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

| | | | |
|---|---|---|---|
| **PROJECT NO.** 8.T540402 | **ID.** R-2417BB | **COUNTY** LEE | **GEOLOGIST** C.D. CZAJKA |
| **SITE DESCRIPTION** DUAL BRIDGES ON -L- (US 421 BYPASS) OVER -Y3- (NC 42) AND -RXR- (A&W RAILWAY) | | | **GROUND WATER** |
| **BORING NO.** EBI-B | **BORING LOCATION** 564+65 | **OFFSET** 79' RT | **ALIGNMENT** -L- |
| **COLLAR ELEVATION** 426.4' | **NORTHING** 622657 | **EASTING** 1964694 | **0 HR.** N/A |
| | | | **24 HR.** 6.0' |
| **TOTAL DEPTH** 53.6' | **DRILL MACHINE** CME-850 | **DRILL METHOD** ROTARY W/MUD | **HAMMER TYPE** AUTOMATIC |
| **START DATE** 9/16/03 | **COMPLETION DATE** 9/16/03 | **SURFACE WATER DEPTH** N/A | **DEPTH TO ROCK** 53.6' |

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| 426.4 | | | | | | | | | | |
| 425.0 | 3.5 | 3 | 6 | 9 | 1.0 | X15 | | M ▼ | | COASTAL PLAIN, ORANGE-RED AND GRAY, MODERATELY PLASTIC, SANDY CLAY |
| 420.0 | 8.5 | 4 | 4 | 4 | 1.0 | X8 | | W | | ORANGE-RED, BROWN, AND GRAY, HIGHLY PLASTIC, CLAYEY SAND |
| 415.0 | 13.5 | 2 | 4 | 4 | 1.0 | X8 | | W | | |
| 410.0 | 18.5 | 4 | 8 | 11 | 1.0 | X19 | SS-6 | W | | PINK-GRAY AND GRAY-WHITE SAND |
| 405.0 | 23.5 | 3 | 3 | 5 | 1.0 | X8 | | W | | |
| 400.0 | 28.5 | 8 | 11 | 12 | 1.0 | X23 | | W | | |
| 395.0 | 33.5 | 11 | 28 | 11 | 1.0 | X39 | SS-7 | W | | RESIDUAL, ORANGE, BROWN, AND GRAY, SLIGHTLY PLASTIC, CLAYEY SAND |
| 390.0 | 38.5 | 4 | 6 | 8 | 1.0 | X14 | SS-8 | W | | BLUE-GRAY, SAPROLITIC, CLAYEY SILT |
| 385.0 | 43.5 | 4 | 7 | 11 | 1.0 | X18 | | W | | |
| 380.0 | 48.5 | 15 | 34 | 66 | 0.8 | 100+ X | | | | WEATHERED ROCK (GNEISS) |
| 375.0 | 53.5 | 60 | | | 0.1 | 60/0.1 X | | | | |
| 370.0 | | | | | | SPT REFUSAL AT ELEVATION 372.8 FEET ON CRYSTALLINE ROCK (GNEISS) | | | | |
| 365.0 | | | | | | | | | | |
| 360.0 | | | | | | | | | | |
| 355.0 | | | | | | | | | | |
| 350.0 | | | | | | | | | | |

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## GEOTECHNICAL UNIT BORING LOG



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|---|---|---|---|
| **PROJECT NO.** 8.T540402 | **ID.** R-2417BB | **COUNTY** LEE | **GEOLOGIST** C.D. CZAJKA |
| **SITE DESCRIPTION** DUAL BRIDGES ON -L- (US 421 BYPASS) OVER -Y3- (NC 42) AND -RXR- (A&W RAILWAY) | | | **GROUND WATER** |
| **BORING NO.** BI-A | **BORING LOCATION** 566+02 | **OFFSET** 77' LT | **ALIGNMENT** -L- |
| **COLLAR ELEVATION** 432.9' | **NORTHING** 622496 | **EASTING** 1964824 | **0 HR.** N/A |
| | | | **24 HR.** 8.0' |
| **TOTAL DEPTH** 53.6' | **DRILL MACHINE** CME-850 | **DRILL METHOD** ROTARY W/MUD | **HAMMER TYPE** AUTOMATIC |
| **START DATE** 9/17/03 | **COMPLETION DATE** 9/17/03 | **SURFACE WATER DEPTH** N/A | **DEPTH TO ROCK** 53.6' |

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| 432.9 | | | | | | | | | | |
| 430.0 | 3.5 | 4 | 6 | 10 | 1.0 | X16 | SS-12 | M | | COASTAL PLAIN, ORANGE-RED AND GRAY, HIGHLY PLASTIC, SILTY CLAY |
| 425.0 | 8.5 | 3 | 5 | 10 | 1.0 | X15 | | M ▼ W | | |
| 420.0 | 13.5 | 3 | 4 | 3 | 1.0 | X7 | | W | | ORANGE-BROWN, PINK-GRAY, AND GRAY-WHITE, HIGHLY PLASTIC, CLAYEY SAND |
| 415.0 | 18.5 | 3 | 4 | 5 | 1.0 | X9 | | W | | |
| 410.0 | 23.5 | 5 | 6 | 9 | 1.0 | X15 | | W | | |
| 405.0 | 28.5 | 5 | 7 | 9 | 1.0 | X16 | SS-13 | W | | |
| 400.0 | 33.5 | 2 | 4 | 5 | 1.0 | X9 | SS-14 | W | | RESIDUAL, GREEN-GRAY AND GRAY, SAPROLITIC, SILTY SAND |
| 395.0 | 38.5 | 4 | 8 | 7 | 1.0 | X15 | SS-15 | W | | |
| 390.0 | 43.5 | 33 | 67 | | 0.9 | 100+ X | | | | WEATHERED ROCK (GNEISS) |
| 385.0 | 48.5 | 100 | | | 0.3 | 100+ X | | | | |
| 380.0 | 53.5 | 60 | | | 0.1 | 60/0.1 X | | | | |
| 375.0 | | | | | | SPT REFUSAL AT ELEVATION 379.3 FEET ON CRYSTALLINE ROCK (GNEISS) | | | | |
| 370.0 | | | | | | | | | | |
| 365.0 | | | | | | | | | | |
| 360.0 | | | | | | | | | | |
| 355.0 | | | | | | | | | | |