

GEOTECHNICAL BORING LOG

Prepared By JSP Date 8-19-08

Checked By 552 Date 8/19/08

SHEET 1 OF 3

BECHTEL PROJECT NO.: 25409			MACTEC PROJECT NO.: 6468-07-1950			COUNTY: Miami-Dade		GEOLOGIST: R. Clark						
SITE DESCRIPTION: Turkey Point COL			DRILL MACHINE: CME-750 (Miller)			DRILLER: G.Bilbrey/P.McKorkle/J.Tucker			GROUND WATER (ft)					
BORING NO.: B-620(DH)			DRILL METHOD: Mud Rotary/ Core			SAMPLE METHODS: SPT/Core			0 HR. NA					
GROUND ELEV.: -1.5 ft (NAVD88)			NORTHING: 397,395 US ft (NAD83/90)			EASTING: 876,648 US ft (NAD83/90)			24 HR. NA					
TOTAL DEPTH: 215.0 ft		BORING DIAMETER: 4" to 215.0'				CASING DEPTH: 4" to 105.5'				HAMMER (ID): 140 lb. Auto (07)				
DATE STARTED: 3/18/08		COMPLETED: 3/23/08		CORE SIZE: HQ3		BITS USED: 3 7/8" Tricone								
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.	MOI
-1.5					Ground Surface									
-1.5	0.0	WOH	WOH	WOH	•0-								-1.5	MUCK, light gray (2.5Y7/2), to grayish brown (2.5Y5/2), very soft, wet, strong HCl reaction, mostly organics
-4.0	2.5												-4.5	LIMESTONE, boundstone, pale yellow (5Y8/2), soft, wet, friable, strong HCl reaction, oolitic (Miami Formation)
-6.5	5.0	3	9	12			•21							5.0ft: very soft, fossiliferous
-9.0	7.5	10	9	8			•17							
-11.5	10.0	8	6	5			•11							
-13.9	12.4	7	11	21			•32						10.0ft:	medium hard, moderately indurated
-16.4	14.9	17	20	10			•30						12.4ft:	soft
-21.0	19.5	14	16	31			•47						14.9ft:	moderately hard
-26.0	24.5	13	7	7			•14						19.5ft:	very soft
-27.0	25.5	50/0.4								•50/0.4			-25.5	LIMESTONE, boundstone, pale yellow (5Y8/2), hard, wet, strong HCl reaction (Upper Fort Thompson Formation)
-32.0	30.5													25.5ft: Switch sampling method to coring
-37.0	35.5													25.5ft: white (5Y8/1), hard, indurated, fossiliferous, strong HCl reaction, sandy zones
-42.0	40.5													26.0ft: loss of circulation
-47.0	45.5													30.5ft: medium hard, moderately indurated, recrystallized calcite, few vugs
-52.0	50.5													35.5ft: moderately hard, coralline
-57.0	55.5													
-62.0	60.5													40.5ft: hard, indurated
-67.0	65.5													
-72.0	70.5													45.5 to 47.7ft: light bluish gray (5PB7/1), locally interconnected vugs and filled with recrystallized calcite, horizontal bedding plane at 47.7ft
													-49.2	LIMESTONE, boundstone, white (5Y8/1), hard, indurated, fossiliferous, few gastropod shell molds and casts, vertical fractures filled with calcite and cemented sand, strong HCl reaction, horizontal bedding planes at 48.7ft and 49.0ft (Lower Fort Thompson Formation)
														50.5ft: trace vugs, porous
														55.5ft: trace sand, bedding planes at 56.1ft and 57.7ft
														65.5ft: soft to moderately hard, friable to indurated
														65.7 to 83.0ft: thin sand interbeds



SHEET 2 OF 3

BECHTEL PROJECT NO.: 25409				MACTEC PROJECT NO.: 6468-07-1950				COUNTY: Miami-Dade		GEOLOGIST: R. Clark																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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TURKEY POINT COL BORE TURKEY POINT GPJ TURKEY POINT COL GDT 8/19/08



SHEET 3 OF 3

BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: R. Clark							
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-750 (Miller)		DRILLER: G.Bilbrey/P.McKorkle/J.Tucker		GROUND WATER (ft)							
BORING NO.: B-620(DH)		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA							
GROUND ELEV.: -1.5 ft (NAVD88)		NORTHING: 397,395 US ft (NAD83/90)		EASTING: 876,648 US ft (NAD83/90)		24 HR. NA							
TOTAL DEPTH: 215.0 ft		BORING DIAMETER: 4" to 215.0'		CASING DEPTH: 4" to 105.5'		HAMMER (ID): 140 lb. Auto (07)							
DATE STARTED: 3/18/08		COMPLETED: 3/23/08		CORE SIZE: HQ3		BITS USED: 3 7/8" 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			
-151.1					Continued from previous page								
-160.0	158.5	3	4	8									Silty SAND (SM), light greenish gray (10Y7/1), medium dense, wet, strong HCl reaction, fine grained sand (continued)
-170.0	168.5	7	8	10									158.5ft: olive gray (5Y5/2)
-180.0	178.5	3	4	6									178.5ft: loose
-190.0	188.5	4	3	9									188.5ft: medium dense
-200.0	198.5	5	6	9									198.5ft: trace limestone fragments
-215.0	213.5	4	5	8									Boring Terminated at Elevation -216.5 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: R. Clark			
SITE DESCRIPTION: Turkey Point COL				DRILL MACHINE: CME-750 (Miller)				DRILLER: G.Bilbrey/P.McKorkle/J.Tucker				GROUND WATER (ft)	
BORING NO.: B-620(DH)				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core				0 HR. NA	
GROUND ELEV.: -1.5 ft (NAVD88)				NORTHING: 397,395 US ft (NAD83/90)				EASTING: 876,648 US ft (NAD83/90)				24 HR. NA	
TOTAL DEPTH: 215.0 ft				CASING DEPTH: 4" to 105.5'						HAMMER (ID): 140 lb. Auto (07)			
DATE STARTED: 3/18/08		COMPLETED: 3/23/08		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 @ 25.5 ft	
-27.0	25.5	5.0	1:38 2:55 3:04 4:12 4:33	(5.0) 100%	(4.5) 90%		RUN-1	(20.7) 93%	(18.2) 82%			LIMESTONE, boundstone, pale yellow (5Y8/2), hard, wet, strong HCl reaction (Upper Fort Thompson Formation) (continued) 25.5ft: white (5Y8/1), hard, indurated, fossiliferous, strong HCl reaction, sandy zones	
-32.0	30.5	5.0	2:25 2:01 1:55 1:38 1:23	(3.7) 74%	(1.7) 34%		RUN-2					26.0ft: loss of circulation 30.5ft: medium hard, moderately indurated, recrystallized calcite, few vugs	
-37.0	35.5	5.0	1:49 2:18 1:53 2:21 2:22	(4.8) 96%	(4.8) 96%		RUN-3					35.5ft: moderately hard, coralline	
-42.0	40.5	5.0	2:57 2:55 2:59 3:43 3:30	(5.0) 100%	(5.0) 100%		RUN-4 620DH- CS-02					40.5ft: hard, indurated	
-47.0	45.5	5.0	2:25 2:33 2:25 2:31 2:02	(5.0) 100%	(5.0) 100%		RUN-5					45.5 to 47.7ft: light bluish gray (5PB7/1), locally interconnected vugs and filled with recrystallized calcite, horizontal bedding plane at 47.7ft	
-52.0	50.5	5.0	1:57 2:55 0:55 0:22 0:25	(4.5) 90%	(3.6) 72%		RUN-6 620DH- CS-03	(28.7) 81%	(19.5) 55%			47.7 LIMESTONE, boundstone, white (5Y8/1), hard, indurated, fossiliferous, few gastropod shell molds and casts, vertical fractures filled with calcite and cemented sand, strong HCl reaction, horizontal bedding planes at 48.7ft and 49.0ft (Lower Fort Thompson Formation) 50.5ft: trace vugs, porous	
-57.0	55.5	5.0	0:20 0:40 0:44 0:44 0:45	(3.6) 72%	(2.5) 50%		RUN-7					55.5ft: trace sand, bedding planes at 56.1ft and 57.7ft	
-62.0	60.5	5.0	1:45 1:48 1:32 0:58 1:22	(4.1) 82%	(3.4) 68%		RUN-8 620DH- CS-04						
-67.0	65.5	5.0	2:30 2:22 2:41 2:23 2:01	(3.4) 68%	(2.0) 40%		RUN-9					65.5ft: soft to moderately hard, friable to indurated 65.7 to 83.0ft: thin sand interbeds	
-72.0	70.5	5.0	1:53 1:35 1:50 1:05 1:33	(3.1) 62%	(0.6) 12%		RUN-10						
-77.0	75.5	5.0	0:55 2:01 2:12 1:55 2:23	(4.7) 94%	(2.9) 58%		RUN-11					75.5ft: hard, indurated 80.5ft: soft to hard, friable to indurated	
-82.0	80.5	5.0	2:01 1:12 1:28 2:48 2:06	(3.3) 66%	(1.7) 34%		RUN-12						
-87.0	85.5	5.0	0:41 1:14 1:52 1:47 1:49	(5.0) 100%	(4.0) 80%		RUN-13	(2.8) 62%	(NA)			84.5 Silty SAND (SM), white (5Y8/1), wet, fine grained sand, strong HCl reaction	
-92.0	90.5	5.0	0:30 1:39 2:01 1:08 1:21	(4.1) 82%	(2.7) 54%		RUN-14	(21.3) 76%	(15.7) 56%			89.0 LIMESTONE, boundstone, white (5Y8/1), hard, indurated, fossiliferous, strong HCl reaction, sandy zones, few vugs 90.5ft: medium hard to hard, friable to indurated	
-97.0	95.5	5.0	0:37 0:20 0:31 0:56 1:03	(2.7) 54%	(1.2) 24%		RUN-15					95.5ft: hard, indurated	
-102.0	100.5	5.0											

TURKEY POINT COL CORE TURKEY POINT COL GDT 8/19/08

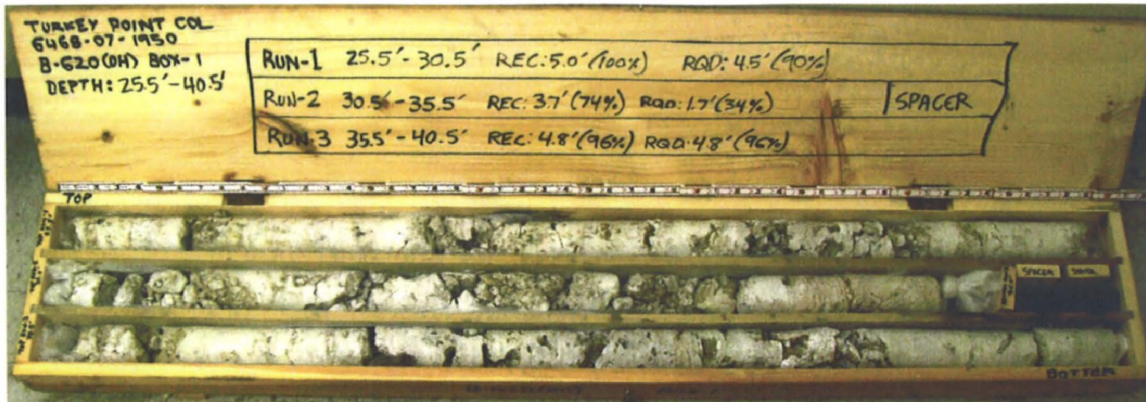


SHEET 2 OF 2

BECHTEL PROJECT NO.: 25409	MACTEC PROJECT NO.: 6468-07-1950	COUNTY: Miami-Dade	GEOLOGIST: R. Clark
SITE DESCRIPTION: Turkey Point COL	DRILL MACHINE: CME-750 (Miller)	DRILLER: G.Billbrey/P.McKorkle/J.Tucker	GROUND WATER (ft)
BORING NO.: B-620(DH)	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	0 HR. NA
GROUND ELEV.: -1.5 ft (NAVD88)	NORTHING: 397,395 US ft (NAD83/90)	EASTING: 876,648 US ft (NAD83/90)	24 HR. NA
TOTAL DEPTH: 215.0 ft	CASING DEPTH: 4" to 105.5'	HAMMER (ID): 140 lb. Auto (07)	
DATE STARTED: 3/18/08	COMPLETED: 3/23/08	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
-107.0	105.5	5.0	0:36 0:49 0:38 0:44 0:45	(4.0) 80%	(3.3) 66%	RUN-16				LIMESTONE, boundstone, white (5Y8/1), hard, indurated, fossiliferous, strong HCl reaction, sandy zones, few vugs (<i>continued</i>) 100.5ft: little vugs
-112.0	110.5	5.0	1:06 0:59 0:36 1:08 0:43	(4.7) 94%	(3.8) 76%	RUN-17				
-117.0	115.5	5.0	0:40 0:05 1:57 1:10 1:23	(2.8) 56%	(1.7) 34%	RUN-18				110.5ft: hard to soft, indurated to friable
-122.0	120.5	5.0	0:33 0:53 0:45 0:42 1:14	(1.5) 30%	(0.0) 0%	RUN-19				GRAVEL with sand (GM), pale yellow (5Y8/3), very dense, wet, fine to coarse grained sand, fine to coarse gravel, strong HCl reaction, trace shell fragments, cemented sand fragments (Tamiami Formation)
										Coring Terminated at Elevation -122.0

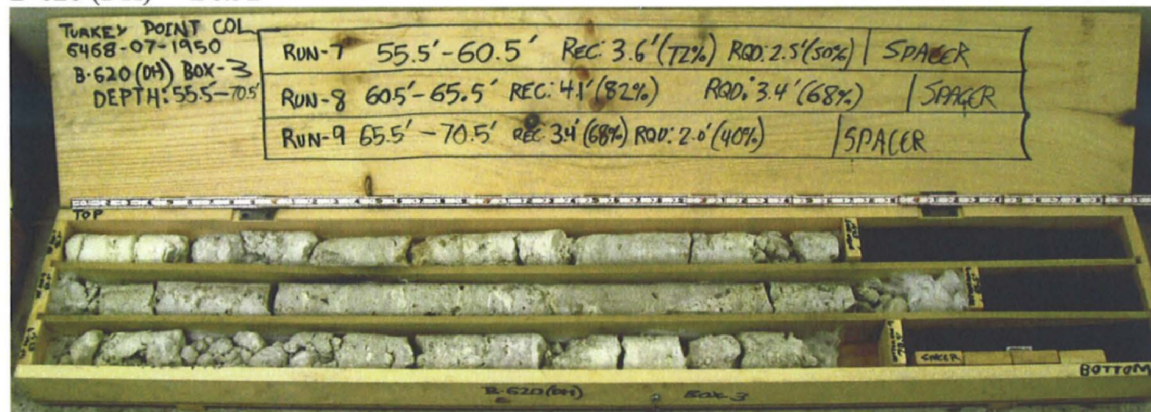
TURKEY POINT COL CORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 8/19/08



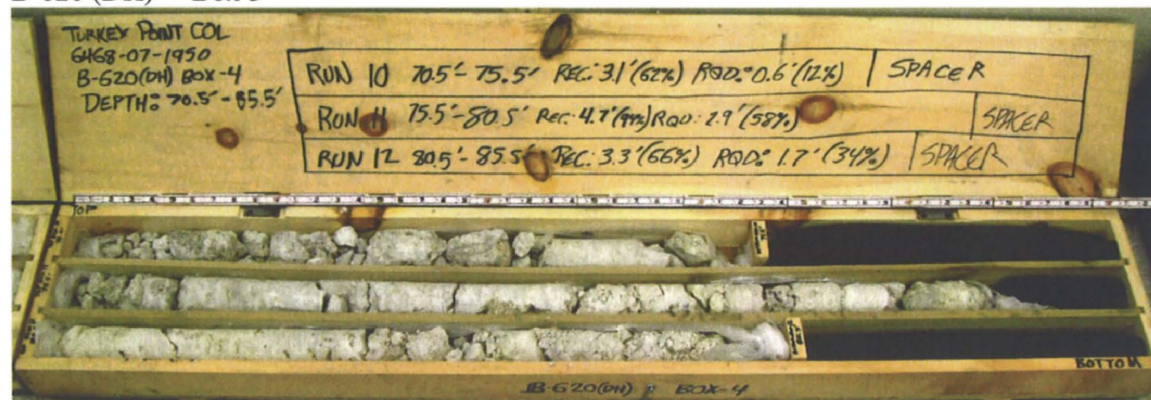
B-620 (DH) – Box 1



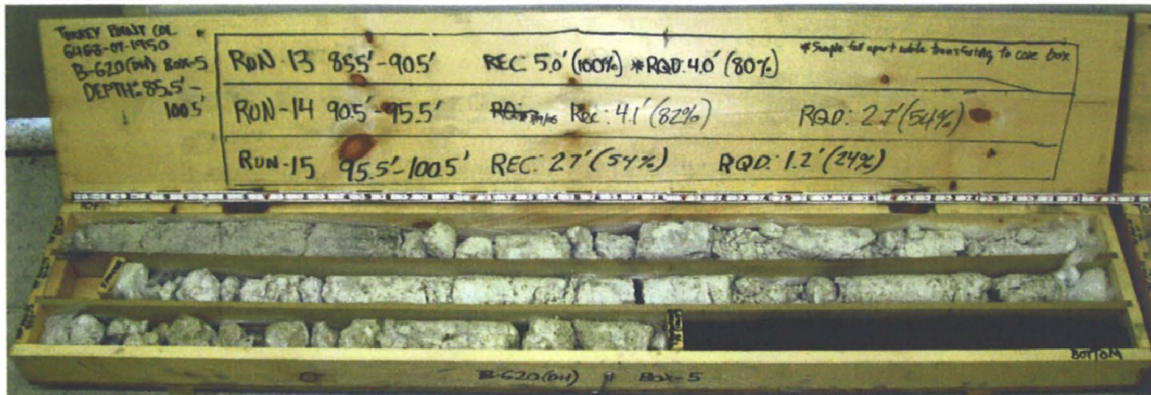
B-620 (DH) – Box 2



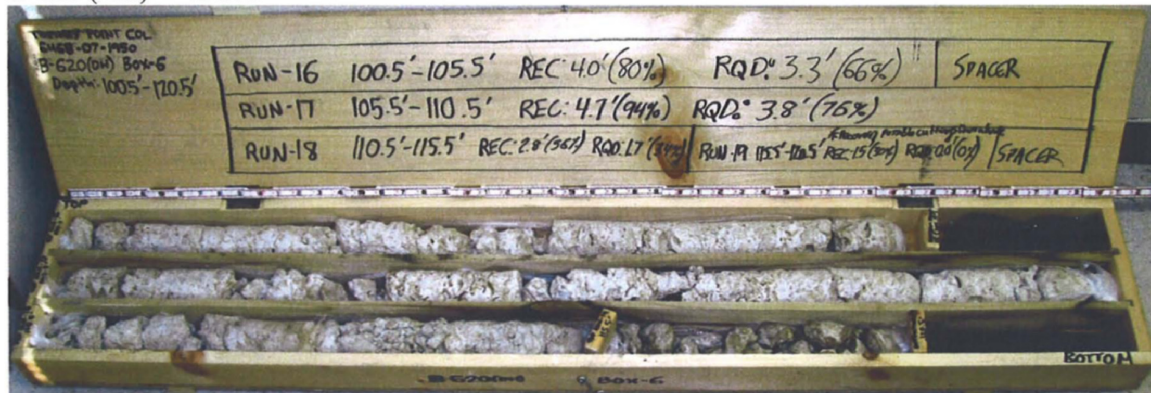
B-620 (DH) – Box 3



B-620 (DH) – Box 4



B-620 (DH) - Box 5



B-620 (DH) - Box 6



GEOTECHNICAL BORING LOG

Prepared By 2274 Date 5-30-08
Checked By PM 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-621			DRILL METHOD: Mud Rotary/ Core			SAMPLE METHODS: SPT/Core			0 HR. NA				
GROUND ELEV.: 0.2 ft (NAVD88)			NORTHING: 397,368 US ft (NAD83/90)			EASTING: 876,949 US ft (NAD83/90)			24 HR. NA				
TOTAL DEPTH: 126.5 ft			BORING DIAMETER: 4" to 27.9', 3" to 126.5'			CASING DEPTH: 4" to 27.9', 3" to 115.3'			HAMMER (ID): 140 lb. Auto (MEC-02)				
DATE STARTED: 4/3/08			COMPLETED: 4/4/08			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			
0.2					Ground Surface							0.2	0.0
0.2	0.0	1	1	WOH							621-1		MUCK, very dark gray (10Yr3/1), very soft, dry, mostly organic, strong HCl reaction
-2.6	2.8	1	WOH	WOH							621-2		
-4.9	5.1	1	2	9							621-3		Field notes do not indicate that sample 621-3 was split into separate jars
-7.3	7.5	5	5	6							621-4		LIMESTONE, boundstone, white (10YR8/1), very soft, wet, strong HCl reaction, oolitic (Miami Formation)
-9.6	9.8	11	12	7							621-5		
-11.8	12.0	11	16	17							621-6		12.0ft: medium hard
-14.3	14.5	6	9	13							621-7		14.5ft: soft, fossiliferous
-18.3	18.5	7	6	3							621-8		18.5ft: very soft
-23.3	23.5	3	4	2							621-9		
-28.3	28.5										621-10		LIMESTONE, boundstone, white (10YR8/1), hard, wet, strong HCl reaction (Upper Fort Thompson Formation)
-28.8	29.0	50/0.5									RUN-1		29.0ft: Switch sampling method to coring
-30.1	30.3										RUN-2		LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, strong HCl reaction, few vugs
-35.1	35.3										RUN-3		30.3ft: coralline
-40.1	40.3										RUN-4		
-45.1	45.3										621-CS-01		45.3 to 48.3ft: light gray (10YR7/1), trace recrystallized calcite
-50.1	50.3										RUN-5		
-55.1	55.3										RUN-6		LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, trace shells, few vugs, strong HCl reaction (Lower Fort Thompson Formation)
-60.1	60.3										RUN-7		50.3ft: trace shell molds, trace fine sand
-65.1	65.3										RUN-8		60.3ft: trace to few shell molds
-70.1	70.3										RUN-9		65.3ft: sandy
											RUN-10		70.3ft: few to little shell molds and casts

TURKEY POINT COL BORE TURKEY POINT GP 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-621		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA	
GROUND ELEV.: 0.2 ft (NAVD88)		NORTHING: 397,368 US ft (NAD83/90)		EASTING: 876,949 US ft (NAD83/90)		24 HR. NA	
TOTAL DEPTH: 126.5 ft		BORING DIAMETER: 4" to 27.9', 3" to 126.5'		CASING DEPTH: 4" to 27.9', 3" to 115.3'		HAMMER (ID): 140 lb. Auto (MEC-02)	
DATE STARTED: 4/3/08		COMPLETED: 4/4/08		CORE SIZE: HQ3		BITS USED: 2 7/8" 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					
-74.6															
-75.1	75.3														
-80.1	80.3										RUN-11			LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, trace shells, few vugs, strong HCl reaction (Lower Fort Thompson Formation) (continued) 75.3 to 80.3ft: possible thin interbeds of sand and friable limestone 80.3ft: trace to few shell molds and casts, few vugs	
-85.1	85.3										RUN-12				
-90.1	90.3										RUN-13				
-95.1	95.3										RUN-14				
-100.1	100.3										RUN-15				
-105.1	105.3										RUN-16			95.3ft: moderately hard to hard, moderately indurated to indurated, sandy	
-110.1	110.3										RUN-17			105.3ft: hard, indurated	
-115.1	115.3										621-CS-04			110.3ft: pale yellow (5Y8/2), to greenish gray (5GY6/1)	
-115.1	115.3	3	5	12							RUN-18				
-124.8	125.0	7	14	11							621-11			POORLY GRADED SAND with silt (SP-SM), greenish gray (5GY6/1), medium dense, moist, fine to medium grained sand, strong HCl reaction, trace shell fragments, little fines (Tamiami Formation) 115.3ft: Switch sampling method to SPT	
											621-12			Silty SAND (SM), greenish gray (5GY6/1), medium dense, moist, fine to medium grained sand, strong HCl reaction, trace shell fragments, little fines Boring Terminated at Elevation -126.3 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: G. Pillappa			
SITE DESCRIPTION: Turkey Point COL				DRILL MACHINE: CME-55 LC (RAL)				DRILLER: R. Banks/ J. Rosser				GROUND WATER (ft)	
BORING NO.: B-621				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core				0 HR. NA	
GROUND ELEV.: 0.2 ft (NAVD88)				NORTHING: 397,368 US ft (NAD83/90)				EASTING: 876,949 US ft (NAD83/90)				24 HR. NA	
TOTAL DEPTH: 126.5 ft				CASING DEPTH: 4" to 27.9', 3" to 115.3'						HAMMER (ID): 140 lb. Auto (MEC-02)			
DATE STARTED: 4/3/08		COMPLETED: 4/4/08		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 @ 29.0 ft	
-28.8	29.0	1.3	0.45	(1.2)	(0.6)	RUN-1	(19.1)	(13.5)				LIMESTONE, boundstone, white (10YR8/1), hard, wet, strong HCl reaction (Upper Fort Thompson Formation) <i>(continued)</i> LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, strong HCl reaction, few vugs 30.3ft: coralline	
-30.1	30.3	5.0	0.18/0.3	92%	46%	RUN-2	99%	70%					
			0.39	(4.9)	(3.2)								
			0.34	98%	64%								
			0.26										
-35.1	35.3	5.0	0.26										
			0.29										
			0.20	(5.0)	(3.3)	RUN-3							
			0.23	100%	66%								
			0.23										
			0.22										
			0.20										
-40.1	40.3	5.0	0.25	(5.0)	(4.2)	RUN-4							
			0.23	100%	84%								
			0.26										
			0.22										
			0.28										
-45.1	45.3	5.0	0.39	(4.5)	(3.7)	RUN-5						45.3 to 48.3ft: light gray (10YR7/1), trace recrystallized calcite	
			0.43	90%	74%								
			0.33										
			0.41										
-50.1	50.3	5.0	0.41	(4.3)	(4.0)	RUN-6	(40.6)	(23.7)				LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, trace shells, few vugs, strong HCl reaction (Lower Fort Thompson Formation)	
			0.39	86%	80%		61%	36%				50.3ft: trace shell molds, trace fine sand	
			1.01										
			0.59										
			0.43										
			0.35										
-55.1	55.3	5.0	0.40	(0.5)	(0.0)	RUN-7							
			1.01	10%	0%								
			0.40										
			1.12										
			1.25										
-60.1	60.3	5.0	0.44	(4.1)	(1.6)	RUN-8						60.3ft: trace to few shell molds	
			0.38	82%	32%								
			0.36										
			0.30										
			0.27										
-65.1	65.3	5.0	0.28	(1.3)	(0.0)	RUN-9						65.3ft: sandy	
			0.24	26%	0%								
			0.15										
			0.16										
			0.19										
-70.1	70.3	5.0	0.26	(2.6)	(1.6)	RUN-10						70.3ft: few to little shell molds and casts	
			0.18	52%	32%								
			0.24										
			0.39										
			0.24										
-75.1	75.3	5.0	0.37	(0.5)	(0.0)	RUN-11						75.3 to 80.3ft: possible thin interbeds of sand and friable limestone	
			0.32	10%	0%								
			0.22										
			0.11										
			0.13										
-80.1	80.3	5.0	0.37	(3.1)	(1.7)	RUN-12						80.3ft: trace to few shell molds and casts, few vugs	
			0.24	62%	34%								
			0.18										
			0.11										
			0.22										
-85.1	85.3	5.0	0.23	(4.6)	(2.2)	RUN-13							
			0.24	92%	44%								
			0.38										
			0.36										
			0.40										
-90.1	90.3	5.0	0.37	(4.1)	(1.9)	RUN-14							
			0.48	82%	38%								
			0.38										
			0.19										
			0.25										
-95.1	95.3	5.0	0.34	(2.9)	(2.1)	RUN-15						95.3ft: moderately hard to hard, moderately indurated to indurated, sandy	
			0.41	58%	42%								
			0.30										
			0.24										
			0.21										
-100.1	100.3	5.0	0.18	(2.2)	(0.0)	RUN-16							
			0.19	44%	0%								
			0.24										
			0.26										

TURKEY POINT COL CORE TURKEY POINT COL GPI TURKEY POINT COL CDT 5.30.08

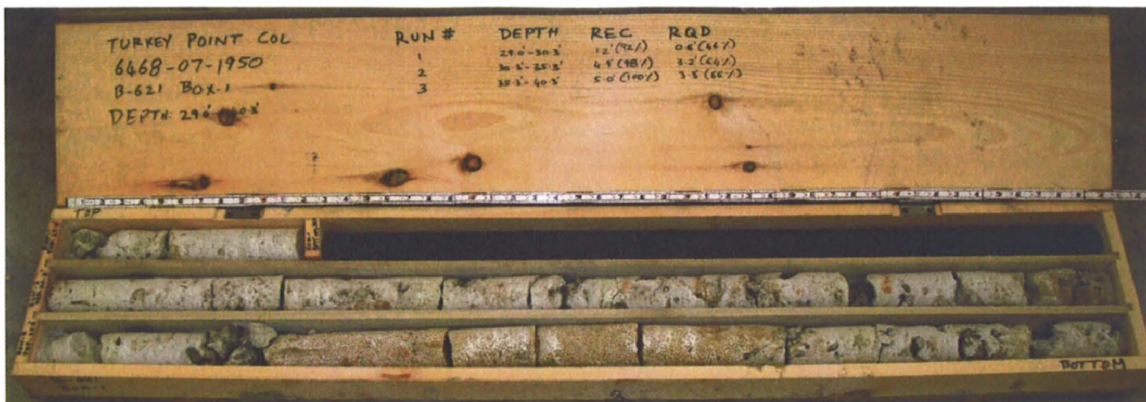


SHEET 2 OF 2

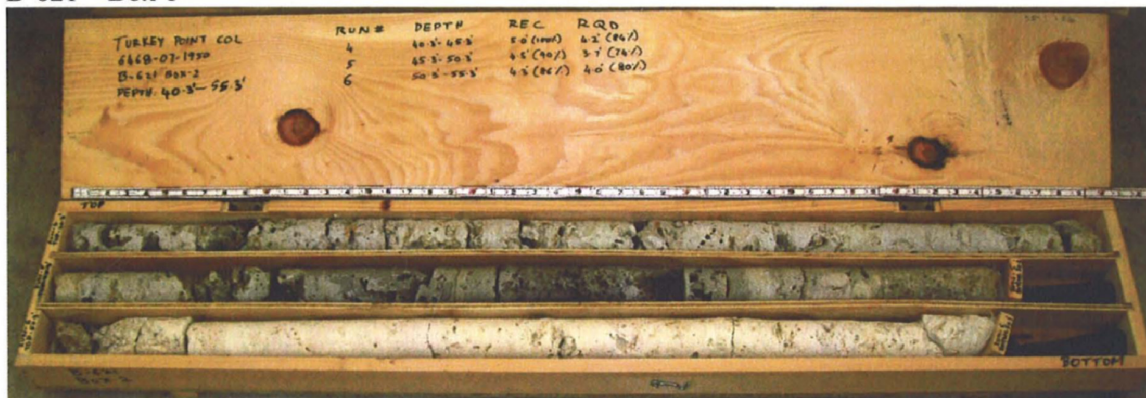
BECHTEL PROJECT NO.: 25409				MACTEC PROJECT NO.: 6468-07-1950				COUNTY: Miami-Dade		GEOLOGIST: G. Pillappa			
SITE DESCRIPTION: Turkey Point COL				DRILL MACHINE: CME-55 LC (RAL)				DRILLER: R. Banks/ J. Rosser				GROUND WATER (ft)	
BORING NO.: B-621				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core				0 HR. NA	
GROUND ELEV.: 0.2 ft (NAVD88)				NORTHING: 397,368 US ft (NAD83/90)				EASTING: 876,949 US ft (NAD83/90)				24 HR. NA	
TOTAL DEPTH: 126.5 ft				CASING DEPTH: 4" to 27.9', 3" to 115.3'				HAMMER (ID): 140 lb. Auto (MEC-02)					
DATE STARTED: 4/3/08				COMPLETED: 4/4/08				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) %	ROD (ft) %		REC. (ft) %	ROD (ft) %		
										Continued from previous page
-105.1	105.3	5.0	0:34 0:31 0:25 0:24 0:21 0:20 0:19	(4.9) 98%	(4.6) 92%	RUN-17 621-CS-04				LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, trace shells, few vugs, strong HCl reaction (Lower Fort Thompson Formation) (continued) 105.3ft. hard, indurated
-110.1	110.3	5.0	0:26 0:23 0:29 0:19 0:21	(4.0) 80%	(2.5) 50%	RUN-18				110.3ft: pale yellow (5Y8/2), to greenish gray (5GY6/1)
-115.1	115.3						(0.0) 0%	(NA)		POORLY GRADED SAND with silt (SP-SM), greenish gray (5GY6/1), medium dense, moist, fine to medium grained sand, strong HCl reaction, trace shell fragments, little fines (Tamiami Formation) Coring Terminated at Elevation -115.5

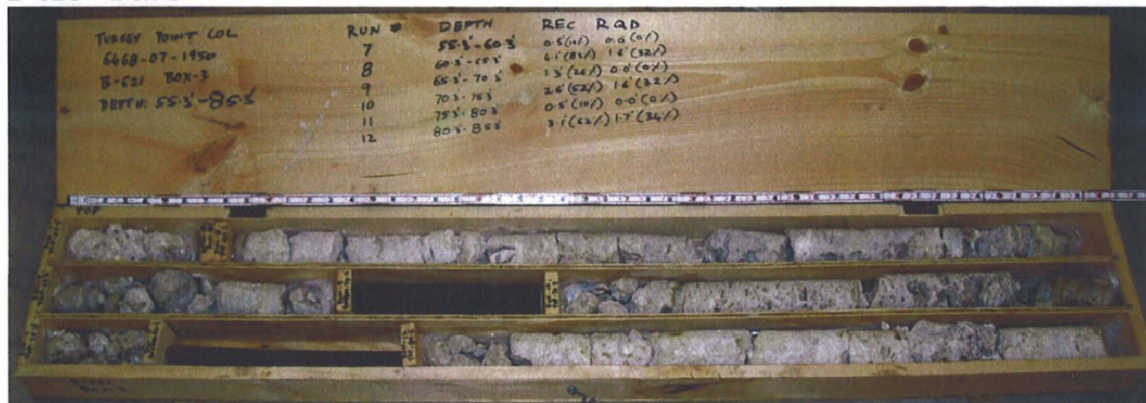
TURKEY POINT COL CORE, TURKEY POINT GPJ, TURKEY POINT COL GDI 5/30/08



B-621 - Box 1



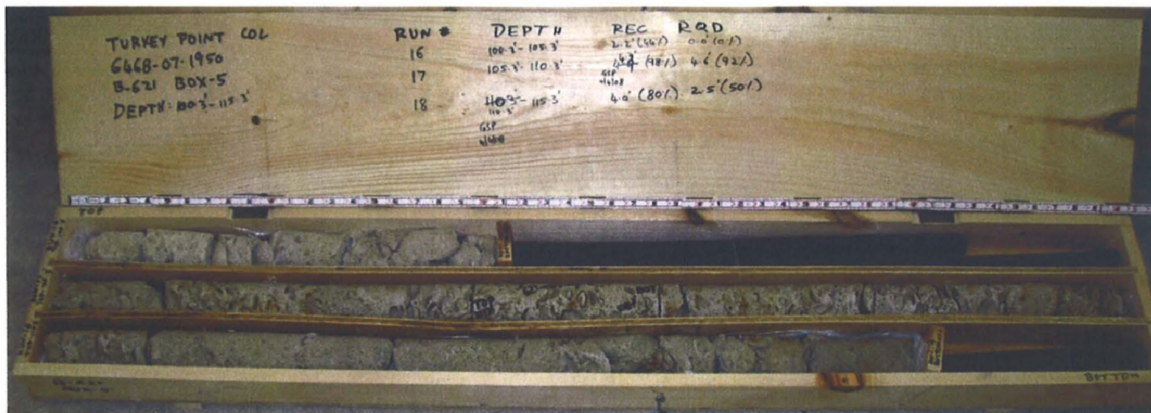
B-621 - Box 2



B-621 - Box 3



B-621 - Box 4



B-621 - Box 5



GEOTECHNICAL BORING LOG

Prepared By QPC Date 8-14-08Checked By SL Date 8/19/08

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-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		BORING DIAMETER: 4" to 28.9', 3" to 100.2'				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		BITS USED: 2 7/8" 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			
0.2					Ground Surface								0.2
0.2	0.0	WOH	1	WOH	1								0.0
-2.3	2.5												
-4.9	5.1	WOH	WOH	WOH	0								
-7.1	7.3	3	12	18									
-9.8	10.0	7	7	9									
-12.3	12.5	5	7	8									
-14.5	14.7	22	21	18									
-18.3	18.5	7	12	16									
-23.3	23.5	3	12	43									
-28.3	28.5	3	13	20									
-29.0	29.2	7	50/0.1										
-30.0	30.2												
-35.0	35.2												
-40.0	40.2												
-45.0	45.2												
-50.0	50.2												
-55.0	55.2												
-60.0	60.2												
-65.0	65.2												
-70.0	70.2												

TURKEY POINT COL BORE: TURKEY POINT GPJ TURKEY POINT COL GDT: 8/14/08

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) 0 HR. NA 24 HR. NA					
BORING NO.: B-622						DRILL METHOD: Mud Rotary/ Core							SAMPLE METHODS: SPT/Core												
GROUND ELEV.: 0.2 ft (NAVD88)						NORTHING: 397,421 US ft (NAD83/90)							EASTING: 876,811 US ft (NAD83/90)												
TOTAL DEPTH: 100.2 ft						BORING DIAMETER: 4" to 28.9', 3" to 100.2'							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							BITS USED: 2 7/8" Tricone					
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT							SAMP.	MOI	LOG	SOIL AND ROCK DESCRIPTION										
		0.5ft	0.5ft	0.5ft	0	20	40	60	80	100	NO.														
-74.6					Continued from previous page																				
-75.0	75.2											RUN-11			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) (<i>continued</i>) 75.2ft: moderately hard to hard, moderately indurated 80.2ft: moderately hard, moderately indurated 85.2ft: trace fine grained sand 90.2ft: hard, indurated, few to little shell molds and casts 95.2ft: moderately hard to hard, moderately indurated, trace shell molds and casts										
-80.0	80.2											RUN-12													
-85.0	85.2											RUN-13													
-90.0	90.2											RUN-14													
-95.0	95.2											RUN-15													
															-100.0 100.2 Boring Terminated at Elevation -100.0 ft										

TURKEY POINT COL BORE TURKEY POINT GPJ TURKEY POINT COL GDT 8-14-08