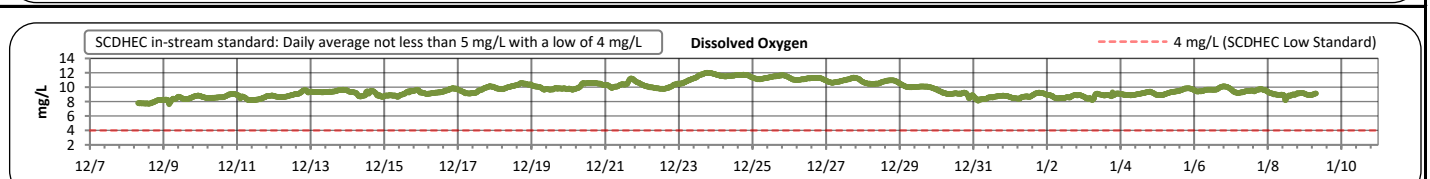
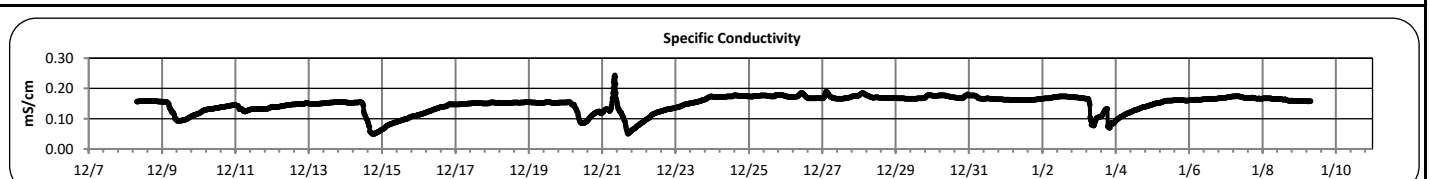
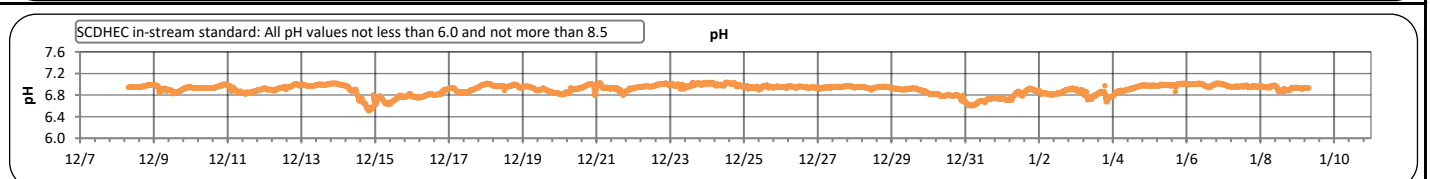
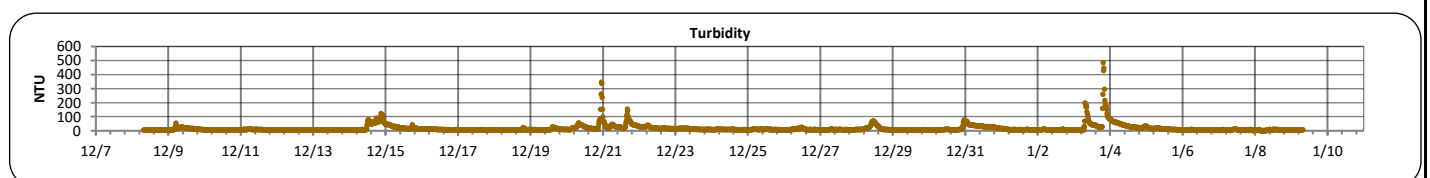
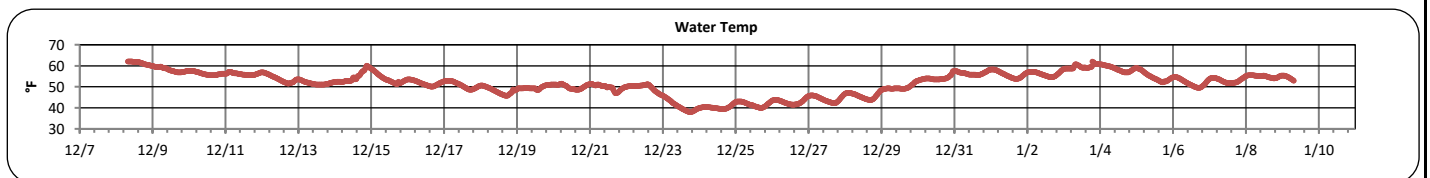
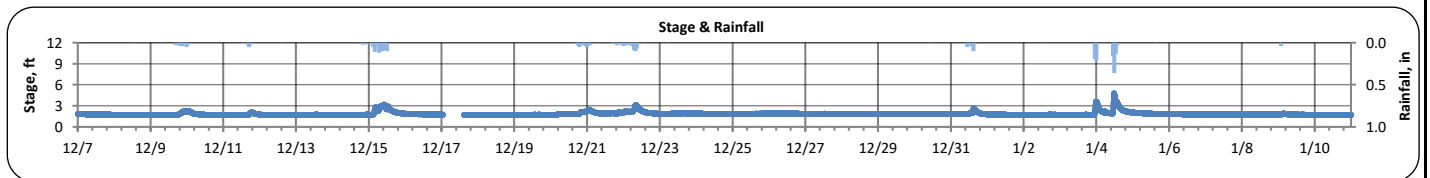


Continuous Water Quality Monitoring Periodic Report

Smith Branch A (December 7, 2022 - January 10, 2023)

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Smith Branch	STAGE (FT):	1.7	4.8	1.8	1.9	0.2
LOCATION:	Earlewood Park	TEMPERATURE (°F):	38	62	52	52	6
ADDRESS:	1111 Parkside Dr Columbia, SC 29201	TURBIDITY (NTU):	0	487	9	17	27
COORDINATES:	34.027289,-81.04265	pH:	6.5	7.0	6.9	6.9	0.1
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.050	0.244	0.155	0.148	0.028
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	7.7	12.1	9.5	9.7	1.0
SPATIAL LOCATION:	Most upstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	8						
MAX. DAILY RAINFALL:	0.7 inches						
TOTAL RAINFALL (FOR PERIOD):	0.4 398.000						



**Continuous Water Quality
Monitoring Periodic Report**

Smith Branch A (December 7, 2022 - January 10, 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:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	1/4/2023		1/4/2023		1/4/2023		1/4/2023	
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	9:25	1,866	10:45	4,564	11:55	18,420	13:45	9,768
Total Suspended Solids (mg/L)	9:25	11.3	10:45	75.0	11:55	752.0	13:45	144.0
Total Phosphorus (mg/L)	9:25	0.10	10:45	0.54	11:55	0.82	13:45	0.27
Total Nitrogen (mg/L)	9:25	1.14	10:45	1.58	11:55	4.12	13:45	1.51

All samples were collected during wet weather conditions.

Notes:

Data Gaps

There was a gap in stage data on 12/17, likely due to equipment communication failure.

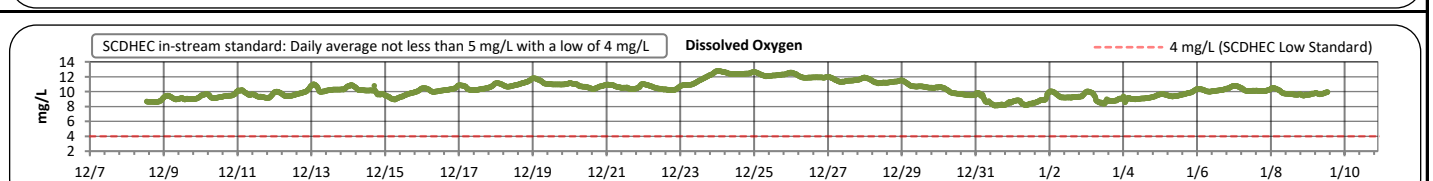
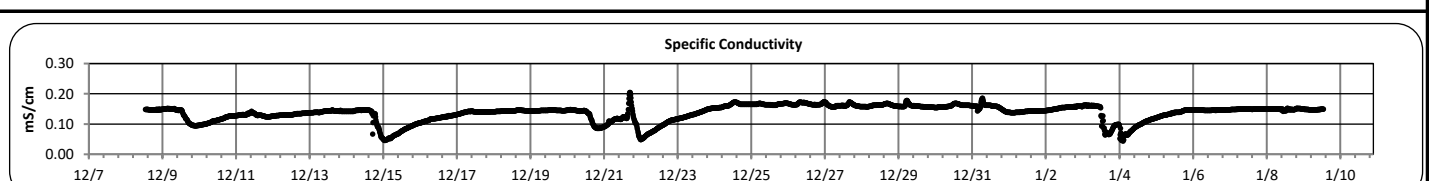
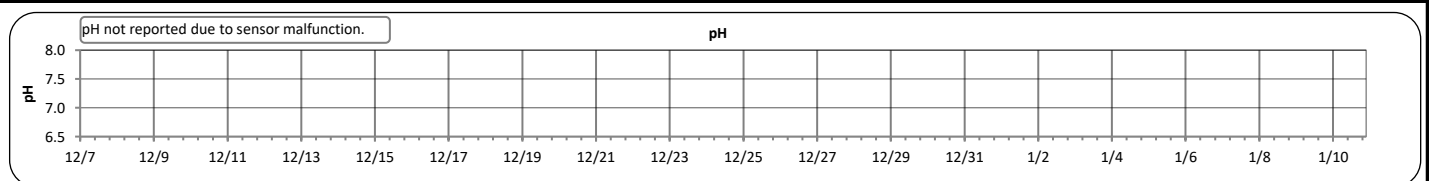
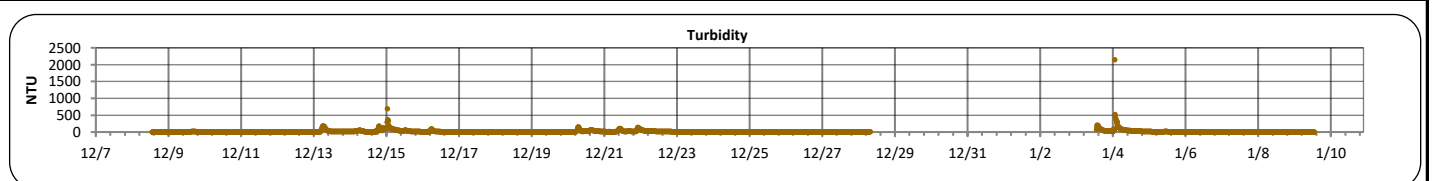
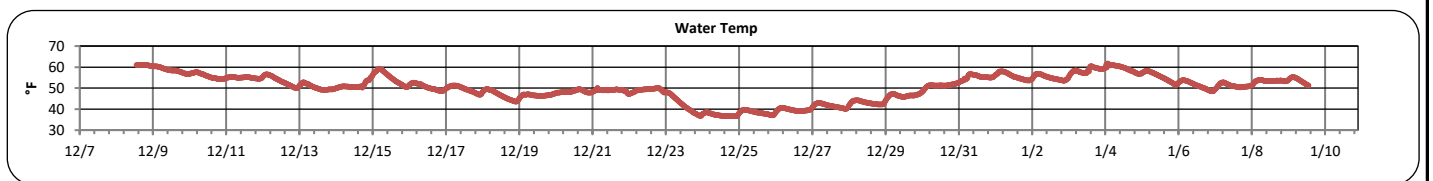
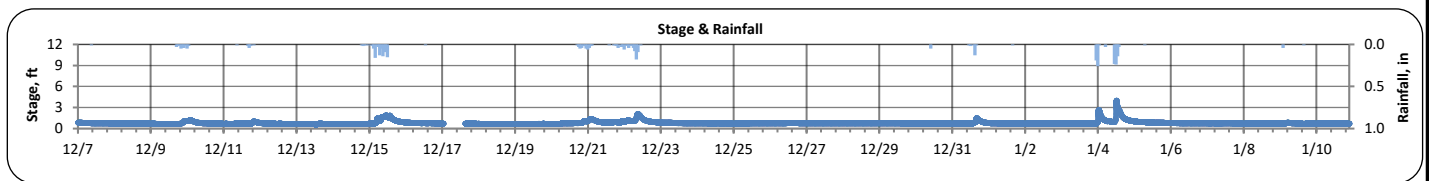
Potential Illicit Discharges and Abnormal Events:

Specific conductivity increased on 12/21, which may have been the result of a potential illicit discharge.

Continuous Water Quality Monitoring Periodic Report

Smith Branch B (December 7, 2022 - January 10, 2023)

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Smith Branch	STAGE (FT):	0.6	4.0	0.7	0.8	0.2
LOCATION:	Off Mountain Drive	TEMPERATURE (°F):	37	62	51	50	6
NEAREST ADDRESS:	3950 Clement Rd Columbia, SC 29203	TURBIDITY (NTU):	2	2147	10	21	56
COORDINATES:	34.037933,-81.0591	pH:	-	-	-	-	-
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.044	0.204	0.145	0.137	0.027
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	8.1	12.8	10.2	10.3	1.1
SPATIAL LOCATION:	Most Downstream Site						
TOTAL NO. STORMS OVER 0.1 INCH:	7						
MAX. DAILY RAINFALL:	0.8 inches						
TOTAL RAINFALL (FOR PERIOD):	0.4 398.000						



**Continuous Water Quality
Monitoring Periodic Report**

Smith Branch B (December 7, 2022 - January 10, 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:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	1/4/2023		1/4/2023		1/4/2023		1/4/2023	
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	9:00	6,152	10:35	4,196	11:40	14,540	13:20	11,590
Total Suspended Solids (mg/L)	9:00	17.6	10:35	17.2	11:40	520.0	13:20	326.0
Total Phosphorus (mg/L)	9:00	0.10	10:35	0.11	11:40	0.40	13:20	0.40
Total Nitrogen (mg/L)	9:00	0.87	10:35	0.98	11:40	2.24	13:20	2.14

All samples were collected during wet weather conditions.

Notes:

Data Gaps

There was a gap in turbidity from 12/28 - 1/3 due to fouling, and the pH probe was removed during the entire monitoring period due to sensor malfunction. There was a gap in stage data on 12/17, likely due to equipment communication failure.

Potential Illicit Discharges and Abnormal Events:

Specific conductivity increased on 12/21, which may have been the result of a potential illicit discharge.