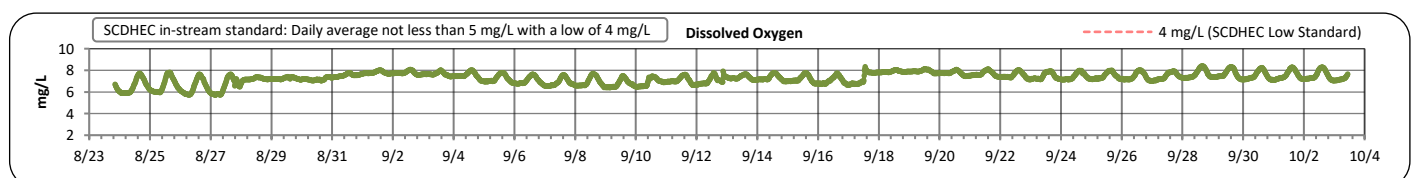
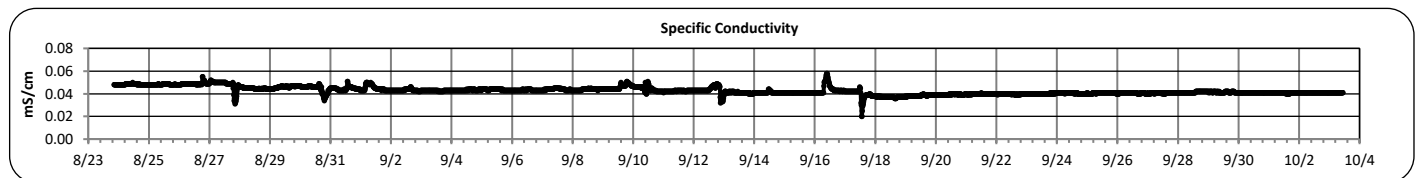
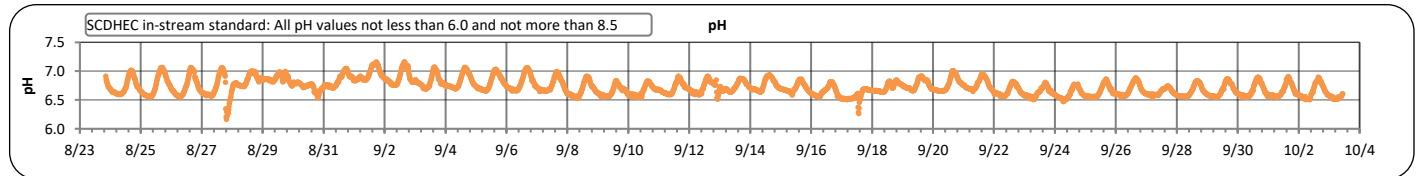
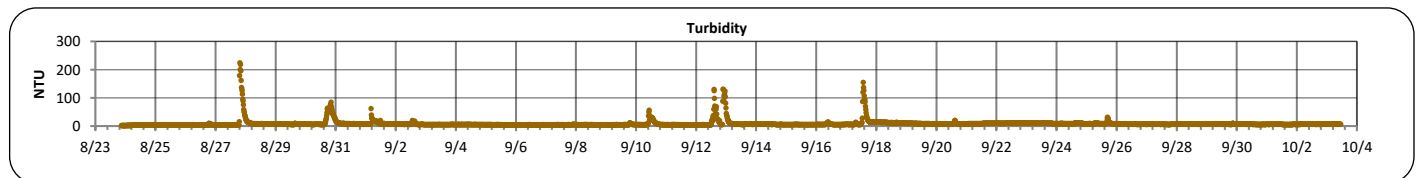
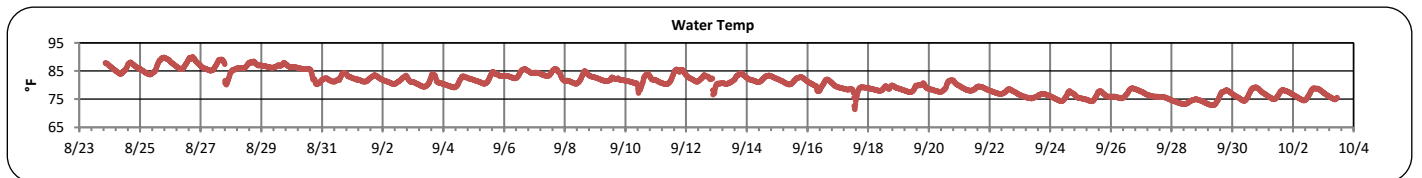
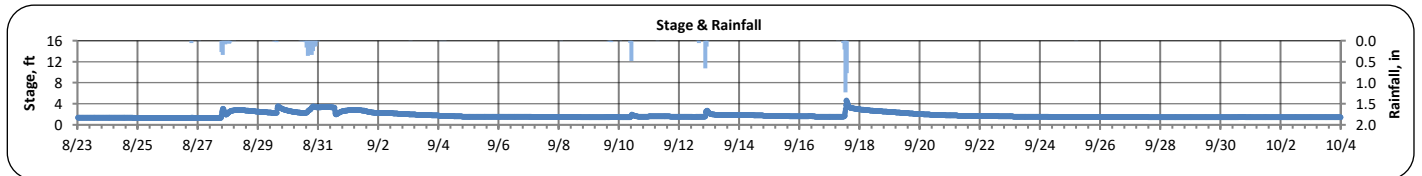


# Continuous Water Quality Monitoring Periodic Report

Gills Creek A (August 23, 2023 - October 3, 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):	1.3	4.7	1.6	1.8	0.5
LOCATION:	Forest Drive Bridge	TEMPERATURE (°F):	71	90	81	81	4
ADDRESS:	4840 Forest Drive, Columbia, SC 29206	TURBIDITY (NTU):	3	224	7	9	13
COORDINATES:	34.019826, -80.963566	pH:	6.2	7.6	6.7	6.7	0.1
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen	SPECIFIC CONDUCTIVITY (mS/cm):	0.020	0.058	0.042	0.043	0.003
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	5.7	8.4	7.4	7.3	0.5
APPROX. DRAINAGE AREA:	48 square miles						
SPATIAL LOCATION:	Most upstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	5						
MAX. DAILY RAINFALL:	2.3 inches						
TOTAL RAINFALL (FOR PERIOD):	6.8 inches						



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

REPORT GENERATED ON 10/24/2023

**Continuous Water Quality  
Monitoring Periodic Report**

**Gills Creek A (August 23, 2023 - October 3, 2023)**

**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:** All samples were collected during wet weather conditions.

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	8/30/2023		8/30/2023		8/30/2023		8/30/2023	
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	11:35	104	13:55	40	14:45	220	15:50	4,200
Total Suspended Solids (mg/L)	11:35	6.7	13:55	7.2	14:45	6.8	15:50	30
Total Phosphorus (mg/L)	11:35	0.027	13:55	0.030	14:45	0.034	15:50	0.056
Total Nitrogen (mg/L)	11:35	0.63	13:55	0.65	14:45	0.64	15:50	2.22

**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 which may have been the result of illicit discharges.

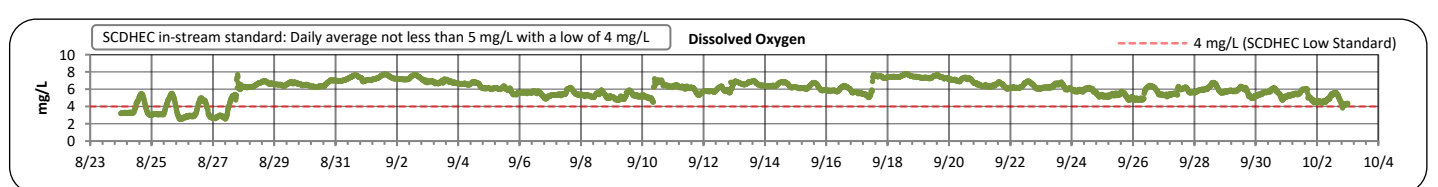
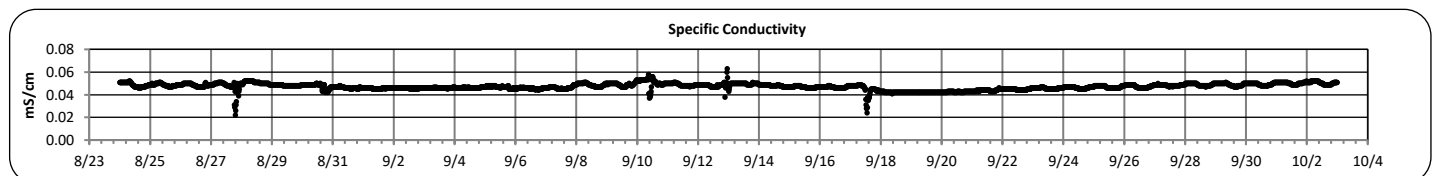
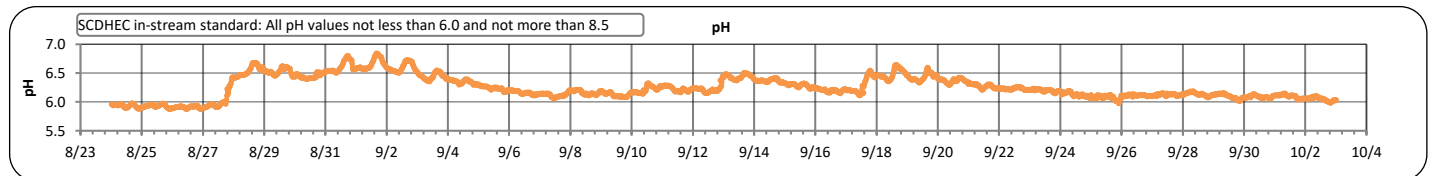
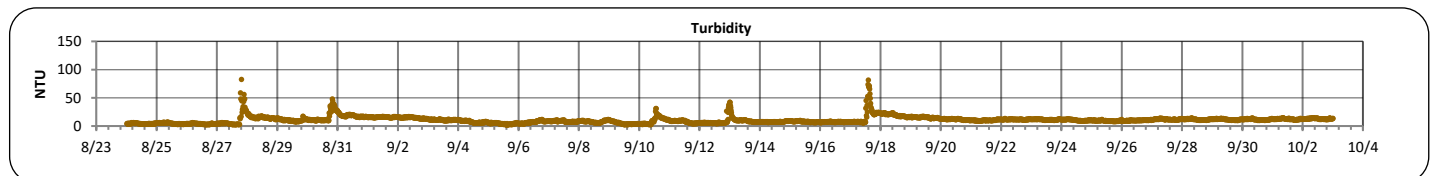
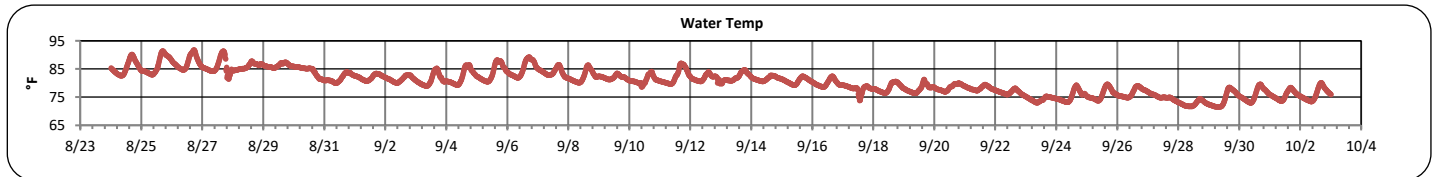
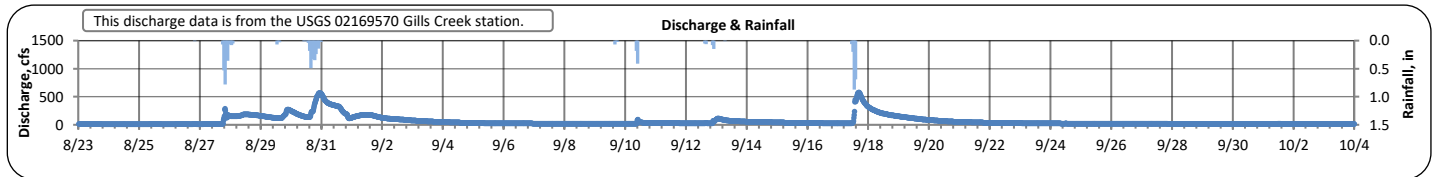
Note: Data gaps appear when the sonde is removed for calibration or when the flow depth is below the sensors

REPORT GENERATED ON 10/24/2023

# Continuous Water Quality Monitoring Periodic Report

**Gills Creek B (August 23, 2023 - October 3, 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	579.0	27.9	64.4	86.6
LOCATION:	Devine Street bridge	TEMPERATURE (°F):	72	92	81	80	4
ADDRESS:	4716 Devine Street Columbia, SC 29209	TURBIDITY (NTU):	2	83	11	11	6
COORDINATES:	33.989656, -80.97433	pH:	5.9	6.8	6.2	6.3	0.2
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen	SPECIFIC CONDUCTIVITY (mS/cm):	0.022	0.063	0.047	0.047	0.003
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	2.6	7.8	6.1	6.0	1.1
APPROX. DRAINAGE AREA:	59 square miles						
SPATIAL LOCATION:	Middle site						
TOTAL NO. STORMS OVER 0.1 INCH:	8						
MAX. DAILY RAINFALL:	2.0 inches						
TOTAL RAINFALL (FOR PERIOD):	7.0 inches						



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

REPORT GENERATED ON 10/24/2023

**Continuous Water Quality  
Monitoring Periodic Report**

**Gills Creek B (August 23, 2023 - October 3, 2023)**

**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:** All samples were collected during wet weather conditions.

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	8/30/2023		8/30/2023		8/30/2023		8/30/2023	
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	11:20	82	13:35	148	14:30	346	15:30	3,060
Total Suspended Solids (mg/L)	11:20	15.2	13:35	13.7	14:30	14.0	15:30	16.0
Total Phosphorus (mg/L)	11:20	0.057	13:35	0.060	14:30	0.54	15:30	0.066
Total Nitrogen (mg/L)	11:20	0.74	13:35	0.73	14:30	0.70	15:30	0.76

**Notes:**

Data Gaps

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

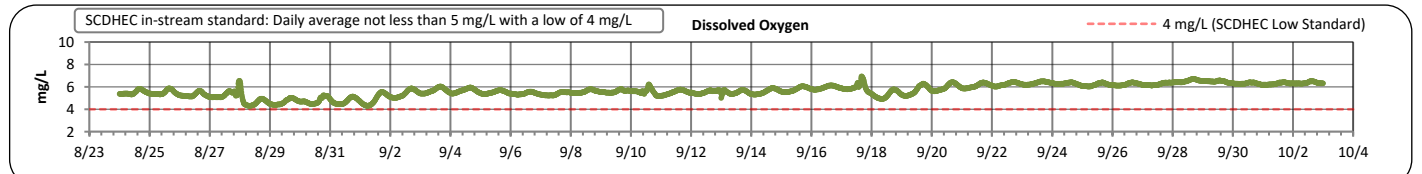
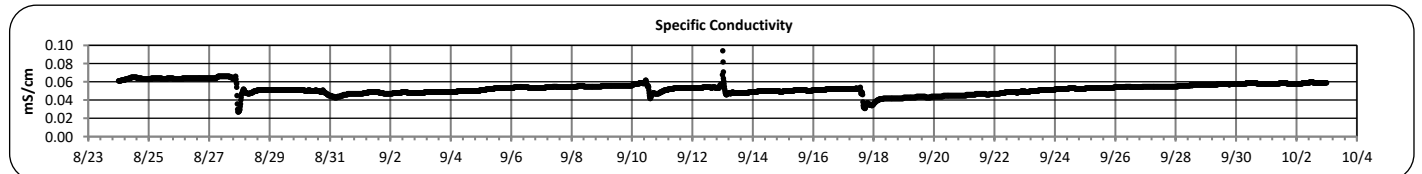
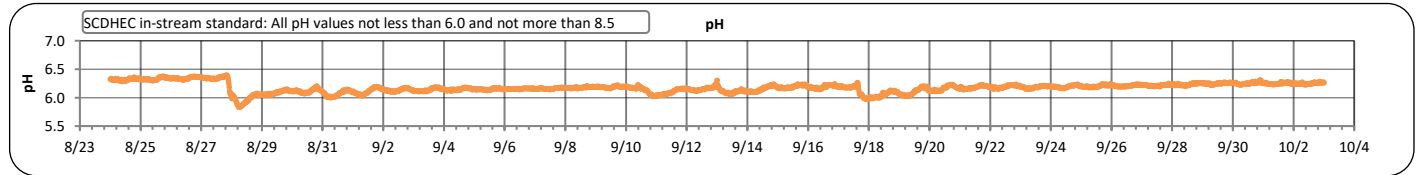
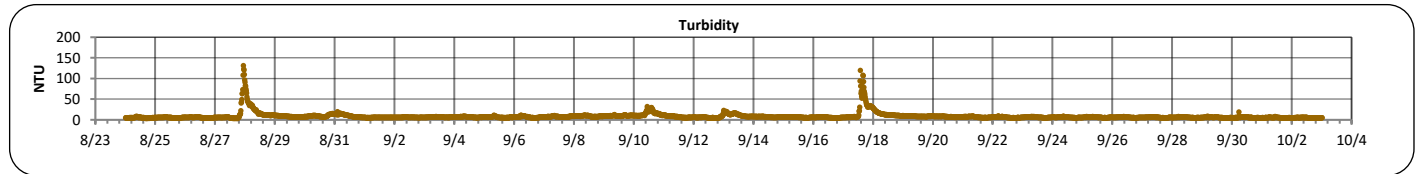
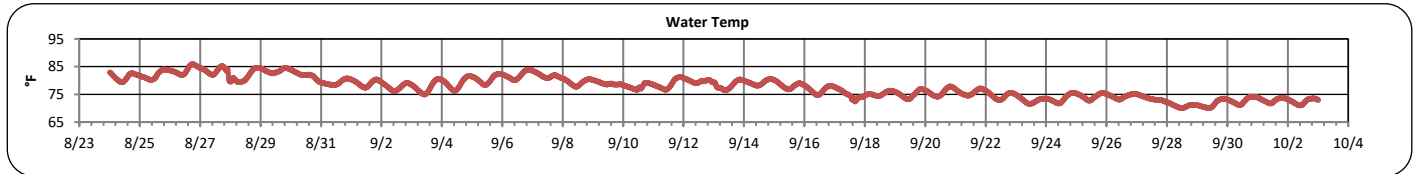
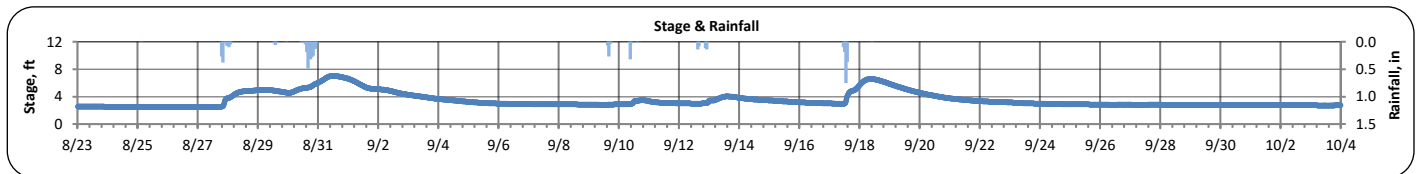
Potential Illicit Discharges and Abnormal Events:

Specific conductivity increased on 9/13, which may have been the result of a potential illicit discharge.

# Continuous Water Quality Monitoring Periodic Report

**Gills Creek C (August 23, 2023 - October 3, 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):	2.5	7.1	3.0	3.5	1.1
LOCATION:	Bluff Road bridge	TEMPERATURE (°F):	70	86	78	78	4
ADDRESS:	3009 Bluff Rd. Columbia, SC 29209	TURBIDITY (NTU):	4	132	7	9	9
COORDINATES:	33.948043, -80.9889	pH:	5.8	6.4	6.2	6.2	0.1
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen	SPECIFIC CONDUCTIVITY (mS/cm):	0.027	0.094	0.051	0.052	0.006
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	4.3	7.0	5.6	5.6	0.5
APPROX. DRAINAGE AREA:	64 square miles						
SPATIAL LOCATION:	Most downstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	8						
MAX. DAILY RAINFALL:	1.95 inches						
TOTAL RAINFALL (FOR PERIOD):	5.8 inches						



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

REPORT GENERATED ON 10/24/2023

**Continuous Water Quality  
Monitoring Periodic Report**

**Gills Creek C (August 23, 2023 - October 3, 2023)**

**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:** All samples were collected during wet weather conditions.

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	8/30/2023		8/30/2023		8/30/2023		8/30/2023	
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	10:28	346	13:35	170	14:37	350	16:16	538
Total Suspended Solids (mg/L)	10:28	9.8	13:35	10.2	14:37	8.5	16:16	11.0
Total Phosphorus (mg/L)	10:28	0.063	13:35	0.061	14:37	0.063	16:16	0.067
Total Nitrogen (mg/L)	10:28	0.65	13:35	0.66	14:37	0.66	16:16	0.65

**Notes:**

Data Gaps

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

Potential Illicit Discharges and Abnormal Events:

Specific conductivity increased on 9/13, which may have been the result of a potential illicit discharge.

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

REPORT GENERATED ON 10/24/2023