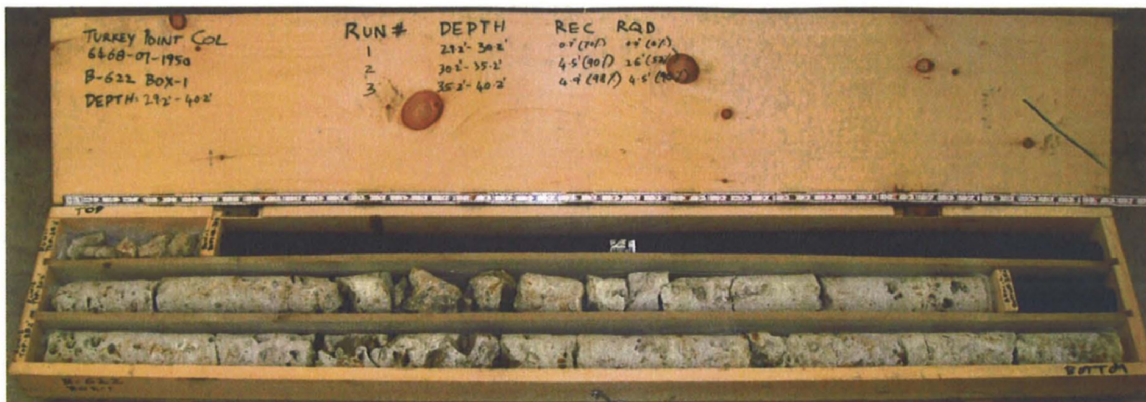




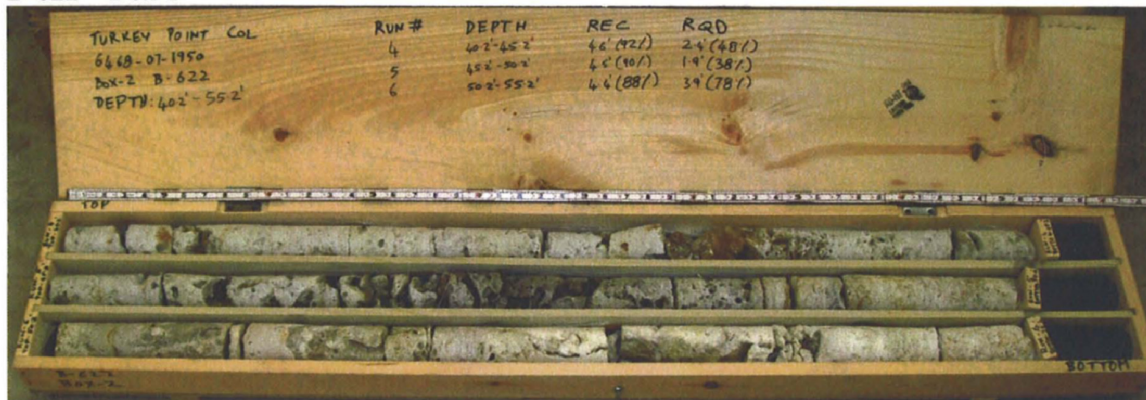
SHEET 1 OF 1

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 REC (ft) %		RQD (ft) %	SAMP. NO.	STRATA REC (ft) %		RQD (ft) %	L O G	DESCRIPTION AND REMARKS	
												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% (4.5) 90%	0% (2.6) 52%	RUN-2	90%	55%				29.2ft: white (10YR8/1), hard, indurated, trace coralline, strong HCl reaction, few vugs	
-35.0	35.2	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)
-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

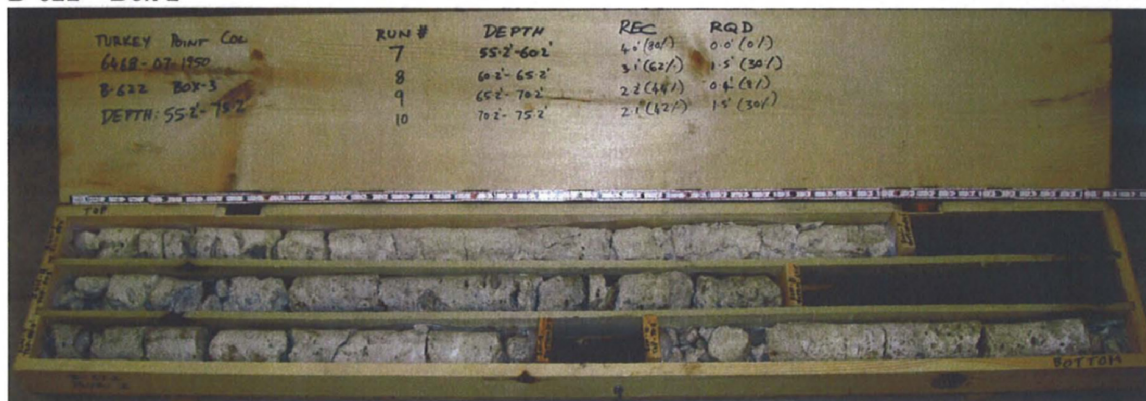
TURKEY POINT COL CORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 8/18/08



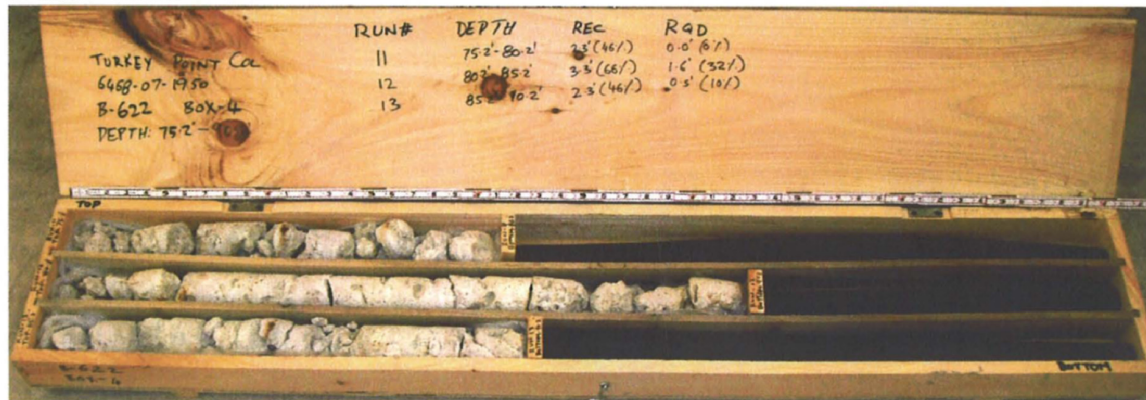
B-622 - Box 1



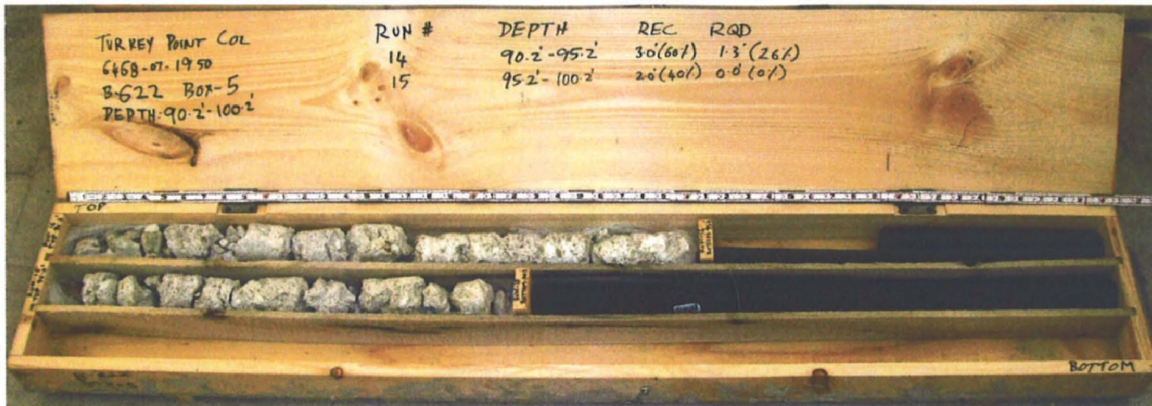
B-622 - Box 2



B-622 - Box 3



B-622 - Box 4



B-622 - Box 5



GEOTECHNICAL BORING LOG

Prepared By JPW Date 5-30-08Checked By JPW 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) 0 HR. NA 24 HR. NA	
BORING NO.: B-623					DRILL METHOD: Mud Rotary/ Core					SAMPLE METHODS: SPT/Core					
GROUND ELEV.: -1.3 ft (NAVD88)					NORTHING: 397,423 US ft (NAD83/90)					EASTING: 876,523 US ft (NAD83/90)					
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					
					Ground Surface										
-1.3															
-1.3	0.0	WOH	WOH	WOH	0						623-1		-1.3	0.0	MUCK, light brownish gray (10YR6/3), to very dark gray (10YR3/1), wet, mostly organic, strong HCl reaction Field notes do not indicate that sample 623-2 was split into separate jars
-3.8	2.5	WOH	WOH	2							623-2		-5.0	3.7	
-5.8	4.5	5	9	9		SEE LEGEND FOR ROCK HARDNESS CRITERIA BASED ON SPT DATA					623-3				LIMESTONE, boundstone, white (10YR8/1), very soft, wet, trace organics at top of formation, strong HCl reaction (Miami Formation) 4.5ft: oolitic
-8.3	7.0	5	9	7							623-4				
-10.3	9.0	3	5	5							623-5				11.5ft: soft
-12.8	11.5	3	5	18							623-6				
-15.3	14.0	2	3	15							623-7				14.0ft: very soft
		5	7	5							623-8				
-19.3	18.0														23.5ft: soft
		3	4	25							623-9		-26.3	25.0	
-24.8	23.5														LIMESTONE, boundstone, white (10YR8/1), medium hard, wet, trace shells, strong HCl reaction (Upper Fort Thompson Formation)
-29.8	28.5	25	37	7							623-10				
															33.5ft: hard 35.2ft: Switch sampling method to coring 35.2ft: white (10YR8/1), hard, indurated, fossiliferous, coralline, strong HCl reaction, few vugs
-34.8	33.5	50/0.4									623-11				
-36.5	35.2										RUN-1				45.2ft: white (10YR8/1) to 46.6ft then gray (10YR6/1) to 48.5ft, trace coralline
											RUN-2				
-41.5	40.2										RUN-3				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)
-46.5	45.2										RUN-4		-49.8	48.5	
-51.5	50.2										RUN-5				65.2ft: trace fine sand
-56.5	55.2										RUN-6				
-61.5	60.2										RUN-7				
-66.5	65.2										RUN-8				
-71.5	70.2														

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



SHEET 2 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					
-76.1					Continued from previous page										
-76.5	75.2										RUN-9		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) (continued) 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		
-81.5	80.2										RUN-10				
-86.5	85.2										623-12				
-88.0	86.7	18	15	7	● 22						RUN-11				
-91.5	90.2										RUN-12				
-96.5	95.2										RUN-13				
													-101.5	100.2	Boring Terminated at Elevation -101.5 ft

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



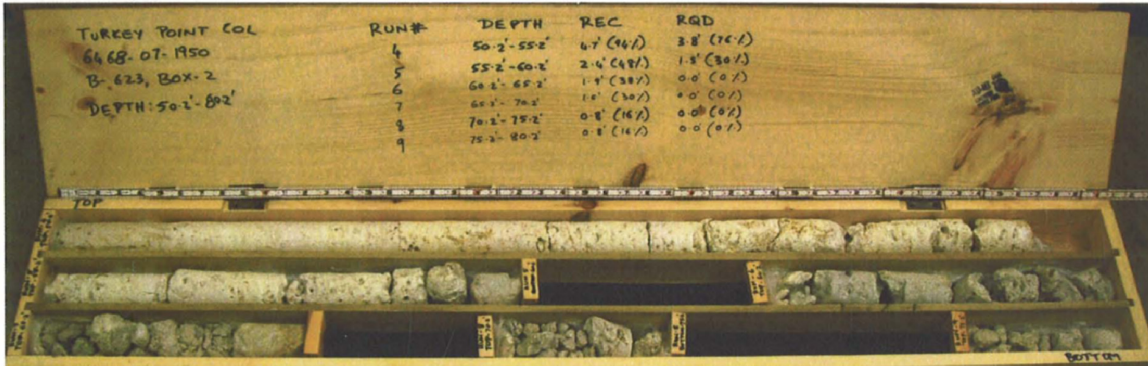
SHEET 1 OF 1

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 REC (ft) %		SAMP. NO.	STRATA REC (ft) %		RQD (ft) %	L O G	DESCRIPTION AND REMARKS		
											Begin Coring @ 35.2 ft		
-36.5	35.2	5.0	0:45 0:27 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%			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			623-12					85.2ft: Switch sampling method to SPT		
-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: white (10YR8/1), soft, wet, some fine grained sand, strong HCl reaction		
-91.5	90.2										86.7ft: Switch sampling method to coring		
		5.0	0:30 0:19 0:18 0:25 0:28	(4.3) 86%	(2.7) 54%	RUN-12					86.7ft: hard, indurated, fossiliferous, few vugs		
-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										Coring Terminated at Elevation -101.5		

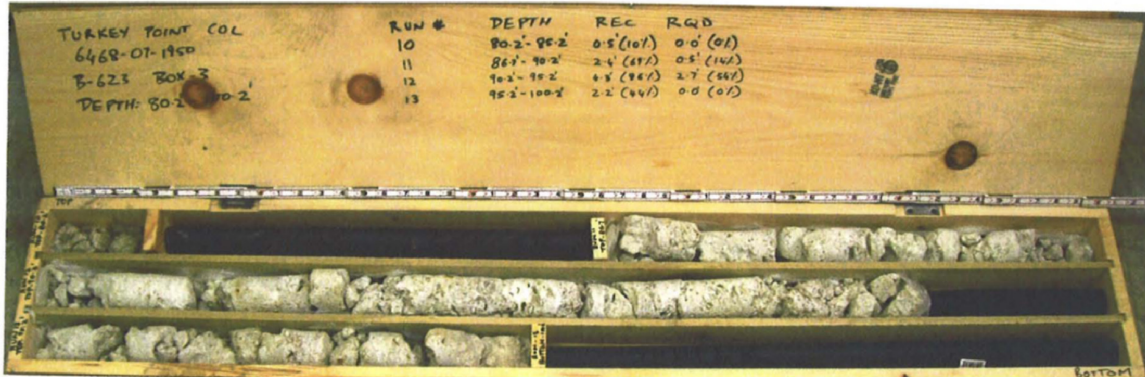
TURKEY POINT COL CORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 5 30-08



B-623 - Box 1



B-623 - Box 2



B-623 - Box 3



GEOTECHNICAL BORING LOG

Prepared By SPZ Date 5-30-08Checked By BM 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.	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	
-1.4	0.0	WOR	WOR	WOR	0										MUCK, light olive brown (2.5Y5/3), to very dark grayish brown (2.5Y3/2), very soft, wet, organic, strong HCl reaction	
-3.9	2.5				14						624-1					
		3	7	7							624-2A&B				-4.4	3.0
-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
																15.0ft: soft
-20.9	19.5	5	5	4							624-8					19.5ft: white (10YR8/1), very soft
		25	14	19												
-25.9	24.5										624-9				-25.4	24.0
		26	46	34												LIMESTONE, boundstone, white (2.5Y8/1), medium hard, fossiliferous, strong HCl reaction (Upper Fort Thompson Formation)
-30.9	29.5										624-10					29.5ft: light gray (2.5Y7/1), hard
-35.9	34.5															34.5ft: mottled gray (2.5Y6/1)
-37.1	35.7	11	48	50/0.2							624-11					35.7ft: Switch sampling method to coring
											RUN-1					35.7ft: white (10YR8/1), to light gray (10YR7/1), hard, indurated, coralline, recrystallized calcite, strong HCl reaction, few to little vugs
-39.6	38.2										RUN-2					
																36.8ft: loss of circulation
-44.6	43.2										RUN-3					38.2ft: white (2.5Y8/1), mottled light gray (10YR7/1), and olive yellow (2.5Y6/6)
																43.2ft: white (10YR8/1), to 46.6ft then grayish brown (10YR5/2), fossiliferous, trace vugs
-49.6	48.2										RUN-4				-49.6	48.2
																LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, little to few vugs, strong HCl reaction (Lower Fort Thompson Formation)
-54.6	53.2										RUN-5					53.2ft: white (2.5Y8/1), hard to moderately hard
-59.6	58.2										RUN-6					58.2ft: white (5Y8/1), medium hard to hard, moderately indurated, some coarse grained sand, few vugs
-64.6	63.2										RUN-7					63.2ft: white (10YR8/1), hard, indurated
-66.6	65.2										RUN-8					65.2ft: white (2.5Y8/1)
-69.6	68.2										RUN-9					
-74.6	73.2										RUN-10					73.2ft: white (10YR8/1)

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

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

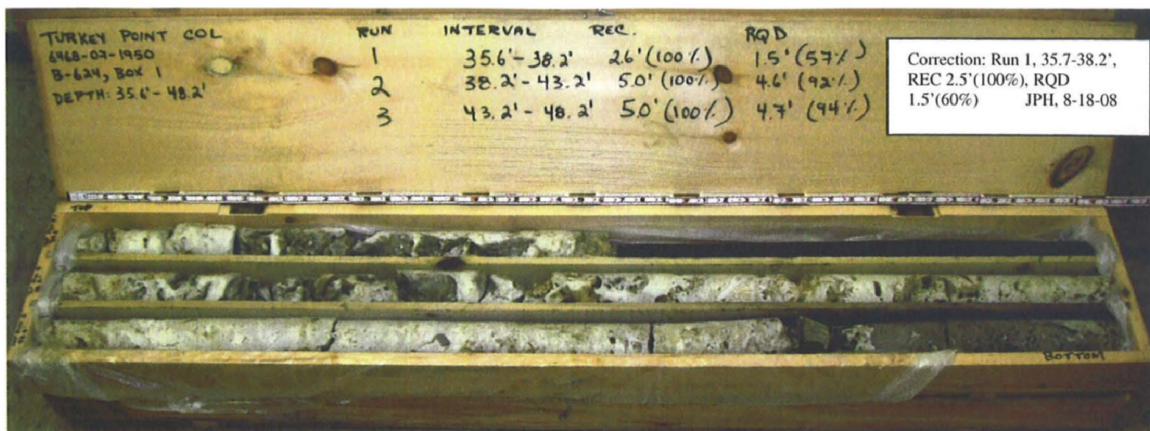
DCN# TUR512



SHEET 1 OF 1

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				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 REC (ft) %		RQD (ft) %	SAMP. NO.	STRATA REC (ft) %		RQD (ft) %	L O G	DESCRIPTION AND REMARKS	
												Begin Coring @ 35.7 ft	
-37.1	35.7	2.5	1:27	(2.5)	(1.5)	RUN-1	(12.5)	(10.8)				LIMESTONE, boundstone, white (2.5Y8/1), medium hard, fossiliferous, strong HCl reaction (Upper Fort Thompson Formation) (continued)	
-39.6	38.2	5.0	1:29 1:80/0.5	100%	60%	RUN-2	100%	86%				35.7ft: white (10YR8/1), to light gray (10YR7/1), hard, indurated, coralline, recrystallized calcite, strong HCl reaction, few to little vugs	
			1:20 1:31 1:36 1:29 1:50	(5.0) 100%	(4.6) 92%							36.8ft: loss of circulation	
-44.6	43.2	5.0		(5.0)	(4.7)	RUN-3						38.2ft: white (2.5Y8/1), mottled light gray (10YR7/1), and olive yellow (2.5Y6/6)	
			1:29 1:33 1:11 1:19 1:27	100%	94%							43.2ft: white (10YR8/1), to 46.6ft then grayish brown (10YR5/2), fossiliferous, trace vugs	
-49.6	48.2	5.0		(5.0)	(4.6)	RUN-4	(40.7)	(21.4)			-49.6	LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, little to few vugs, strong HCl reaction (Lower Fort Thompson Formation)	
			1:01 0:59 1:14 1:03 0:33	100%	92%		74%	39%					
-54.6	53.2	5.0		(4.0)	(1.7)	RUN-5						53.2ft: white (2.5Y8/1), hard to moderately hard	
			0:18 0:25 0:34 0:16 0:03	80%	34%								
-59.6	58.2	5.0		(4.3)	(2.4)	RUN-6						58.2ft: white (5Y8/1), medium hard to hard, moderately indurated, some coarse grained sand, few vugs	
			0:26 1:08 1:22 0:42 0:25	86%	48%								
-64.6	63.2	2.0		(0.5)	(0.0)	RUN-7						63.2ft: white (10YR8/1), hard, indurated	
			0:23 0:35	25%	0%								
-66.6	65.2	3.0		(2.0)	(1.0)	RUN-8						65.2ft: white (2.5Y8/1)	
			1:02 2:10 0:03	67%	33%								
-69.6	68.2	5.0		(2.6)	(0.4)	RUN-9							
			0:09 0:26 1:00 1:52 1:52	52%	8%								
-74.6	73.2	3.0		(2.0)	(0.0)	RUN-10						73.2ft: white (10YR8/1)	
			0:57 0:40 1:50	67%	0%								
-77.6	76.2	2.0		(2.0)	(1.8)	RUN-11						76.2ft: moderately hard, moderately indurated, some coarse sand	
			1:53 1:05	100%	90%								
-79.6	78.2	5.0		(4.7)	(3.5)	RUN-12							
			1:35 1:10 1:16 1:20 0:50	94%	70%								
-84.6	83.2	5.0		(1.6)	(0.0)	RUN-13						84.2 to 86.2ft: sand lenses; very soft/fast drilling	
			0:45 0:03 0:07 1:59 0:48	32%	0%								
-89.6	88.2	5.0		(4.3)	(1.8)	RUN-14						88.2ft: moderately hard to hard, trace vugs	
			1:12 2:07 0:35 0:53 0:59	86%	36%								
-94.6	93.2	5.0		(4.0)	(2.5)	RUN-15						93.2ft: white (2.5Y8/1), moderately hard, moderately indurated	
			0:36 0:48 0:50 0:48 0:41	80%	50%								
-99.6	98.2	5.0		(3.7)	(1.7)	RUN-16						98.2ft: hard, indurated, few vugs	
			0:52 0:47 0:21 0:33 0:30	74%	34%								
-104.6	103.2										-104.6	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

GEOTECHNICAL BORING LOG

Prepared By 272 Date 7.10.08

Checked By MM Date 7-10-08

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-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.	DEPTH	BLOW COUNT			BLOWS PER FOOT					SAMP.	MOI	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						625-1			-1.4	MUCK, black (2.5Y2.5/1), very soft, wet, strong HCl reaction, mostly organic, fibrous				
-3.6	2.2	1	4	10		14					625-2A&B			-4.2	LIMESTONE, boundstone, white (2.5Y8/1), very soft, wet, little to some fine grained sand, strong HCl reaction, oolitic (Miami Formation)				
-6.5	5.1					18					625-3								
-9.0	7.6	10	9	9		14					625-4				7.6ft: trace sand				
-11.5	10.1	10	9	5							625-5								
-13.9	12.5	8	6	8		14					625-6				12.5ft: soft				
-16.6	15.2	9	13	12		25					625-7				15.2ft: hard				
-17.8	16.4	5	15	50/0.2						65.0	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			-25.4	LIMESTONE, boundstone, white (2.5Y8/1), moderately hard, moderately indurated, strong HCl reaction, coralline, trace vugs (Upper Fort Thompson Formation)				
-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			-51.8	LIMESTONE, boundstone, white (2.5Y8/1), moderately hard, moderately indurated, trace vugs, strong HCl reaction (Lower Fort Thompson Formation)				
-56.8	55.4										RUN-9								
-61.8	60.4										RUN-10								
-66.8	65.4										RUN-11			-66.8	POORLY GRADED SAND (SP), light gray (5Y7/1), wet, fine grained sand, strong HCl reaction, trace limestone fragments				
-71.8	70.4										RUN-12			-71.8	LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, strong HCl reaction, trace vugs				



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-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 0.5ft 0.5ft 0.5ft			BLOWS PER FOOT 0 20 40 60 80 100					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION			
-76.2		Continued from previous page													
-76.8	75.4														
-81.8	80.4														
-86.8	85.4														
-91.8	90.4														
-96.8	95.4														
-101.8	100.4														
-106.8	105.4														
-111.8	110.4														
-116.8	115.4														
-121.8	120.4	20	50/0.4									RUN-13		LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, strong HCl reaction, trace vugs (continued) 75.4ft: moderately hard, moderately indurated	
-126.6	125.2	5	8	12									RUN-14		80.4ft: fossiliferous, sandy
													RUN-15		85.4ft: some vugs
													RUN-16		90.4ft: indurated
													RUN-17		95.4ft: moderately indurated, few vugs
													RUN-18		100.4ft: mostly vugs, few shell molds and casts
													RUN-19		105.4ft: little to some shell molds and casts
													RUN-20		
													RUN-21		
													625-8		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) 120.4ft: Switch sampling method to SPT 120.4ft: light olive gray (5Y6/2), very dense
													625-9		125.2ft: medium dense
															Boring Terminated at Elevation -128.1 ft

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



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-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	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		L O G	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 L.G.P.J. 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: 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				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 REC (ft) %		RQD (ft) %	SAMP. NO.	STRATA REC (ft) %		RQD (ft) %	L O G	DESCRIPTION AND REMARKS	
												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 T.G.P TURKEY POINT COL GDT 7/10/08