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

| | | | |
|---|---|---|---|
| **PROJECT NO.** 8.2406201 | **ID.** B-3375 | **COUNTY** WAKE | **GEOLOGIST** J.L. LOVE |
| **SITE DESCRIPTION** BRIDGE NO. 471 ON -L- (SR 1375) OVER LAKE WHEELER SPILLWAY | | | **GROUND WATER** |
| **BORING NO.** EB2-A | **BORING LOCATION** 44+85 | **OFFSET** 13' LT | **ALIGNMENT** -L- |
| **COLLAR ELEVATION** 286.1' | **NORTHING** 707581 | **EASTING** 2092613 | **0 HR.** N/A |
| | | | **24 HR.** 18.0' |
| **TOTAL DEPTH** 67.1' | **DRILL MACHINE** CME-550 | **DRILL METHOD** NW CASING | **HAMMER TYPE** AUTOMATIC |
| **START DATE** 2/21/03 | **COMPLETION DATE** 2/24/03 | **SURFACE WATER DEPTH** N/A | **DEPTH TO ROCK** 67.1' |

| ELEV. | DEPTH (FT.) | BLOW COUNT 0.5' | 0.5' | 0.5' | PEN. (FT.) | BLOWS PER FOOT 0 25 50 75 100 | SAMPLE NUMBER | ▼/MOI. | LOG | SOIL AND ROCK DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|
| 286.1 | | | | | | | | | | |
| 285.0 | | | | | | | | | | ROADWAY EMBANKMENT, RED-ORANGE, SILTY SANDY CLAY WITH ROCK FRAGMENTS |
| | 4.6' | WOH | WOH | WOH | 1.0 | X WOH | | W | | |
| 280.0 | | | | | | | | | | ORANGE-BROWN, SANDY SILT WITH SOME COARSE SAND AND ROCK FRAGMENTS |
| | 9.6' | 3 | 3 | 6 | 1.0 | X 9 | SS-10 | M | | |
| 275.0 | | | | | | | | | | |
| | 14.6' | 6 | 6 | 7 | 1.0 | X 13 | | | | |
| 270.0 | | | | | | | | ▼ | | |
| | 19.6' | 2 | 3 | 4 | 1.0 | X 7 | SS-11 | M | | |
| 265.0 | | | | | | | | | | |
| | 24.6' | 2 | 2 | 4 | 1.0 | X 6 | | M | | |
| 260.0 | | | | | | | | | | RESIDUAL, TAN-GREEN, SILTY FINE SAND, SAPROLITIC |
| | 29.6' | 2 | 6 | 12 | 1.0 | X 18 | | M | | |
| 255.0 | | | | | | | | | | |
| | 34.6' | 21 | 40 | 29 | 1.0 | X 69 | | M | | |
| 250.0 | | | | | | | | | | |
| | 39.6' | 15 | 26 | 18 | 1.0 | X 44 | | D | | |
| 245.0 | | | | | | | | | | |
| | 44.6' | 25 | 50 | 49 | 1.0 | 99 X | | D | | |
| 240.0 | | | | | | | | | | |
| | 49.6' | 18 | 23 | 57 | 1.0 | X 80 | | M | | |
| 235.0 | | | | | | | | | | |
| | 54.6' | 30 | 70 | | 0.7 | 100+ X | | | | WEATHERED ROCK, GRANITE |
| 230.0 | | | | | | | | | | |
| | 59.6' | 28 | 60 | 40 | 0.6 | 100+ X | | | | |
| 225.0 | | | | | | | | | | |
| | 64.6' | 100 | | | 0.2 | 100+ X | | | | |
| 220.0 | | | | | | | | | | |
| 215.0 | | | | | | CASING ADVANCER REFUSAL AT ELEVATION 219.0 FEET ON CRYSTALLINE ROCK (GRANITE) | | | | |
| 210.0 | | | | | | | | | | |

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



| | | | |
|---|---|---|---|
| **PROJECT NO.** 8.2406201 | **ID.** B-3375 | **COUNTY** WAKE | **GEOLOGIST** J.L. LOVE |
| **SITE DESCRIPTION** BRIDGE NO. 471 ON -L- (SR 1375) OVER LAKE WHEELER SPILLWAY | | | **GROUND WATER** |
| **BORING NO.** EB2-B | **BORING LOCATION** 44+52 | **OFFSET** 13' RT | **ALIGNMENT** -L- |
| **COLLAR ELEVATION** 273.1' | **NORTHING** 707545 | **EASTING** 2092634 | **0 HR.** 7.7' |
| | | | **24 HR.** 8.0' |
| **TOTAL DEPTH** 26.2' | **DRILL MACHINE** CME-550 | **DRILL METHOD** H.S. AUGERS | **HAMMER TYPE** AUTOMATIC |
| **START DATE** 2/12/03 | **COMPLETION DATE** 2/12/03 | **SURFACE WATER DEPTH** N/A | **DEPTH TO ROCK** 26.2' |

| ELEV. | DEPTH (FT.) | BLOW COUNT 0.5' | 0.5' | 0.5' | PEN. (FT.) | BLOWS PER FOOT 0 25 50 75 100 | SAMPLE NUMBER | ▼/MOI. | LOG | SOIL AND ROCK DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|
| 273.1 | | | | | | | | | | |
| 270.0 | 2.2' | 2 | 1 | 2 | 1.0 | X 3 | SS-1 | M | | ARTIFICIAL FILL, RED-ORANGE, SILTY SAND WITH GRAVEL, AND PIECES OF CONCRETE DEBRIS |
| 265.0 | 7.2' | 2 | 4 | 5 | 1.0 | X 9 | SS-2 | SAT ▼ | | RESIDUAL, TAN, BROWN, AND GREEN, SILTY FINE SAND WITH SOME MICA, SAPROLITIC |
| | 9.7' | 3 | 8 | 6 | 1.0 | X 14 | | W | | |
| 260.0 | 12.2' | 2 | 6 | 7 | 1.0 | X 13 | SS-3 | W | | |
| | 14.7' | 3 | 5 | 8 | 1.0 | X 13 | | W | | |
| 255.0 | 17.2' | 1 | 1 | 3 | 1.0 | X 4 | | W | | |
| | 19.7' | 1 | 3 | 4 | 1.0 | X 7 | | W | | |
| 250.0 | 24.7' | 12 | 17 | 83 | 0.8 | 100+ X | | | | WEATHERED ROCK, GRANITE |
| 245.0 | | | | | | AUGER REFUSAL AT ELEVATION 246.9 FEET ON CRYSTALLINE ROCK (GRANITE) | | | | |
| 240.0 | | | | | | | | | | |
| 235.0 | | | | | | | | | | |
| 230.0 | | | | | | | | | | |
| 225.0 | | | | | | | | | | |
| 220.0 | | | | | | | | | | |
| 215.0 | | | | | | | | | | |
| 210.0 | | | | | | | | | | |
| 205.0 | | | | | | | | | | |
| 200.0 | | | | | | | | | | |
| 195.0 | | | | | | | | | | |