# Continuous Water Quality Monitoring Periodic Report

## Rocky Branch A (October 19, 2022 - December 6, 2022)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            | CO                | NTINUOUS                       | SUMMARY STATISTICS  |                     |                        |                                       |                       |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------------|--------------------------------|---------------------|---------------------|------------------------|---------------------------------------|-----------------------|--|
| PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DESCRIPTION                                |                   | TER QUALITY<br>RAMETERS:       | MINIMUM<br>OBSERVED | MAXIMUM<br>OBSERVED | MEDIAN<br>OBSERVED     | MEAN<br>OBSERVED                      | STANDARD<br>DEVIATION |  |
| STREAM NAME:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Rocky Branch                               | STA               | AGE (FT):                      | 1.4                 | 4.2                 | 1.4                    | 1.4                                   | 0.1                   |  |
| LOCATION:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Maxcy Gregg Park                           |                   |                                |                     |                     |                        |                                       |                       |  |
| ADDRESS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1650 Park Circle<br>Columbia, SC 29201     | TEMPERATURE (°F): |                                | 55                  | 73                  | 63                     | 64                                    | 4                     |  |
| COORDINATES:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 33.995864, -81.021842                      | ТП                | RBIDITY (NTU):                 | 2                   | 291                 | 4                      | 12                                    | 28                    |  |
| TMDL/IMPAIRMENT:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Fecal Coliform                             | 10.               | (BIDITT (NTO).                 | ۷                   | 291                 | 7                      | 12                                    | 20                    |  |
| NEIGHBORING<br>LANDUSE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Residential and commercial                 | pH:               |                                | 6.0                 | 6.9                 | 6.6                    | 6.6                                   | 0.1                   |  |
| SPATIAL LOCATION:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Most upstream site                         |                   |                                |                     |                     |                        |                                       |                       |  |
| TOTAL NO. STORMS<br>OVER 0.1 INCH:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 9                                          | СО                | ECIFIC<br>NDUCTIVITY<br>5/cm): | 0.020               | 0.235               | 0.146                  | 0.142                                 | 0.025                 |  |
| MAX. DAILY RAINFALL:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.8 inches                                 | DIS               | SOLVED                         |                     |                     |                        |                                       |                       |  |
| TOTAL RAINFALL<br>(FOR PERIOD):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2.5 inches                                 |                   | YGEN (mg/L):                   | 6.2                 | 10.2                | 8.1                    | 8.0                                   | 0.7                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            | ·                 | Stage & Rainf                  | fall                |                     |                        |                                       |                       |  |
| # 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | - 1                                        | $\Box$            | This is                        |                     |                     | п                      |                                       | 0.0                   |  |
| 5 tage 4 6 6 8 6 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                            |                   | 6.8                            |                     |                     |                        |                                       | 0.5                   |  |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5 40/07 40/09 40/04 44/0 44/0              | 11/5              |                                | 11. 11/15 11/19     | 44/20 44/20 44      | (24, 44, (25, 44, (20, | 11/20 12/2 12/4                       | 1.0                   |  |
| 10/19 10/21 10/23 10/25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5 10/27 10/29 10/31 11/2 11/4              | 11/6              | 11/8 11/10 11/12 11            | 1/14 11/16 11/18    | 11/20 11/22 11/     | 24 11/26 11/28         | 11/30 12/2 12/4                       | 12/6                  |  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |                   | Water Tem                      | пр                  |                     |                        |                                       |                       |  |
| 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |                   |                                |                     |                     |                        |                                       |                       |  |
| F 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | mmm                                        | ~~                |                                | \\                  |                     | ~~~                    |                                       |                       |  |
| 10/19 10/21 10/23 10/2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5 10/27 10/29 10/31 11/2 11/4              | 11/6              |                                | 1/14 11/16 11/18    | 11/20 11/22 11      | /24 11/26 11/28        | 11/30 12/2 12/4                       | 1 12/6                |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |                   |                                |                     |                     |                        |                                       |                       |  |
| 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                            |                   | Turbidity                      | ,                   |                     |                        |                                       |                       |  |
| 300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                            |                   |                                |                     |                     |                        |                                       |                       |  |
| P 200 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                            | 1                 | 111                            | A                   |                     | 1                      | 7                                     | •                     |  |
| 10/19 10/21 10/23 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | /25 10/27 10/29 10/31 11/2 11              | /4 11/6           | 11/8 11/10 11/12               | 11/14 11/16 11/1    | 8 11/20 11/22 1     | 1/24 11/26 11/28       | 11/30 12/2 12/                        | 4 12/6                |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |                   |                                |                     |                     |                        |                                       |                       |  |
| SCDHEC in-stream standa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | rd: All pH values not less than 6.0 and no | t more than       | 8.5 pH                         |                     |                     |                        |                                       |                       |  |
| 7.1<br>± 6.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ~~~~                                       | 204               |                                |                     |                     |                        |                                       |                       |  |
| 6.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                            |                   |                                |                     |                     | 7 44 4                 |                                       |                       |  |
| 5.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5 10/27 10/29 10/31 11/2 11/               | 4 11/6            | 11/8 11/10 11/12 1             | 11/14 11/16 11/1    | 8 11/20 11/22 1     | 1/24 11/26 11/28       | 11/30 12/2 12                         | /4 12/6               |  |
| 10/19 10/21 10/23 10/2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ,,,,-                                      |                   |                                |                     |                     |                        |                                       |                       |  |
| 10/19 10/21 10/23 10/2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                            |                   |                                |                     |                     |                        |                                       |                       |  |
| 10/19 10/21 10/23 10/2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                            |                   | Specific Conc                  | ductivity           |                     |                        |                                       |                       |  |
| 0.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                            |                   | Specific Cond                  | ductivity           |                     |                        |                                       |                       |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | M.                                         |                   | Specific Cond                  | ductivity           |                     |                        |                                       |                       |  |
| 0.3<br>E 0.2<br>VE 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | /25 10/27 10/29 10/31 11/2 11              | /4 11/6           |                                |                     | 18 11/20 11/22      | 11/24 11/26 11/28      | 3 11/30 12/2 1                        | 2/4 12/6              |  |
| 0.3<br>E 0.2<br>VE 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A May and                                  | /4 11/6           |                                |                     | 18 11/20 11/22      | 11/24 11/26 11/28      | 3 11/30 12/2 1                        | 2/4 12/6              |  |
| 0.3<br>E 0.2<br>0.1<br>0.0<br>10/19 10/21 10/23 10/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A May and                                  |                   | 11/8 11/10 11/12               | 11/14 11/16 11/2    | 8 11/20 11/22       |                        | 3 11/30 12/2 1<br>- 4 mg/L (SCDHEC Lo |                       |  |
| 0.3<br>E 0.2<br>0.0<br>10/19 10/21 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 10/23 1 | /25 10/27 10/29 10/31 11/2 11              |                   | 11/8 11/10 11/12               | 11/14 11/16 11/2    | 18 11/20 11/22      |                        |                                       |                       |  |
| 0.3<br>E 0.2<br>0.0<br>10/19 10/21 10/23 10/<br>SCDHEC in-stream stance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | /25 10/27 10/29 10/31 11/2 11              |                   | 11/8 11/10 11/12               | 11/14 11/16 11/2    | 18 11/20 11/22      |                        |                                       |                       |  |

Note: Data gaps appear when the sonde is removed for calibration or when the flow depth is below the sensors

# **Continuous Water Quality Monitoring Periodic Report**

Rocky Branch A (October 19, 2022 - December 6, 2022)

### **Explanation of Statistics:**

| MINIMUM<br>OBSERVED   | The minimum of the values recorded by the datasonde in 15 minute intervals.                |
|-----------------------|--------------------------------------------------------------------------------------------|
| MAXIMUM<br>OBSERVED   | The maximum of the values recorded by the datasonde in 15 minute intervals.                |
| MEDIAN OBSERVED       | The median of all the values recorded by the datasonde in 15 minute intervals.             |
| MEAN OBSERVED         | The average of all the values recorded by the datasonde in 15 minute intervals.            |
| STANDARD<br>DEVIATION | The standard deviation of all the values recorded by the datasonde in 15 minute intervals. |

### Sampled Data:

| Analyte (units)                 | Sample 1   |         | Sample 2   |         |  |  |
|---------------------------------|------------|---------|------------|---------|--|--|
|                                 | 11/10/2022 |         | 11/10/2022 |         |  |  |
|                                 | Time       | Results | Time       | Results |  |  |
| Escherichia coli<br>(MPN/100mL) | 15:06      | 48,390  | 15:40      | 48,390  |  |  |
| Total Suspended Solids (mg/L)   | 15:06      | 343     | 15:40      | 172     |  |  |
| Total Phosphorus<br>(mg/L)      | 15:06      | 0.92    | 15:40      | 0.60    |  |  |
| Total Nitrogen<br>(mg/L)        | 15:06      | 3.60    | 15:40      | 2.04    |  |  |

All samples were collected during wet weather conditions.

#### **Notes:**

#### **Data Gaps**

There were gaps in stage data from 10/22 - 10/23 and 11/11 - 11/14, likely due to equipment communication errors.

### Potential Illicit Discharges and Abnormal Events:

Specific conductivity increased several times during the monitoring period, which may have been a result of the Maxcy Gregg pool discharge.

# Continuous Water Quality Monitoring Periodic Report

## Rocky Branch B (October 19, 2022 - December 6, 2022)

|                                                                                                                                                                                                                                                 |                                      | SUMMARY STATISTICS                   |                     |                     |                    |                   |                          |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------|---------------------|---------------------|--------------------|-------------------|--------------------------|--|--|--|
| PARAMETER                                                                                                                                                                                                                                       | DESCRIPTION                          | CONTINUOUS WATER QUALITY PARAMETERS: | MINIMUM<br>OBSERVED | MAXIMUM<br>OBSERVED | MEDIAN<br>OBSERVED | MEAN<br>OBSERVED  | STANDARD<br>DEVIATION    |  |  |  |
| STREAM NAME:                                                                                                                                                                                                                                    | Rocky Branch                         | STAGE (FT):                          | 3.3                 | 5.8                 | 3.3                | 3.3               | 0.2                      |  |  |  |
| LOCATION:                                                                                                                                                                                                                                       | Olympia Ave Crossing                 | TEMPERATURE (OF)                     | E4                  | 70                  | 0.4                | 0.4               | _                        |  |  |  |
| ADDRESS:                                                                                                                                                                                                                                        | 510 Heyward St<br>Columbia, SC 29201 | TEMPERATURE (°F):                    | 51                  | 72                  | 61                 | 61                | 5                        |  |  |  |
| COORDINATES:                                                                                                                                                                                                                                    | 33.982578, -81.035036                | TURBIDITY (NTU):                     | 2                   | 152                 | 5                  | 10                | 15                       |  |  |  |
| TMDL/IMPAIRMENT:                                                                                                                                                                                                                                | Fecal Coliform                       | ( )                                  | _                   |                     |                    |                   |                          |  |  |  |
| NEIGHBORING<br>LANDUSE:                                                                                                                                                                                                                         | Residential and commercial           | pH:                                  | 6.7                 | 7.9                 | 7.2                | 7.2               | 0.2                      |  |  |  |
| SPATIAL LOCATION:                                                                                                                                                                                                                               | Most Downstream Site                 | SPECIFIC                             |                     |                     |                    |                   |                          |  |  |  |
| TOTAL NO. STORMS<br>OVER 0.1 INCH:                                                                                                                                                                                                              | 7                                    | CONDUCTIVITY (mS/cm):                | 0.038               | 0.242               | 0.170              | 0.166             | 0.033                    |  |  |  |
| MAX. DAILY RAINFALL: TOTAL RAINFALL (FOR                                                                                                                                                                                                        | 0.9 inches                           | DISSOLVED OXYGEN (mg/L):             | 6.6                 | 10.8                | 9.1                | 9.0               | 0.8                      |  |  |  |
| PERIOD):                                                                                                                                                                                                                                        | l                                    |                                      | all .               | <u> </u>            | <u> </u>           | l                 |                          |  |  |  |
| Stage & Rainfall  10  10  10  10  10  10  10  10  10                                                                                                                                                                                            |                                      |                                      |                     |                     |                    |                   |                          |  |  |  |
|                                                                                                                                                                                                                                                 |                                      | Water Tem                            | p                   |                     |                    |                   |                          |  |  |  |
| 85<br>75<br>10/19 10/21 10/23 10/25 10/27 10/29 10/31 11/2 11/4 11/6 11/8 11/10 11/12 11/14 11/16 11/18 11/20 11/22 11/24 11/26 11/28 11/30 12/2 12/4 12/6                                                                                      |                                      |                                      |                     |                     |                    |                   |                          |  |  |  |
| Turbidity  200 150 100 10/19 10/21 10/23 10/25 10/27 10/29 10/31 11/2 11/4 11/6 11/8 11/10 11/12 11/14 11/16 11/18 11/20 11/22 11/24 11/26 11/28 11/30 12/2 12/4 12/6                                                                           |                                      |                                      |                     |                     |                    |                   |                          |  |  |  |
| SCDHEC in-stream standard: All pH values not less than 6.0 and not more than 8.5  7.5  7.0  6.5  10/19 10/21 10/23 10/25 10/27 10/29 10/31 11/2 11/4 11/6 11/8 11/10 11/12 11/14 11/16 11/18 11/20 11/22 11/24 11/26 11/28 11/30 12/2 12/4 12/6 |                                      |                                      |                     |                     |                    |                   |                          |  |  |  |
|                                                                                                                                                                                                                                                 |                                      | Specific Cond                        | uctivity            |                     |                    |                   |                          |  |  |  |
| 8 0.2<br>8 0.1<br>0.0<br>10/19 10/21 10/23 10/21                                                                                                                                                                                                | /25 10/27 10/29 10/31 11/2 11        | /4 11/6 11/8 11/10 11/12             | 11/14 11/16 11/1    | 8 11/20 11/22 1     | 1/24 11/26 11/28   | 11/30 12/2 12     | 2/4 12/6                 |  |  |  |
| 14<br>12<br>10<br>88<br>8<br>6<br>4<br>2                                                                                                                                                                                                        | 725 10/27 10/29 10/31 11/2 11        | ~~~~                                 |                     | 18 11/20 11/22      |                    | 4 mg/L (SCDHEC Lo | ow Standard)<br>2/4 12/6 |  |  |  |

Note: Data gaps appear when the sonde is removed for calibration or when the flow depth is below the sensors

# **Continuous Water Quality Monitoring Periodic Report**

Rocky Branch B (October 19, 2022 - December 6, 2022)

### **Explanation of Statistics:**

| MINIMUM<br>OBSERVED   | The minimum of the values recorded by the datasonde in 15 minute intervals.                |
|-----------------------|--------------------------------------------------------------------------------------------|
| MAXIMUM<br>OBSERVED   | The maximum of the values recorded by the datasonde in 15 minute intervals.                |
| MEDIAN OBSERVED       | The median of all the values recorded by the datasonde in 15 minute intervals.             |
| MEAN OBSERVED         | The average of all the values recorded by the datasonde in 15 minute intervals.            |
| STANDARD<br>DEVIATION | The standard deviation of all the values recorded by the datasonde in 15 minute intervals. |

### Sampled Data:

|                                 | Sample 1   |         | Sample 2   |          |  |  |
|---------------------------------|------------|---------|------------|----------|--|--|
| Analyte (units)                 | 11/10/2022 |         | 11/10/2022 |          |  |  |
|                                 | Time       | Results | Time       | Results  |  |  |
| Escherichia coli<br>(MPN/100mL) | 15:20      | 2,306   | 16:00      | > 48,392 |  |  |
| Total Suspended Solids (mg/L)   | 15:20      | 87.1    | 16:00      | 318.0    |  |  |
| Total Phosphorus<br>(mg/L)      | 15:20      | 0.23    | 16:00      | 0.98     |  |  |
| Total Nitrogen<br>(mg/L)        | 15:20      | 3.02    | 16:00      | 3.55     |  |  |

All samples were collected during wet weather conditions.

### Notes:

#### **Data Gaps**

There was a gap in stage data from 10/22 - 10/23, likely due to equipment communication errors.

#### Potential Illicit Discharges and Abnormal Events:

Specific conductivity increased several times during the monitoring period, which may have been a result of the Maxcy Gregg pool discharge.