

**NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
GEOTECHNICAL UNIT BORING LOG**

| PROJECT NO 8.1910203                                   |       | ID R-977A                 |                               | COUNTY CHEROKEE    |         | GEOLOGIST L.A. MANN       |           |    |    |           |     |     |                           |  |
|--|-------|---------------------------|-------------------------------|--------------------|---------|---------------------------|-----------|----|----|-----------|-----|-----|---------------------------|--|
| SITE DESCRIPTION PROPOSED BRIDGE ON US 64 OVER SR 1558 |       |                           |                               |                    |         |                           | GND WATER |    |    |           |     |     |                           |  |
| BORING NO EBL B1-C                                     |       | NORTHING 0.00             |                               | EASTING 0.00       |         | 0 HR N/A                  |           |    |    |           |     |     |                           |  |
| ALIGNMENT L-REV  |       | BORING LOCATION 40+92.100 |                               | OFFSET 11.30m RT   |         | 24 HR 11.90m              |           |    |    |           |     |     |                           |  |
| COLLAR ELEV 494.05m                                    |       | TOTAL DEPTH 13.15m        |                               | START DATE 8/14/97 |         | COMPLETION DATE 08/19/97  |           |    |    |           |     |     |                           |  |
| DRILL MACHINE CME 550                                  |       |                           | DRILL METHOD SPT CAS ADV NXWL |                    |         | HAMMER TYPE AUTOMATIC     |           |    |    |           |     |     |                           |  |
| SURFACE WATER DEPTH                                    |       |                           | DEPTH TO ROCK 8.05m           |                    |         | Log EBL B1-C, Page 1 of 1 |           |    |    |           |     |     |                           |  |
| ELEV   | DEPTH | BLOW CT                   |                               |                    | PEN (m) | BLOWS PER 30cm            |           |    |    | SAMPLE NO | MOI | LOG | SOIL AND ROCK DESCRIPTION |  |
|  |       | 15cm                      | 15cm                          | 15cm               |         | 0                         | 25        | 50 | 75 |           |     |     |                           | 100  |
| 494.05   |       |                           |                               |                    |         |                           |           |    |    |           |     |     |                           |  |
|  |       |                           |                               |                    |         |                           |           |    |    |           |     |     |                           | Ground Surface   |
| 493.00   | 1.36  | 25                        | 80                            | 20                 | 0.2     |                           |           |    |    |           |     |     |                           | SOFT WEATHERED ROCK:<br>GREEN AND RED-BROWN<br>FINE SANDY SILT                     |
| 491.00   | 2.88  | 16                        | 22                            | 29                 | 0.3     |                           |           |    |    | SS-302    |     |     |                           | SAPROLITE: BROWN AND<br>GREEN, V. DENSE SILTY SAND<br>WITH WEATHERED ROCK<br>SEAMS |
| 489.00   | 4.41  | 26                        | 39                            | 43                 | 0.3     |                           |           |    |    |           |     |     |                           |  |
| 487.00   | 5.93  | 100                       | 0                             | 0                  | 0.1     |                           |           |    |    |           |     |     |                           | SOFT WEATHERED ROCK:<br>GREY-GREEN FINE SANDY SILT                                 |
| 485.00   | 7.46  | 100                       | 0                             | 0                  | 0.1     |                           |           |    |    | CORE 1    |     |     |                           | FRESH, SOUND<br>METASILTSTONE REC 98%<br>RQD 92%                                   |
| 483.00   |       |                           |                               |                    |         |                           |           |    |    | CORE 2    |     |     |                           |  |
| 481.00   |       |                           |                               |                    |         |                           |           |    |    | CORE 3    |     |     |                           |  |
|  |       |                           |                               |                    |         |                           |           |    |    |           |     |     |                           | BORING TERMINATED AT<br>ELEVATION 480.898 METERS IN<br>ROCK                        |