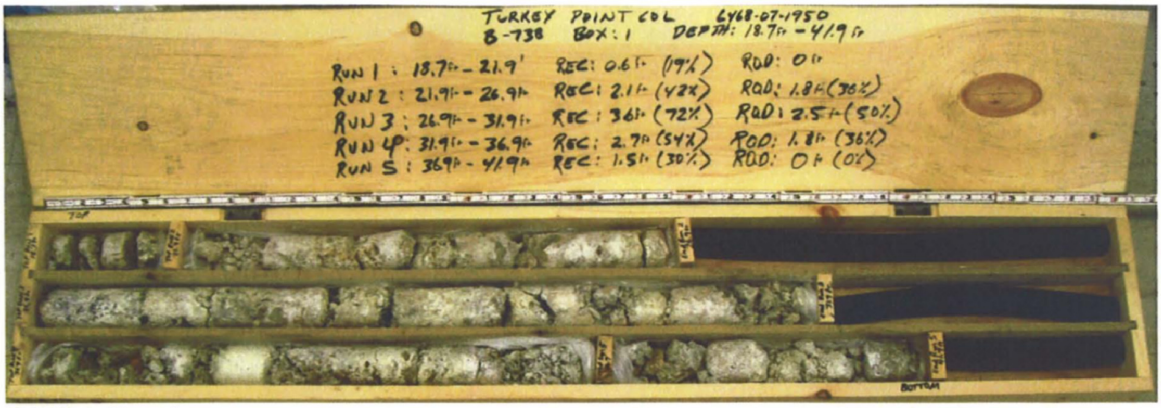
MACTEC

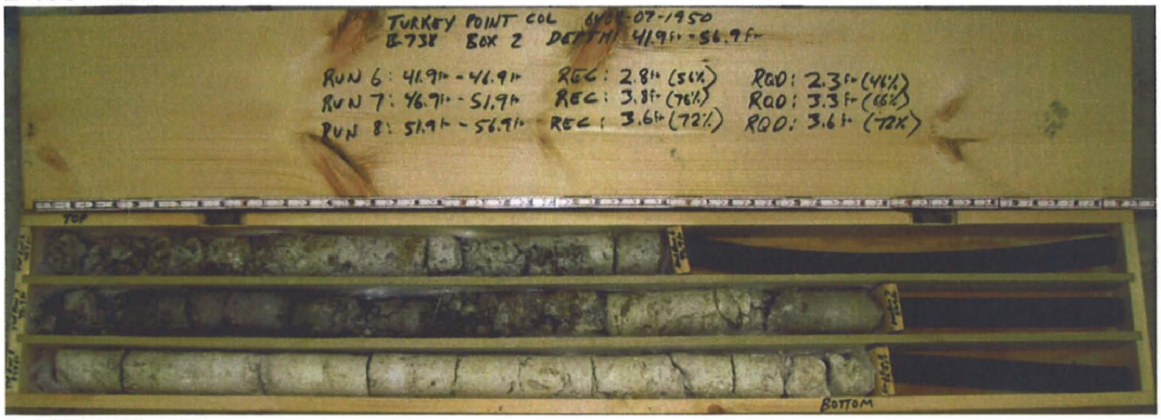
BECHTEL PROJECT NO.: 25409	MACTEC PROJECT NO.: 6468-07-1950	COUNTY: Miami-Dade	GEOLOGIST: S. Lehman
SITE DESCRIPTION: Turkey Point COL	DRILL MACHINE: CME-45C (RAL)	DRILLER: D. Rhodes/ K. Guy	GROUND WATER (ft)
BORING NO.: B-738	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	0 HR. NA
GROUND ELEV.: 0.1 ft (NAVD88)	NORTHING: 397,728 US ft (NAD83/90)	EASTING: 875,607 US ft (NAD83/90)	24 HR. NA
TOTAL DEPTH: 101.2 ft	CASING DEPTH: 4" to 13.5'		HAMMER (ID): 140 lb. Auto (MEC-12)
DATE STARTED: 4/10/08	COMPLETED: 4/17/08	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) %	RUN RQD (ft) %	SAMP. NO.	STRATA REC. (ft) %	STRATA RQD (ft) %	LOG	DESCRIPTION AND REMARKS
										Continued from previous page
-96.0	96.1		0:32 0:29 0:10	57%	31%					LIMESTONE, boundstone, white (2.5Y8/1), soft to hard, friable to indurated, possible interbedded sand layers *(continued)*
		4.8	0:59/0.2	(1.8) 38%	(0.0) 0%	RUN-17				
-100.8	100.9		0:34/0.8 0:41 0:40 1:02 1:40							-100.8 100.9ft: hard, indurated 100.9 Coring Terminated at Elevation -100.8

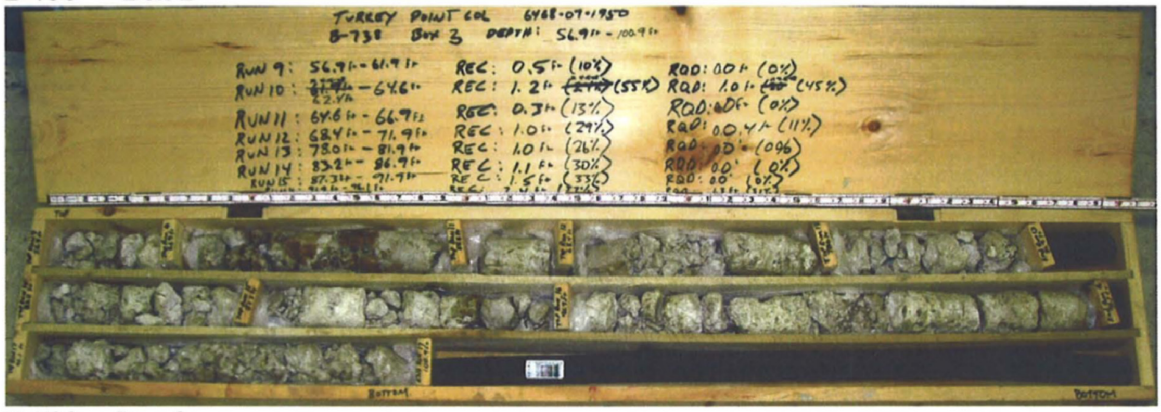
TURKEY POINT COL CORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 7/10/08



B-738 – Box 1



B-738 – Box 2



B-738 – Box 3

MACTEC

GEOTECHNICAL BORING LOG

Prepared By [illegible] Date 7-10-08
Checked By [illegible] Date 7-10-08

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-739	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	0 HR. NA
GROUND ELEV.: -1.6 ft (NAVD88)	NORTHING: 396,963 US ft (NAD83/90)	EASTING: 876,150 US ft (NAD83/90)	24 HR. NA
TOTAL DEPTH: 101.0 ft	BORING DIAMETER: 4" to 31.0', 3" to 101.0'	CASING DEPTH: 4" to 31.0'	HAMMER (ID):140 lb. Auto (07)
DATE STARTED: 2/22/08	COMPLETED: 2/24/08	CORE SIZE: HQ3	BITS USED: 2 15/16" Tricone

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT (0 20 40 60 80 100)	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-1.6					Ground Surface				-1.6 0.0
-1.6 / -4.1	0.0 / 2.5	WOH	WOH	WOH	WOH 0	739-1			MUCK, light brownish gray (2.5Y6/2), to dark grayish brown (10YR4/2), very soft, wet, strong HCl reaction, mostly organic
		WOH	8	50/0.3	58/0.8	739-2			-4.6 3.0 LIMESTONE, boundstone, white (5Y8/1), hard, friable, strong HCl reaction, oolitic (Miami Formation)
-7.1	5.5				SEE LEGEND FOR ROCK HARDNESS CRITERIA BASED ON SPT DATA				5.5ft: very soft
-8.9	7.3	5	9	7	16	739-3			7.3ft: soft
		14	16	7	23	739-4			
-11.5	9.9								
		5	3	4	7	739-5			9.9ft: very soft, some coarse grained sand, shell fragments
-14.0	12.4								
		15	10	7	17	739-6			
-17.2	15.6								
-18.0	16.4	18	50/0.3		68/0.8	739-7 / RUN-1			15.6ft: hard 16.4ft: Switch sampling method to coring 16.4ft: indurated, fossiliferous, recrystallized calcite, little locally interconnected vugs, cemented sand and shell fragments
-22.4	20.8					RUN-2			20.8ft: soft and friable
-27.9	26.3								
		5	4	15	19	739-8			26.0ft: loss of circulation -29.6 26.3ft: Switch sampling method to SPT 28.0 26.3ft: very soft, some medium grained sand
-32.1	30.5								
-32.6	31.0	50/0.5			50/0.5	739-9 / RUN-3			LIMESTONE, boundstone, white (5Y8/1), wet, fossiliferous, strong HCl reaction (Upper Fort Thompson Formation) 30.5ft: hard 31.0ft: Switch sampling method to coring
-37.6	36.0					RUN-4			31.0ft: white (5Y8/1), to pale yellow (5Y8/3), moderately hard, indurated, some vugs, recrystallized calcite 36.0ft: white (5Y8/1), hard, few vugs
-42.6	41.0					RUN-5			41.0ft: coralline
-47.6	46.0					RUN-6			-48.6 46.0ft: light gray (5Y7/1) 47.0 LIMESTONE, boundstone, white, (5Y8/1), hard, indurated, few vugs, fossiliferous, strong HCl reaction, recrystallized calcite (Lower Fort Thompson Formation)
-52.6	51.0					RUN-7			
-57.6	56.0					RUN-8			
-62.6	61.0					RUN-9			
-67.6	66.0					RUN-10			66.0ft: little vugs
-72.6	71.0					RUN-11			71.0ft: moderately hard, moderately indurated

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