



N.C.D.O.T. GEOTECHNICAL UNIT
BORING LOG

SHEET 1 OF 2

| PROJECT NO. 8.1631801 | | ID. R-2911A | | COUNTY Iredell | | GEOLOGIST G. Licayan | | | | | | | |
|---|-----------|-------------------------|-------|----------------------------------|-----------------|--------------------------|------------------|-------------|----|-----------|-----|---------------------------|---|
| SITE DESCRIPTION Dual Bridges on -L- (US 70) Over -Y5A-, -Y5-, and -Y5B- (NSRR) | | | | | | | GROUND WATER (m) | | | | | | |
| BORING NO. B1-B RT | | BORING LOCATION 39+54.4 | | OFFSET 13.0m RT | | ALIGNMENT -L- | | 0 HR. 6.86 | | | | | |
| COLLAR ELEV. 257.07 m | | NORTHING 223619.13 | | EASTING 447317.91 | | | | 24 HR. 7.39 | | | | | |
| TOTAL DEPTH 24.93 m | | DRILL MACHINE CME 850 | | DRILL METHOD Wash Rotary/HQ Core | | HAMMER TYPE 63.5 kg Auto | | | | | | | |
| DATE STARTED 11/19/02 | | COMPLETED 11/21/02 | | SURFACE WATER DEPTH NA | | | | | | | | | |
| ELEV. (m) | DEPTH (m) | BLOW COUNT | | | BLOWS PER 30 CM | | | | | SAMP. NO. | LOG | SOIL AND ROCK DESCRIPTION | |
| | | 15cm | 15cm | 15cm | 0 | 20 | 40 | 60 | 80 | | | | 100 |
| 257.07 | | | | | | | | | | | | | 257.07 0.00 |
| 256.77 | 0.30 | | | | | | | | | | | M | RESIDUAL: Loose to Medium Dense Black, Tan, and Red to Orange Clayey Silty Coarse to Fine SAND with Some Mica and with a Trace of Root Fragments |
| 256.00 | 1.07 | 2 | 3 | 3 | | | | | | | | M | |
| 255.24 | 1.83 | 2 | 2 | 3 | | | | | | | | M | |
| 254.48 | 2.59 | 2 | 3 | 4 | | | | | | | | M | |
| 252.95 | 4.12 | 2 | 2 | 3 | | | | | | | | M | |
| 251.43 | 5.64 | 2 | 3 | 4 | | | | | | | | M | |
| 249.91 | 7.16 | 2 | 4 | 5 | | | | | | | | SS-19 M | |
| 248.38 | 8.69 | 2 | 4 | 5 | | | | | | | | W | |
| 246.86 | 10.21 | 4 | 6 | 6 | | | | | | | | W | |
| 245.34 | 11.73 | 3 | 4 | 5 | | | | | | | | SS-20 W | |
| 243.81 | 13.26 | 2 | 5 | 7 | | | | | | | | W | |
| 242.29 | 14.78 | 7 | 9 | 14 | | | | | | | | W | |
| 240.76 | 16.31 | 32 | 68/11 | | | | | | | | | W | |
| 239.78 | 17.29 | 30 | 70/14 | | | | | | | | | W | |
| 238.26 | 18.81 | 70 | 30/2 | | | | | | | | | M | |
| | | | | | | | | | | | | RS-3 | 242.59 14.48 |
| | | | | | | | | | | | | | WEATHERED ROCK: Tan, White, and Black Biotite Gneiss |
| | | | | | | | | | | | | | 240.47 16.60 |
| | | | | | | | | | | | | | Brown and Red, Very Severely Weathered, Very Soft Biotite Gneiss with Very Close Fracture Spacing [Hard Brown and Red Fine Sandy SILT (A-4) with Some Mica] |
| | | | | | | | | | | | | | 239.78 17.29 |
| | | | | | | | | | | | | | WEATHERED ROCK: Brown, Black, and White; Severely Weathered; Soft Biotite Gneiss with Very Close to Close Fracture Spacing |
| | | | | | | | | | | | | | 238.09 18.98 |

NCDOT BORE SIN. 07102019.GPJ NC_DOT.GDT 1/16/03



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BORING LOG

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SHEET 2 OF 2

| PROJECT NO. 8.1631801 | | ID. R-2911A | | COUNTY Iredell | | GEOLOGIST G. Licayan | | | | | | | |
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| COLLAR ELEV. 257.07 m | | NORTHING 223619.13 | | EASTING 447317.91 | | | | 24 HR. 7.39 | | | | | |
| TOTAL DEPTH 24.93 m | | DRILL MACHINE CME 850 | | DRILL METHOD Wash Rotary/HQ Core | | HAMMER TYPE 63.5 kg Auto | | | | | | | |
| DATE STARTED 11/19/02 | | COMPLETED 11/21/02 | | SURFACE WATER DEPTH NA | | | | | | | | | |
| ELEV. (m) | DEPTH (m) | BLOW COUNT | | | BLOWS PER 30 CM | | | | | SAMP. NO. | LOG | SOIL AND ROCK DESCRIPTION | |
| | | 15cm | 15cm | 15cm | 0 | 20 | 40 | 60 | 80 | | | | 100 |
| 238.07 | | | | | | | | | | | | | 238.07 0.00 |
| | | | | | | | | | | | | | Continued from previous page |
| | | | | | | | | | | | | | 100/10 |
| 236.74 | 20.33 | | | | | | | | | | | | 50/4 |
| | | | | | | | | | | | | | 237.01 20.06 |
| | | | | | | | | | | | | | CRYSTALLINE ROCK: White and Black; Moderately to Slightly Weathered; Moderately Hard Biotite Gneiss with Moderately Close to Close Fracture Spacing (continued) |
| | | | | | | | | | | | | | 236.64 20.43 |
| | | | | | | | | | | | | | WEATHERED ROCK: White, Black, and Orange; Severely Weathered; Very Soft to Soft Biotite Gneiss with Very Close Fracture Spacing |
| | | | | | | | | | | | | | 236.14 20.93 |
| | | | | | | | | | | | | | CRYSTALLINE ROCK: White and Black; Moderately Weathered; Moderately Hard Biotite Gneiss with Close Fracture Spacing |
| | | | | | | | | | | | | | CRYSTALLINE ROCK: White and Black; Slightly to Very Slightly Weathered; Hard Biotite Gneiss with Moderately Close to Wide Fracture Spacing |
| | | | | | | | | | | | | | 232.44 24.63 |
| | | | | | | | | | | | | | 232.14 24.93 |
| | | | | | | | | | | | | | CRYSTALLINE ROCK: White and Black; Moderately Weathered Medium Hard Biotite Gneiss with Very Close to Close Fracture Spacing |
| | | | | | | | | | | | | | Coring Terminated at Elevation 232.14m in Crystalline Rock: Biotite Gneiss |
| | | | | | | | | | | | | | |

NCDOT BORE SINGLE 07102019.GPJ NC_DOT.GDT 1/16/03

Avg. drilling fluid density=±1.04 grams per cu cm with ±3milliliter of polymer per liter of tap water