



## GEOTECHNICAL BORING LOG

Prepared By Tom Date 7-10-08Checked By Tom Date 7-10-08

SHEET 1 OF 3

|                                    |       |            |        |                                            |                |    |    |                                         |    |     |          |                                                   |                                                                                                                                                                                                                       |     |  |
|------------------------------------|-------|------------|--------|--------------------------------------------|----------------|----|----|-----------------------------------------|----|-----|----------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--|
| 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-603                  |       |            |        | DRILL METHOD: Mud Rotary/ Core             |                |    |    | SAMPLE METHODS: SPT/Core                |    |     |          | 0 HR.                                             |                                                                                                                                                                                                                       | NA  |  |
| GROUND ELEV.: -1.4 ft (NAVD88)     |       |            |        | NORTHING: 397,018 US ft (NAD83/90)         |                |    |    | EASTING: 876,697 US ft (NAD83/90)       |    |     |          | 24 HR.                                            |                                                                                                                                                                                                                       | NA  |  |
| TOTAL DEPTH: 151.2 ft              |       |            |        | BORING DIAMETER: 4" to 15.0', 3" to 151.2' |                |    |    | CASING DEPTH: 4" to 15.0', 3" to 124.0' |    |     |          | HAMMER (ID): 140 lb. Auto (MEC-03)                |                                                                                                                                                                                                                       |     |  |
| DATE STARTED: 2/14/08              |       |            |        | COMPLETED: 2/21/08                         |                |    |    | CORE SIZE: HQ3                          |    |     |          | BITS USED: 4 1/4" Drag Bit & 2 15/16" Roller Cone |                                                                                                                                                                                                                       |     |  |
| 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.      |                                                   |                                                                                                                                                                                                                       |     |  |
|                                    |       |            |        |                                            |                |    |    |                                         |    |     |          |                                                   |                                                                                                                                                                                                                       |     |  |
| -1.4                               |       |            |        |                                            | Ground Surface |    |    |                                         |    |     |          |                                                   | -1.4                                                                                                                                                                                                                  | 0.0 |  |
| -1.4                               | 0.0   | WOH        | WOH    | WOH                                        |                |    |    |                                         |    |     | 603-1    |                                                   | MUCK, light gray (2.5Y7/2), to black (2.5Y2.5/1), very soft, wet, mostly organics, trace roots, trace shell fragments                                                                                                 |     |  |
| -3.9                               | 2.5   |            |        |                                            |                |    |    |                                         |    |     | 603-2A&B |                                                   | -4.7 3.3                                                                                                                                                                                                              |     |  |
| -6.4                               | 5.0   | WOH        | 3      | 10                                         |                |    |    |                                         |    |     | 603-3    |                                                   | LIMESTONE, boundstone, white (2.5Y8.1), very soft, wet, moderately indurated, trace shell fragments (Miami Formation)                                                                                                 |     |  |
| -8.9                               | 7.5   | 10         | 8      | 8                                          |                |    |    |                                         |    |     | 603-4    |                                                   | 5.0ft: oolitic                                                                                                                                                                                                        |     |  |
| -11.4                              | 10.0  | 10         | 7      | 6                                          |                |    |    |                                         |    |     | 603-5    |                                                   | 7.5ft: mottled very dark gray (2.5Y3/1)                                                                                                                                                                               |     |  |
| -13.9                              | 12.5  | 5          | 9      | 10                                         |                |    |    |                                         |    |     | 603-6    |                                                   | 10.0ft: pale yellow (2.5Y8/2), to light brownish gray (2.5Y6/2), mottled light olive brown (2.5Y5/4), trace calcareous concretions                                                                                    |     |  |
| -16.4                              | 15.0  | 5          | 11     | 16                                         |                |    |    |                                         |    |     | 603-7    |                                                   | 12.5ft: pale yellow (2.5Y8/2), to light gray (2.5Y7/2), soft                                                                                                                                                          |     |  |
| -17.4                              | 16.0  | 7          | 50/0.5 |                                            |                |    |    |                                         |    |     | 603-7    |                                                   | 15.0ft: white (2.5Y8/1), mottled light gray (2.5Y7/1), hard, indurated                                                                                                                                                |     |  |
| -19.8                              | 18.4  |            |        |                                            |                |    |    |                                         |    |     | RUN-1    |                                                   | 16.0ft: Switch sampling method to coring                                                                                                                                                                              |     |  |
|                                    |       |            |        |                                            |                |    |    |                                         |    |     | RUN-2    |                                                   | 16.0ft: light gray (2.5Y7/2), moderately hard, indurated, trace sand, shells, vugs, fossiliferous, locally interconnected vugs                                                                                        |     |  |
| -24.8                              | 23.4  |            |        |                                            |                |    |    |                                         |    |     |          |                                                   | 18.4ft: trace recrystallized calcite                                                                                                                                                                                  |     |  |
|                                    |       |            |        |                                            |                |    |    |                                         |    |     | RUN-3    |                                                   | -24.8 23.4                                                                                                                                                                                                            |     |  |
| -29.8                              | 28.4  |            |        |                                            |                |    |    |                                         |    |     |          |                                                   | LIMESTONE, boundstone, white (2.5Y8/1), to light brownish gray (2.5Y6/2), moderately hard to hard, indurated, little recrystallized calcite, trace shell fragments, trace to few vugs (Upper Fort Thompson Formation) |     |  |
|                                    |       |            |        |                                            |                |    |    |                                         |    |     | RUN-4    |                                                   |                                                                                                                                                                                                                       |     |  |
| -34.8                              | 33.4  |            |        |                                            |                |    |    |                                         |    |     |          |                                                   | 25.9ft: loss of circulation                                                                                                                                                                                           |     |  |
|                                    |       |            |        |                                            |                |    |    |                                         |    |     | RUN-5    |                                                   | 28.4ft: coralline                                                                                                                                                                                                     |     |  |
| -39.8                              | 38.4  |            |        |                                            |                |    |    |                                         |    |     |          |                                                   | 33.4ft: white (2.5Y8/1), hard                                                                                                                                                                                         |     |  |
|                                    |       |            |        |                                            |                |    |    |                                         |    |     | RUN-6    |                                                   |                                                                                                                                                                                                                       |     |  |
| -44.8                              | 43.4  |            |        |                                            |                |    |    |                                         |    |     |          |                                                   | 43.4ft: white (2.5Y8/1) to gray (2.5Y5/1), trace coralline                                                                                                                                                            |     |  |
|                                    |       |            |        |                                            |                |    |    |                                         |    |     | RUN-7    |                                                   |                                                                                                                                                                                                                       |     |  |
| -49.8                              | 48.4  |            |        |                                            |                |    |    |                                         |    |     |          |                                                   | -49.8 48.4                                                                                                                                                                                                            |     |  |
|                                    |       |            |        |                                            |                |    |    |                                         |    |     | RUN-8    |                                                   | LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, trace shells (Lower Fort Thompson Formation)                                                                                                                 |     |  |
| -54.8                              | 53.4  |            |        |                                            |                |    |    |                                         |    |     |          |                                                   | 53.4ft: medium hard, moderately indurated to friable                                                                                                                                                                  |     |  |
|                                    |       |            |        |                                            |                |    |    |                                         |    |     | RUN-9    |                                                   |                                                                                                                                                                                                                       |     |  |
| -59.8                              | 58.4  |            |        |                                            |                |    |    |                                         |    |     |          |                                                   | 58.4ft: moderately hard, indurated, trace sand                                                                                                                                                                        |     |  |
|                                    |       |            |        |                                            |                |    |    |                                         |    |     | RUN-10   |                                                   |                                                                                                                                                                                                                       |     |  |
| -64.8                              | 63.4  |            |        |                                            |                |    |    |                                         |    |     |          |                                                   | 63.4ft: soft to medium hard, friable to moderately indurated                                                                                                                                                          |     |  |
|                                    |       |            |        |                                            |                |    |    |                                         |    |     | RUN-11   |                                                   |                                                                                                                                                                                                                       |     |  |
| -69.8                              | 68.4  |            |        |                                            |                |    |    |                                         |    |     |          |                                                   | 68.4ft: moderately hard, indurated                                                                                                                                                                                    |     |  |
|                                    |       |            |        |                                            |                |    |    |                                         |    |     | RUN-12   |                                                   |                                                                                                                                                                                                                       |     |  |
| -74.8                              | 73.4  |            |        |                                            |                |    |    |                                         |    |     |          |                                                   | 73.4ft: soft to medium hard, friable to moderately indurated, trace coralline                                                                                                                                         |     |  |
|                                    |       |            |        |                                            |                |    |    |                                         |    |     | RUN-13   |                                                   |                                                                                                                                                                                                                       |     |  |

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



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|                                    |       |                                            |       |                                    |                              |                                         |    |                                   |                                                   |                                   |                   |     |                                                                                                                                              |
|------------------------------------|-------|--------------------------------------------|-------|------------------------------------|------------------------------|-----------------------------------------|----|-----------------------------------|---------------------------------------------------|-----------------------------------|-------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------|
| 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-603                  |       |                                            |       | DRILL METHOD: Mud Rotary/ Core     |                              |                                         |    | SAMPLE METHODS: SPT/Core          |                                                   |                                   | 0 HR.             | NA  |                                                                                                                                              |
| GROUND ELEV.: -1.4 ft (NAVD88)     |       |                                            |       | NORTHING: 397,018 US ft (NAD83/90) |                              |                                         |    | EASTING: 876,697 US ft (NAD83/90) |                                                   |                                   | 24 HR.            | NA  |                                                                                                                                              |
| TOTAL DEPTH: 151.2 ft              |       | BORING DIAMETER: 4" to 15.0', 3" to 151.2' |       |                                    |                              | CASING DEPTH: 4" to 15.0', 3" to 124.0' |    |                                   |                                                   | HAMMER (ID):140 lb. Auto (MEC-03) |                   |     |                                                                                                                                              |
| DATE STARTED: 2/14/08              |       | COMPLETED: 2/21/08                         |       |                                    |                              | CORE SIZE: HQ3                          |    |                                   | BITS USED: 4 1/4" Drag Bit & 2 15/16" Roller Cone |                                   |                   |     |                                                                                                                                              |
| 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.               |     |                                                                                                                                              |
| -76.2                              |       |                                            |       |                                    | Continued from previous page |                                         |    |                                   |                                                   |                                   |                   |     |                                                                                                                                              |
| -79.8                              | 78.4  |                                            |       |                                    |                              |                                         |    |                                   |                                                   |                                   | RUN-14            |     | LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, trace shells (Lower Fort Thompson Formation) (continued)                            |
| -84.8                              | 83.4  |                                            |       |                                    |                              |                                         |    |                                   |                                                   |                                   | RUN-15            |     | 83.4ft: moderately hard, indurated                                                                                                           |
| -89.8                              | 88.4  |                                            |       |                                    |                              |                                         |    |                                   |                                                   |                                   | RUN-16            |     | 88.4ft: medium hard                                                                                                                          |
| -94.8                              | 93.4  |                                            |       |                                    |                              |                                         |    |                                   |                                                   |                                   | RUN-17            |     | 93.4ft: moderately indurated                                                                                                                 |
| -99.8                              | 98.4  |                                            |       |                                    |                              |                                         |    |                                   |                                                   |                                   | RUN-18            |     | 98.4ft: moderately hard, indurated, few shells and shell molds                                                                               |
| -104.8                             | 103.4 |                                            |       |                                    |                              |                                         |    |                                   |                                                   |                                   | RUN-19            |     | 103.4ft: hard, indurated                                                                                                                     |
| -109.8                             | 108.4 |                                            |       |                                    |                              |                                         |    |                                   |                                                   |                                   | RUN-20            |     | 108.4ft: moderately hard, moderately indurated                                                                                               |
| -114.8                             | 113.4 |                                            |       |                                    |                              |                                         |    |                                   |                                                   |                                   | RUN-21            |     |                                                                                                                                              |
| -121.9                             | 120.5 | 6                                          | 12    | 10                                 |                              |                                         |    |                                   |                                                   |                                   | 603-8             |     | -116.4 Silty SAND (SM), light gray (5Y7/2), medium dense, moist, fine grained sand, little fines (Tamiami Formation) 115.0                   |
| -126.1                             | 124.7 | 6                                          | 12    | 10                                 |                              |                                         |    |                                   |                                                   |                                   | 603-9             |     | -121.9 120.5ft: Switch sampling method to SPT Sandy SILT (ML), light gray (5Y7/2), very stiff, moist, fine to coarse sand, fine gravel 120.5 |
| -133.1                             | 131.7 | 4                                          | 5     | 6                                  |                              |                                         |    |                                   |                                                   |                                   | 603-10            |     | 124.7ft: greenish gray (10Y6/1), trace shells 126.2ft: loss of circulation                                                                   |
| -137.8                             | 136.4 | 5                                          | 2     | 5                                  |                              |                                         |    |                                   |                                                   |                                   | 603-11            |     | -133.1 Silty SAND (SM), greenish gray (5GY6/1), medium dense, moist, fine to medium grained sand, fine gravel, trace shells 131.7            |
| -140.9                             | 139.5 | 12                                         | 10    | 8                                  |                              |                                         |    |                                   |                                                   |                                   | 603-12            |     | 136.4ft: loose, fine to coarse sand                                                                                                          |
| -146.1                             | 144.7 | 7                                          | 9     | 10                                 |                              |                                         |    |                                   |                                                   |                                   | 603-13            |     | 139.5ft: medium dense                                                                                                                        |
| -151.1                             | 149.7 |                                            |       |                                    |                              |                                         |    |                                   |                                                   |                                   |                   |     |                                                                                                                                              |

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





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| 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-603                  |               |            | DRILL METHOD: Mud Rotary/ Core             |       |                              | SAMPLE METHODS: SPT/Core                |    |    | 0 HR. NA                                          |     |              |     |     |                           |                                                                        |       |
| GROUND ELEV.: -1.4 ft (NAVD88)     |               |            | NORTHING: 397,018 US ft (NAD83/90)         |       |                              | EASTING: 876,697 US ft (NAD83/90)       |    |    | 24 HR. NA                                         |     |              |     |     |                           |                                                                        |       |
| TOTAL DEPTH: 151.2 ft              |               |            | BORING DIAMETER: 4" to 15.0', 3" to 151.2' |       |                              | CASING DEPTH: 4" to 15.0', 3" to 124.0' |    |    | HAMMER (ID): 140 lb. Auto (MEC-03)                |     |              |     |     |                           |                                                                        |       |
| DATE STARTED: 2/14/08              |               |            | COMPLETED: 2/21/08                         |       |                              | CORE SIZE: HQ3                          |    |    | BITS USED: 4 1/4" Drag Bit & 2 15/16" Roller Cone |     |              |     |     |                           |                                                                        |       |
| ELEV.<br>(ft)                      | DEPTH<br>(ft) | BLOW COUNT |                                            |       | BLOWS PER FOOT               |                                         |    |    |                                                   |     | SAMP.<br>NO. | MOI | LOG | SOIL AND ROCK DESCRIPTION |                                                                        |       |
|                                    |               | 0.5ft      | 0.5ft                                      | 0.5ft | 0                            | 20                                      | 40 | 60 | 80                                                | 100 |              |     |     |                           |                                                                        |       |
| -151.0                             |               |            |                                            |       | Continued from previous page |                                         |    |    |                                                   |     |              |     |     |                           |                                                                        |       |
|                                    |               | 5          | 7                                          | 8     | ● 15                         |                                         |    |    |                                                   |     | 60-14        |     |     | -152.6                    | 149.7ft: fine grained sand<br>Boring Terminated at Elevation -152.6 ft | 151.2 |

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: L. Bisson                                        |
| SITE DESCRIPTION: Turkey Point COL | DRILL MACHINE: CME-550 (ATL)            | DRILLER: L. Carter/ J. Landeros    | GROUND WATER (ft)                                           |
| BORING NO.: B-603                  | DRILL METHOD: Mud Rotary/ Core          | SAMPLE METHODS: SPT/Core           | 0 HR. NA                                                    |
| GROUND ELEV.: -1.4 ft (NAVD88)     | NORTHING: 397,018 US ft (NAD83/90)      | EASTING: 876,697 US ft (NAD83/90)  | 24 HR. NA                                                   |
| TOTAL DEPTH: 151.2 ft              | CASING DEPTH: 4" to 15.0', 3" to 124.0' | HAMMER (ID): 140 lb. Auto (MEC-03) |                                                             |
| DATE STARTED: 2/14/08              | COMPLETED: 2/21/08                      | CORE SIZE: HQ3                     | CORE BARREL TYPE: Triple Tube Wireline (Split inner liners) |

| ELEV.<br>(ft) | DEPTH<br>(ft) | RUN<br>(ft) | DRILL<br>RATE<br>(Min/ft) | REC<br>(ft)<br>% | RQD<br>(ft)<br>% | SAMP.<br>NO. | STRATA<br>REC.<br>(ft)<br>% | RQD<br>(ft)<br>% | L<br>O<br>G | DESCRIPTION AND REMARKS                                                                                                                                                                                               |
|---------------|---------------|-------------|---------------------------|------------------|------------------|--------------|-----------------------------|------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               |               |             |                           |                  |                  |              |                             |                  |             | Begin Coring @ 16.0 ft                                                                                                                                                                                                |
| -17.4         | 16.0          | 2.4         | 0.27                      | (1.6)            | (0.5)            | RUN-1        | (4.4)                       | (1.9)            |             | LIMESTONE, boundstone, white (2.5Y8/1), very soft, wet, moderately indurated, trace shell fragments (Miami Formation) <i>(continued)</i>                                                                              |
| -19.8         | 18.4          |             | 0.45                      | 67%              | 21%              |              | 59%                         | 26%              |             | 16.0ft: light gray (2.5Y7/2), moderately hard, indurated, trace sand, shells, vugs, fossiliferous, locally interconnected vugs                                                                                        |
|               |               | 5.0         | 0.17/0.4                  | (2.8)            | (1.4)            | RUN-2        |                             |                  |             | 18.4ft: trace recrystallized calcite                                                                                                                                                                                  |
|               |               |             | 0.06                      | (2.8)            | (1.4)            |              |                             |                  |             |                                                                                                                                                                                                                       |
|               |               |             | 0.52                      | 56%              | 28%              |              |                             |                  |             |                                                                                                                                                                                                                       |
|               |               |             | 0.22                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |
| -24.8         | 23.4          |             | 0.13                      |                  |                  |              |                             |                  |             | -24.8                                                                                                                                                                                                                 |
|               |               | 5.0         | 0.11                      | (4.2)            | (1.1)            | RUN-3        | (21.6)                      | (14.9)           |             | LIMESTONE, boundstone, white (2.5Y8/1), to light brownish gray (2.5Y6/2), moderately hard to hard, indurated, little recrystallized calcite, trace shell fragments, trace to few vugs (Upper Fort Thompson Formation) |
|               |               |             | 0.16                      | 84%              | 22%              |              | 86%                         | 60%              |             |                                                                                                                                                                                                                       |
|               |               |             | 0.41                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |
|               |               |             | 0.49                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |
| -29.8         | 28.4          |             | 0.36                      |                  |                  |              |                             |                  |             | 25.9ft: loss of circulation                                                                                                                                                                                           |
|               |               | 5.0         | 0.11                      | (3.3)            | (0.5)            | RUN-4        |                             |                  |             | 28.4ft: coralline                                                                                                                                                                                                     |
|               |               |             | 0.16                      | 66%              | 10%              |              |                             |                  |             |                                                                                                                                                                                                                       |
|               |               |             | 0.16                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |
| -34.8         | 33.4          |             | 0.11                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |
|               |               | 5.0         | 0.26                      | (5.0)            | (4.7)            | RUN-5        |                             |                  |             | 33.4ft: white (2.5Y8/1), hard                                                                                                                                                                                         |
|               |               |             | 0.36                      | 100%             | 94%              |              |                             |                  |             |                                                                                                                                                                                                                       |
|               |               |             | 0.34                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |
|               |               |             | 0.38                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |
| -39.8         | 38.4          |             | 0.35                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |
|               |               | 5.0         | 0.38                      | (5.0)            | (5.0)            | RUN-6        |                             |                  |             |                                                                                                                                                                                                                       |
|               |               |             | 0.40                      | 100%             | 100%             |              |                             |                  |             |                                                                                                                                                                                                                       |
|               |               |             | 0.48                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |
|               |               |             | 0.45                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |
| -44.8         | 43.4          |             | 0.59                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |
|               |               | 5.0         | 1.04                      | (4.1)            | (3.6)            | RUN-7        |                             |                  |             | 43.4ft: white (2.5Y8/1) to gray (2.5Y5/1), trace coralline                                                                                                                                                            |
|               |               |             | 0.10                      | 82%              | 72%              |              |                             |                  |             |                                                                                                                                                                                                                       |
|               |               |             | 1.02                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |
|               |               |             | 1.16                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |
| -49.8         | 48.4          |             | 1.08                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |
|               |               | 5.0         | 1.47                      | (5.0)            | (4.0)            | RUN-8        | (55.7)                      | (34.5)           |             | LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, trace shells (Lower Fort Thompson Formation)                                                                                                                 |
|               |               |             | 1.37                      | 100%             | 80%              |              | 84%                         | 52%              |             |                                                                                                                                                                                                                       |
|               |               |             | 1.20                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |
|               |               |             | 1.19                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |
| -54.8         | 53.4          |             | 0.53                      |                  |                  |              |                             |                  |             | 53.4ft: medium hard, moderately indurated to friable                                                                                                                                                                  |
|               |               | 5.0         | 0.25                      | (3.6)            | (1.4)            | RUN-9        |                             |                  |             |                                                                                                                                                                                                                       |
|               |               |             | 0.29                      | 72%              | 28%              |              |                             |                  |             |                                                                                                                                                                                                                       |
|               |               |             | 0.26                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |
| -59.8         | 58.4          |             | 0.39                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |
|               |               | 5.0         | 0.06                      | (4.2)            | (2.2)            | RUN-10       |                             |                  |             | 58.4ft: moderately hard, indurated, trace sand                                                                                                                                                                        |
|               |               |             | 0.10                      | 84%              | 44%              |              |                             |                  |             |                                                                                                                                                                                                                       |
|               |               |             | 0.26                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |
| -64.8         | 63.4          |             | 0.21                      | (4.3)            | (2.2)            | RUN-11       |                             |                  |             | 63.4ft: soft to medium hard, friable to moderately indurated                                                                                                                                                          |
|               |               | 5.0         | 0.18                      | 86%              | 44%              |              |                             |                  |             |                                                                                                                                                                                                                       |
|               |               |             | 0.11                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |
|               |               |             | 3.30                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |
| -69.8         | 68.4          |             | 0.47                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |
|               |               | 5.0         | 0.24                      | (3.4)            | (1.1)            | RUN-12       |                             |                  |             | 68.4ft: moderately hard, indurated                                                                                                                                                                                    |
|               |               |             | 0.38                      | 68%              | 22%              |              |                             |                  |             |                                                                                                                                                                                                                       |
|               |               |             | 0.48                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |
| -74.8         | 73.4          |             | 2.01                      |                  |                  |              |                             |                  |             | 73.4ft: soft to medium hard, friable to moderately indurated, trace coralline                                                                                                                                         |
|               |               | 5.0         | 1.18                      | (3.3)            | (1.6)            | RUN-13       |                             |                  |             |                                                                                                                                                                                                                       |
|               |               |             | 0.26                      | 66%              | 32%              |              |                             |                  |             |                                                                                                                                                                                                                       |
|               |               |             | 1.04                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |
| -79.8         | 78.4          |             | 0.38                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |
|               |               | 5.0         | 1.18                      | (4.0)            | (2.7)            | RUN-14       |                             |                  |             |                                                                                                                                                                                                                       |
|               |               |             | 1.34                      | 80%              | 54%              |              |                             |                  |             |                                                                                                                                                                                                                       |
|               |               |             | 1.09                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |
| -84.8         | 83.4          |             | 0.58                      |                  |                  |              |                             |                  |             | 83.4ft: moderately hard, indurated                                                                                                                                                                                    |
|               |               | 5.0         | 0.28                      | (4.3)            | (3.0)            | RUN-15       |                             |                  |             |                                                                                                                                                                                                                       |
|               |               |             | 0.44                      | 86%              | 60%              |              |                             |                  |             |                                                                                                                                                                                                                       |
|               |               |             | 0.38                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |
| -89.8         | 88.4          |             | 0.27                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |
|               |               | 5.0         | 0.12                      | (5.0)            | (4.2)            | RUN-16       |                             |                  |             | 88.4ft: medium hard                                                                                                                                                                                                   |
|               |               |             | 0.20                      | 100%             | 84%              |              |                             |                  |             |                                                                                                                                                                                                                       |
|               |               |             | 0.41                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |
|               |               |             | 0.58                      |                  |                  |              |                             |                  |             |                                                                                                                                                                                                                       |

TURKEY POINT COL CORE TURKEY POINT GPJ 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: L. Bisson                                        |
| SITE DESCRIPTION: Turkey Point COL | DRILL MACHINE: CME-550 (ATL)            | DRILLER: L. Carter/ J. Landeros    | GROUND WATER (ft)                                           |
| BORING NO.: B-603                  | DRILL METHOD: Mud Rotary/ Core          | SAMPLE METHODS: SPT/Core           | 0 HR. NA                                                    |
| GROUND ELEV.: -1.4 ft (NAVD88)     | NORTHING: 397,018 US ft (NAD83/90)      | EASTING: 876,697 US ft (NAD83/90)  | 24 HR. NA                                                   |
| TOTAL DEPTH: 151.2 ft              | CASING DEPTH: 4" to 15.0', 3" to 124.0' | HAMMER (ID): 140 lb. Auto (MEC-03) |                                                             |
| DATE STARTED: 2/14/08              | COMPLETED: 2/21/08                      | CORE SIZE: HQ3                     | CORE BARREL TYPE: Triple Tube Wireline (Split inner liners) |

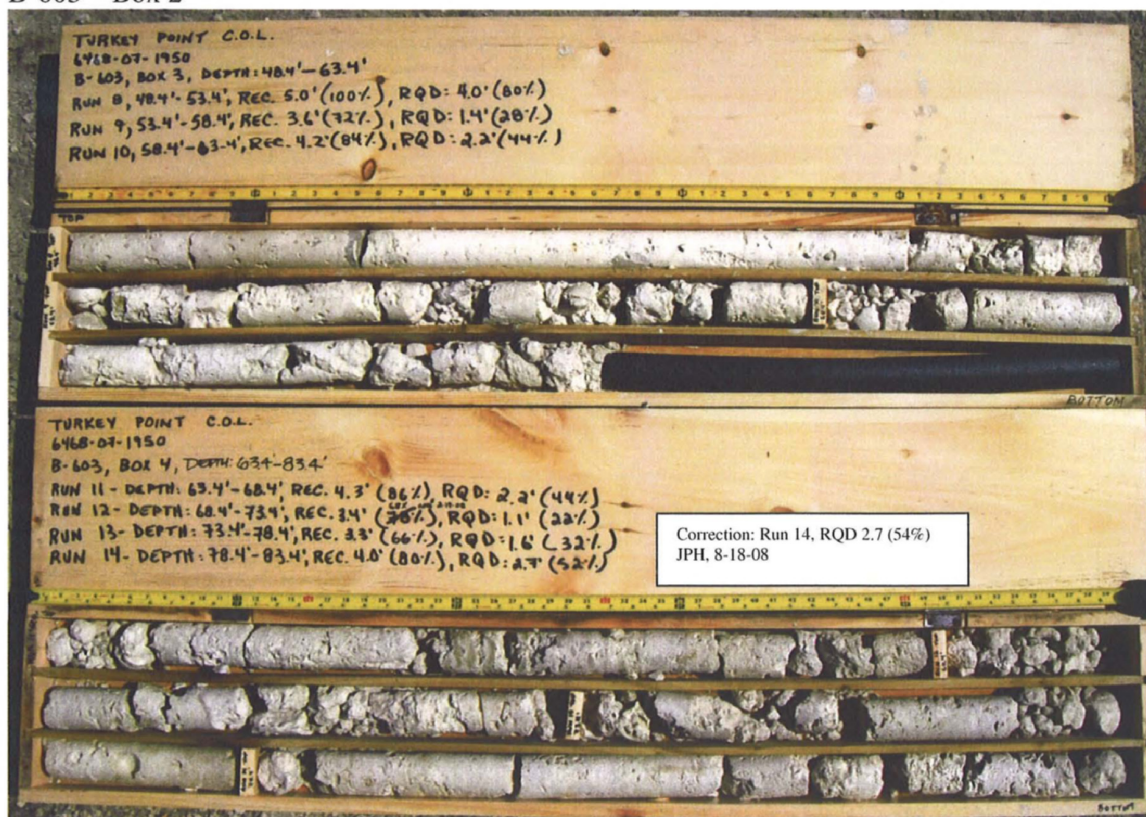
| ELEV.<br>(ft) | DEPTH<br>(ft) | RUN<br>(ft) | DRILL<br>RATE<br>(Min/ft)            | REC.<br>(ft)<br>% | ROD<br>(ft)<br>% | SAMP.<br>NO. | REC.<br>(ft)<br>% | ROD<br>(ft)<br>% | STRATA | L<br>O<br>G | DESCRIPTION AND REMARKS                                                                                                                 |
|---------------|---------------|-------------|--------------------------------------|-------------------|------------------|--------------|-------------------|------------------|--------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------|
|               |               |             |                                      |                   |                  |              |                   |                  |        |             | Continued from previous page                                                                                                            |
| -94.8         | 93.4          |             | 0.52<br>0.44<br>0.22                 |                   |                  |              |                   |                  |        |             | LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, trace shells (Lower Fort Thompson Formation) (continued)                       |
|               |               | 5.0         | 0.40<br>0.28<br>0.22<br>0.18<br>0.26 | (4.5)<br>90%      | (3.2)<br>64%     | RUN-17       |                   |                  |        |             | 93.4ft: moderately indurated                                                                                                            |
| -99.8         | 98.4          |             |                                      |                   |                  |              |                   |                  |        |             |                                                                                                                                         |
|               |               | 5.0         | 0.15<br>0.19<br>0.29<br>0.32<br>0.35 | (4.4)<br>88%      | (3.0)<br>60%     | RUN-18       |                   |                  |        |             | 98.4ft: moderately hard, indurated, few shells and shell molds                                                                          |
| -104.8        | 103.4         |             |                                      |                   |                  |              |                   |                  |        |             |                                                                                                                                         |
|               |               | 5.0         | 0.27<br>0.35<br>0.30<br>0.34<br>0.37 | (5.0)<br>100%     | (4.1)<br>82%     | RUN-19       |                   |                  |        |             | 103.4ft: hard, indurated                                                                                                                |
| -109.8        | 108.4         |             |                                      |                   |                  |              |                   |                  |        |             |                                                                                                                                         |
|               |               | 5.0         | 0.21<br>0.18<br>1:11<br>0.23<br>0.06 | (4.0)<br>80%      | (1.8)<br>36%     | RUN-20       |                   |                  |        |             | 108.4ft: moderately hard, moderately indurated                                                                                          |
| -114.8        | 113.4         |             |                                      |                   |                  |              |                   |                  |        |             |                                                                                                                                         |
|               |               | 5.0         | 0.16<br>0.07<br>0.36<br>0.18<br>0.07 | (1.0)<br>20%      | (0.0)<br>0%      | RUN-21       | (0.0)<br>0%       | (NA)             |        |             | -116.4 Silty SAND (SM), light gray (5Y7/2), medium dense, moist, fine grained sand, little fines (Tamiami Formation) -119.8 115.0 118.4 |
| -119.8        | 118.4         |             |                                      |                   |                  |              |                   |                  |        |             | Coring Terminated at Elevation -152.6                                                                                                   |

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



B-603 - Box 1

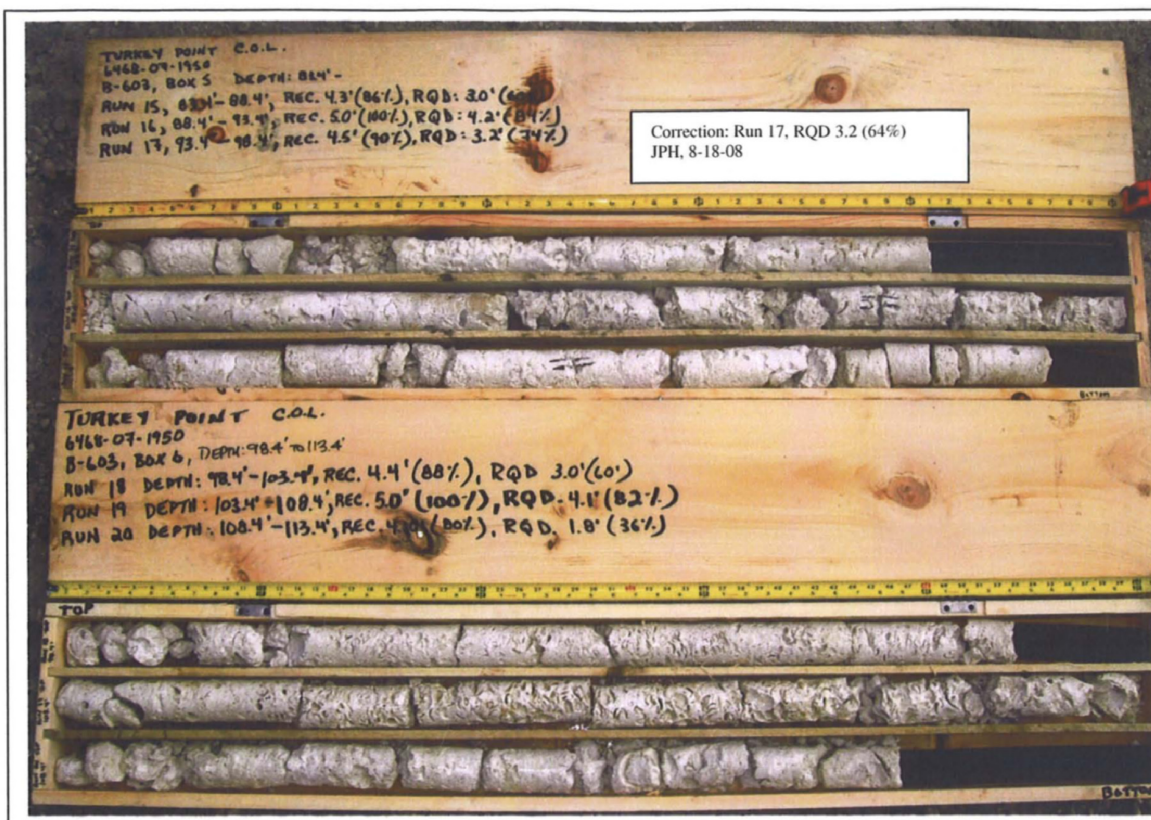
B-603 - Box 2



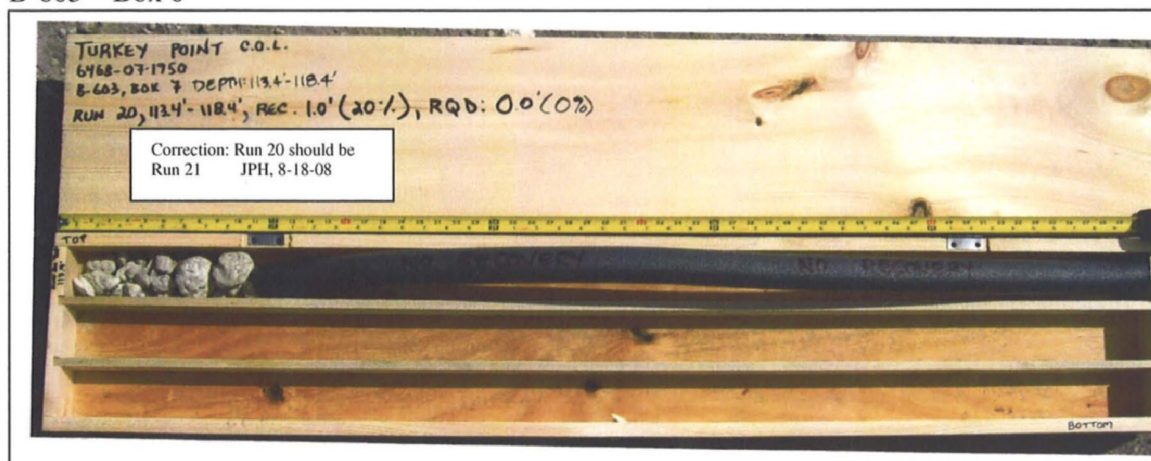
B-603 - Box 3

B-603 - Box 4





B-603 - Box 5  
B-603 - Box 6



B-603 - Box 7



## GEOTECHNICAL BORING LOG

Prepared By 2274 Date 5-30-08Checked By PM Date 5-30-08

SHEET 1 OF 3

|                                    |               |            |                                            |        |                                    |                |    |                           |                                         |                                   |               |     |                                    |                                                                                                                                                    |                   |  |  |
|------------------------------------|---------------|------------|--------------------------------------------|--------|------------------------------------|----------------|----|---------------------------|-----------------------------------------|-----------------------------------|---------------|-----|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--|--|
| BECHTEL PROJECT NO.: 25409         |               |            |                                            |        | MACTEC PROJECT NO.: 6468-07-1950   |                |    |                           |                                         | COUNTY: Miami-Dade                |               |     | GEOLOGIST: S. Woodham              |                                                                                                                                                    |                   |  |  |
| SITE DESCRIPTION: Turkey Point COL |               |            |                                            |        | DRILL MACHINE: CME-550X (ATL)      |                |    |                           |                                         | DRILLER: P. Pitts/ R. Landeros    |               |     |                                    |                                                                                                                                                    | GROUND WATER (ft) |  |  |
| BORING NO.: B-604(DH)              |               |            |                                            |        | DRILL METHOD: Mud Rotary/ Core     |                |    |                           |                                         | SAMPLE METHODS: SPT/Core          |               |     |                                    |                                                                                                                                                    | 0 HR. NA          |  |  |
| GROUND ELEV.: -1.5 ft (NAVD88)     |               |            |                                            |        | NORTHING: 396,916 US ft (NAD83/90) |                |    |                           |                                         | EASTING: 876,592 US ft (NAD83/90) |               |     |                                    |                                                                                                                                                    | 24 HR. NA         |  |  |
| TOTAL DEPTH: 165.0 ft              |               |            | BORING DIAMETER: 5" to 29.0', 4" to 165.0' |        |                                    |                |    | CASING DEPTH: 4" to 29.0' |                                         |                                   |               |     | HAMMER (ID): 140 lb. Auto (MEC-05) |                                                                                                                                                    |                   |  |  |
| DATE STARTED: 3/19/08              |               |            | COMPLETED: 3/23/08                         |        |                                    | CORE SIZE: HQ3 |    |                           | BITS USED: 4 7/8" & 3 7/8" Roller Cones |                                   |               |     |                                    |                                                                                                                                                    |                   |  |  |
| ELEV.<br>(ft)                      | DEPTH<br>(ft) | BLOW COUNT |                                            |        | BLOWS PER FOOT                     |                |    |                           |                                         | SAMP.<br>NO.                      | MOI           | 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           | WOH        | WOH                                        | WOH    | 0                                  |                |    |                           |                                         |                                   | 604(DH)-1     |     | -1.5                               | MUCK, dark grayish brown (10YR4/2), very soft, moist, organics                                                                                     | 0.0               |  |  |
| -5.0                               | 3.5           | 5          | 11                                         | 13     |                                    |                |    |                           |                                         |                                   | 604(DH)-2     |     | -4.5                               | LIMESTONE, boundstone, pale yellow (2.5Y8/3), soft, moist, some coarse grained sand, strong HCl reaction, oolitic (Miami Formation)                | 3.0               |  |  |
| -7.5                               | 6.0           | 12         | 10                                         | 8      |                                    |                |    |                           |                                         |                                   | 604(DH)-3     |     |                                    | 6.0ft: very soft                                                                                                                                   |                   |  |  |
| -10.0                              | 8.5           | 8          | 14                                         | 19     |                                    |                |    |                           |                                         |                                   | 604(DH)-4     |     |                                    | 8.5ft: medium hard, wet                                                                                                                            |                   |  |  |
| -12.0                              | 10.5          | 8          | 19                                         | 50/0.2 |                                    |                |    |                           |                                         |                                   | 604(DH)-5     |     |                                    | 10.5ft: white (10YR8/1), hard, trace coarse grained sand                                                                                           |                   |  |  |
| -15.0                              | 13.5          | 11         | 28                                         | 25     |                                    |                |    |                           |                                         |                                   | 604(DH)-6     |     |                                    | 13.5ft: moderately hard                                                                                                                            |                   |  |  |
| -20.0                              | 18.5          | 5          | 5                                          | 6      |                                    |                |    |                           |                                         |                                   | 604(DH)-7     |     |                                    | 18.5ft: very soft                                                                                                                                  |                   |  |  |
| -25.0                              | 23.5          | 7          | 9                                          | 12     |                                    |                |    |                           |                                         |                                   | 604(DH)-8     |     | -26.5                              | 23.5ft: soft, few coarse grained sand, few shell fragments                                                                                         | 25.0              |  |  |
| -30.0                              | 28.5          | 5          | 1                                          | 2      |                                    |                |    |                           |                                         |                                   | 604(DH)-9     |     |                                    | LIMESTONE, boundstone, pale yellow (2.5Y8/2), very soft, wet, coarse grained sand, strong HCl reaction (Upper Fort Thompson Formation)             |                   |  |  |
| -35.0                              | 33.5          |            |                                            |        |                                    |                |    |                           |                                         |                                   |               |     |                                    | 25.0ft: loss of circulation                                                                                                                        |                   |  |  |
| -35.4                              | 33.9          | 50/0.4     |                                            |        |                                    |                |    |                           |                                         |                                   | 604(DH)-10    |     |                                    | 33.5ft: white (10YR8/1), very dense                                                                                                                |                   |  |  |
|                                    |               |            |                                            |        |                                    |                |    |                           |                                         |                                   | RUN-1         |     |                                    | 33.9ft: Switch sampling method to coring                                                                                                           |                   |  |  |
| -40.3                              | 38.8          |            |                                            |        |                                    |                |    |                           |                                         |                                   | RUN-2         |     |                                    | 33.9ft: hard, indurated, strong HCl reaction, fossiliferous, little vugs                                                                           |                   |  |  |
|                                    |               |            |                                            |        |                                    |                |    |                           |                                         |                                   | RUN-3         |     |                                    | 38.8ft: moderately indurated                                                                                                                       |                   |  |  |
| -45.3                              | 43.8          |            |                                            |        |                                    |                |    |                           |                                         |                                   |               |     |                                    |                                                                                                                                                    |                   |  |  |
|                                    |               |            |                                            |        |                                    |                |    |                           |                                         |                                   | RUN-4         |     | -50.3                              | LIMESTONE, boundstone, white (10YR8/1), hard, moderately indurated, trace vugs, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation) | 48.8              |  |  |
| -50.3                              | 48.8          |            |                                            |        |                                    |                |    |                           |                                         |                                   | 604(DH)-CS-01 |     |                                    | 53.8ft: moderately hard to hard                                                                                                                    |                   |  |  |
|                                    |               |            |                                            |        |                                    |                |    |                           |                                         |                                   | 604(DH)-CS-02 |     |                                    |                                                                                                                                                    |                   |  |  |
| -55.3                              | 53.8          |            |                                            |        |                                    |                |    |                           |                                         |                                   | RUN-5         |     |                                    |                                                                                                                                                    |                   |  |  |
|                                    |               |            |                                            |        |                                    |                |    |                           |                                         |                                   |               |     |                                    |                                                                                                                                                    |                   |  |  |
| -60.3                              | 58.8          |            |                                            |        |                                    |                |    |                           |                                         |                                   | RUN-6         |     |                                    | 58.8ft: moderately hard, indurated                                                                                                                 |                   |  |  |
|                                    |               |            |                                            |        |                                    |                |    |                           |                                         |                                   |               |     |                                    |                                                                                                                                                    |                   |  |  |
| -65.3                              | 63.8          |            |                                            |        |                                    |                |    |                           |                                         |                                   | RUN-7         |     |                                    | 63.8ft: hard, trace coarse grained sand                                                                                                            |                   |  |  |
|                                    |               |            |                                            |        |                                    |                |    |                           |                                         |                                   |               |     |                                    |                                                                                                                                                    |                   |  |  |
| -70.3                              | 68.8          |            |                                            |        |                                    |                |    |                           |                                         |                                   | RUN-8         |     |                                    |                                                                                                                                                    |                   |  |  |
|                                    |               |            |                                            |        |                                    |                |    |                           |                                         |                                   |               |     |                                    |                                                                                                                                                    |                   |  |  |
| -75.3                              | 73.8          |            |                                            |        |                                    |                |    |                           |                                         |                                   | RUN-9         |     |                                    |                                                                                                                                                    |                   |  |  |

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



SHEET 2 OF 3

|                                    |               |                              |                                            |       |                |                                   |    |    |                                         |              |     |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------|---------------|------------------------------|--------------------------------------------|-------|----------------|-----------------------------------|----|----|-----------------------------------------|--------------|-----|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BECHTEL PROJECT NO.: 25409         |               |                              | MACTEC PROJECT NO.: 6468-07-1950           |       |                | COUNTY: Miami-Dade                |    |    | GEOLOGIST: S. Woodham                   |              |     |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| SITE DESCRIPTION: Turkey Point COL |               |                              | DRILL MACHINE: CME-550X (ATL)              |       |                | DRILLER: P. Pitts/ R. Landeros    |    |    | GROUND WATER (ft)                       |              |     |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| BORING NO.: B-604(DH)              |               |                              | DRILL METHOD: Mud Rotary/ Core             |       |                | SAMPLE METHODS: SPT/Core          |    |    | 0 HR. NA                                |              |     |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| GROUND ELEV.: -1.5 ft (NAVD88)     |               |                              | NORTHING: 396,916 US ft (NAD83/90)         |       |                | EASTING: 876,592 US ft (NAD83/90) |    |    | 24 HR. NA                               |              |     |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| TOTAL DEPTH: 165.0 ft              |               |                              | BORING DIAMETER: 5" to 29.0', 4" to 165.0' |       |                | CASING DEPTH: 4" to 29.0'         |    |    | HAMMER (ID): 140 lb. Auto (MEC-05)      |              |     |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| DATE STARTED: 3/19/08              |               |                              | COMPLETED: 3/23/08                         |       |                | CORE SIZE: HQ3                    |    |    | BITS USED: 4 7/8" & 3 7/8" Roller Cones |              |     |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ELEV.<br>(ft)                      | DEPTH<br>(ft) | BLOW COUNT                   |                                            |       | BLOWS PER FOOT |                                   |    |    |                                         | SAMP.<br>NO. | LOG | SOIL AND ROCK DESCRIPTION |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                    |               | 0.5ft                        | 0.5ft                                      | 0.5ft | 0              | 20                                | 40 | 60 | 80                                      | 100          | MOI |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| -76.3                              |               | Continued from previous page |                                            |       |                |                                   |    |    |                                         |              |     |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| -80.3                              | 78.8          |                              |                                            |       |                |                                   |    |    |                                         |              |     |                           | LIMESTONE, boundstone, white (10YR8/1), hard, moderately indurated, trace vugs, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation) (continued)<br>78.8 to 79.6ft: sand zone<br><br>83.8 to 86.0ft: sand zone<br><br>88.8ft: trace to few vugs<br><br>98.8ft: shell molds and casts<br><br>118.8ft: Switch sampling method to SPT; no recovery<br><br>128.9ft: no recovery<br><br>138.5ft: fine to medium grained sand, fine gravel |
| -85.3                              | 83.8          |                              |                                            |       |                |                                   |    |    |                                         |              |     |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| -90.3                              | 88.8          |                              |                                            |       |                |                                   |    |    |                                         |              |     |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| -95.3                              | 93.8          |                              |                                            |       |                |                                   |    |    |                                         |              |     |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| -100.3                             | 98.8          |                              |                                            |       |                |                                   |    |    |                                         |              |     |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| -105.3                             | 103.8         |                              |                                            |       |                |                                   |    |    |                                         |              |     |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| -110.3                             | 108.8         |                              |                                            |       |                |                                   |    |    |                                         |              |     |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| -115.3                             | 113.8         |                              |                                            |       |                |                                   |    |    |                                         |              |     |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| -120.3                             | 118.8         | 4                            | 6                                          | 9     |                |                                   |    |    |                                         |              |     |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| -130.4                             | 128.9         | 3                            | 6                                          | 7     |                |                                   |    |    |                                         |              |     |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| -140.0                             | 138.5         | 7                            | 7                                          | 8     |                |                                   |    |    |                                         |              |     |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| -150.0                             | 148.5         | 5                            | 7                                          | 9     |                |                                   |    |    |                                         |              |     |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

TURKEY POINT COL BORE TURKEY POINT COL GDT 5.30.08



SHEET 3 OF 3

|                                    |               |            |                                            |       |                              |                                   |    |    |                                         |              |     |                           |                                                                                                                                                  |
|------------------------------------|---------------|------------|--------------------------------------------|-------|------------------------------|-----------------------------------|----|----|-----------------------------------------|--------------|-----|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| BECHTEL PROJECT NO.: 25409         |               |            | MACTEC PROJECT NO.: 6468-07-1950           |       |                              | COUNTY: Miami-Dade                |    |    | GEOLOGIST: S. Woodham                   |              |     |                           |                                                                                                                                                  |
| SITE DESCRIPTION: Turkey Point COL |               |            | DRILL MACHINE: CME-550X (ATL)              |       |                              | DRILLER: P. Pitts/ R. Landeros    |    |    | GROUND WATER (ft)                       |              |     |                           |                                                                                                                                                  |
| BORING NO.: B-604(DH)              |               |            | DRILL METHOD: Mud Rotary/ Core             |       |                              | SAMPLE METHODS: SPT/Core          |    |    | 0 HR. NA                                |              |     |                           |                                                                                                                                                  |
| GROUND ELEV.: -1.5 ft (NAVD88)     |               |            | NORTHING: 396,916 US ft (NAD83/90)         |       |                              | EASTING: 876,592 US ft (NAD83/90) |    |    | 24 HR. NA                               |              |     |                           |                                                                                                                                                  |
| TOTAL DEPTH: 165.0 ft              |               |            | BORING DIAMETER: 5" to 29.0', 4" to 165.0' |       |                              | CASING DEPTH: 4" to 29.0'         |    |    | HAMMER (ID): 140 lb. Auto (MEC-05)      |              |     |                           |                                                                                                                                                  |
| DATE STARTED: 3/19/08              |               |            | COMPLETED: 3/23/08                         |       |                              | CORE SIZE: HQ3                    |    |    | BITS USED: 4 7/8" & 3 7/8" Roller Cones |              |     |                           |                                                                                                                                                  |
| ELEV.<br>(ft)                      | DEPTH<br>(ft) | BLOW COUNT |                                            |       | BLOWS PER FOOT               |                                   |    |    |                                         | SAMP.<br>NO. | LOG | SOIL AND ROCK DESCRIPTION |                                                                                                                                                  |
|                                    |               | 0.5ft      | 0.5ft                                      | 0.5ft | 0                            | 20                                | 40 | 60 | 80                                      | 100          | MOI |                           |                                                                                                                                                  |
| -151.1                             |               |            |                                            |       | Continued from previous page |                                   |    |    |                                         |              |     |                           |                                                                                                                                                  |
| -165.0                             | 163.5         | 4          | 6                                          | 10    | ● 16                         |                                   |    |    |                                         | B04(DH)-15   |     |                           | Silty SAND (SM), greenish gray (10Y6/1), medium dense, moist, some fines, fine grained sand, strong HCl reaction (Tamiami Formation) (continued) |
|                                    |               |            |                                            |       |                              |                                   |    |    |                                         |              |     |                           | Sandy SILT (ML), greenish gray (10Y6/1), very stiff, moist, fine grained sand, strong HCl reaction<br>Boring Terminated at Elevation -166.5 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: S. Woodham              |                                            |                                                                                                                                                     |  |
| SITE DESCRIPTION: Turkey Point COL |               |                    |                                          | DRILL MACHINE: CME-550X (ATL)      |              |                                                             |               | DRILLER: P. Pitts/ R. Landeros    |  |                                    | GROUND WATER (ft)<br>0 HR. NA<br>24 HR. NA |                                                                                                                                                     |  |
| BORING NO.: B-604(DH)              |               |                    |                                          | DRILL METHOD: Mud Rotary/ Core     |              |                                                             |               | SAMPLE METHODS: SPT/Core          |  |                                    |                                            |                                                                                                                                                     |  |
| GROUND ELEV.: -1.5 ft (NAVD88)     |               |                    |                                          | NORTHING: 396,916 US ft (NAD83/90) |              |                                                             |               | EASTING: 876,592 US ft (NAD83/90) |  |                                    |                                            |                                                                                                                                                     |  |
| TOTAL DEPTH: 165.0 ft              |               |                    |                                          | CASING DEPTH: 4" to 29.0'          |              |                                                             |               |                                   |  | HAMMER (ID): 140 lb. Auto (MEC-05) |                                            |                                                                                                                                                     |  |
| DATE STARTED: 3/19/08              |               | COMPLETED: 3/23/08 |                                          | CORE SIZE: HQ3                     |              | CORE BARREL TYPE: Triple Tube Wireline (Split inner liners) |               |                                   |  |                                    |                                            |                                                                                                                                                     |  |
|                                    |               |                    |                                          |                                    |              |                                                             |               |                                   |  |                                    |                                            |                                                                                                                                                     |  |
| ELEV.<br>(ft)                      | DEPTH<br>(ft) | RUN<br>(ft)        | DRILL<br>RATE<br>(Min/ft)                | RUN<br>REC<br>(ft)<br>%            |              | RQD<br>(ft)<br>%                                            | SAMP<br>NO.   | STRATA<br>REC<br>(ft)<br>%        |  | RQD<br>(ft)<br>%                   | L<br>O<br>G                                | DESCRIPTION AND REMARKS                                                                                                                             |  |
|                                    |               |                    |                                          |                                    |              |                                                             |               |                                   |  |                                    |                                            |                                                                                                                                                     |  |
|                                    |               |                    |                                          |                                    |              |                                                             |               |                                   |  |                                    |                                            | Begin Coring @ 33.9 ft                                                                                                                              |  |
| -35.4                              | 33.9          | 4.9                | 0.55<br>1.02<br>1.05<br>1.16<br>1.00/0.9 | (1.5)<br>31%                       | (1.3)<br>27% | RUN-1                                                       | (3.6)<br>24%  | (1.8)<br>12%                      |  |                                    |                                            | LIMESTONE, boundstone, pale yellow (2.5Y8/2), very soft, wet, coarse grained sand, strong HCl reaction (Upper Fort Thompson Formation)              |  |
| -40.3                              | 38.8          |                    |                                          |                                    |              |                                                             |               |                                   |  |                                    |                                            | 25.0ft: loss of circulation (continued)<br>33.9ft: hard, indurated, strong HCl reaction, fossiliferous, little vugs<br>38.8ft: moderately indurated |  |
|                                    |               | 5.0                | 1.02<br>2.05<br>1.55<br>2.12<br>0.50     | (0.4)<br>8%                        | (0.0)<br>0%  | RUN-2                                                       |               |                                   |  |                                    |                                            |                                                                                                                                                     |  |
| -45.3                              | 43.8          |                    |                                          |                                    |              |                                                             |               |                                   |  |                                    |                                            |                                                                                                                                                     |  |
|                                    |               | 5.0                | ND<br>2.03<br>2.53<br>3.39<br>2.30       | (1.7)<br>34%                       | (0.5)<br>10% | RUN-3                                                       |               |                                   |  |                                    |                                            |                                                                                                                                                     |  |
| -50.3                              | 48.8          |                    |                                          |                                    |              |                                                             |               |                                   |  |                                    |                                            |                                                                                                                                                     |  |
|                                    |               | 5.0                | 0.59<br>1.29<br>1.08<br>0.45<br>0.30     | (4.8)<br>96%                       | (4.8)<br>96% | RUN-4<br>604(DH)-<br>CS-01<br>604(DH)-<br>CS-02             | (44.9)<br>68% | (27.2)<br>41%                     |  |                                    |                                            | LIMESTONE, boundstone, white (10YR8/1), hard, moderately indurated, trace vugs, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation)  |  |
| -55.3                              | 53.8          |                    |                                          |                                    |              |                                                             |               |                                   |  |                                    |                                            |                                                                                                                                                     |  |
|                                    |               | 5.0                | 0.28<br>0.29<br>0.36<br>0.29<br>0.28     | (4.3)<br>86%                       | (2.7)<br>54% | RUN-5                                                       |               |                                   |  |                                    |                                            | 53.8ft: moderately hard to hard                                                                                                                     |  |
| -60.3                              | 58.8          |                    |                                          |                                    |              |                                                             |               |                                   |  |                                    |                                            |                                                                                                                                                     |  |
|                                    |               | 5.0                | 0.31<br>0.35<br>0.52<br>0.37<br>0.25     | (2.3)<br>46%                       | (0.3)<br>6%  | RUN-6                                                       |               |                                   |  |                                    |                                            | 58.8ft: moderately hard, indurated                                                                                                                  |  |
| -65.3                              | 63.8          |                    |                                          |                                    |              |                                                             |               |                                   |  |                                    |                                            |                                                                                                                                                     |  |
|                                    |               | 5.0                | 0.16<br>1.00<br>0.30<br>0.40<br>0.45     | (3.5)<br>70%                       | (1.8)<br>36% | RUN-7                                                       |               |                                   |  |                                    |                                            | 63.8ft: hard, trace coarse grained sand                                                                                                             |  |
| -70.3                              | 68.8          |                    |                                          |                                    |              |                                                             |               |                                   |  |                                    |                                            |                                                                                                                                                     |  |
|                                    |               | 5.0                | 0.04<br>0.35<br>0.45<br>0.05<br>0.51     | (1.9)<br>38%                       | (0.4)<br>8%  | RUN-8                                                       |               |                                   |  |                                    |                                            |                                                                                                                                                     |  |
| -75.3                              | 73.8          |                    |                                          |                                    |              |                                                             |               |                                   |  |                                    |                                            |                                                                                                                                                     |  |
|                                    |               | 5.0                | 0.15<br>0.07<br>0.11<br>0.36<br>1.35     | (1.8)<br>36%                       | (0.8)<br>16% | RUN-9                                                       |               |                                   |  |                                    |                                            |                                                                                                                                                     |  |
| -80.3                              | 78.8          |                    |                                          |                                    |              |                                                             |               |                                   |  |                                    |                                            |                                                                                                                                                     |  |
|                                    |               | 5.0                | 2.14<br>1.33<br>0.47<br>0.45<br>1.04     | (3.6)<br>72%                       | (2.0)<br>40% | RUN-10<br>604(DH)-<br>CS-03                                 |               |                                   |  |                                    |                                            | 78.8 to 79.6ft: sand zone                                                                                                                           |  |
| -85.3                              | 83.8          |                    |                                          |                                    |              |                                                             |               |                                   |  |                                    |                                            |                                                                                                                                                     |  |
|                                    |               | 5.0                | 0.59<br>0.37<br>1.42<br>1.20<br>2.30     | (2.7)<br>54%                       | (0.0)<br>0%  | RUN-11                                                      |               |                                   |  |                                    |                                            | 83.8 to 86.0ft: sand zone                                                                                                                           |  |
| -90.3                              | 88.8          |                    |                                          |                                    |              |                                                             |               |                                   |  |                                    |                                            |                                                                                                                                                     |  |
|                                    |               | 5.0                | 0.04<br>0.21<br>0.43<br>0.59<br>0.22     | (1.7)<br>34%                       | (0.6)<br>12% | RUN-12                                                      |               |                                   |  |                                    |                                            | 88.8ft: trace to few vugs                                                                                                                           |  |
| -95.3                              | 93.8          |                    |                                          |                                    |              |                                                             |               |                                   |  |                                    |                                            |                                                                                                                                                     |  |
|                                    |               | 5.0                | 0.27<br>0.40<br>0.50<br>0.49<br>0.56     | (4.7)<br>94%                       | (3.4)<br>68% | RUN-13                                                      |               |                                   |  |                                    |                                            |                                                                                                                                                     |  |
| -100.3                             | 98.8          |                    |                                          |                                    |              |                                                             |               |                                   |  |                                    |                                            |                                                                                                                                                     |  |
|                                    |               | 5.0                | 0.52<br>0.53<br>0.44<br>0.58<br>0.50     | (5.0)<br>100%                      | (4.0)<br>80% | RUN-14                                                      |               |                                   |  |                                    |                                            | 98.8ft: shell molds and casts                                                                                                                       |  |
| -105.3                             | 103.8         |                    |                                          |                                    |              |                                                             |               |                                   |  |                                    |                                            |                                                                                                                                                     |  |
|                                    |               | 5.0                | 0.52<br>1.05<br>0.55<br>1.03<br>0.55     | (5.0)<br>100%                      | (4.4)<br>88% | RUN-15                                                      |               |                                   |  |                                    |                                            |                                                                                                                                                     |  |
| -110.3                             | 108.8         |                    |                                          |                                    |              |                                                             |               |                                   |  |                                    |                                            |                                                                                                                                                     |  |

TURKEY POINT COL CORE TURKEY POINT GFI 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: S. Woodham                      |  |
| SITE DESCRIPTION: Turkey Point COL |  |                    |  | DRILL MACHINE: CME-550X (ATL)      |  |                                                             |  | DRILLER: P. Pitts/ R. Landeros    |  | GROUND WATER (ft)<br>0 HR. NA<br>24 HR. NA |  |
| BORING NO.: B-604(DH)              |  |                    |  | DRILL METHOD: Mud Rotary/ Core     |  |                                                             |  | SAMPLE METHODS: SPT/Core          |  |                                            |  |
| GROUND ELEV.: -1.5 ft (NAVD88)     |  |                    |  | NORTHING: 396,916 US ft (NAD83/90) |  |                                                             |  | EASTING: 876,592 US ft (NAD83/90) |  |                                            |  |
| TOTAL DEPTH: 165.0 ft              |  |                    |  | CASING DEPTH: 4" to 29.0'          |  |                                                             |  |                                   |  | HAMMER (ID): 140 lb. Auto (MEC-05)         |  |
| DATE STARTED: 3/19/08              |  | COMPLETED: 3/23/08 |  | CORE SIZE: HQ3                     |  | CORE BARREL TYPE: Triple Tube Wireline (Split inner liners) |  |                                   |  |                                            |  |

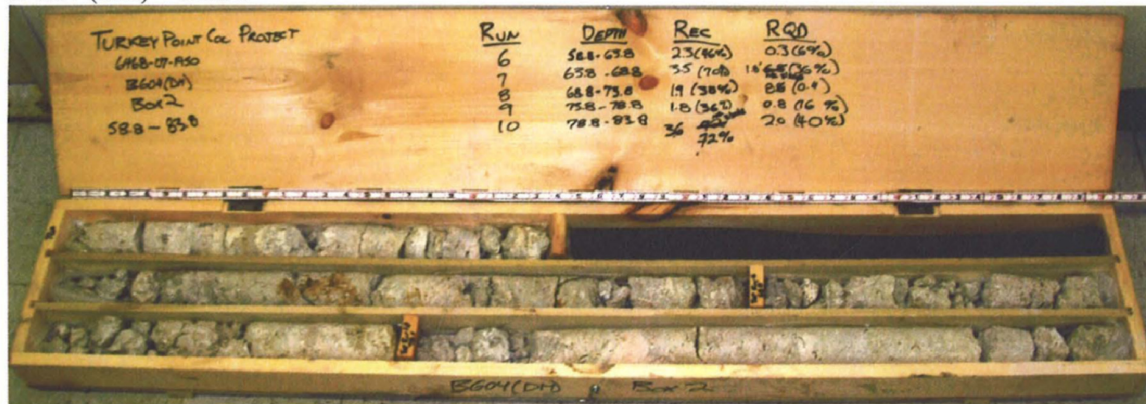
  

| ELEV.<br>(ft) | DEPTH<br>(ft) | RUN<br>(ft) | DRILL<br>RATE<br>(Min/ft)            | RUN              |                  | SAMP.<br>NO. | STRATA           |                  | LOG | DESCRIPTION AND REMARKS                                                                                                                                           |
|---------------|---------------|-------------|--------------------------------------|------------------|------------------|--------------|------------------|------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               |               |             |                                      | REC<br>(ft)<br>% | RQD<br>(ft)<br>% |              | REC<br>(ft)<br>% | RQD<br>(ft)<br>% |     |                                                                                                                                                                   |
|               |               |             |                                      |                  |                  |              |                  |                  |     | Continued from previous page                                                                                                                                      |
| -115.3        | 113.8         | 5.0         | 1:12<br>0:58<br>1:04<br>1:02<br>2:00 | (3.1)<br>62%     | (1.5)<br>30%     | RUN-16       |                  |                  |     | LIMESTONE, boundstone, white (10YR8/1), hard, moderately indurated, trace vugs, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation)<br>(continued) |
| -120.3        | 118.8         | 5.0         | 0:54<br>0:57<br>0:49<br>0:46<br>0:18 | (0.5)<br>10%     | (0.5)<br>10%     | RUN-17       | (0.0)<br>0%      | (NA)             |     | Silty SAND (SM), greenish gray (10Y6/1), medium dense, moist, some fines, fine grained sand, strong HCl reaction (Tamiami Formation)                              |
|               |               |             |                                      |                  |                  |              |                  |                  |     | Coring Terminated at Elevation -120.3                                                                                                                             |

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



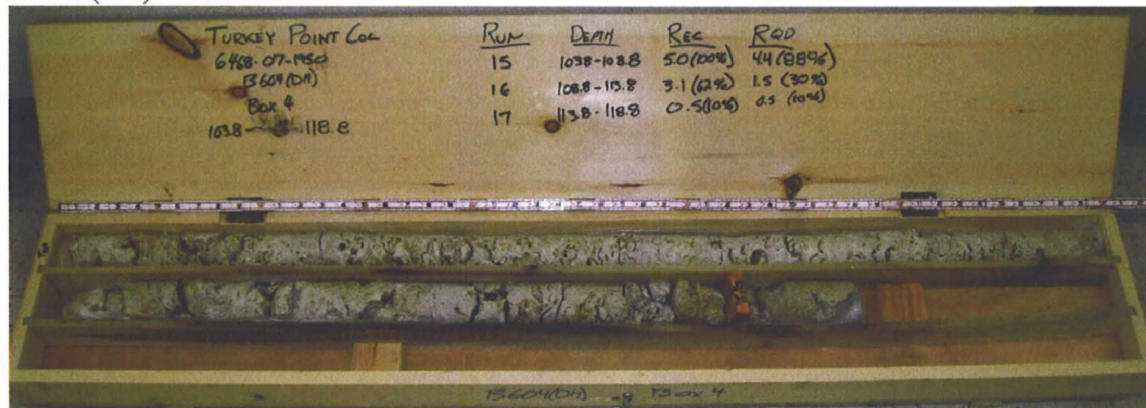
B-604 (DH) - Box 1



B-604 (DH) - Box 2



B-604 (DH) - Box 3



B-604 (DH) - Box 4

# GEOTECHNICAL BORING LOG

Prepared By DPZ Date 8-19-08

Checked By 552 Date 8/19/08

SHEET 1 OF 3

[illegible]



SHEET 2 OF 3

|                                    |  |  |                                            |  |  |                                         |  |  |                                         |  |  |
|------------------------------------|--|--|--------------------------------------------|--|--|-----------------------------------------|--|--|-----------------------------------------|--|--|
| BECHTEL PROJECT NO.: 25409         |  |  | MACTEC PROJECT NO.: 6468-07-1950           |  |  | COUNTY: Miami-Dade                      |  |  | GEOLOGIST: B. Taylor/L. Bisson          |  |  |
| SITE DESCRIPTION: Turkey Point COL |  |  | DRILL MACHINE: CME-550 (ATL)               |  |  | DRILLER: L. Carter/ J. Landeros         |  |  | GROUND WATER (ft)                       |  |  |
| BORING NO.: B-605                  |  |  | DRILL METHOD: Mud Rotary/ Core             |  |  | SAMPLE METHODS: SPT/Core                |  |  | 0 HR. NA                                |  |  |
| GROUND ELEV.: -1.7 ft (NAVD88)     |  |  | NORTHING: 396,917 US ft (NAD83/90)         |  |  | EASTING: 876,694 US ft (NAD83/90)       |  |  | 24 HR. NA                               |  |  |
| TOTAL DEPTH: 201.0 ft              |  |  | BORING DIAMETER: 4" to 36.0', 3" to 201.0' |  |  | CASING DEPTH: 4" to 36.0', 3" to 119.9' |  |  | HAMMER (ID): 140 lb. Auto (MEC-03)      |  |  |
| DATE STARTED: 2/23/08              |  |  | COMPLETED: 2/27/08                         |  |  | CORE SIZE: HQ3                          |  |  | BITS USED: 3 7/8" and 2 15/16" Tricones |  |  |

| ELEV.<br>(ft) | DEPTH<br>(ft) | BLOW COUNT |       |       | BLOWS PER FOOT               |    |    |    |    |     | SAMP.<br>NO. | LOG | SOIL AND ROCK DESCRIPTION |                                                                                                                                                                                                                      |
|---------------|---------------|------------|-------|-------|------------------------------|----|----|----|----|-----|--------------|-----|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               |               | 0.5ft      | 0.5ft | 0.5ft | 0                            | 20 | 40 | 60 | 80 | 100 |              |     |                           |                                                                                                                                                                                                                      |
| -76.5         |               |            |       |       | Continued from previous page |    |    |    |    |     |              |     |                           |                                                                                                                                                                                                                      |
| -80.6         | 78.9          |            |       |       |                              |    |    |    |    |     |              |     |                           | 73.9ft: hard, indurated, mostly vugs<br>LIMESTONE, boundstone, white (10YR8/1),<br>hard, indurated, little vugs, some shells, trace<br>recrystallized calcite in vugs (Lower Fort<br>Thompson Formation) (continued) |
| -85.6         | 83.9          |            |       |       |                              |    |    |    |    |     |              |     |                           | 83.9ft: moderately indurated                                                                                                                                                                                         |
| -90.6         | 88.9          |            |       |       |                              |    |    |    |    |     |              |     |                           | 88.9ft: moderately hard, indurated, few vugs                                                                                                                                                                         |
| -94.6         | 92.9          |            |       |       |                              |    |    |    |    |     |              |     |                           | 92.9ft: trace vugs, trace sand                                                                                                                                                                                       |
| -95.6         | 93.9          |            |       |       |                              |    |    |    |    |     |              |     |                           |                                                                                                                                                                                                                      |
| -100.6        | 98.9          |            |       |       |                              |    |    |    |    |     |              |     |                           |                                                                                                                                                                                                                      |
| -105.6        | 103.9         |            |       |       |                              |    |    |    |    |     |              |     |                           | 103.9ft: hard, shell molds and casts                                                                                                                                                                                 |
| -110.6        | 108.9         |            |       |       |                              |    |    |    |    |     |              |     |                           | 108.9ft: moderately hard                                                                                                                                                                                             |
| -115.6        | 113.9         |            |       |       |                              |    |    |    |    |     |              |     |                           |                                                                                                                                                                                                                      |
| -116.7        | 113.9         |            |       |       |                              |    |    |    |    |     |              |     |                           | 113.9ft: light gray (2.5Y7/2), hard<br>Sandy SILT (ML), light gray (2.5Y7/1), very<br>stiff, wet, fine to medium grained sand, strong<br>HCl reaction (Tamiami Formation)                                            |
| -121.6        | 119.9         | 9          | 8     | 11    |                              |    |    |    |    |     |              |     |                           | 119.9ft: Switch sampling method to SPT                                                                                                                                                                               |
| -126.6        | 124.9         | 4          | 9     | 12    |                              |    |    |    |    |     |              |     |                           | Silty SAND (SM), greenish gray (10Y5/1),<br>medium dense, fine grained sand, strong HCl<br>reaction                                                                                                                  |
| -131.6        | 129.9         |            |       |       |                              |    |    |    |    |     |              |     |                           | 129.9ft: No sample taken                                                                                                                                                                                             |
| -133.1        | 131.4         | 3          | 5     | 8     |                              |    |    |    |    |     |              |     |                           | 131.4ft: fine to medium grained sand, some<br>loss of circulation                                                                                                                                                    |
| -136.6        | 134.9         | 9          | 15    | 22    |                              |    |    |    |    |     |              |     |                           | 134.9ft: dense, trace shell fragments                                                                                                                                                                                |
| -141.6        | 139.9         | 8          | 12    | 19    |                              |    |    |    |    |     |              |     |                           |                                                                                                                                                                                                                      |
| -146.6        | 144.9         | 7          | 10    | 14    |                              |    |    |    |    |     |              |     |                           | 144.9ft: medium dense                                                                                                                                                                                                |

TURKEY POINT COL BORE TURKEY POINT COL GDT 8'18.08