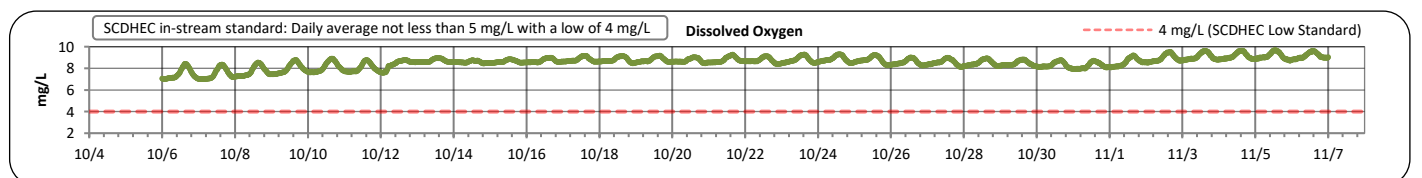
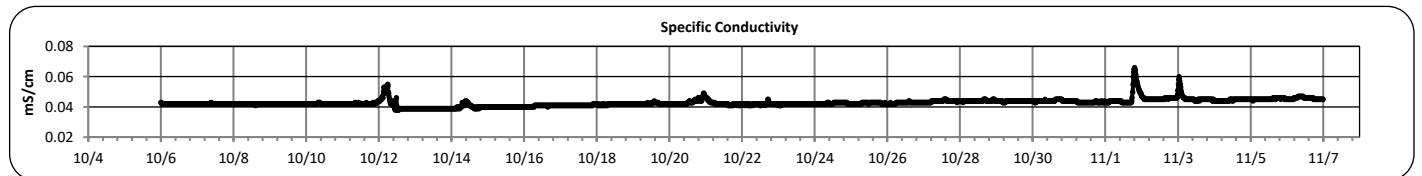
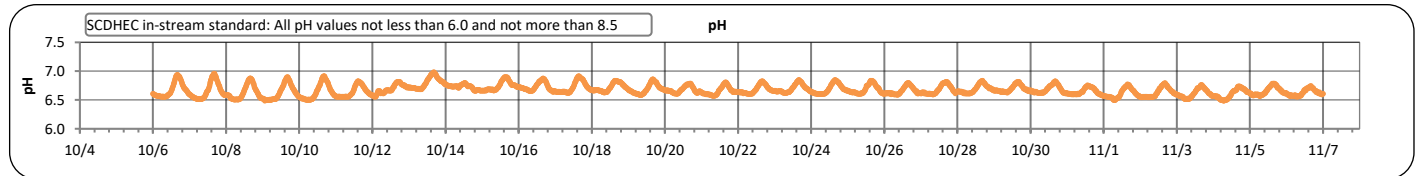
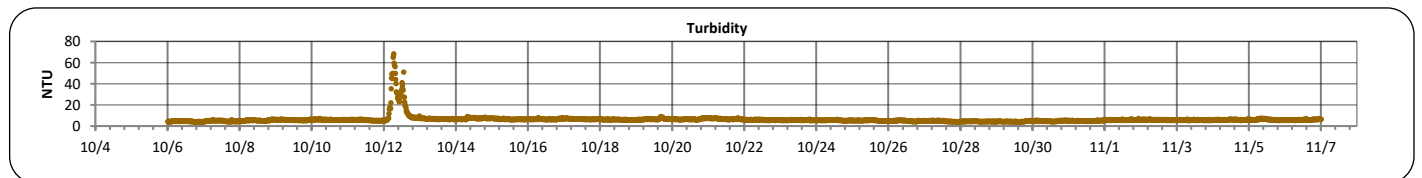
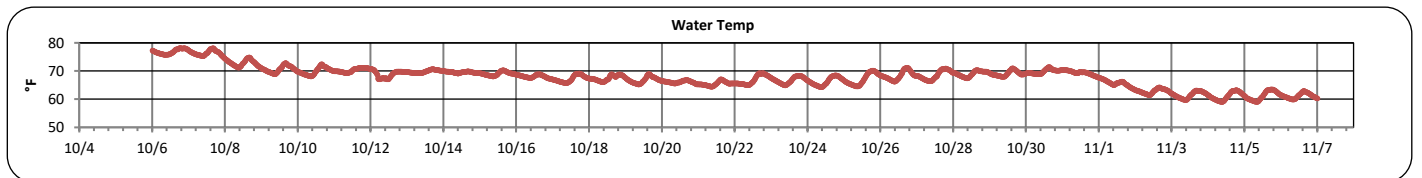
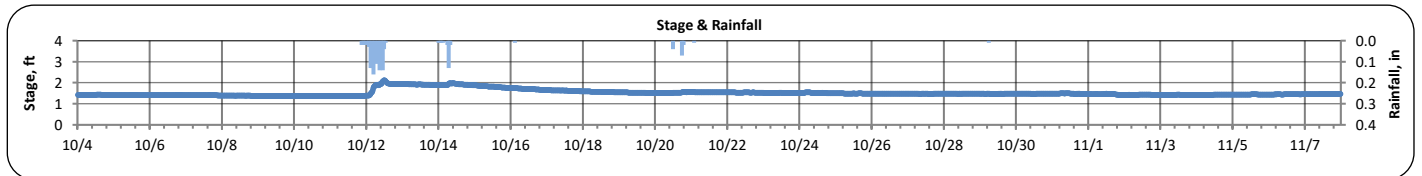


Continuous Water Quality Monitoring Periodic Report

Gills Creek A (October 4, 2023 - November 7, 2023)

| PARAMETER | DESCRIPTION | CONTINUOUS WATER QUALITY PARAMETERS: | SUMMARY STATISTICS | | | | |
|------------------------------------|------------------------------------------|--------------------------------------------|---------------------|---------------------|--------------------|------------------|-----------------------|
| | | | MINIMUM OBSERVED | MAXIMUM OBSERVED | MEDIAN OBSERVED | MEAN OBSERVED | STANDARD DEVIATION |
| STREAM NAME: | Gills Creek | STAGE (FT): | 1.4 | 2.1 | 1.5 | 1.5 | 0.2 |
| LOCATION: | Forest Drive Bridge | TEMPERATURE (°F): | 59 | 78 | 68 | 68 | 4 |
| ADDRESS: | 4840 Forest Drive, Columbia, SC 29206 | TURBIDITY (NTU): | 4 | 68 | 6 | 6 | 4 |
| COORDINATES: | 34.019826, -80.963566 | pH: | 6.5 | 7.0 | 6.7 | 6.7 | 0.1 |
| TMDL/IMPAIRMENT: | Fecal & Dissolved Oxygen | SPECIFIC CONDUCTIVITY (mS/cm): | 0.038 | 0.066 | 0.042 | 0.043 | 0.002 |
| NEIGHBORING LANDUSE: | Residential and commercial | DISSOLVED OXYGEN (mg/L): | 7.0 | 9.7 | 8.6 | 8.6 | 0.5 |
| APPROX. DRAINAGE AREA: | 48 square miles | | | | | | |
| SPATIAL LOCATION: | Most upstream site | | | | | | |
| TOTAL NO. STORMS OVER 0.1 INCH: | 2 | | | | | | |
| MAX. DAILY RAINFALL: | 1.2 inches | | | | | | |
| TOTAL RAINFALL (FOR PERIOD): | 1.6 inches | | | | | | |



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

REPORT GENERATED ON 11/21/2023

**Continuous Water Quality
Monitoring Periodic Report**

Gills Creek A (October 4, 2023 - November 7, 2023)

Explanation of Statistics:

| | |
|---------------------------|--------------------------------------------------------------------------------------------|
| MINIMUM OBSERVED | The minimum of the values recorded by the datasonde in 15 minute intervals. |
| MAXIMUM 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 DEVIATION | The standard deviation of all the values recorded by the datasonde in 15 minute intervals. |

Sampled Data: No grab samples were collected during this monitoring period.

| Analyte (units) | | | | | | | | |
|----------------------------------------|------|---------|------|---------|------|---------|------|---------|
| | Time | Results | Time | Results | Time | Results | Time | Results |
| <i>Escherichia coli</i> (MPN/100mL) | | | | | | | | |
| Total Suspended Solids (mg/L) | | | | | | | | |
| Total Phosphorus (mg/L) | | | | | | | | |
| Total Nitrogen (mg/L) | | | | | | | | |

Notes:

Data Gaps

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

Potential Illicit Discharges and Abnormal Events:

There were multiple instances of increased specific conductivity throughout the monitoring period, most notably on 11/2 and 11/3, which may have been the result of illicit discharges.

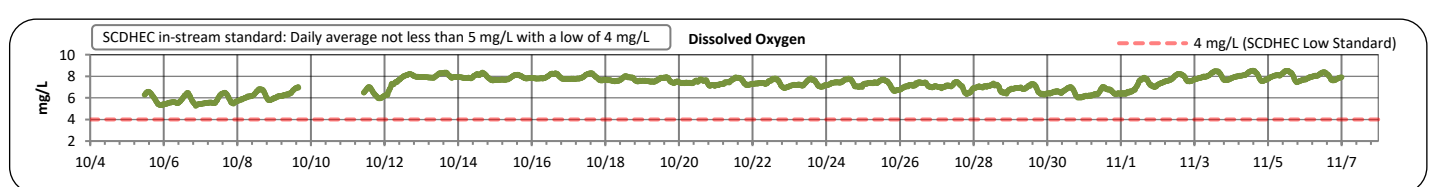
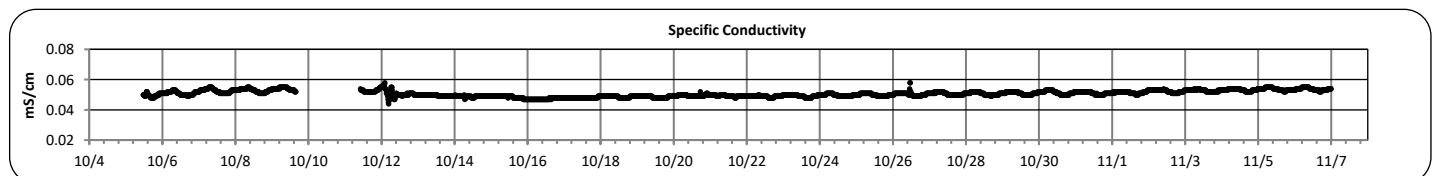
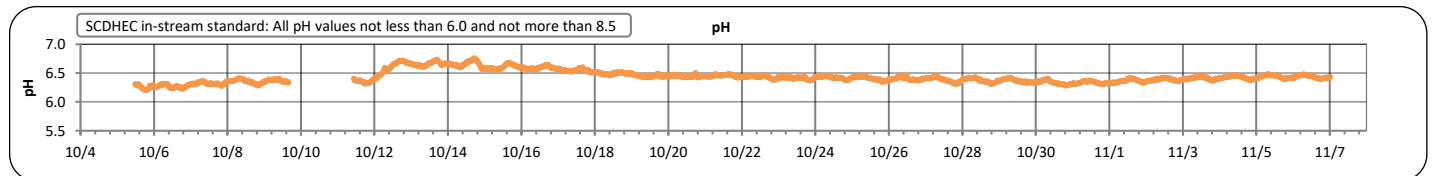
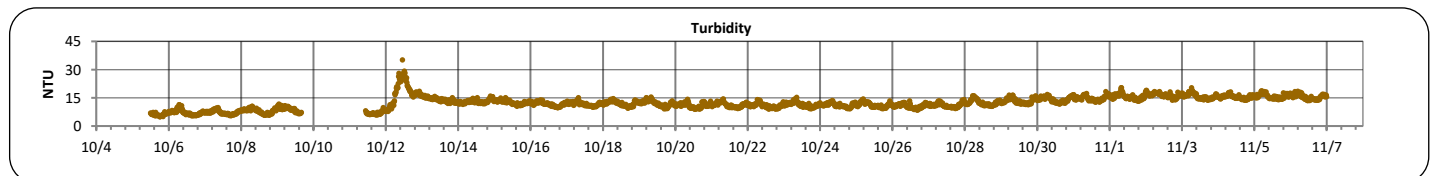
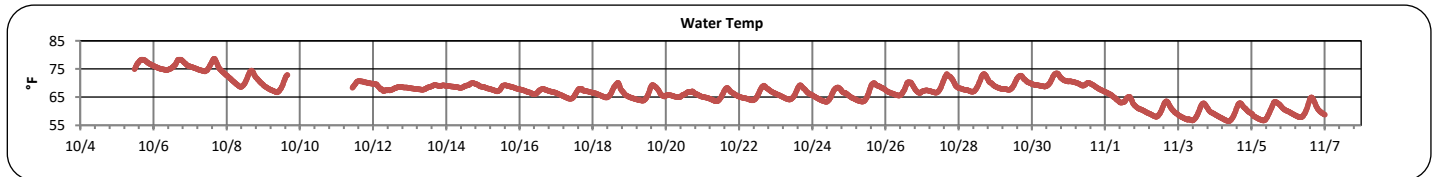
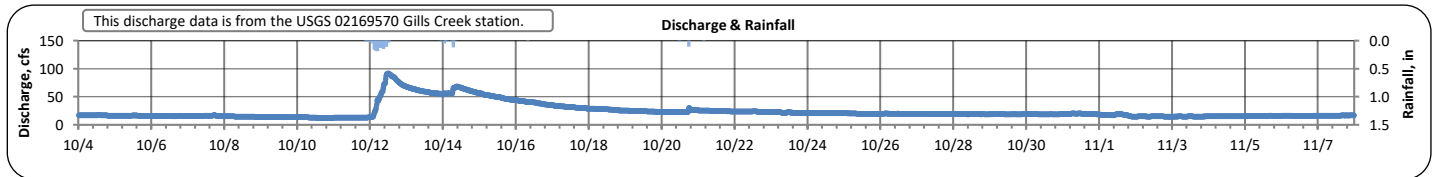
Note: Data gaps appear when the sonde is removed for calibration or when the flow depth is below the sensors

REPORT GENERATED ON 11/21/2023

Continuous Water Quality Monitoring Periodic Report

Gills Creek B (October 4, 2023 - November 7, 2023)

| PARAMETER | DESCRIPTION | CONTINUOUS WATER QUALITY PARAMETERS: | SUMMARY STATISTICS | | | | |
|---------------------------------|------------------------------------------|--------------------------------------------|---------------------|---------------------|--------------------|------------------|-----------------------|
| | | | MINIMUM OBSERVED | MAXIMUM OBSERVED | MEDIAN OBSERVED | MEAN OBSERVED | STANDARD DEVIATION |
| STREAM NAME: | Gills Creek | DISCHARGE (CFS): | 12.7 | 91.6 | 19.4 | 24.1 | 14.3 |
| LOCATION: | Devine Street bridge | TEMPERATURE (°F): | 57 | 79 | 67 | 67 | 4 |
| ADDRESS: | 4716 Devine Street Columbia, SC 29209 | TURBIDITY (NTU): | 6 | 35 | 12 | 13 | 3 |
| COORDINATES: | 33.989656, -80.97433 | pH: | 6.2 | 6.8 | 6.4 | 6.4 | 0.1 |
| TMDL/IMPAIRMENT: | Fecal & Dissolved Oxygen | SPECIFIC CONDUCTIVITY (mS/cm): | 0.044 | 0.058 | 0.050 | 0.051 | 0.002 |
| NEIGHBORING LANDUSE: | Residential and commercial | DISSOLVED OXYGEN (mg/L): | 5.3 | 8.6 | 7.5 | 7.3 | 0.7 |
| APPROX. DRAINAGE AREA: | 59 square miles | | | | | | |
| SPATIAL LOCATION: | Middle site | | | | | | |
| TOTAL NO. STORMS OVER 0.1 INCH: | 3 | | | | | | |
| MAX. DAILY RAINFALL: | 1.3 inches | | | | | | |
| TOTAL RAINFALL (FOR PERIOD): | 1.8 inches | | | | | | |



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

REPORT GENERATED ON 11/21/2023

Continuous Water Quality
Monitoring Periodic Report

Gills Creek B (October 4, 2023 - November 7, 2023)

Explanation of Statistics:

| | |
|--------------------|--------------------------------------------------------------------------------------------|
| MINIMUM OBSERVED | The minimum of the values recorded by the datasonde in 15 minute intervals. |
| MAXIMUM 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 DEVIATION | The standard deviation of all the values recorded by the datasonde in 15 minute intervals. |

Sampled Data: No grab samples were collected during this monitoring period.

| Analyte (units) | | | | | | | | |
|----------------------------------------|------|---------|------|---------|------|---------|------|---------|
| | Time | Results | Time | Results | Time | Results | Time | Results |
| <i>Escherichia coli</i> (MPN/100mL) | | | | | | | | |
| Total Suspended Solids (mg/L) | | | | | | | | |
| Total Phosphorus (mg/L) | | | | | | | | |
| Total Nitrogen (mg/L) | | | | | | | | |

Notes:

Data Gaps

There was a data gap in all water quality parameters from 10/9 - 10/11 due to instrumentation malfunction.

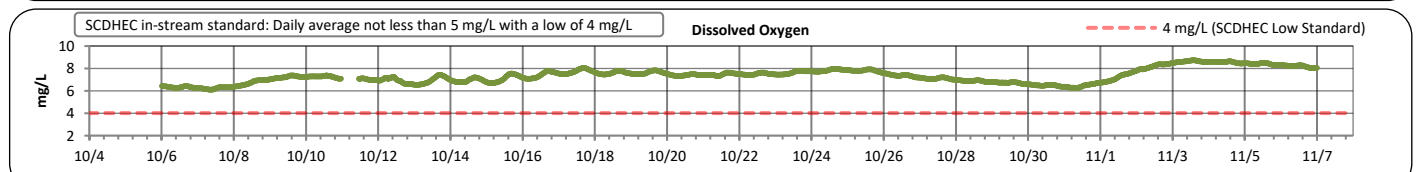
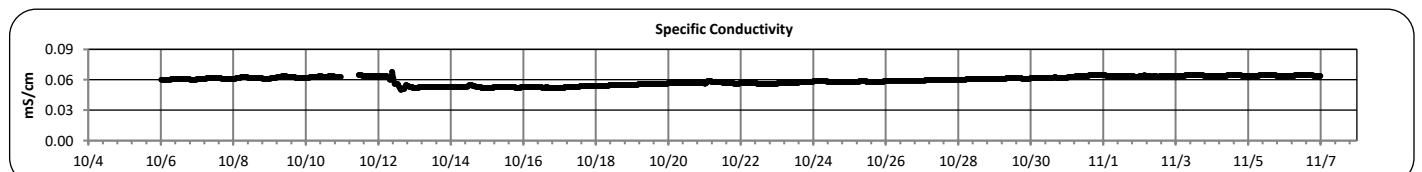
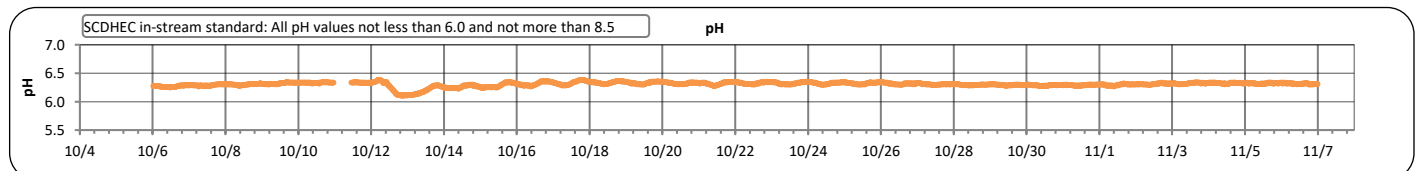
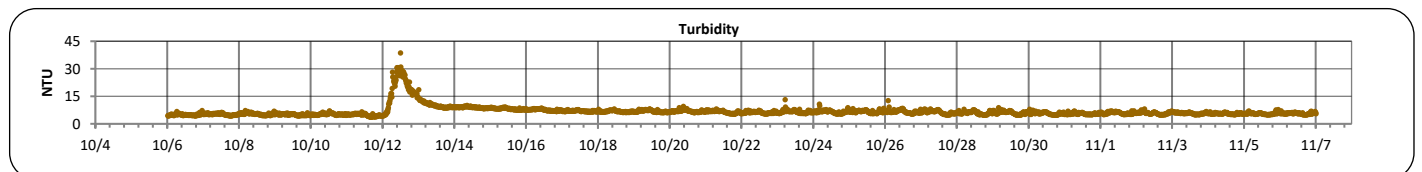
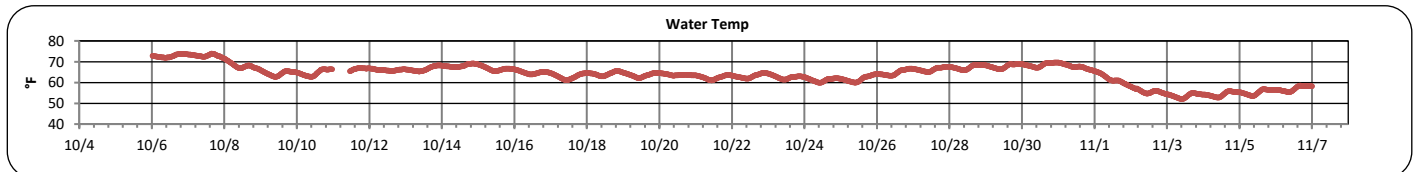
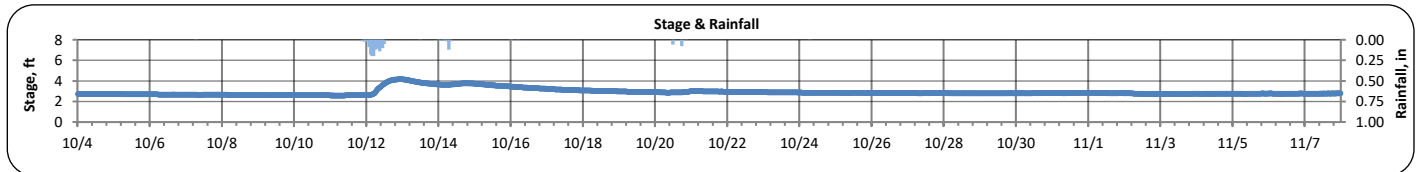
Potential Illicit Discharges and Abnormal Events:

Specific conductivity increased on 10/26, which may have been the result of a potential illicit discharge.

Continuous Water Quality Monitoring Periodic Report

Gills Creek C (October 4, 2023 - November 7, 2023)

| PARAMETER | DESCRIPTION | CONTINUOUS WATER QUALITY PARAMETERS: | SUMMARY STATISTICS | | | | |
|------------------------------------|--------------------------------------|--------------------------------------------|---------------------|---------------------|--------------------|------------------|-----------------------|
| | | | MINIMUM OBSERVED | MAXIMUM OBSERVED | MEDIAN OBSERVED | MEAN OBSERVED | STANDARD DEVIATION |
| STREAM NAME: | Gills Creek | STAGE (FT): | 2.6 | 4.2 | 2.8 | 2.9 | 0.3 |
| LOCATION: | Bluff Road bridge | TEMPERATURE (°F): | 52 | 74 | 65 | 64 | 5 |
| ADDRESS: | 3009 Bluff Rd. Columbia, SC 29209 | TURBIDITY (NTU): | 4 | 39 | 6 | 7 | 3 |
| COORDINATES: | 33.948043, -80.9889 | pH: | 6.1 | 6.4 | 6.3 | 6.3 | 0.0 |
| TMDL/IMPAIRMENT: | Fecal & Dissolved Oxygen | SPECIFIC CONDUCTIVITY (mS/cm): | 0.050 | 0.068 | 0.060 | 0.059 | 0.004 |
| NEIGHBORING LANDUSE: | Residential and commercial | DISSOLVED OXYGEN (mg/L): | 6.1 | 8.8 | 7.4 | 7.4 | 0.6 |
| APPROX. DRAINAGE AREA: | 64 square miles | | | | | | |
| SPATIAL LOCATION: | Most downstream site | | | | | | |
| TOTAL NO. STORMS OVER 0.1 INCH: | 2 | | | | | | |
| MAX. DAILY RAINFALL: | 1.38 inches | | | | | | |
| TOTAL RAINFALL (FOR PERIOD): | 1.9 inches | | | | | | |



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

REPORT GENERATED ON 11/21/2023

**Continuous Water Quality
Monitoring Periodic Report**

Gills Creek C (October 4, 2023 - November 7, 2023)

Explanation of Statistics:

| | |
|---------------------------|--------------------------------------------------------------------------------------------|
| MINIMUM OBSERVED | The minimum of the values recorded by the datasonde in 15 minute intervals. |
| MAXIMUM 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 DEVIATION | The standard deviation of all the values recorded by the datasonde in 15 minute intervals. |

Sampled Data: No grab samples were collected during this monitoring period.

| Analyte (units) | | | | | | | | |
|----------------------------------------|------|---------|------|---------|------|---------|------|---------|
| | | | | | | | | |
| | Time | Results | Time | Results | Time | Results | Time | Results |
| <i>Escherichia coli</i> (MPN/100mL) | | | | | | | | |
| Total Suspended Solids (mg/L) | | | | | | | | |
| Total Phosphorus (mg/L) | | | | | | | | |
| Total Nitrogen (mg/L) | | | | | | | | |

Notes:

Data Gaps

There was a data gap in DO, pH, specific conductivity and temperature from 10/10 - 10/11 due to a sensor malfunction.

Potential Illicit Discharges and Abnormal Events:

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