

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 GEOTECHNICAL UNIT BORING LOG

| PROJECT NO 8.1830501                                      |       | ID R-2206C                 |                          | COUNTY CATAWBA     |         | GEOLOGIST J.K. STICKNEY     |             |    |     |           |     |                           |  |
|---|-------|----------------------------|--------------------------|--------------------|---------|-----------------------------|-------------|----|-----|-----------|-----|---------------------------|--|
| SITE DESCRIPTION NC 16 (-L-) OVER EAST MAIDEN RD. (-Y15-) |       |                            |                          |                    |         |                             | GND WATER   |    |     |           |     |                           |  |
| BORING NO EB2-A RTLN                                      |       | NORTHING 0.00              |                          | EASTING 0.00       |         | 0 HR 5.60m                  | 24 HR 5.40m |    |     |           |     |                           |  |
| ALIGNMENT -L-   |       | BORING LOCATION 246+05.000 |                          | OFFSET 9.00m RT    |         |                             |             |    |     |           |     |                           |  |
| COLLAR ELEV 293.47m                                       |       | TOTAL DEPTH 10.72m         |                          | START DATE 5/21/03 |         | COMPLETION DATE 05/21/03    |             |    |     |           |     |                           |  |
| DRILL MACHINE CME-550                                     |       |                            | DRILL METHOD H.S. AUGERS |                    |         | HAMMER TYPE AUTOMATIC       |             |    |     |           |     |                           |  |
| SURFACE WATER DEPTH                                       |       |                            | DEPTH TO ROCK 10.72m     |                    |         | Log EB2-A RTLN, Page 1 of 1 |             |    |     |           |     |                           |  |
| ELEV  | DEPTH | BLOW CT                    |                          |                    | PEN (m) | BLOWS PER 30cm              |             |    |     | SAMPLE NO | LOG | SOIL AND ROCK DESCRIPTION |  |
|   |       | 15cm                       | 15cm                     | 15cm               |         | 0                           | 25          | 50 | 75  |           |     |                           | 100  |
| 293.47  |       |                            |                          |                    |         |                             |             |    |     |           |     |                           |  |
| 293.00  | 1.18  | 2                          | 4                        | 4                  | 0.30    |                             |             |    |     |           |     |                           | (RESIDUAL) RED-BLACK-TAN, HIGHLY PLASTIC, MED. STIFF-STIFF, MOIST, SILTY V. SANDY CLAY |
| 291.00  | 2.70  | 2                          | 2                        | 5                  | 0.30    |                             |             |    |     |           |     |                           | TAN-WHITE-BLACK-GRAY, LOOSE, MOIST, SILTY SAND   |
| 289.00  | 4.23  | 4                          | 4                        | 4                  | 0.30    |                             |             |    |     |           |     |                           | (WEATHERED ROCK)   |
| 287.00  | 5.75  | 78                         | 22                       |                    | 0.17    |                             |             |    | 100 |           |     |                           |  |
| 285.00  | 7.28  | 53                         | 47                       |                    | 0.27    |                             |             |    | 100 |           |     |                           |  |
| 283.00  | 8.80  | 2                          | 2                        | 6                  | 0.30    |                             |             |    |     | SS-9      |     |                           | TAN-WHITE-GRAY-BLACK, MIC., LOOSE, WET, SILTY SAND                                     |
| 282.75  | 10.32 | 10                         | 100                      |                    | 0.09    |                             |             |    | 100 |           |     |                           | (WEATHERED ROCK)   |
|   |       |                            |                          |                    |         |                             |             |    |     |           |     |                           | AUGER REFUSAL AT ELEV. 282.751 METERS ON HARD ROCK                                     |

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|---|-------|----------------------------|--------------------------|--------------------|---------|-----------------------------|-------------|----|----|-----------|-----|---------------------------|--|
| SITE DESCRIPTION NC 16 (-L-) OVER EAST MAIDEN RD. (-Y15-) |       |                            |                          |                    |         |                             | GND WATER   |    |    |           |     |                           |  |
| BORING NO EB2-B RTLN                                      |       | NORTHING 0.00              |                          | EASTING 0.00       |         | 0 HR 5.33m                  | 24 HR 5.48m |    |    |           |     |                           |  |
| ALIGNMENT -L-   |       | BORING LOCATION 246+05.500 |                          | OFFSET 21.80m RT   |         |                             |             |    |    |           |     |                           |  |
| COLLAR ELEV 293.17m                                       |       | TOTAL DEPTH 6.32m          |                          | START DATE 5/21/03 |         | COMPLETION DATE 05/21/03    |             |    |    |           |     |                           |  |
| DRILL MACHINE CME-550                                     |       |                            | DRILL METHOD H.S. AUGERS |                    |         | HAMMER TYPE AUTOMATIC       |             |    |    |           |     |                           |  |
| SURFACE WATER DEPTH N/A                                   |       |                            | DEPTH TO ROCK 6.32m      |                    |         | Log EB2-B RTLN, Page 1 of 1 |             |    |    |           |     |                           |  |
| ELEV  | DEPTH | BLOW CT                    |                          |                    | PEN (m) | BLOWS PER 30cm              |             |    |    | SAMPLE NO | LOG | SOIL AND ROCK DESCRIPTION |  |
|   |       | 15cm                       | 15cm                     | 15cm               |         | 0                           | 25          | 50 | 75 |           |     |                           | 100  |
| 293.17  |       |                            |                          |                    |         |                             |             |    |    |           |     |                           |  |
| 292.00  | 1.10  | 1                          | 3                        | 7                  | 0.30    |                             |             |    |    |           |     |                           | (RESIDUAL) RED-BLACK-TAN, HIGHLY PLASTIC, MED. STIFF-STIFF, MOIST, SILTY V. SANDY CLAY |
| 290.00  | 2.62  | 3                          | 4                        | 5                  | 0.30    |                             |             |    |    |           |     |                           | TAN-ORANGE-WHITE-BLACK-GRAY, LOOSE-V. DENSE, MOIST, SILTY SAND                         |
| 288.00  | 4.15  | 2                          | 3                        | 4                  | 0.30    |                             |             |    |    |           |     |                           | (WEATHERED ROCK)   |
| 286.85  | 5.67  | 30                         | 54                       | 22                 | 0.30    |                             |             |    |    |           |     |                           | (WEATHERED ROCK)   |
|   |       |                            |                          |                    |         |                             |             |    |    |           |     |                           | AUGER REFUSAL AT ELEV. 286.853 METERS ON HARD ROCK                                     |