



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.	LOG	SOIL AND ROCK DESCRIPTION		
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100	
-1.5					Ground Surface							-1.5	0.0	
-1.5	0.0	WOH	WOH	WOH							620(DH)-1			MUCK, light gray (2.5Y7/2), to grayish brown (2.5Y5/2), very soft, wet, strong HCl reaction, mostly organics
-4.0	2.5										620(DH)-2			
-6.5	5.0	3	9	12							620(DH)-3			LIMESTONE, boundstone, pale yellow (5Y8/2), soft, wet, friable, strong HCl reaction, oolitic (Miami Formation)
-9.0	7.5	10	9	8							620(DH)-4			5.0ft: very soft, fossiliferous
-11.5	10.0	8	6	5							620(DH)-5			10.0ft: medium hard, moderately indurated
-13.9	12.4	7	11	21							620(DH)-6			12.4ft: soft
-16.4	14.9	17	20	10							620(DH)-7			14.9ft: moderately hard
-21.0	19.5	14	16	31							620(DH)-8			19.5ft: very soft
-26.0	24.5	13	7	7							620(DH)-9			
-27.0	25.5	50/0.4									RUN-1			LIMESTONE, boundstone, pale yellow (5Y8/2), hard, wet, strong HCl reaction (Upper Fort Thompson Formation)
-32.0	30.5										RUN-2			25.5ft: Switch sampling method to coring
-37.0	35.5										RUN-3			25.5ft: white (5Y8/1), hard, indurated, fossiliferous, strong HCl reaction, sandy zones
-42.0	40.5										RUN-4			26.0ft: loss of circulation
-47.0	45.5										RUN-5			30.5ft: medium hard, moderately indurated, recrystallized calcite, few vugs
-52.0	50.5										RUN-6			35.5ft: moderately hard, coralline
-57.0	55.5										RUN-7			40.5ft: hard, indurated
-62.0	60.5										RUN-8			45.5 to 47.7ft: light bluish gray (5PB7/1), locally interconnected vugs and filled with recrystallized calcite, horizontal bedding plane at 47.7ft
-67.0	65.5										RUN-9			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)
-72.0	70.5										RUN-10			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

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



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.	LOG	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100
-76.3					Continued from previous page								
-77.0	75.5												
-82.0	80.5									RUN-11		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) (continued)	
-87.0	85.5									RUN-12		75.5ft: hard, indurated	
-92.0	90.5									RUN-13		80.5ft: soft to hard, friable to indurated Silty SAND (SM), white (5Y8/1), wet, fine grained sand, strong HCl reaction	
-97.0	95.5									RUN-14		LIMESTONE, boundstone, white (5Y8/1), hard, indurated, fossiliferous, strong HCl reaction, sandy zones, few vugs	
-102.0	100.5									RUN-15		90.5ft: medium hard to hard, friable to indurated	
-107.0	105.5									RUN-16		95.5ft: hard, indurated	
-112.0	110.5									RUN-17		100.5ft: little vugs	
-117.0	115.5									RUN-18		110.5ft: hard to soft, indurated to friable	
-122.0	120.5									RUN-19		117.0ft: 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)	
		15	15	36						B20(DH)-10		120.5ft: switch sampling method to SPT	
-131.5	130.0	3	5	6						B20(DH)-11		126.5ft: Silty SAND (SM), light greenish gray (10Y7/1), medium dense, wet, strong HCl reaction, fine grained sand	
-140.0	138.5	5	3	6						B20(DH)-12		138.5ft: loose	
-150.0	148.5	5	8	12						B20(DH)-13		148.5ft: light olive gray (5Y6/2), medium dense	

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



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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.	LOG	SOIL AND ROCK DESCRIPTION
		0.5ft	0.5ft	0.5ft	0	20	40	60	80			
-151.1					Continued from previous page							
-160.0	158.5	3	4	8								158.5ft: olive gray (5Y5/2)
-170.0	168.5	7	8	10								178.5ft: loose
-180.0	178.5	3	4	6								188.5ft: medium dense
-190.0	188.5	4	3	9								198.5ft: trace limestone fragments
-200.0	198.5	5	6	9								
-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



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		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS	
				REC. (ft) %	RQD (ft) %		REC. (ft) %	RQD (ft) %			
										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) <i>(continued)</i> 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	(28.7) 81%	(19.5) 55%		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				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	(2.8) 62%	(NA)		84.5	Silty SAND (SM), white (5Y8/1), wet, fine grained sand, strong HCl reaction
-87.0	85.5	5.0	0:41 1:14 1:52 1:47 1:49	(5.0) 100%	(4.0) 80%	RUN-13	(21.3) 76%	(15.7) 56%		89.0	LIMESTONE, boundstone, white (5Y8/1), hard, indurated, fossiliferous, strong HCl reaction, sandy zones, few vugs
-92.0	90.5	5.0	0:30 1:39 2:01 1:08 1:21	(4.1) 82%	(2.7) 54%	RUN-14				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										

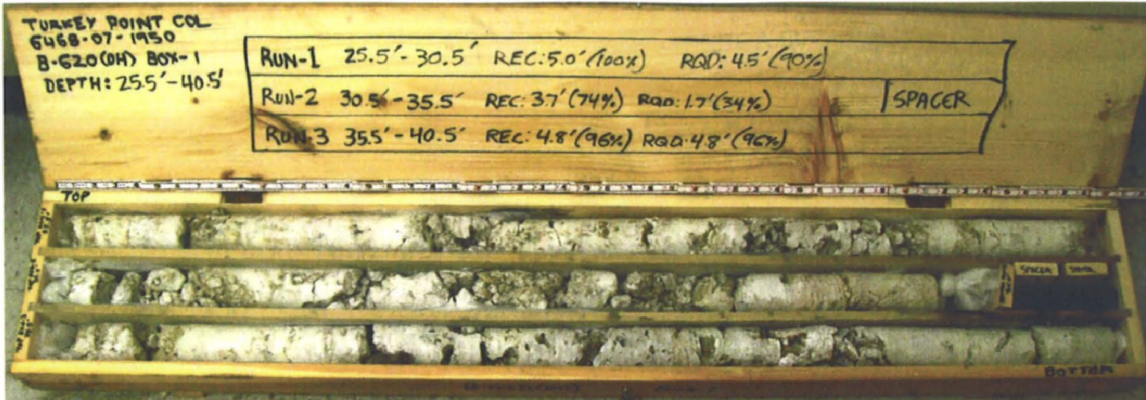
TURKEY POINT COL CORE TURKEY POINT G.P.J. TURKEY POINT COL G.D.T. 8/19/08



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		SAMP. NO.	STRATA		LOG	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 (continued) 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

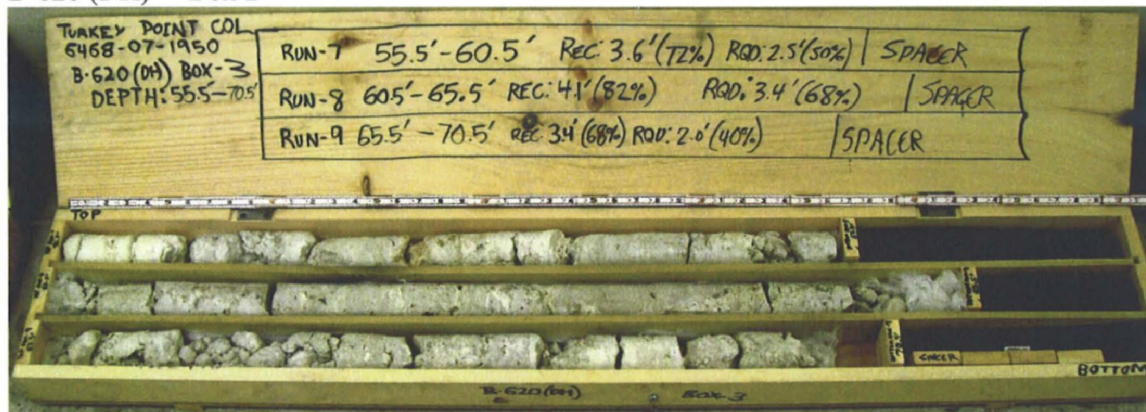
TURKEY POINT COL CORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 8/19/08



B-620 (DH) – Box 1



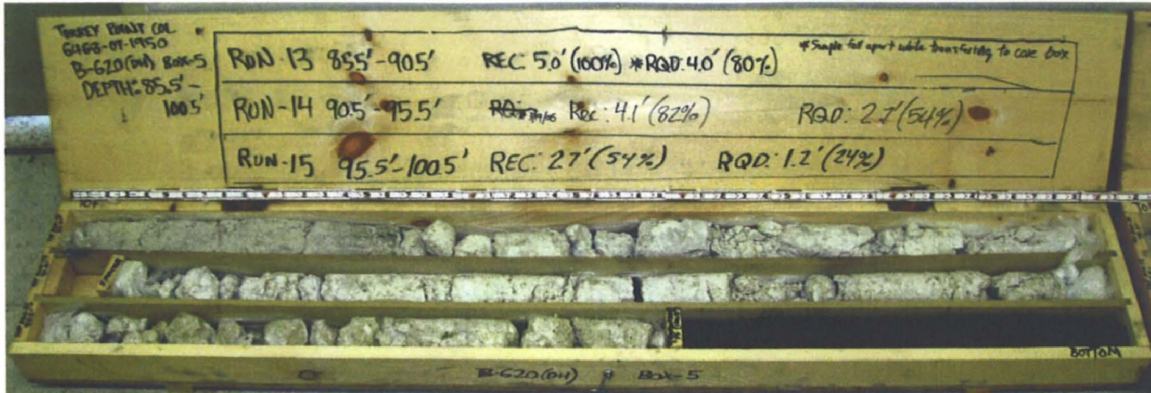
B-620 (DH) – Box 2



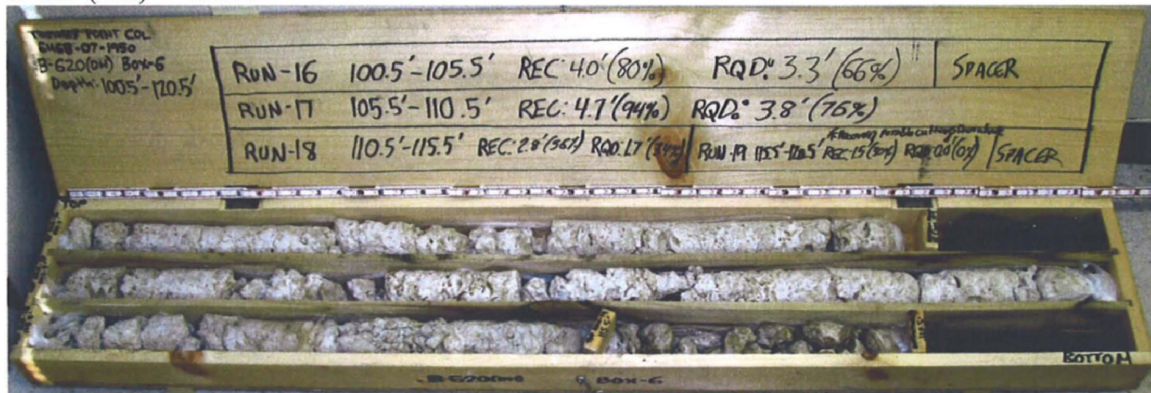
B-620 (DH) – Box 3



B-620 (DH) – Box 4



B-620 (DH) - Box 5



B-620 (DH) - Box 6



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-621	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	
GROUND ELEV.: 0.2 ft (NAVD88)	NORTHING: 397,368 US ft (NAD83/90)	EASTING: 876,949 US ft (NAD83/90)	
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			12.0ft: medium hard	
-11.8	12.0	11	16	17							621-6			14.5ft: soft, fossiliferous	
-14.3	14.5	6	9	13							621-7			18.5ft: very soft	
-18.3	18.5	7	6	3							621-8				
-23.3	23.5	3	4	2							621-9				
-28.3	28.5	50/0.5									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	50/0.5									RUN-2			LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, strong HCl reaction, few vugs	
-35.1	35.3	50/0.5									RUN-3			30.3ft: coralline	
-40.1	40.3	50/0.5									RUN-4				
-45.1	45.3	50/0.5									621-CS-01			45.3 to 48.3ft: light gray (10YR7/1), trace recrystallized calcite	
-50.1	50.3	50/0.5									RUN-5				
-55.1	55.3	50/0.5									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	50/0.5									RUN-7			50.3ft: trace shell molds, trace fine sand	
-65.1	65.3	50/0.5									RUN-8			60.3ft: trace to few shell molds	
-70.1	70.3	50/0.5									RUN-9			65.3ft: sandy	
		50/0.5									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



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
-74.6					Continued from previous page								
-75.1	75.3												LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, trace shells, few vugs, strong HCl reaction (Lower Fort Thompson Formation) (continued)
-80.1	80.3												75.3 to 80.3ft: possible thin interbeds of sand and friable limestone
-85.1	85.3												80.3ft: trace to few shell molds and casts, few vugs
-90.1	90.3												
-95.1	95.3												95.3ft: moderately hard to hard, moderately indurated to indurated, sandy
-100.1	100.3												
-105.1	105.3												105.3ft: hard, indurated
-110.1	110.3												110.3ft: pale yellow (5Y8/2), to greenish gray (5GY6/1)
-115.1	115.3												
		3	5	12									115.3ft: Switch sampling method to SPT
-124.8	125.0												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)
		7	14	11									115.3ft: Switch sampling method to SPT
													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



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	
BORING NO.: B-621		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core	
GROUND ELEV.: 0.2 ft (NAVD88)		NORTHING: 397,368 US ft (NAD83/90)		EASTING: 876,949 US ft (NAD83/90)	
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		LOG	DESCRIPTION AND REMARKS
				REC (%)	RQD (%)		REC (%)	RQD (%)		
										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) (continued) LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, strong HCl reaction, few vugs 30.3ft: coralline 45.3 to 48.3ft: light gray (10YR7/1), trace recrystallized calcite LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, trace shells, few vugs, strong HCl reaction (Lower Fort Thompson Formation) 50.3ft: trace shell molds, trace fine sand 60.3ft: trace to few shell molds 65.3ft: sandy 70.3ft: few to little shell molds and casts 75.3 to 80.3ft: possible thin interbeds of sand and friable limestone 80.3ft: trace to few shell molds and casts, few vugs 95.3ft: moderately hard to hard, moderately indurated to indurated, sandy
-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							
			0.26							
-35.1	35.3	5.0	0.29	(5.0)	(3.3)	RUN-3				
			0.20	100%	66%					
			0.23							
			0.22							
			0.20							
			0.25							
-40.1	40.3	5.0	0.23	(5.0)	(4.2)	RUN-4				
			0.26	100%	84%					
			0.22							
			0.28							
			0.39			621-CS-01				
-45.1	45.3	5.0	0.43	(4.5)	(3.7)	RUN-5				
			0.33	90%	74%					
			0.41							
			0.41							
			0.39							
-50.1	50.3	5.0	1.01	(4.3)	(4.0)	RUN-6	(40.6)	(23.7)	-48.1	
			0.59	86%	80%		61%	36%	48.3	
			0.43							
			0.35							
			0.40							
-55.1	55.3	5.0	1.01	(0.5)	(0.0)	RUN-7				
			0.40	10%	0%					
			1.12							
			1.25							
			0.44							
-60.1	60.3	5.0	0.38	(4.1)	(1.6)	RUN-8				
			0.36	82%	32%					
			0.30							
			0.27							
			0.28							
-65.1	65.3	5.0	0.24	(1.3)	(0.0)	RUN-9				
			0.15	26%	0%					
			0.16							
			0.19							
			0.26							
-70.1	70.3	5.0	0.18	(2.6)	(1.6)	RUN-10				
			0.24	52%	32%					
			0.39							
			0.24							
			0.37							
-75.1	75.3	5.0	0.32	(0.5)	(0.0)	RUN-11				
			0.22	10%	0%					
			0.11							
			0.13							
			0.37							
-80.1	80.3	5.0	0.24	(3.1)	(1.7)	RUN-12				
			0.18	62%	34%					
			0.11							
			0.22							
			0.23							
-85.1	85.3	5.0	0.24	(4.6)	(2.2)	RUN-13				
			0.38	92%	44%					
			0.36							
			0.40							
			0.37							
-90.1	90.3	5.0	0.48	(4.1)	(1.9)	RUN-14				
			0.38	82%	38%					
			0.19							
			0.25							
			0.34							
-95.1	95.3	5.0	0.41	(2.9)	(2.1)	RUN-15				
			0.30	58%	42%					
			0.24							
			0.21							
			0.18							
-100.1	100.3	5.0	0.19	(2.2)	(0.0)	RUN-16				
			0.24	44%	0%					
			0.26							

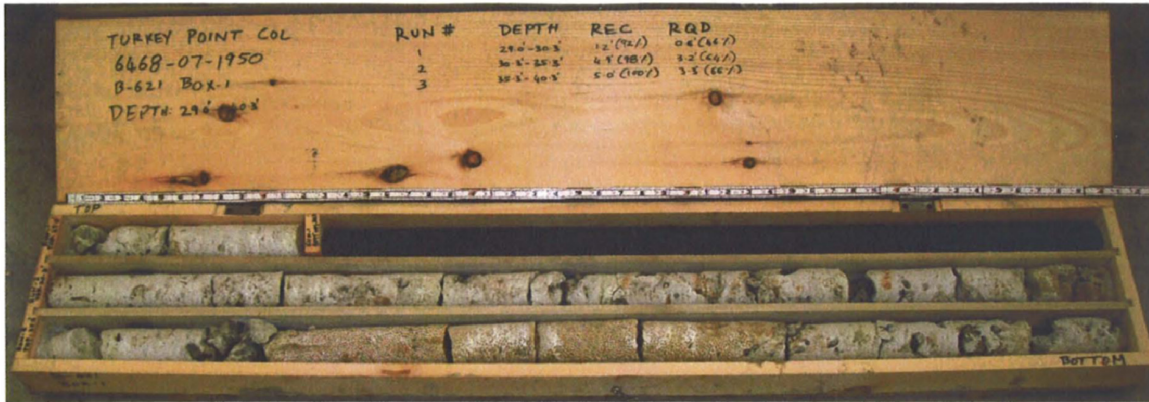
TURKEY POINT COL CORE TURKEY POINT.GPI TURKEY POINT COL.GDT 5.30.08



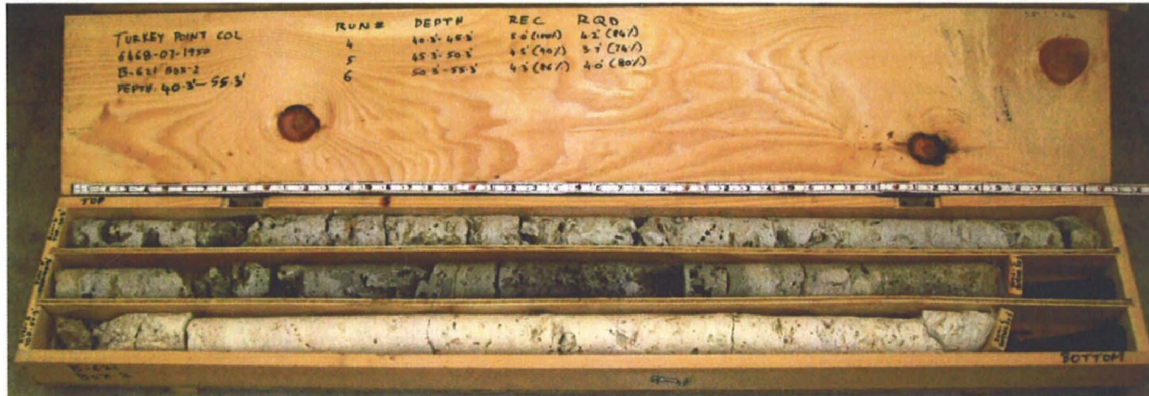
BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade	GEOLOGIST: G. Pillappa
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-55 LC (RAL)		DRILLER: R. Banks/ J. Rosser	
BORING NO.: B-621		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core	
GROUND ELEV.: 0.2 ft (NAVD88)	NORTHING: 397,368 US ft (NAD83/90)	EASTING: 876,949 US ft (NAD83/90)	GROUND WATER (ft)		
TOTAL DEPTH: 126.5 ft		CASING DEPTH: 4" to 27.9', 3" to 115.3'			0 HR. NA
DATE STARTED: 4/3/08		COMPLETED: 4/4/08	CORE SIZE: HQ3	HAMMER (ID): 140 lb. Auto (MEC-02)	
				24 HR. NA	
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) %	ROD (ft) %		REC. (ft) %	ROD (ft) %		
			0.34 0.31							Continued from previous page
-105.1	105.3	5.0	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)		-114.3 -115.1 114.5 115.3 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

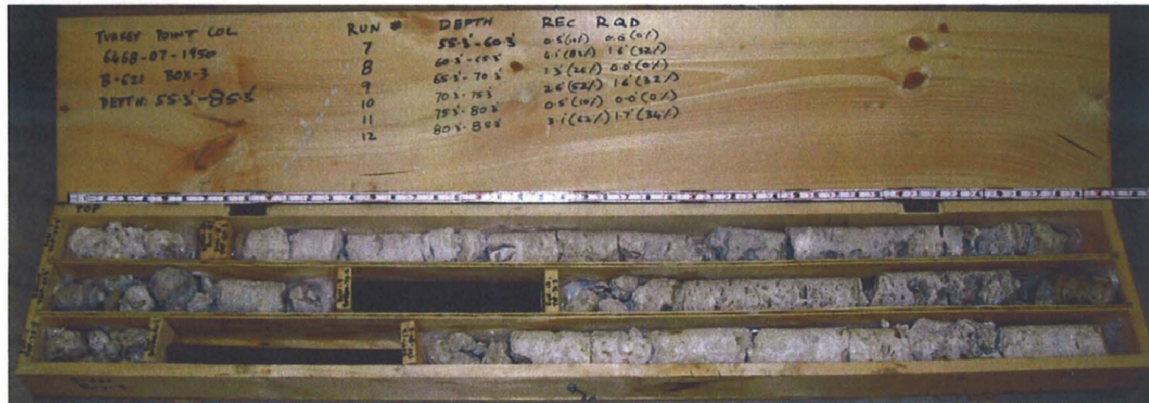
TURKEY POINT COL CORE_TURKEY POINT.GPJ TURKEY POINT COL.GDI 5/30/08



B-621 - Box 1



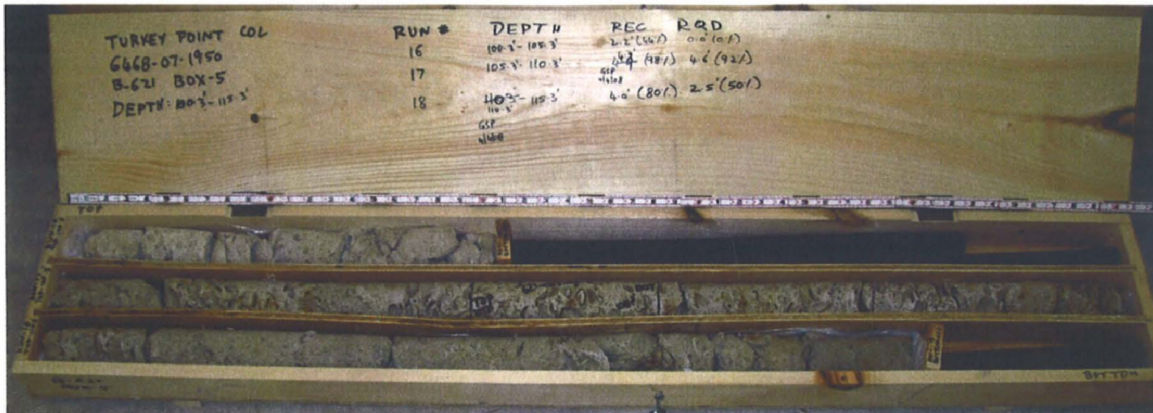
B-621 - Box 2



B-621 - Box 3



B-621 - Box 4



B-621 - Box 5



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.	LOG MOI	SOIL AND ROCK DESCRIPTION
		0.5ft	0.5ft	0.5ft	0	20	40	60	80			
0.2					Ground Surface							0.2
0.2	0.0	WOH	1	WOH	●1						622-1	MUCK, light brownish gray (10YR6/3), to very dark gray (10YR3/1), very soft, moist, mostly organic, strong HCl reaction
-2.3	2.5										622-2	
-4.9	5.1	WOH	WOH	WOH	●0						622-3	Field notes do not indicated that sample 622-3 was split into separated jars
-7.1	7.3	3	12	18		●30					622-4	LIMESTONE, boundstone, white (10YR8/1), soft, wet, strong HCl reaction, oolitic (Miami Formation)
-9.8	10.0	7	7	9		●16					622-5	7.3ft: very soft
-12.3	12.5	5	7	8		●15					622-6	12.5ft: medium hard, fossiliferous
-14.5	14.7	22	21	18			●39				622-7	14.7ft: soft
-18.3	18.5	7	12	16			●28				622-8	18.5ft: moderately hard
-23.3	23.5	3	12	43			●55				622-8	
		3	13	20				●33			622-9	23.5ft: medium hard
-28.3	28.5										622-10	LIMESTONE, boundstone, white (10YR8/1), hard, wet, fossiliferous, strong HCl reaction
-29.0	29.2	7	50/0.1						57/0.6		RUN-1	(Upper Fort Thompson Formation)
-30.0	30.2										RUN-2	29.2ft: Switch sampling method to coring
											RUN-3	29.2ft: white (10YR8/1), hard, indurated, trace coralline, strong HCl reaction, few vugs
-35.0	35.2										RUN-4	
-40.0	40.2										RUN-5	40.2ft: recrystallized calcite
-45.0	45.2										RUN-6	
-50.0	50.2										RUN-7	45.2ft: white (10YR8/1) to 46.5ft then light gray (10YR7/1) to 47.8ft
-55.0	55.2										RUN-8	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)
-60.0	60.2										RUN-9	55.2ft: moderately hard to hard, moderately indurated to indurated, few shell molds and casts
-65.0	65.2										RUN-10	60.2ft: hard, indurated
-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. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION			
		0.5ft	0.5ft	0.5ft	0	20	40	60	80	100							
-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.GDI 8/14/08