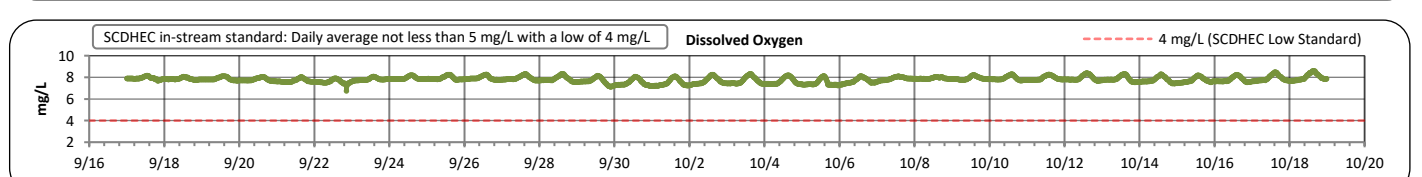
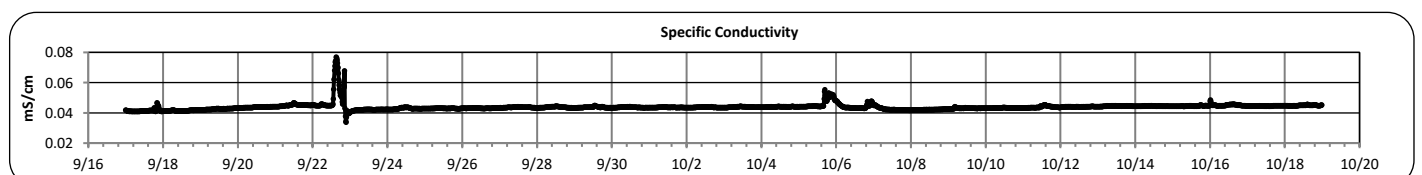
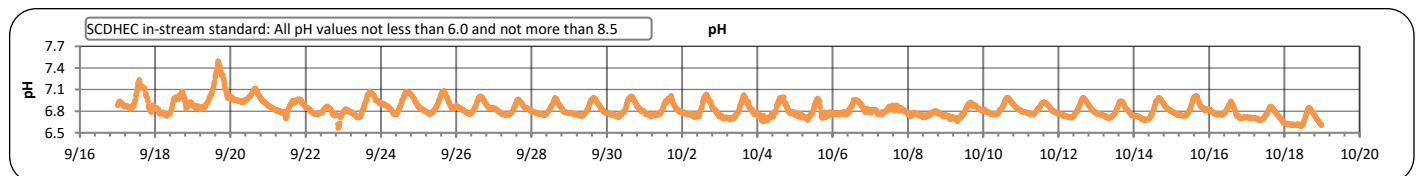
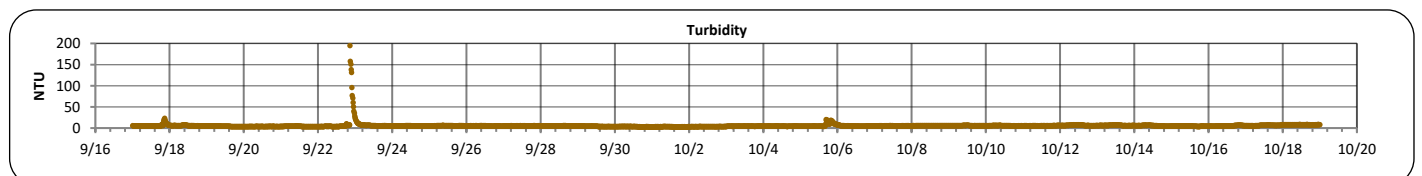
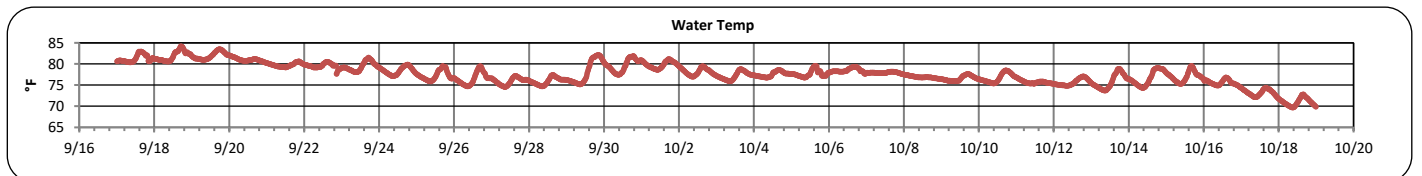
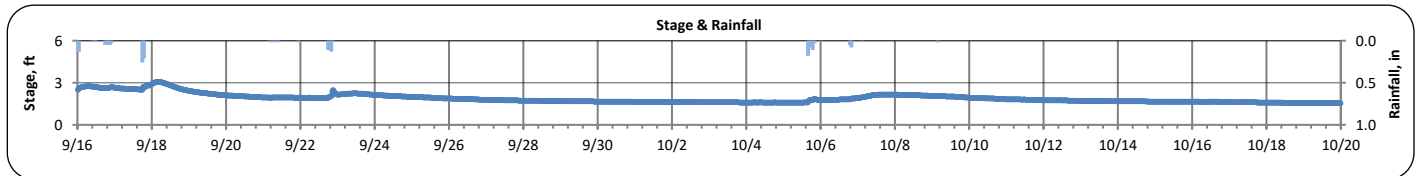


Continuous Water Quality Monitoring Periodic Report

Gills Creek A (September 16, 2021 - October 19, 2021)

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Gills Creek	STAGE (FT):	1.6	3.1	1.8	1.9	0.3
LOCATION:	Forest Drive Bridge	TEMPERATURE (°F):	70	84	78	78	3
ADDRESS:	4840 Forest Drive, Columbia, SC 29206	TURBIDITY (NTU):	3	195	5	6	7
COORDINATES:	34.019826, -80.963566	pH:	6.6	7.5	6.8	6.8	0.1
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen	SPECIFIC CONDUCTIVITY (mS/cm):	0.034	0.077	0.044	0.044	0.002
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	6.8	8.6	7.8	7.8	0.3
APPROX. DRAINAGE AREA:	48 square miles						
SPATIAL LOCATION:	Most upstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	6						
MAX. DAILY RAINFALL:	0.5 inches						
TOTAL RAINFALL (FOR PERIOD):	2.2 inches						



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

REPORT GENERATED ON 11/19/2021

**Continuous Water Quality
Monitoring Periodic Report**

Gills Creek A (September 16, 2021 - October 19, 2021)

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:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	9/21/2021		9/21/2021					
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	10:35	82	12:24	194				
Total Suspended Solids (mg/L)	10:35	10.5	12:24	6				
Total Phosphorus (mg/L)	10:35	0.035	12:24	0.032				
Total Nitrogen (mg/L)	10:35	0.557	12:24	0.524				

All samples were collected during wet weather conditions.

Notes:

Data Gaps

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

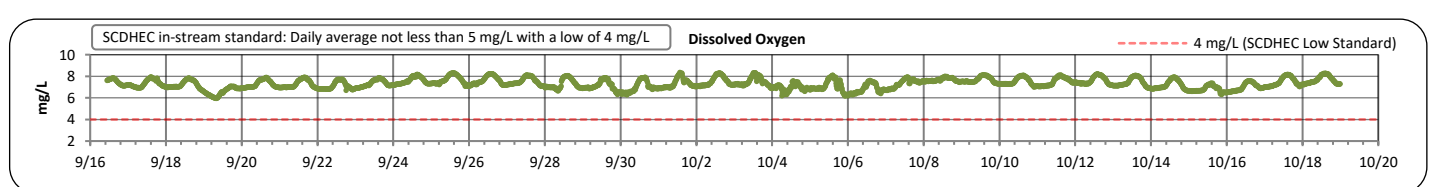
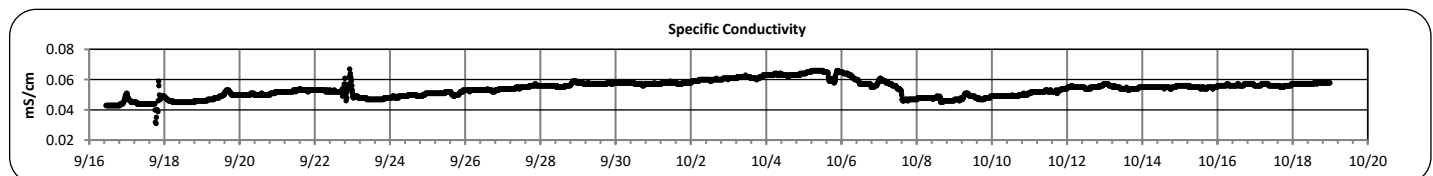
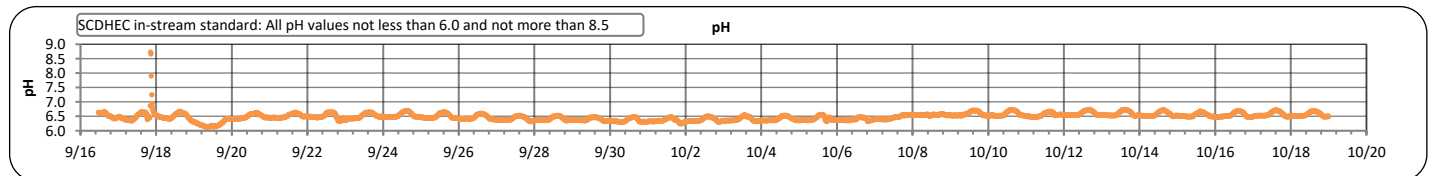
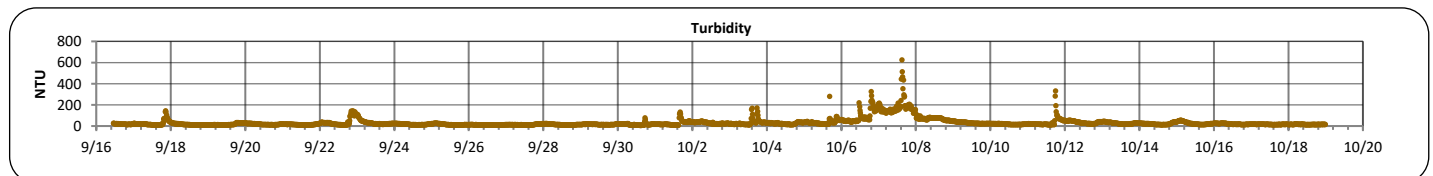
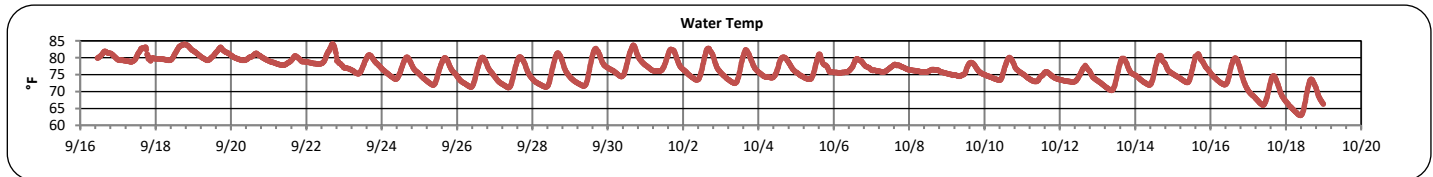
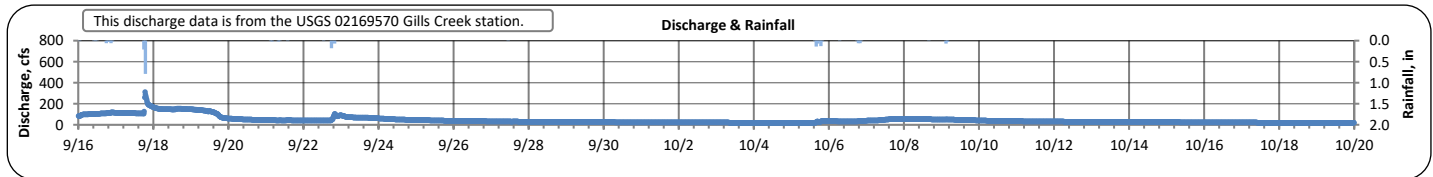
Potential Illicit Discharges and Abnormal Events:

The specific conductivity increased on September 22nd and October 5th, which may have been the result of illicit discharges.

Continuous Water Quality Monitoring Periodic Report

Gills Creek B (September 16, 2021 - October 19, 2021)

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Gills Creek	DISCHARGE (CFS):	19.1	313.0	33.5	45.6	34.3
LOCATION:	Devine Street bridge	TEMPERATURE (°F):	63	84	76	76	4
ADDRESS:	4716 Devine Street Columbia, SC 29209	TURBIDITY (NTU):	7	626	20	33	40
COORDINATES:	33.989656, -80.97433	pH:	6.1	8.7	6.5	6.5	0.1
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen	SPECIFIC CONDUCTIVITY (mS/cm):	0.031	0.067	0.055	0.054	0.005
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	6.0	8.4	7.3	7.3	0.5
APPROX. DRAINAGE AREA:	59 square miles						
SPATIAL LOCATION:	Middle site						
TOTAL NO. STORMS OVER 0.1 INCH:	7						
MAX. DAILY RAINFALL:	1.0 inches						
TOTAL RAINFALL (FOR PERIOD):	2.8 inches						



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

REPORT GENERATED ON 11/19/2021

**Continuous Water Quality
Monitoring Periodic Report**

Gills Creek B (September 16, 2021 - October 19, 2021)

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:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	9/20/2021		9/21/2021		9/21/2021			
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	11:53	406	10:12	610	11:54	398		
Total Suspended Solids (mg/L)	11:53	19.7	10:12	15.6	11:54	18.7		
Total Phosphorus (mg/L)			10:12	0.051	11:54	0.039		
Total Nitrogen (mg/L)			10:12	0.766	11:54	0.597		

Sample 1 was collected during dry weather conditions. Samples 2 and 3 were collected during wet weather conditons.

Notes:

Data Gaps

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

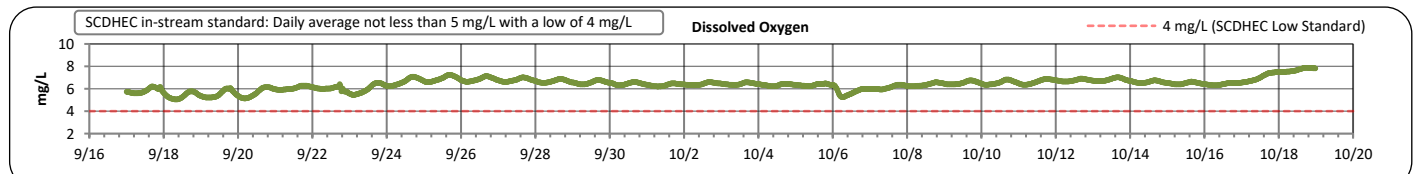
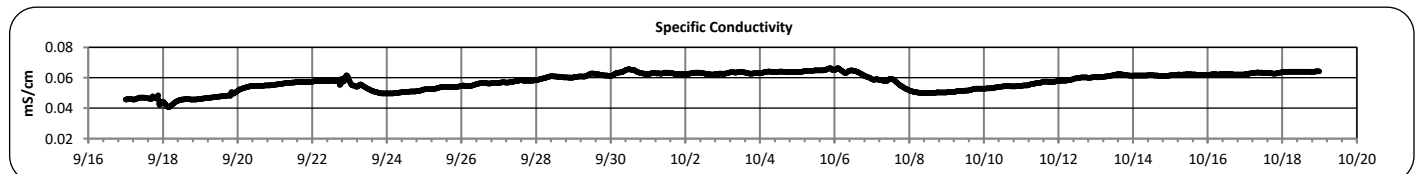
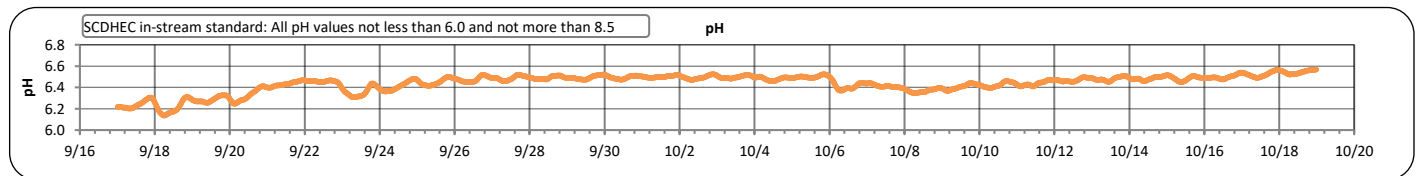
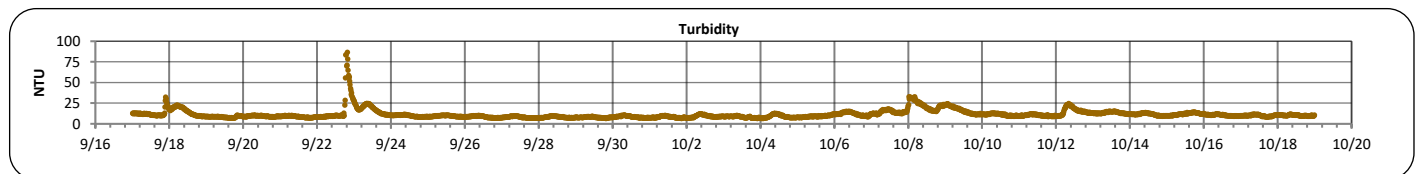
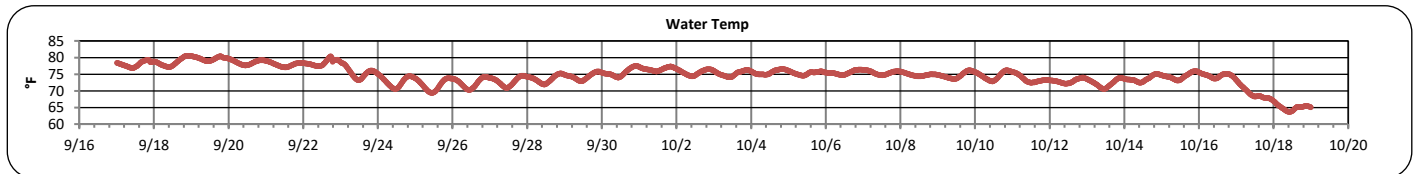
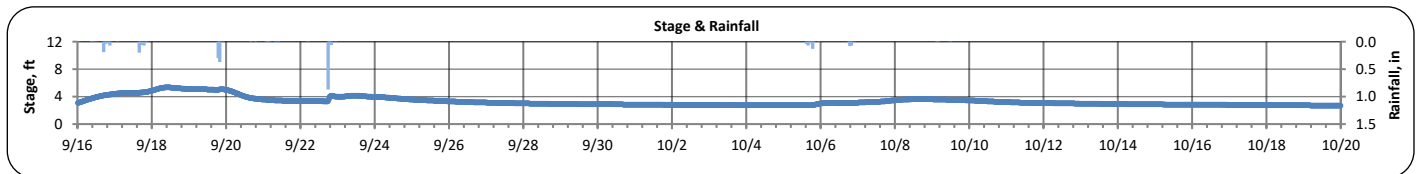
Potential Illicit Discharges and Abnormal Events:

The specific conductivity parameter increased on September 17th and September 22nd, which may have been the result of illicit discharges.

Continuous Water Quality Monitoring Periodic Report

Gills Creek C (September 16, 2021 - October 19, 2021)

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Gills Creek	STAGE (FT):	2.7	5.4	3.1	3.3	0.7
LOCATION:	Bluff Road bridge	TEMPERATURE (°F):	64	81	75	75	3
ADDRESS:	3009 Bluff Rd. Columbia, SC 29209	TURBIDITY (NTU):	7	87	10	12	6
COORDINATES:	33.948043, -80.9889	pH:	6.1	6.6	6.5	6.4	0.1
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen	SPECIFIC CONDUCTIVITY (mS/cm):	0.041	0.066	0.059	0.058	0.006
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	5.1	7.9	6.5	6.4	0.5
APPROX. DRAINAGE AREA:	64 square miles						
SPATIAL LOCATION:	Most downstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	7						
MAX. DAILY RAINFALL:	0.96 inches						
TOTAL RAINFALL (FOR PERIOD):	3.4 inches						



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

REPORT GENERATED ON 11/19/2021

**Continuous Water Quality
Monitoring Periodic Report**

Gills Creek C (September 16, 2021 - October 19, 2021)

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:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	9/20/2021		9/21/2021		9/21/2021		9/21/2021	
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	12:13	82	9:45	150	11:45	172	13:15	126
Total Suspended Solids (mg/L)	12:13	10.7	9:45	11	11:45	7.5	13:15	7.4
Total Phosphorus (mg/L)			9:45	0.053	11:45	0.046	13:15	0.047
Total Nitrogen (mg/L)			9:45	0.663	11:45	0.706	13:15	0.751

Sample 1 was collected during dry weather conditions. Samples 2-4 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:

The specific conductivity increased on September 22nd, which may have the result of an illicit discharge.