 US ft (NAD83/90)		24 HR.	NA						
TOTAL DEPTH: 126.7 ft		BORING DIAMETER: 4" to 15.1', 3" to 126.7'		CASING DEPTH: 4" to 15.1'		HAMMER (ID): 140 lb. Auto (M06)							
DATE STARTED: 3/23/08		COMPLETED: 3/24/08		CORE SIZE: HQ3		BITS USED: 2 7/8" 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
-76.2					Continued from previous page								
-76.8	75.4												LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, strong HCl reaction, trace vugs (continued)
-81.8	80.4												75.4ft: moderately hard, moderately indurated
-86.8	85.4												80.4ft: fossiliferous, sandy
-91.8	90.4												85.4ft: some vugs
-96.8	95.4												90.4ft: indurated
-101.8	100.4												95.4ft: moderately indurated, few vugs
-106.8	105.4												100.4ft: mostly vugs, few shell molds and casts
-111.8	110.4												105.4ft: little to some shell molds and casts
-116.8	115.4												
-121.8	120.4	20	50/0.4										Silty SAND (SM), light gray (5Y7/1), wet, fine to coarse grained sand, strong HCl reaction, trace fine to coarse limestone gravel fragments (Tamiami Formation)
-126.6	125.2	5	8	12									120.4ft: Switch sampling method to SPT
													120.4ft: light olive gray (5Y6/2), very dense
													125.2ft: medium dense
													Boring Terminated at Elevation -128.1 ft

TURKEY POINT COL BORE TURKEY POINT GP1 TURKEY POINT COL GDT 7/10/08



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	
BORING NO.: B-625		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core	
GROUND ELEV.: -1.4 ft (NAVD88)		NORTHING: 397,107 US ft (NAD83/90)		EASTING: 876,961 US ft (NAD83/90)	
TOTAL DEPTH: 126.7 ft		CASING DEPTH: 4" to 15.1'			HAMMER (ID): 140 lb. Auto (M06)
DATE STARTED: 3/23/08		COMPLETED: 3/24/08		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	4.0	1:30 1:34 0:37 0:10	(1.0) 25%	(0.9) 23%	RUN-1	(1.9) 25%	(0.9) 12%		LIMESTONE, boundstone, white (2.5Y8/1), very soft, wet, little to some fine grained sand, strong HCl reaction, oolitic (Miami Formation) (continued)
-21.8	20.4									16.4ft: white (2.5Y8/1), moderately hard, moderately indurated, strong HCl reaction, trace coarse grained sand, locally interconnected vugs filled with sand
		5.0	0:15 0:21 0:22 1:31 1:15	(0.9) 18%	(0.0) 0%	RUN-2				
-26.8	25.4						(18.4) 70%	(13.2) 50%		LIMESTONE, boundstone, white (2.5Y8/1), moderately hard, moderately indurated, strong HCl reaction, coralline, trace vugs (Upper Fort Thompson Formation)
		5.0	1:31 1:07 1:10 1:22 1:44	(4.0) 80%	(2.1) 42%	RUN-3				
-31.8	30.4									
		5.0	1:27 1:49 0:51 0:52 1:49	(2.8) 56%	(1.9) 38%	RUN-4				
-36.8	35.4									
		5.0	0:42 1:11 0:37 0:32 0:05	(2.0) 40%	(1.1) 22%	RUN-5				
-41.8	40.4									
		5.0	1:34 1:23 1:28 2:15 2:04	(4.6) 92%	(3.8) 76%	RUN-6				40.4ft: hard, indurated, recrystallized calcite, few vugs
-46.8	45.4									
		5.0	3:50 1:45 2:24 2:55 2:37	(5.0) 100%	(4.3) 86%	RUN-7				45.4ft: white (2.5Y8/1) to 48.1ft then light gray (10YR7/1) to 50.4ft
-51.8	50.4									
		5.0	1:41 1:34 1:30 1:30 0:48	(4.6) 92%	(4.3) 86%	RUN-8	(12.6) 84%	(9.0) 60%		LIMESTONE, boundstone, white (2.5Y8/1), moderately hard, moderately indurated, trace vugs, strong HCl reaction (Lower Fort Thompson Formation)
-56.8	55.4									
		5.0	0:57 1:00 0:56 1:12 0:55	(4.8) 96%	(2.6) 52%	RUN-9				
-61.8	60.4									
		5.0	0:59 0:58 0:56 0:10 0:07	(3.2) 64%	(2.1) 42%	RUN-10				
-66.8	65.4									
		5.0	0:06 0:32 0:10 0:24 0:07	(1.4) 28%	(N/A)	RUN-11	(1.4) 28%	(NA)		POORLY GRADED SAND (SP), light gray (5Y7/1), wet, fine grained sand, strong HCl reaction, trace limestone fragments
-71.8	70.4									
		5.0	0:44 0:08 0:09 0:10 0:51	(1.7) 34%	(0.5) 10%	RUN-12	(24.0) 53%	(9.4) 21%		LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, strong HCl reaction, trace vugs
-76.8	75.4									
		5.0	0:19 0:10 0:20 0:37 1:52	(1.2) 24%	(0.5) 10%	RUN-13				75.4ft: moderately hard, moderately indurated
-81.8	80.4									
		5.0	0:28 0:36 0:38 1:10 0:20	(3.8) 76%	(1.5) 30%	RUN-14				80.4ft: fossiliferous, sandy
-86.8	85.4									
		5.0	0:10 0:20 0:34 0:25 0:08	(1.4) 28%	(0.0) 0%	RUN-15				85.4ft: some vugs
-91.8	90.4									

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



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	
BORING NO.: B-625		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core	
GROUND ELEV.: -1.4 ft (NAVD88)		NORTHING: 397,107 US ft (NAD83/90)		EASTING: 876,961 US ft (NAD83/90)	
TOTAL DEPTH: 126.7 ft		CASING DEPTH: 4" to 15.1'			HAMMER (ID): 140 lb. Auto (M06)
DATE STARTED: 3/23/08		COMPLETED: 3/24/08		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
-96.8	95.4	5.0	0:22 0:08 0:17 0:15 0:13	(1.5) 30%	(0.5) 10%	RUN-16				90.4ft: indurated LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, strong HCl reaction, trace vugs (continued)
-101.8	100.4	5.0	0:20 0:14 0:31 0:18 0:27	(3.4) 68%	(0.9) 18%	RUN-17				95.4ft: moderately indurated, few vugs
-106.8	105.4	5.0	0:39 0:24 0:25 0:31 0:28	(4.4) 88%	(2.0) 40%	RUN-18				100.4ft: mostly vugs, few shell molds and casts
-111.8	110.4	5.0	0:24 0:29 0:24 0:20 0:30	(3.5) 70%	(3.2) 64%	RUN-19				105.4ft: little to some shell molds and casts
-116.8	115.4	5.0	0:23 0:34 0:46 0:21 0:12	(2.4) 48%	(0.3) 6%	RUN-20				
-121.8	120.4	5.0	0:28 0:27 0:17 0:24 0:34	(1.8) 36%	(0.0) 0%	RUN-21	(1.1) 26%	(NA)		-117.5 -121.8 116.1 120.4 Silty SAND (SM), light gray (5Y7/1), wet, fine to coarse grained sand, strong HCl reaction, trace fine to coarse limestone gravel fragments (Tamiami Formation) Coring Terminated at Elevation -121.8

TURKEY POINT COL CORE TURKEY POINT I.G.P.I. TURKEY POINT COL.GDT 7-10-08