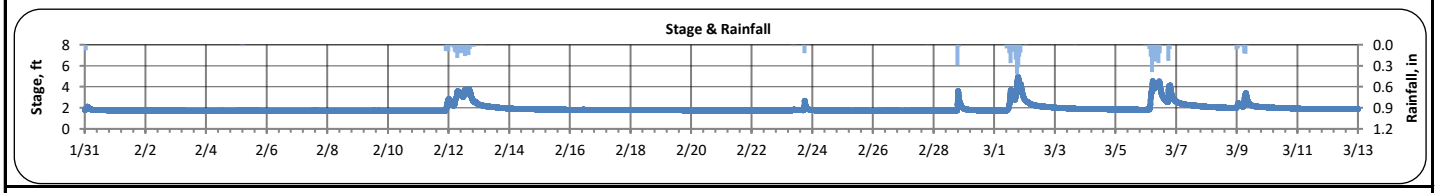
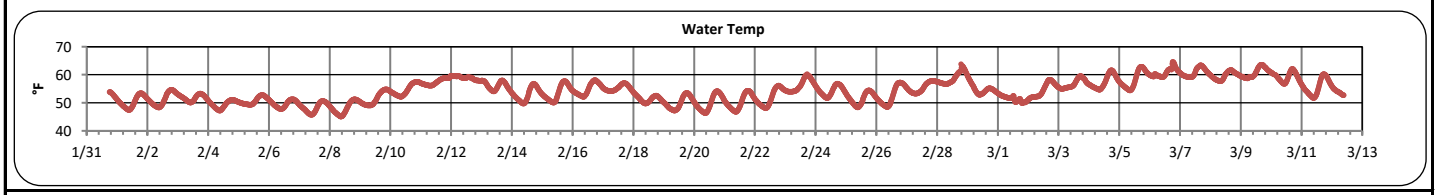
Continuous Water Quality
Monitoring Periodic Report

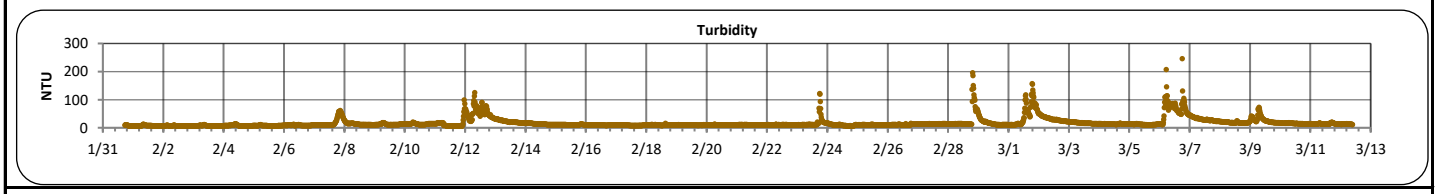
Smith Branch A (January 31, 2024 - March 12, 2024)

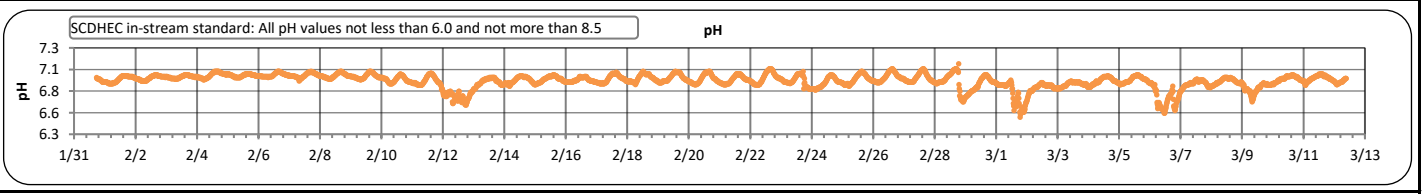
PARAMETER	DESCRIPTION
STREAM NAME:	Smith Branch
LOCATION:	Earlewood Park
ADDRESS:	1111 Parkside Dr Columbia, SC 29201
COORDINATES:	34.027289,-81.04265
TMDL/IMPAIRMENT:	Fecal Coliform
NEIGHBORING LANDUSE:	Residential and commercial
SPATIAL LOCATION:	Most upstream site
TOTAL NO. STORMS OVER 0.1 INCH:	7
MAX. DAILY RAINFALL:	2.2 inches
TOTAL RAINFALL (FOR PERIOD):	7.1 inches

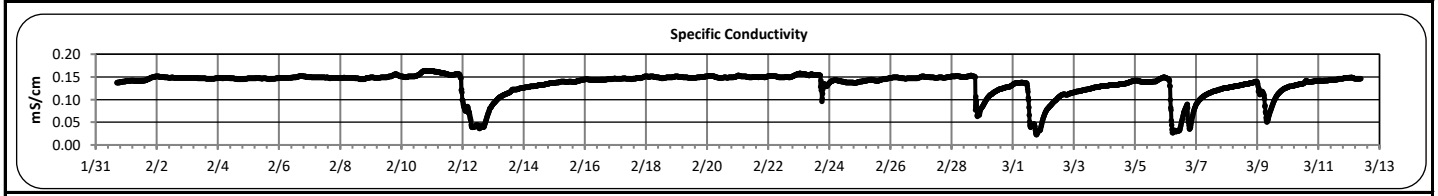
CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STAGE (FT):	1.7	5.0	1.8	1.9	0.3
TEMPERATURE (°F):	45	65	54	54	4
TURBIDITY (NTU):	6	247	12	18	18
pH:	6.5	7.1	6.9	6.9	0.1
SPECIFIC CONDUCTIVITY (mS/cm):	0.023	0.164	0.146	0.135	0.026
DISSOLVED OXYGEN (mg/L):	8.0	11.3	9.6	9.6	0.7

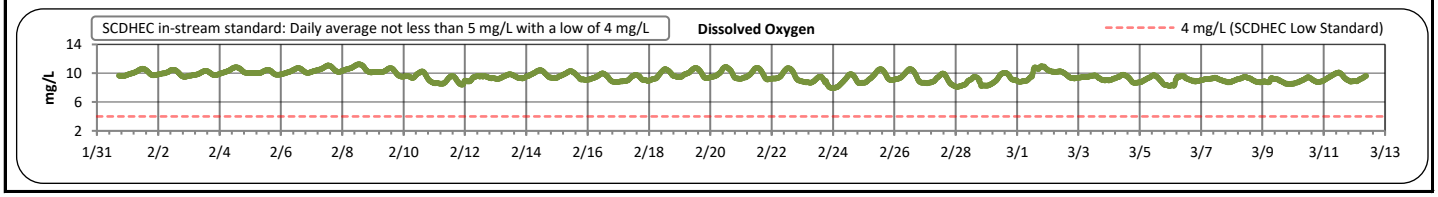












REPORT GENERATED ON 4/19/2024

Continuous Water Quality
Monitoring Periodic Report

Smith Branch A (January 31, 2024 - March 12, 2024)

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 samples were collected at SMI A during this monitoring period.

Analyte (units)								
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)								
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Notes:

Data Gaps

There were no data gaps during this monitoring period.

Potential Illicit Discharges and Abnormal Events:

No potential abnormal events were identified during this monitoring period.

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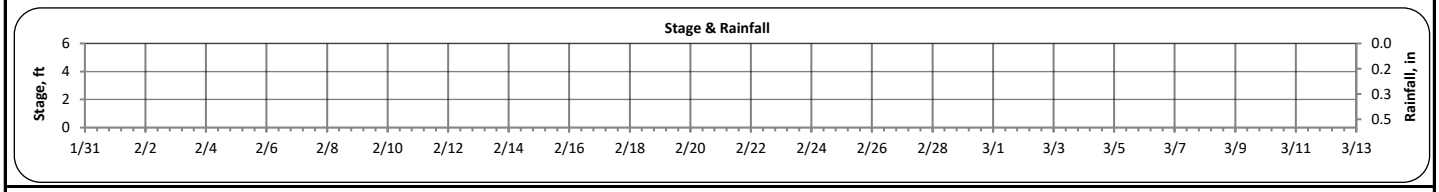
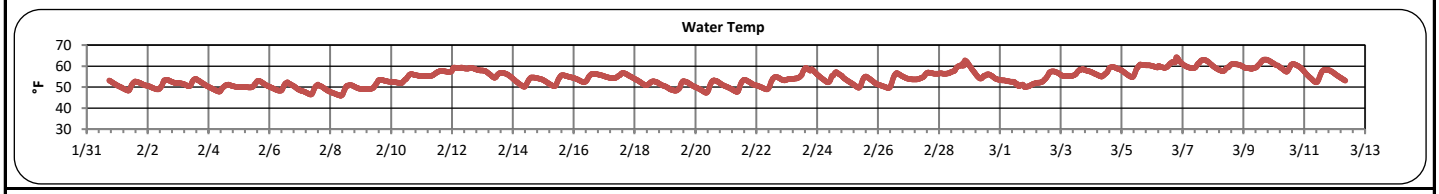
Continuous Water Quality
Monitoring Periodic Report

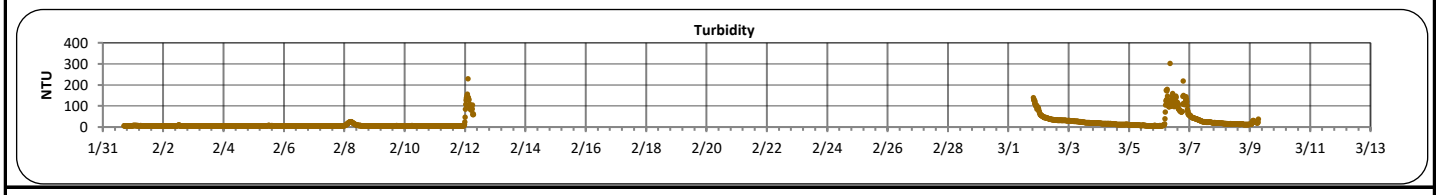
Smith Branch B (January 31, 2024 - March 12, 2024)

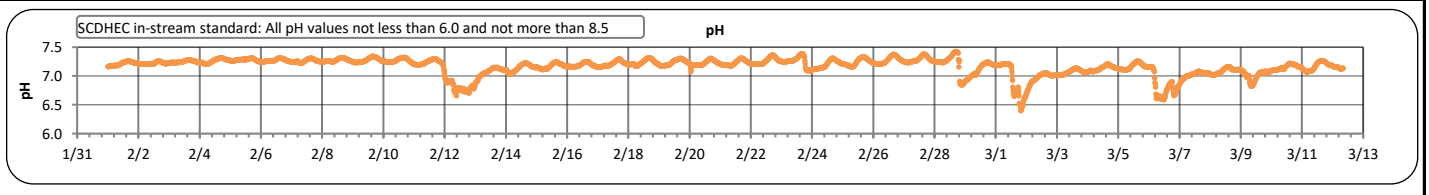
PARAMETER	DESCRIPTION
STREAM NAME:	Smith Branch
LOCATION:	Off Mountain Drive
NEAREST ADDRESS:	3950 Clement Rd Columbia, SC 29203
COORDINATES:	34.037933,-81.0591
TMDL/IMPAIRMENT:	Fecal Coliform
NEIGHBORING LANDUSE:	Residential and commercial
SPATIAL LOCATION:	Most Downstream Site
TOTAL NO. STORMS OVER 0.1 INCH:	1
MAX. DAILY RAINFALL:	- inches
TOTAL RAINFALL (FOR PERIOD):	- inches

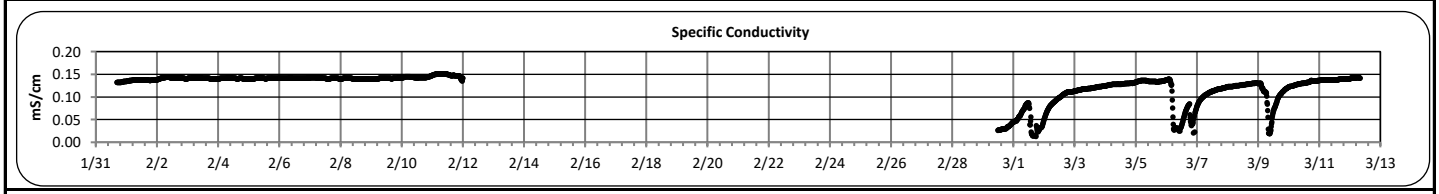
CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STAGE (FT):	-	-	-	-	-
TEMPERATURE (°F):	46	64	54	54	4
TURBIDITY (NTU):	5	303	7	19	28
pH:	6.4	7.4	7.2	7.2	0.1
SPECIFIC CONDUCTIVITY (mS/cm):	0.013	0.151	0.137	0.123	0.031
DISSOLVED OXYGEN (mg/L):	8.8	11.2	10.1	10.0	0.6

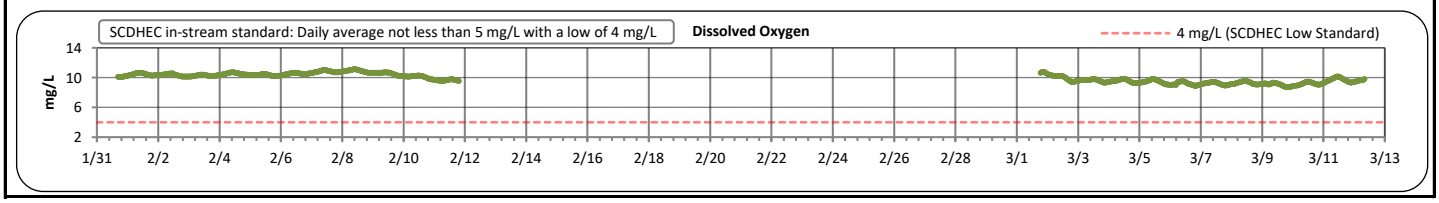












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Explanation of Statistics:

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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 samples were collected at SMI B during this monitoring period.

Analyte (units)								
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)								
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Notes:

Data Gaps

Maintenance crews could not respond to sensor fouling during this monitoring period due to telemetry issues. Stage and rainfall data reside in the on-site datalogger. This periodic report will be updated at a later date to include stage and rainfall data for the monitoring period. The water quality parameters: turbidity, specific conductivity, and DO data were removed from 2/13 through 3/31 due to inaccurate readings.

Potential Illicit Discharges and Abnormal Events:

No potential abnormal events were identified during this monitoring period.

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