Continuous Water Quality
Monitoring Periodic Report

Rocky Branch A (December 19, 2023 - January 30, 2024)

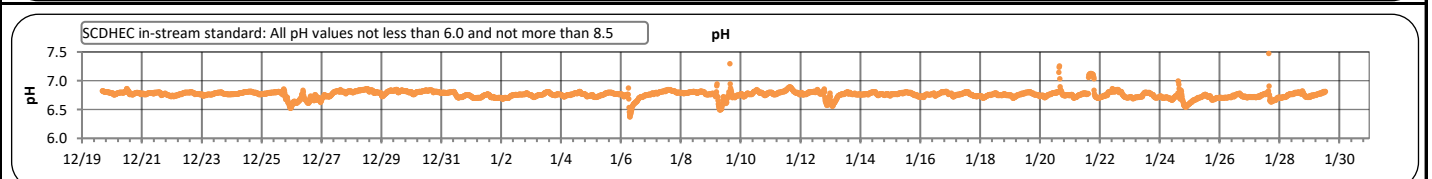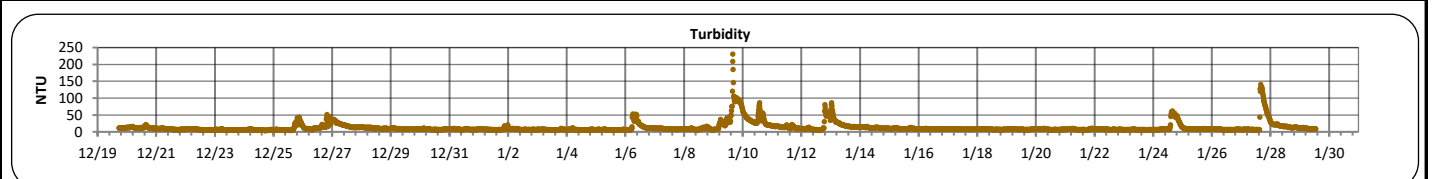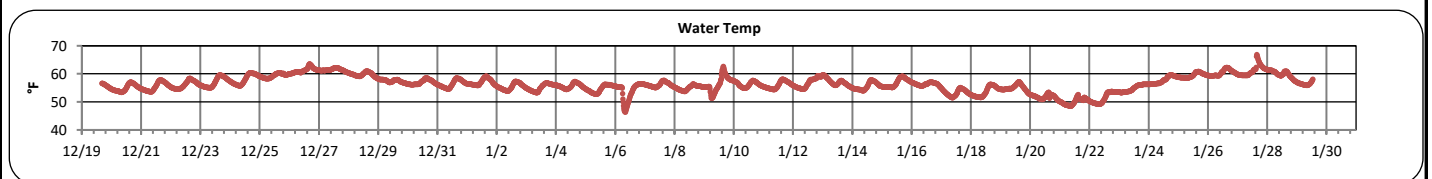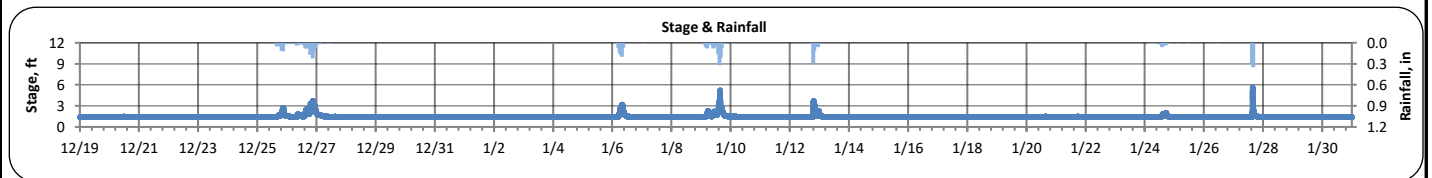| PARAMETER	DESCRIPTION
STREAM NAME:	Rocky Branch
LOCATION:	Maxcy Gregg Park
ADDRESS:	1650 Park Circle Columbia, SC 29201
COORDINATES:	33.995864, -81.021842
TMDL/IMPAIRMENT:	Fecal Coliform
NEIGHBORING LANDUSE:	Residential and commercial
SPATIAL LOCATION:	Most upstream site
TOTAL NO. STORMS OVER 0.1 INCH:	7
MAX. DAILY RAINFALL:	1.2 inches
TOTAL RAINFALL (FOR PERIOD):	4.9 inches

CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STAGE (FT):	1.4	5.3	1.4	1.5	0.2
TEMPERATURE (°F):	46	67	56	56	3
TURBIDITY (NTU):	4	231	8	13	15
pH:	6.4	7.5	6.8	6.8	0.1
SPECIFIC CONDUCTIVITY (mS/cm):	0.017	1.078	0.154	0.155	0.058
DISSOLVED OXYGEN (mg/L):	8.2	11.5	9.3	9.3	0.4

Stage & Rainfall

Water Temp

Turbidity

pH — SCDHEC in-stream standard: All pH values not less than 6.0 and not more than 8.5

Specific Conductivity

Dissolved Oxygen — SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L — 4 mg/L (SCDHEC Low Standard)

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

REPORT GENERATED ON 3/5/2024

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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	
	1/9/2024		1/9/2024		1/9/2024		1/9/2023	
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	9:31	618	10:31	3,450	12:36	3,320	13:46	2,420
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

All samples were collected during wet weather conditions.

Notes:

Data Gaps

There were no data gaps during this monitoring period.

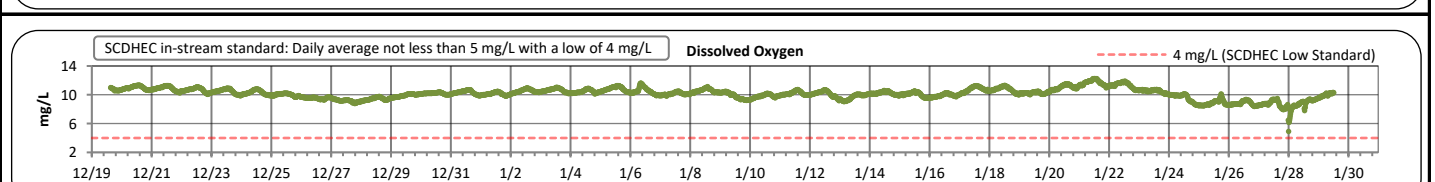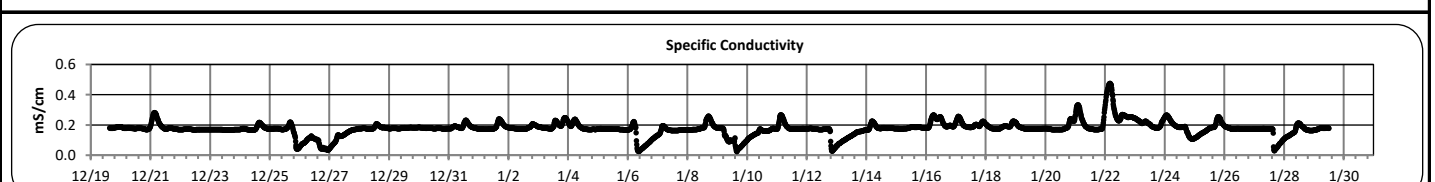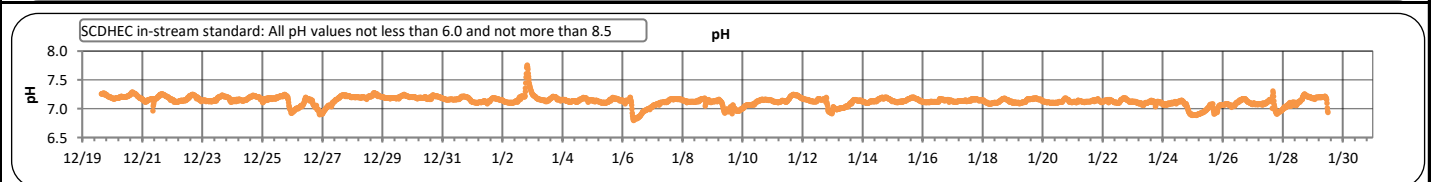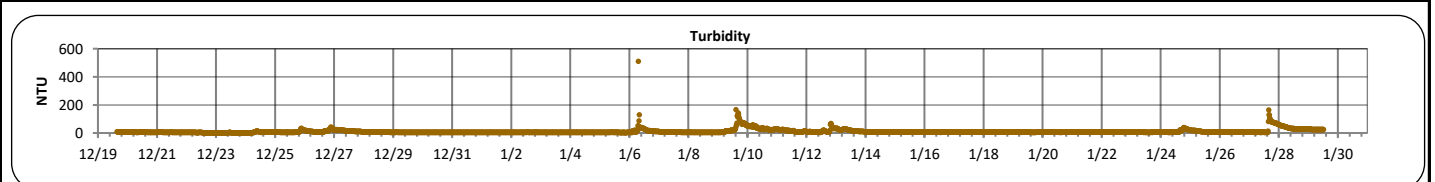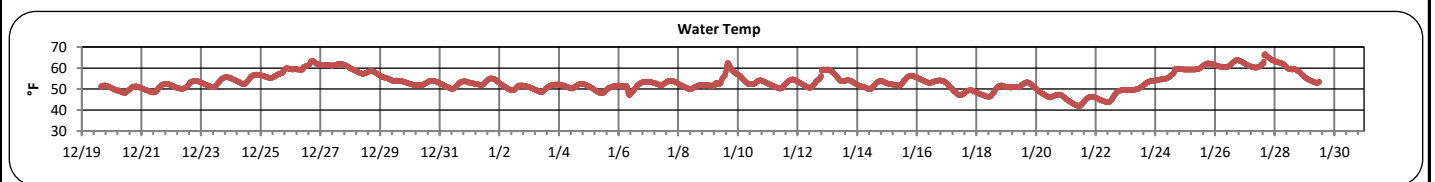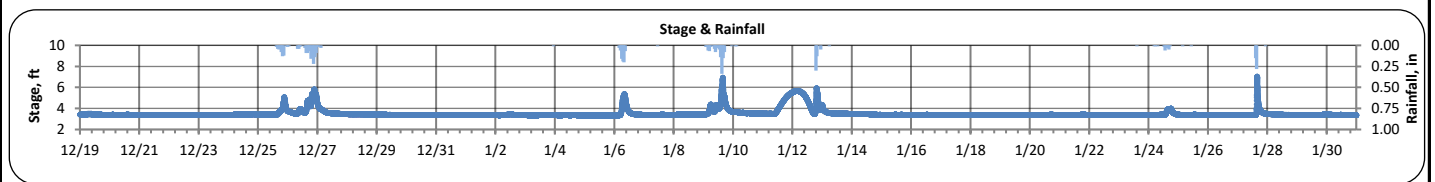Potential Illicit Discharges and Abnormal Events:

Specific conductivity increased several times during the monitoring period, most noticibly from 1/20 through 1/22, which may have been a result of fountain backwash or potential illicit discharges.

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

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Continuous Water Quality
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Rocky Branch B (December 19, 2023 - January 30, 2024)

PARAMETER	DESCRIPTION
STREAM NAME:	Rocky Branch
LOCATION:	Olympia Ave Crossing
ADDRESS:	510 Heyward St Columbia, SC 29201
COORDINATES:	33.982578, -81.035036
TMDL/IMPAIRMENT:	Fecal Coliform
NEIGHBORING LANDUSE:	Residential and commercial
SPATIAL LOCATION:	Most Downstream Site
TOTAL NO. STORMS OVER 0.1 INCH:	8
MAX. DAILY RAINFALL:	1.2 inches
TOTAL RAINFALL (FOR PERIOD):	4.8 inches

CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STAGE (FT):	3.3	7.0	3.4	3.5	0.4
TEMPERATURE (°F):	42	67	53	53	4
TURBIDITY (NTU):	3.15	512	7	12	16
pH:	6.8	7.8	7.1	7.1	0.1
SPECIFIC CONDUCTIVITY (mS/cm):	0.024	0.474	0.176	0.176	0.047
DISSOLVED OXYGEN (mg/L):	5.0	12.3	10.2	10.2	0.7

Stage & Rainfall

Water Temp

Turbidity

pH — SCDHEC in-stream standard: All pH values not less than 6.0 and not more than 8.5

Specific Conductivity

Dissolved Oxygen — SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L — 4 mg/L (SCDHEC Low Standard)

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

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Explanation of Statistics:

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STANDARD DEVIATION	The standard deviation of all the values recorded by the datasonde in 15 minute intervals.

Sampled Data:

Analyte (units)	Sample 1 1/9/2024		Sample 2 1/9/2024		Sample 3 1/9/2024		Sample 4 1/9/2023	
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	9:43	4,960	10:40	2,750	12:47	2,080	13:56	3,450
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

All samples were collected during wet weather conditions.

Notes:

Data Gaps

There were no data gaps during this monitoring period.

Potential Illicit Discharges and Abnormal Events:

Specific conductivity increased several times during the monitoring period, which may have been a result of potential illicit discharges or broken waterline(s).

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

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