# 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.** B1-A | **STATION** 15+88 | **OFFSET** 5 ft LT | **ALIGNMENT** -L- |
| **COLLAR ELEV.** 308.0 ft | **TOTAL DEPTH** 19.1 ft | **NORTHING** 688,779 | **EASTING** 2,058,820 |
| **DRILL RIG/HAMMER EFF./DATE** SUM0093 DIEDRICH D-50 86% 08/15/2013 | | **DRILL METHOD** NW Casing W/SPT & Core | **HAMMER TYPE** Automatic |
| **DRILLER** Contract Driller | **START DATE** 12/12/13 | **COMP. DATE** 12/12/13 | **SURFACE WATER DEPTH** N/A |

| GROUND WTR (ft) | |
|---|---|
| 0 HR. | N/A |
| 24 HR. | 0.7 |

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 310 | | | | | | | | | | | |
| | 308.0 | 0.0 | | | | | | | | 308.0 GROUND SURFACE | 0.0 |
| | | | WOH | WOH | WOH | | | M | | **ALLUVIAL** ORANGE-BROWN TO GRAY, SANDY SILT | |
| 305 | 304.7 | 3.3 | | | | | | | | 305.5 | 2.5 |
| | 303.3 | 4.7 | 48 60/0.0 | 52/0.1 | | 100/0.6 60/0.0 | | | | **WEATHERED ROCK** (METAMORPHOSED GRANITE) 303.3 | 4.7 |
| 300 | | | | | | | | | | **CRYSTALLINE ROCK** GREEN, WHITE, AND PINK, MODERATELY SEVERELY WEATHERED TO FRESH, MODERATELY HARD TO VERY HARD, CLOSE TO WIDE FRACTURE SPACING, METAMORPHOSED GRANITE | |
| 295 | | | | | | | | | | REC=98% RQD=80% | |
| 290 | | | | | | | | | | RMR=74 | |
| | | | | | | | | | | 288.9 | 19.1 |
| | | | | | | | | | | Boring Terminated with Standard Penetration Test Refusal at Elevation 288.9 ft IN CRYSTALLINE ROCK (METAMORPHOSED GRANITE) | |

# NCDOT GEOTECHNICAL ENGINEERING UNIT
## CORE BORING REPORT

| | | | |
|---|---|---|---|
| **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.** B1-A | **STATION** 15+88 | **OFFSET** 5 ft LT | **ALIGNMENT** -L- |
| **COLLAR ELEV.** 308.0 ft | **TOTAL DEPTH** 19.1 ft | **NORTHING** 688,779 | **EASTING** 2,058,820 |
| **DRILL RIG/HAMMER EFF./DATE** SUM0093 DIEDRICH D-50 86% 08/15/2013 | | **DRILL METHOD** NW Casing W/SPT & Core | **HAMMER TYPE** Automatic |
| **DRILLER** Contract Driller | **START DATE** 12/12/13 | **COMP. DATE** 12/12/13 | **SURFACE WATER DEPTH** N/A |
| **CORE SIZE** NQ2 | **TOTAL RUN** 14.4 ft | | |

| GROUND WTR (ft) | |
|---|---|
| 0 HR. | N/A |
| 24 HR. | 0.7 |

| ELEV (ft) | RUN ELEV (ft) | DEPTH (ft) | RUN (ft) | DRILL RATE (Min/ft) | RUN REC. (ft) % | RUN RQD (ft) % | SAMP. NO. | STRATA REC. (ft) % | STRATA RQD (ft) % | LOG | DESCRIPTION AND REMARKS ELEV. (ft) | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 303.3 | | | | | | | | | | | Begin Coring @ 4.7 ft | |
| | 303.3 | 4.7 | 4.4 | *N=60/0.0* 2:33/0.4 3:13/1.0 3:04/1.0 4:01/1.0 6:14/1.0 | (4.4) 100% | (2.2) 50% | | (14.1) 98% | (11.5) 80% | | 303.3 **CRYSTALLINE ROCK** GREEN, WHITE, AND PINK, MODERATELY SEVERELY WEATHERED TO FRESH, MODERATELY HARD TO VERY HARD, CLOSE TO WIDE FRACTURE SPACING, METAMORPHOSED GRANITE | 4.7 |
| 300 | 298.9 | 9.1 | 5.0 | 7:00/1.0 3:31/1.0 3:46/1.0 3:28/1.0 3:25/1.0 | (4.7) 94% | (4.3) 86% | | | | | | |
| 295 | 293.9 | 14.1 | 5.0 | 6:08/1.0 5:46/1.0 5:17/1.0 5:25/1.0 5:48/1.0 | (5.0) 100% | (5.0) 100% | | | | | | |
| 290 | 288.9 | 19.1 | | | | | | | | | 288.9 | 19.1 |
| | | | | | | | | | | | Boring Terminated with Standard Penetration Test Refusal at Elevation 288.9 ft IN CRYSTALLINE ROCK (METAMORPHOSED GRANITE) | |