# NCDOT GEOTECHNICAL ENGINEERING UNIT
# BORELOG REPORT

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|---|---|---|---|---|
| **WBS** 38456.1.1 | **TIP** B-4659 | **COUNTY** WAKE | **GEOLOGIST** Pedro, J. L. | |
| **SITE DESCRIPTION** BRIDGE NO. 373 ON -L- (SR 1393) OVER BASAL CREEK | | | | **GROUND WTR (ft)** |
| **BORING NO.** EB1-A | **STATION** 15+58 | **OFFSET** 6 ft LT | **ALIGNMENT** -L- | **0 HR.** Dry |
| **COLLAR ELEV.** 319.5 ft | **TOTAL DEPTH** 15.6 ft | **NORTHING** 688,802 | **EASTING** 2,058,799 | **24 HR.** FIAD |
| **DRILL RIG/HAMMER EFF./DATE** SUM0093 DIEDRICH D-50 86% 08/15/2013 | | **DRILL METHOD** H.S. Augers | **HAMMER TYPE** Automatic | |
| **DRILLER** Contract Driller | **START DATE** 12/03/13 | **COMP. DATE** 12/03/13 | **SURFACE WATER DEPTH** N/A | |

| ELEV (ft) | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT 0.5ft | 0.5ft | 0.5ft | BLOWS PER FOOT 0 25 50 75 100 | SAMP. NO. | MOI | LOG | SOIL AND ROCK DESCRIPTION ELEV. (ft) | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 320 | | | | | | | | | | 319.5 GROUND SURFACE | 0.0 |
| | | | | | | | | | | 318.9 **ROADWAY EMBANKMENT** ASPHALT | 0.6 |
| 315 | 315.7 | 3.8 | 2 | 3 | 3 | 6 | | M | | **ROADWAY EMBANKMENT** RED-ORANGE, SILTY CLAY | |
| 310 | 310.7 | 8.8 | 2 | 2 | 3 | 5 | | M | | 308.5 **ALLUVIAL** GRAY AND BROWN, SILTY CLAY WITH BASAL QUARTZ GRAVEL | 11.0 |
| 305 | 305.7 | 13.8 | 1 | 5 | 95/0.3 | 100/0.8 | | | | 305.2 | 14.3 |
| | 303.9 | 15.6 | 60/0.0 | | | 60/0.0 | | | | 303.9 **WEATHERED ROCK** (METAMORPHOSED GRANITE) | 15.6 |

Boring Terminated with Standard Penetration Test Refusal at Elevation 303.9 ft ON CRYSTALLINE ROCK (METAMORPHOSED GRANITE)

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|---|---|---|---|---|
| **WBS** 38456.1.1 | **TIP** B-4659 | **COUNTY** WAKE | **GEOLOGIST** Pedro, J. L. | |
| **SITE DESCRIPTION** BRIDGE NO. 373 ON -L- (SR 1393) OVER BASAL CREEK | | | | **GROUND WTR (ft)** |
| **BORING NO.** EB1-B | **STATION** 15+40 | **OFFSET** 12 ft RT | **ALIGNMENT** -L- | **0 HR.** Dry |
| **COLLAR ELEV.** 318.4 ft | **TOTAL DEPTH** 15.9 ft | **NORTHING** 688,801 | **EASTING** 2,058,774 | **24 HR.** 10.9 |
| **DRILL RIG/HAMMER EFF./DATE** SUM0093 DIEDRICH D-50 86% 08/15/2013 | | **DRILL METHOD** H.S. Augers | **HAMMER TYPE** Automatic | |
| **DRILLER** Contract Driller | **START DATE** 12/03/13 | **COMP. DATE** 12/03/13 | **SURFACE WATER DEPTH** N/A | |

| ELEV (ft) | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT 0.5ft | 0.5ft | 0.5ft | BLOWS PER FOOT 0 25 50 75 100 | SAMP. NO. | MOI | LOG | SOIL AND ROCK DESCRIPTION | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 320 | | | | | | | | | | 318.4 GROUND SURFACE | 0.0 |
| | | | | | | | | | | **ROADWAY EMBANKMENT** RED-ORANGE, SILTY CLAY | |
| 315 | 314.5 | 3.9 | 1 | 1 | 3 | 4 | | M | | | |
| 310 | 309.5 | 8.9 | 1 | 1 | 2 | 3 | | M | | 309.1 **ALLUVIAL** GRAY, SANDY SILT WITH TRACE ORGANICS | 9.3 |
| 305 | 304.5 | 13.9 | 4 | 7 | 13 | 20 | | M | | 305.9 GRAY, CLAYEY SAND | 12.5 |
| | 302.5 | 15.9 | 60/0.0 | | | 60/0.0 | | | | 303.5 | 14.9 |
| | | | | | | | | | | 302.8 GRAY, COARSE SAND AND QUARTZ GRAVEL | 15.6 |
| | | | | | | | | | | 302.5 **CRYSTALLINE ROCK** (METAMROPHOSED GRANITE) | 15.9 |

Boring Terminated with Standard Penetration Test Refusal at Elevation 302.5 ft IN CRYSTALLINE ROCK (METAMORPHOSED GRANITE)