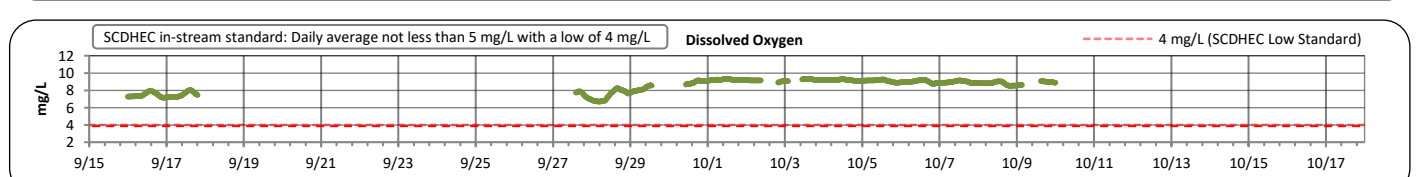
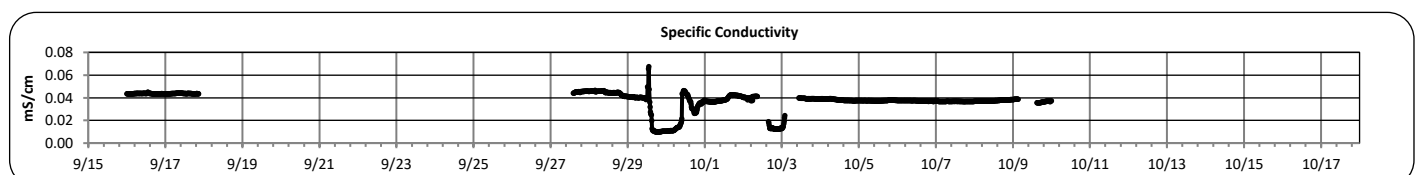
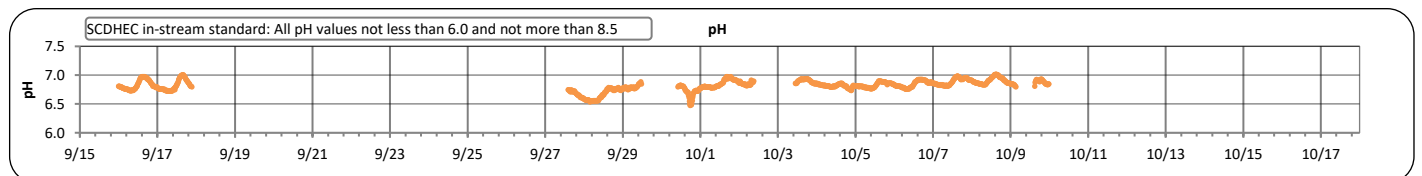
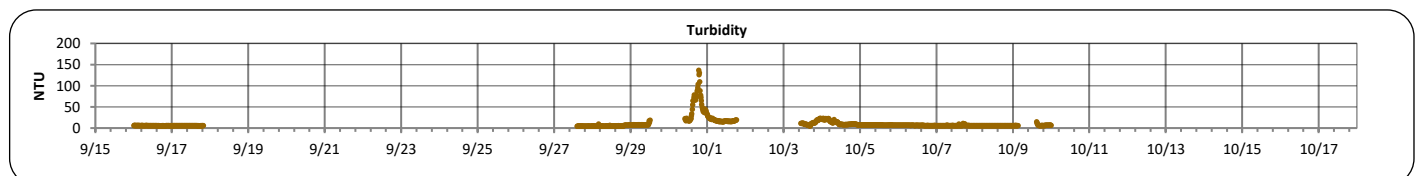
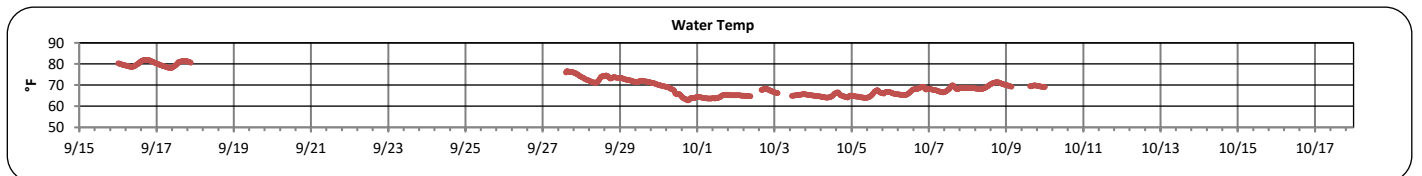
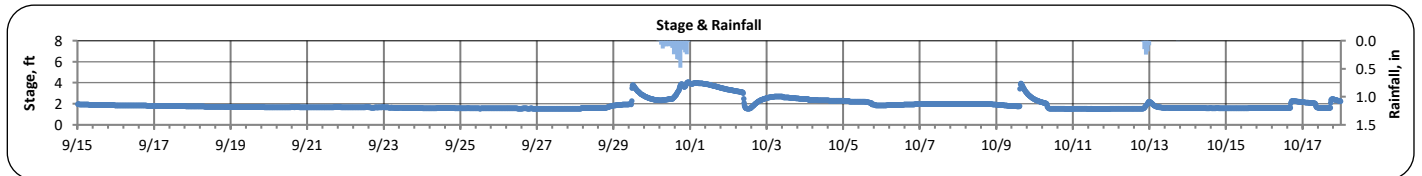


# Continuous Water Quality Monitoring Periodic Report

Gills Creek A (September 15, 2022 - October 18, 2022)

| PARAMETER                          | DESCRIPTION                              | CONTINUOUS<br>WATER QUALITY<br>PARAMETERS: | SUMMARY STATISTICS  |                     |                    |                  |                       |
|------------------------------------|--|--|---------------------|---------------------|--------------------|------------------|-----------------------|
|                                    |  |  | MINIMUM<br>OBSERVED | MAXIMUM<br>OBSERVED | MEDIAN<br>OBSERVED | MEAN<br>OBSERVED | STANDARD<br>DEVIATION |
| STREAM NAME:                       | Gills Creek                              | STAGE (FT):                                | 1.5                 | 4.1                 | 1.7                | 1.9              | 0.5                   |
| LOCATION:                          | Forest Drive Bridge                      | TEMPERATURE (°F):                          | 63                  | 82                  | 68                 | 70               | 5                     |
| ADDRESS:                           | 4840 Forest Drive,<br>Columbia, SC 29206 | TURBIDITY (NTU):                           | 5                   | 137                 | 7                  | 11               | 13                    |
| COORDINATES:                       | 34.019826, -80.963566                    | pH:  | 6.5                 | 7.0                 | 6.8                | 6.8              | 0.1                   |
| TMDL/IMPAIRMENT:                   | Fecal & Dissolved Oxygen                 | SPECIFIC<br>CONDUCTIVITY<br>(mS/cm):       | 0.010               | 0.068               | 0.038              | 0.037            | 0.009                 |
| NEIGHBORING<br>LANDUSE:            | Residential and commercial               | DISSOLVED<br>OXYGEN (mg/L):                | 6.7                 | 9.4                 | 9.0                | 8.6              | 0.7                   |
| APPROX. DRAINAGE<br>AREA:          | 48 square miles                          |  |                     |                     |                    |                  |                       |
| SPATIAL LOCATION:                  | Most upstream site                       |  |                     |                     |                    |                  |                       |
| TOTAL NO. STORMS<br>OVER 0.1 INCH: | 2  |  |                     |                     |                    |                  |                       |
| MAX. DAILY RAINFALL:               | 3.1 inches                               |  |                     |                     |                    |                  |                       |
| TOTAL RAINFALL<br>(FOR PERIOD):    | 3.8 inches                               |  |                     |                     |                    |                  |                       |



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

REPORT GENERATED ON 12/3/2022

**Continuous Water Quality  
Monitoring Periodic Report**

**Gills Creek A (September 15, 2022 - October 18, 2022)**

**Explanation of Statistics:**

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

**Sampled Data:**

| Analyte (units)                        | Sample 1  |         | Sample 2  |         | Sample 3  |         | Sample 4  |         |
|--|-----------|---------|-----------|---------|-----------|---------|-----------|---------|
|  | 9/30/2022 |         | 9/30/2022 |         | 9/30/2022 |         | 9/30/2022 |         |
|  | Time      | Results | Time      | Results | Time      | Results | Time      | Results |
| <i>Escherichia coli</i><br>(MPN/100mL) | 8:48      | 1,378   | 9:52      | 1,920   | 10:44     | 1,918   | 11:46     | 1,476   |
| Total Suspended Solids (mg/L)          | 8:48      | 16.0    | 9:52      | 27.6    | 10:44     | 19.3    | 11:46     | 25.7    |
| Total Phosphorus (mg/L)                | 8:48      | 0.049   | 9:52      | 0.075   | 10:44     | 0.059   | 11:46     | 0.074   |
| Total Nitrogen (mg/L)                  | 8:48      | 0.671   | 9:52      | 0.080   | 10:44     | 0.994   | 11:46     | 0.764   |

All samples were collected during wet weather conditions.

**Notes:**

Data Gaps

Temperature, turbidity, pH, specific conductivity, and DO had data gaps from 9/17 – 9/27, 10/2, 10/3, 10/9, and 10/10 - 10/18 due to sensors being unsubmerged. Turbidity, pH, and DO had another data gap from 9/29 - 9/30 due to sensor fouling.

Potential Illicit Discharges and Abnormal Events:

Specific conductivity increased on 9/29 and 9/30 which may have been the result of illicit discharges.

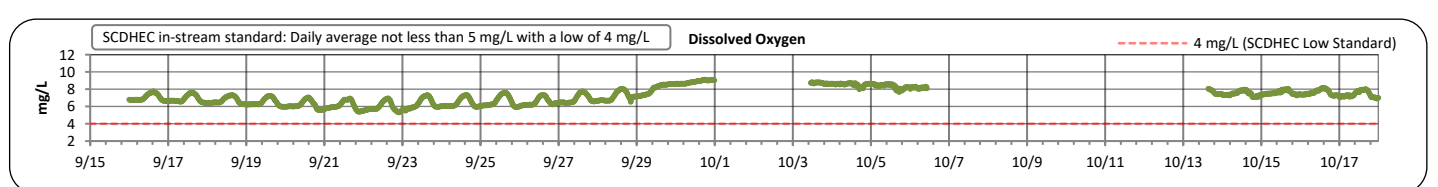
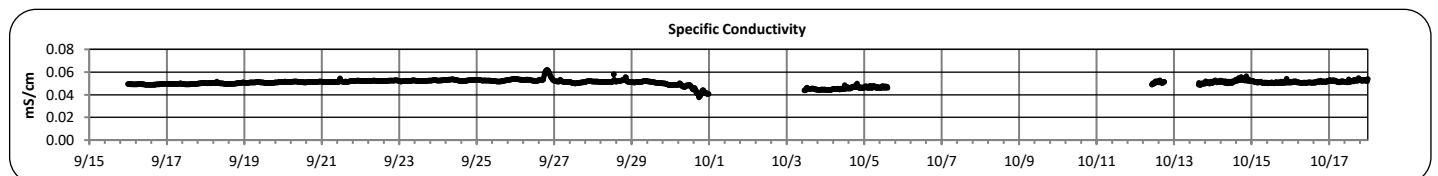
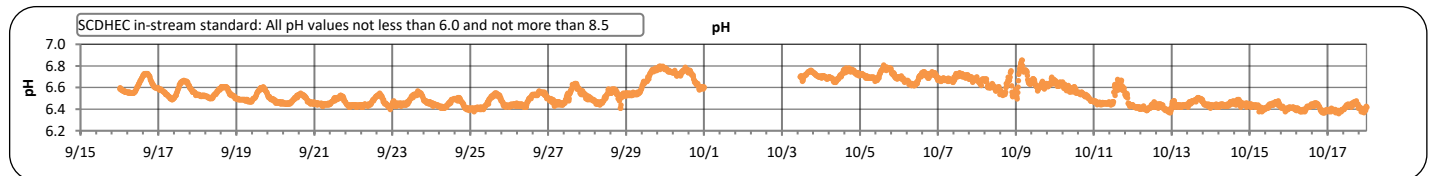
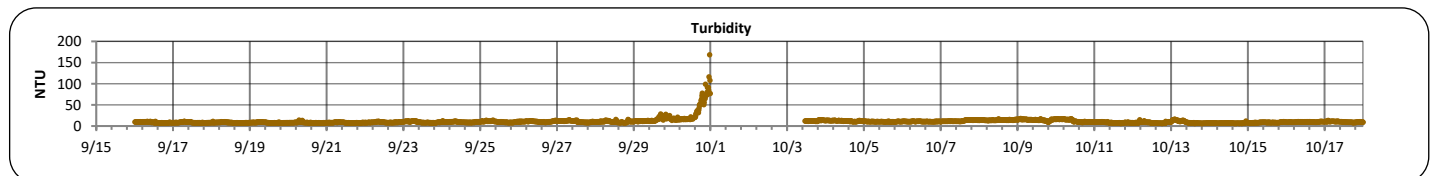
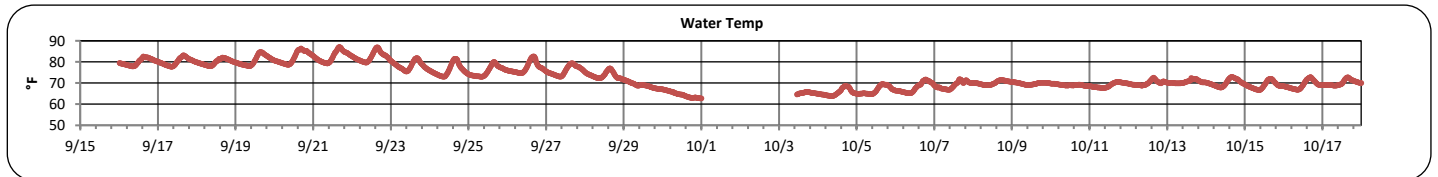
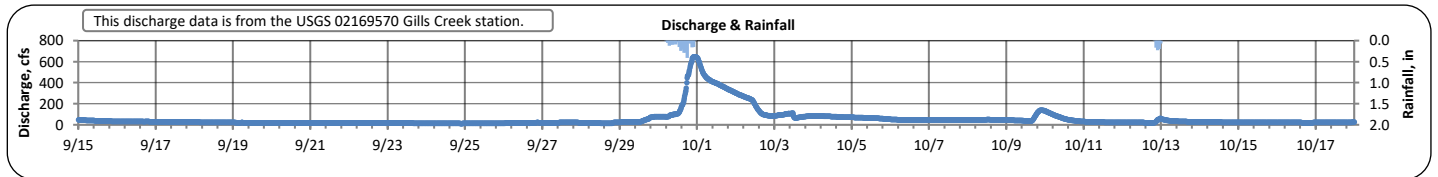
Note: Data gaps appear when the sonde is removed for calibration or when the flow depth is below the sensors

REPORT GENERATED ON 12/3/2022

# Continuous Water Quality Monitoring Periodic Report

**Gills Creek B (September 15, 2022 - October 18, 2022)**

| PARAMETER                       | DESCRIPTION                              | CONTINUOUS<br>WATER QUALITY<br>PARAMETERS: | SUMMARY STATISTICS  |                     |                    |                  |                       |
|---------------------------------|--|--|---------------------|---------------------|--------------------|------------------|-----------------------|
|                                 |  |  | MINIMUM<br>OBSERVED | MAXIMUM<br>OBSERVED | MEDIAN<br>OBSERVED | MEAN<br>OBSERVED | STANDARD<br>DEVIATION |
| STREAM NAME:                    | Gills Creek                              | DISCHARGE (CFS):                           | 13.2                | 647.0               | 27.2               | 56.5             | 88.9                  |
| LOCATION:                       | Devine Street bridge                     | TEMPERATURE (°F):                          | 63                  | 87                  | 71                 | 73               | 6                     |
| ADDRESS:                        | 4716 Devine Street<br>Columbia, SC 29209 | TURBIDITY (NTU):                           | 6                   | 169                 | 10                 | 11               | 8                     |
| COORDINATES:                    | 33.989656, -80.97433                     | pH:  | 6.4                 | 6.9                 | 6.5                | 6.5              | 0.1                   |
| TMDL/IMPAIRMENT:                | Fecal & Dissolved Oxygen                 | SPECIFIC CONDUCTIVITY (mS/cm):             | 0.038               | 0.062               | 0.051              | 0.051            | 0.003                 |
| NEIGHBORING LANDUSE:            | Residential and commercial               | DISSOLVED OXYGEN (mg/L):                   | 5.3                 | 9.1                 | 7.2                | 7.2              | 0.9                   |
| APPROX. DRAINAGE AREA:          | 59 square miles                          |  |                     |                     |                    |                  |                       |
| SPATIAL LOCATION:               | Middle site                              |  |                     |                     |                    |                  |                       |
| TOTAL NO. STORMS OVER 0.1 INCH: | 2  |  |                     |                     |                    |                  |                       |
| MAX. DAILY RAINFALL:            | 2.6 inches                               |  |                     |                     |                    |                  |                       |
| TOTAL RAINFALL (FOR PERIOD):    | 3.3 inches                               |  |                     |                     |                    |                  |                       |



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

REPORT GENERATED ON 12/3/2022

**Continuous Water Quality  
Monitoring Periodic Report**

**Gills Creek B (August 11, 2022 - September 14, 2022)**

**Explanation of Statistics:**

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

**Sampled Data:**

| Analyte (units)                        | Sample 1  |         | Sample 2  |         | Sample 3  |         | Sample 4  |         |
|--|-----------|---------|-----------|---------|-----------|---------|-----------|---------|
|  | 9/30/2022 |         | 9/30/2022 |         | 9/30/2022 |         | 9/30/2022 |         |
|  | Time      | Results | Time      | Results | Time      | Results | Time      | Results |
| <i>Escherichia coli</i><br>(MPN/100mL) | 9:20      | 590     | 10:15     | 808     | 11:17     | 1,518   | 12:19     | 1,058   |
| Total Suspended Solids (mg/L)          | 9:20      | 18.0    | 10:15     | 17.7    | 11:17     | 20.0    | 12:19     | 19.0    |
| Total Phosphorus (mg/L)                | 9:20      | 0.069   | 10:15     | 0.066   | 11:17     | 0.074   | 12:19     | 0.071   |
| Total Nitrogen (mg/L)                  | 9:20      | 0.820   | 10:15     | 0.800   | 11:17     | 0.951   | 12:19     | 0.860   |

All samples were collected during wet weather conditions.

**Notes:**

Data Gaps

Temperature, turbidity, pH, specific conductivity, and DO had a data gap from 10/1 - 10/3 due to sensors being buried. Specific conductivity had data gaps from 10/5 - 10/12 and 10/12 - 10/13 due to sensor fouling. DO also had a data gap from 10/6 – 10/13 due to fouling.

Potential Illicit Discharges and Abnormal Events:

There were no abnormal events at the GILB station during this monitoring period.

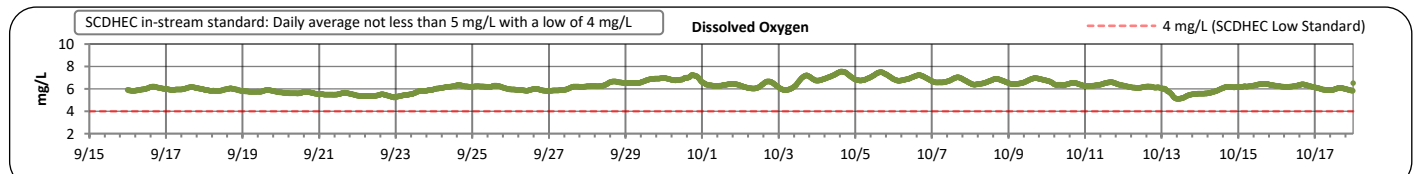
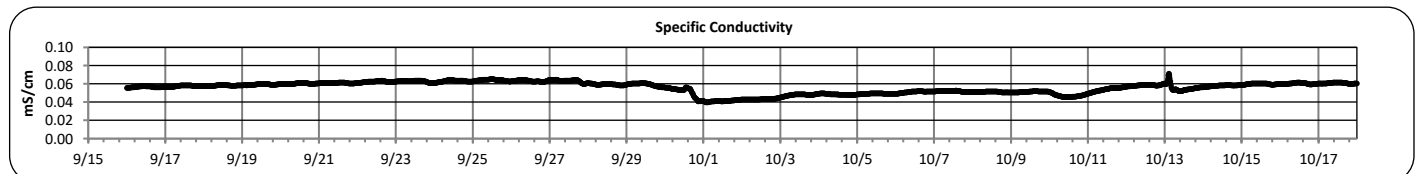
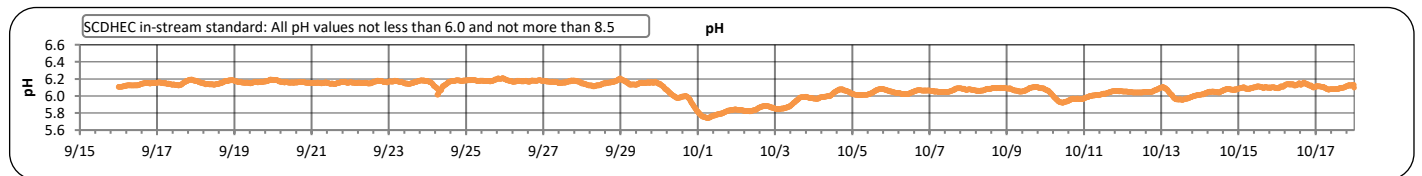
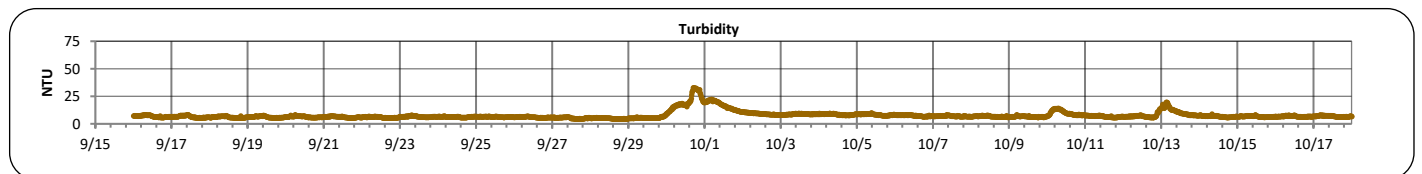
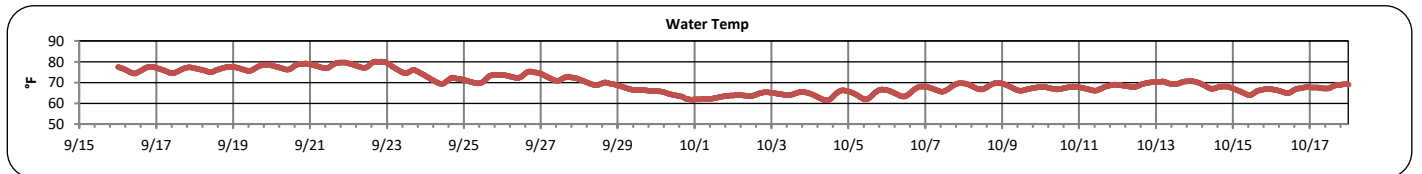
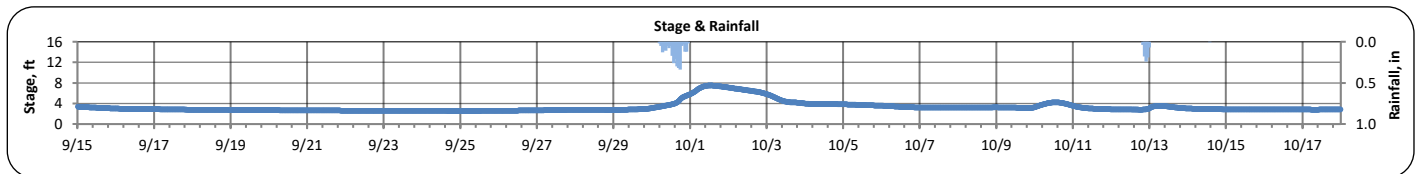
Note: Data gaps appear when the sonde is removed for calibration or when the flow depth is below the sensors

REPORT GENERATED ON 12/3/2022

# Continuous Water Quality Monitoring Periodic Report

**Gills Creek C (September 15, 2022 - October 18, 2022)**

| PARAMETER                          | DESCRIPTION                          | CONTINUOUS<br>WATER QUALITY<br>PARAMETERS: | SUMMARY STATISTICS  |                     |                    |                  |                       |
|------------------------------------|--------------------------------------|--|---------------------|---------------------|--------------------|------------------|-----------------------|
|                                    |                                      |  | MINIMUM<br>OBSERVED | MAXIMUM<br>OBSERVED | MEDIAN<br>OBSERVED | MEAN<br>OBSERVED | STANDARD<br>DEVIATION |
| STREAM NAME:                       | Gills Creek                          | STAGE (FT):                                | 2.6                 | 7.5                 | 2.9                | 3.3              | 1.0                   |
| LOCATION:                          | Bluff Road bridge                    | TEMPERATURE (°F):                          | 61                  | 80                  | 69                 | 70               | 5                     |
| ADDRESS:                           | 3009 Bluff Rd.<br>Columbia, SC 29209 | TURBIDITY (NTU):                           | 4                   | 33                  | 7                  | 8                | 4                     |
| COORDINATES:                       | 33.948043, -80.9889                  | pH:  | 5.7                 | 6.2                 | 6.1                | 6.1              | 0.1                   |
| TMDL/IMPAIRMENT:                   | Fecal & Dissolved Oxygen             | SPECIFIC<br>CONDUCTIVITY<br>(mS/cm):       | 0.040               | 0.071               | 0.058              | 0.056            | 0.006                 |
| NEIGHBORING<br>LANDUSE:            | Residential and commercial           | DISSOLVED<br>OXYGEN (mg/L):                | 5.1                 | 7.6                 | 6.2                | 6.3              | 0.5                   |
| APPROX. DRAINAGE<br>AREA:          | 64 square miles                      |  |                     |                     |                    |                  |                       |
| SPATIAL LOCATION:                  | Most downstream site                 |  |                     |                     |                    |                  |                       |
| TOTAL NO. STORMS<br>OVER 0.1 INCH: | 2                                    |  |                     |                     |                    |                  |                       |
| MAX. DAILY RAINFALL:               | 2.53 inches                          |  |                     |                     |                    |                  |                       |
| TOTAL RAINFALL (FOR<br>PERIOD):    | 3.3 inches                           |  |                     |                     |                    |                  |                       |



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

REPORT GENERATED ON 12/3/2022

**Continuous Water Quality  
Monitoring Periodic Report**

**Gills Creek C (September 15, 2022 - October 18, 2022)**

**Explanation of Statistics:**

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

**Sampled Data:**

| Analyte (units)                        | Sample 1  |         | Sample 2  |         | Sample 3  |         | Sample 4  |         |
|--|-----------|---------|-----------|---------|-----------|---------|-----------|---------|
|  | 9/30/2022 |         | 9/30/2022 |         | 9/30/2022 |         | 9/30/2022 |         |
|  | Time      | Results | Time      | Results | Time      | Results | Time      | Results |
| <i>Escherichia coli</i><br>(MPN/100mL) | 9:39      | 1,918   | 10:56     | 2,172   | 12:24     | 1,974   | 1:32      | 2306    |
| Total Suspended Solids (mg/L)          | 9:39      | 21.4    | 10:56     | 18.7    | 12:24     | 21.4    | 1:32      | 21.4    |
| Total Phosphorus (mg/L)                | 9:39      | 0.082   | 10:56     | 0.085   | 12:24     | 0.085   | 1:32      | 0.100   |
| Total Nitrogen (mg/L)                  | 9:39      | 0.760   | 10:56     | 0.820   | 12:24     | 0.910   | 1:32      | 0.990   |

All samples were collected during wet weather conditions.

**Notes:**

Data Gaps

There were no data gaps at the GILC station during this monitoring period.

Potential Illicit Discharges and Abnormal Events:

There were no abnormal events at the GILC station during this monitoring period.

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

REPORT GENERATED ON 12/3/2022