

# NORTH CAROLINA DEPARTMENT OF TRANSPORTATION GEOTECHNICAL UNIT BORING LOG

SHEET 1 OF 2

| PROJECT NO. 33375.1.1                                   |                | ID. B-4007               |      | COUNTY ALLEGHANY              |               | GEOLOGIST TJ ROBERSON     |              |    |    |               |      |     |                              |        |  |
|---|----------------|--------------------------|------|-------------------------------|---------------|---------------------------|--------------|----|----|---------------|------|-----|------------------------------|--------|--|
| SITE DESCRIPTION DETOUR BRIDGE OVER CRAB CREEK ON NC 18 |                |                          |      |                               |               |                           | GROUND WATER |    |    |               |      |     |                              |        |  |
| BORING NO. EB1-A-DET                                    |                | BORING LOCATION 12+98.0  |      | OFFSET 12.0 LT                |               | ALIGNMENT -DET-           |              |    |    |               |      |     |                              |        |  |
| COLLAR ELEVATION 2419.6                                 |                | NORTHING 1024488.8       |      | EASTING 1411504.3             |               | 0 HR. 13.1<br>24 HR. 12.2 |              |    |    |               |      |     |                              |        |  |
| TOTAL DEPTH 33.3  |                | DRILL MACHINE CME 550X   |      | DRILL METHOD HSA 2.25 INCH ID |               | HAMMER TYPE 140LB. AUTO   |              |    |    |               |      |     |                              |        |  |
| START DATE 06-07-05                                     |                | COMPLETION DATE 06-07-05 |      | SURFACE WATER DEPTH NA        |               | DEPTH TO ROCK 33.3        |              |    |    |               |      |     |                              |        |  |
| ELEV.<br>(FT.)  | DEPTH<br>(FT.) | BLOW COUNT               |      |                               | PEN.<br>(FT.) | BLOWS PER FOOT            |              |    |    | SAMP.<br>NUM. | MOI. | LOG | SOIL AND ROCK<br>DESCRIPTION |        |  |
|   |                | 0.5'                     | 0.5' | 0.5'                          |               | 0                         | 25           | 50 | 75 |               |      |     |                              | 100    |  |
| 2419.6  |                |                          |      |                               |               |                           |              |    |    |               |      |     | 2419.6                       | 0.0    | ARTIFICIAL FILL: Soft Brown, Black, Slightly Micaceous Fine Sandy SILT, Moist, (A-4)                     |
|   | 3.5            | 1                        | 2    | 2                             | 1.5           |                           |              |    |    |               |      |     | SS-8                         | 32.9   |  |
| 2415.0  |                |                          |      |                               |               |                           |              |    |    |               |      |     |                              |        |  |
|   | 8.5            | 2                        | 2    | 2                             | 1.5           |                           |              |    |    |               |      |     | M                            |        |  |
| 2410.0  |                |                          |      |                               |               |                           |              |    |    |               |      |     |                              |        |  |
|   | 13.5           | 19                       | 18   | 23                            | 1.5           |                           |              |    |    |               |      |     | M                            | 2406.6 | 13.0   |
| 2405.0  |                |                          |      |                               |               |                           |              |    |    |               |      |     |                              |        | RESIDUAL: Dense to Very Dense Brown, White, Micaceous Slightly Silty Fine to Coarse SAND, Moist, (A-2-4) |
|   | 18.5           | 34                       | 53   | 39                            | 1.5           |                           |              |    |    |               |      |     | M                            |        |  |
| 2400.0  |                |                          |      |                               |               |                           |              |    |    |               |      |     |                              |        |  |
|   | 23.5           | 60/0                     |      |                               | 0.0           |                           |              |    |    |               |      |     | D                            | 2397.6 | 22.0   |
| 2395.0  |                |                          |      |                               |               |                           |              |    |    |               |      |     |                              |        | CRYSTALLINE ROCK- Brown, White, Muscovite Biotite Gneiss, Dry, (CR)                                      |
|   | 28.5           | 100/3                    |      |                               | 0.3           |                           |              |    |    |               |      |     | D                            | 2392.6 | 27.0   |
| 2390.0  |                |                          |      |                               |               |                           |              |    |    |               |      |     |                              |        | WEATHERED ROCK- Brown, White, Muscovite Biotite Gneiss, Dry, (WR)  |

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| PROJECT NO. 33375.1.1                                   |                | ID. B-4007               |      | COUNTY ALLEGHANY              |               | GEOLOGIST TJ ROBERSON     |              |    |    |               |      |     |                              |      |  |
|---|----------------|--------------------------|------|-------------------------------|---------------|---------------------------|--------------|----|----|---------------|------|-----|------------------------------|------|--|
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| COLLAR ELEVATION 2419.6                                 |                | NORTHING 1024488.8       |      | EASTING 1411504.3             |               | 0 HR. 13.1<br>24 HR. 12.2 |              |    |    |               |      |     |                              |      |  |
| TOTAL DEPTH 33.3  |                | DRILL MACHINE CME 550X   |      | DRILL METHOD HSA 2.25 INCH ID |               | HAMMER TYPE 140LB. AUTO   |              |    |    |               |      |     |                              |      |  |
| START DATE 06-07-05                                     |                | COMPLETION DATE 06-07-05 |      | SURFACE WATER DEPTH NA        |               | DEPTH TO ROCK 33.3        |              |    |    |               |      |     |                              |      |  |
| ELEV.<br>(FT.)  | DEPTH<br>(FT.) | BLOW COUNT               |      |                               | PEN.<br>(FT.) | BLOWS PER FOOT            |              |    |    | SAMP.<br>NUM. | MOI. | LOG | SOIL AND ROCK<br>DESCRIPTION |      |  |
|   |                | 0.5'                     | 0.5' | 0.5'                          |               | 0                         | 25           | 50 | 75 |               |      |     |                              | 100  |  |
|   | 33.3           | 60/0                     |      |                               | 0.0           |                           |              |    |    |               |      |     | 2389.6                       | 30.0 | CRYSTALLINE ROCK- Brown, White, Muscovite Biotite Gneiss, Dry, (CR)  |
| 2385.0  | 33.3           |                          |      |                               |               |                           |              |    |    |               |      |     | 2386.3                       | 33.3 | BORING TERMINATED WITH STANDARD PENETRATION TEST REFUSAL AT ELEVATION 2386.3 FEET ON CRYSTALLINE ROCK (MUSCOVITE BIOTITE GNEISS) |