Continuous Water Quality Monitoring Periodic Report

Rocky Branch A (March 24, 2022 - April 27, 2022)

PARAMETER STREAM NAME: LOCATION: ADDRESS: COORDINATES: TMDL/IMPAIRMENT: NEIGHBORING LANDUSE: SPATIAL LOCATION: TOTAL NO. STORMS OVER 0.1 INCH: MAX. DAILY RAINFALL: TOTAL RAINFALL (FOR PERIOD):	Rocky Branch Maxcy Gregg Park 1650 Park Circle Columbia, SC 29201 33.995864, -81.021842 Fecal Coliform Residential and commercial Most upstream site 6 2.8 inches 5.3 inches	4/5	WATER OF PARAME STAGE (II TEMPER. TURBIDIT pH: SPECIFIC CONDUCT (mS/cm): DISSOLV OXYGEN	TERS: TT): ATURE (°F): TY (NTU): TIVITY ED			7.9 73 231 6.8 0.290	0BSE 1 6 6 0.4	DIAN ERVED 1.4 65 4 3.7 143	MEAN OBSERV 1.5 65 7 6.7 0.138 8.3	ED	0.3 3 11 0.1 0.025 0.6
LOCATION: ADDRESS: COORDINATES: TMDL/IMPAIRMENT: NEIGHBORING LANDUSE: SPATIAL LOCATION: TOTAL NO. STORMS OVER 0.1 INCH: MAX. DAILY RAINFALL: TOTAL RAINFALL (FOR PERIOD):	Maxcy Gregg Park 1650 Park Circle Columbia, SC 29201 33.995864, -81.021842 Fecal Coliform Residential and commercial Most upstream site 6 2.8 inches 5.3 inches	4/5	TEMPER. TURBIDIT pH: SPECIFIC CONDUC (mS/cm): DISSOLV OXYGEN	ATURE (°F): FY (NTU): TIVITY ED (mg/L):	57 2 6.2 0.011 6.4		73 231 6.8 0.290	6	65 4 5.7 143	65 7 6.7 0.138		0.025 0.6
ADDRESS: COORDINATES: TMDL/IMPAIRMENT: NEIGHBORING LANDUSE: SPATIAL LOCATION: TOTAL NO. STORMS OVER 0.1 INCH: MAX. DAILY RAINFALL: TOTAL RAINFALL (FOR PERIOD):	1650 Park Circle Columbia, SC 29201 33.995864, -81.021842 Fecal Coliform Residential and commercial Most upstream site 6 2.8 inches 5.3 inches	1.	pH: SPECIFIC CONDUC (mS/cm): DISSOLV OXYGEN	FY (NTU): TIVITY ED (mg/L):	2 6.2 0.011 6.4	4/15	231 6.8 0.290	0.	4 5.7 143	6.7 0.138		0.025 0.6
COORDINATES: TMDL/IMPAIRMENT: NEIGHBORING LANDUSE: SPATIAL LOCATION: TOTAL NO. STORMS OVER 0.1 INCH: MAX. DAILY RAINFALL: TOTAL RAINFALL (FOR PERIOD):	Columbia, SC 29201 33.995864, -81.021842 Fecal Coliform Residential and commercial Most upstream site 6 2.8 inches 5.3 inches	14/5	pH: SPECIFIC CONDUC (mS/cm): DISSOLV OXYGEN	FY (NTU): TIVITY ED (mg/L):	2 6.2 0.011 6.4	4/15	231 6.8 0.290	0.	4 5.7 143	6.7 0.138	;	0.025 0.6
TMDL/IMPAIRMENT: NEIGHBORING LANDUSE: SPATIAL LOCATION: TOTAL NO. STORMS OVER 0.1 INCH: MAX. DAILY RAINFALL: TOTAL RAINFALL (FOR PERIOD):	Fecal Coliform Residential and commercial Most upstream site 6 2.8 inches 5.3 inches	14/5	pH: SPECIFIC CONDUC (mS/cm): DISSOLV OXYGEN	ED (mg/L):	6.2 0.011 6.4	4/15	6.8	0.	143	6.7 0.138		0.1 0.025 0.6
NEIGHBORING LANDUSE: SPATIAL LOCATION: TOTAL NO. STORMS OVER 0.1 INCH: MAX. DAILY RAINFALL: TOTAL RAINFALL (FOR PERIOD):	Residential and commercial Most upstream site 6 2.8 inches 5.3 inches	1/5	pH: SPECIFIC CONDUC (mS/cm): DISSOLV OXYGEN	ED (mg/L):	6.2 0.011 6.4	4/15	6.8	0.	143	6.7 0.138		0.1 0.025 0.6
LANDUSE: SPATIAL LOCATION: TOTAL NO. STORMS OVER 0.1 INCH: MAX. DAILY RAINFALL: TOTAL RAINFALL (FOR PERIOD):	Most upstream site 6 2.8 inches 5.3 inches	14/5	SPECIFIC CONDUC (mS/cm): DISSOLV OXYGEN	ED (mg/L):	0.011 6.4	4/15	0.290	0.	143	0.138		0.025
TOTAL NO. STORMS OVER 0.1 INCH: MAX. DAILY RAINFALL: TOTAL RAINFALL (FOR PERIOD):	6 2.8 inches 5.3 inches	14/5	CONDUC (mS/cm): DISSOLV OXYGEN	ED (mg/L):	6.4	4/15						0.6
OVER 0.1 INCH: MAX. DAILY RAINFALL: TOTAL RAINFALL (FOR PERIOD):	2.8 inches 5.3 inches	14/5	CONDUC (mS/cm): DISSOLV OXYGEN	ED (mg/L):	6.4	4/15						0.6
TOTAL RAINFALL (FOR PERIOD):	5.3 inches	14/5	OXYGEN	Stage & Rain	fall	4/15	10.1	8	3.2	8.3		0.0
(FOR PERIOD):		1/5	OXYGEN	Stage & Rain	fall	A/15	10.1	8	3.2	8.3		0.0
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12	d: Daily average not less than 5 mg/L v	with	a low of 4 mg/	Dissolve	d Oxygen		A 1			- 4 mg/L (SCD	THEC LOV	v standard)
된 10 8 8 6 4		1	<i></i>			~	~~~				1	
3/24 3/26 3/28	3/30 4/1 4/3	4/5	5 4/7	4/9 4/	/11 4/13	4/1	15 4/17	4/19	4/21	4/23	4/25	4/27

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

Continuous Water Quality Monitoring Periodic Report

Rocky Branch A (March 24, 2022 - April 27, 2022)

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: There were no data samples collected 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

Data was not collected for pH from the beginning of the monitoring period to March 29th because the sensor was out for repairs. Water temperature, turbidity, pH, specific conductivity, and dissolved oxygen were removed from April 6th to April 7th due to fouling.

Potential Illicit Discharges and Abnormal Events:

The specific conductivity increased several times during the monitoring period, which may have been a result of the Maxcy Gregg pool discharge.

Continuous Water Quality Monitoring Periodic Report

Rocky Branch B (March 24, 2022 - April 27, 2022)

CONTINUOUS SUMMARY STATISTICS								
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION	
STREAM NAME:	Rocky Branch	STAGE (FT):	3.2	9.5	3.3	3.5	0.6	
LOCATION:	Olympia Ave Crossing							
ADDRESS:	510 Heyward St Columbia, SC 29201	TEMPERATURE (°F):	55	73	64	64	4	
COORDINATES:	33.982578, -81.035036	TURBIDITY (NTU):	2	318	4	9	19	
TMDL/IMPAIRMENT:	Fecal Coliform	TOKBIBITT (NTO).	2	310	4	9	19	
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.0	7.6	7.2	7.2	0.1	
SPATIAL LOCATION:	Most Downstream Site	•		_				
TOTAL NO. STORMS OVER 0.1 INCH:	5	SPECIFIC CONDUCTIVITY (mS/cm):	0.019	0.242	0.160	0.154	0.031	
MAX. DAILY RAINFALL: TOTAL RAINFALL (FOR	2.9 inches 5.5 inches	DISSOLVED OXYGEN (mg/L):	7.2	10.9	8.9	9.0	0.7	
PERIOD):			-11	l	<u> </u>	<u> </u>		
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		Turbidity						
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SCDHEC in-stream standa	rd: All pH values not less than 6.0 and not	more than 8.5 pH						
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SCDHEC in-stream star	ndard: Daily average not less than 5 mg/L v	with a low of 4 mg/L Dissolved	Ovvgen			A /1 /00DUET:	Character 11	
12	The same and the s	Dissolved	OAYBEII		~~~	4 mg/L (SCDHEC L	ow Standard)	
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Note: Data gaps appear when the sonde is removed for calibration or when the flow depth is below the sensors

Continuous Water Quality Monitoring Periodic Report

Rocky Branch B (March 24, 2022 - April 27, 2022)

Explanation of Statistics:

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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:

	Sample 1							
Analyte (units)	4/18/2022							
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	14:25	2708						
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Samples 1 was collected during dry weather conditions.

Notes:

Data Gaps

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

Potential Illicit Discharges and Abnormal Events:

The specific conductivity increased several times during the monitoring period, which may have been a result of the Maxcy Gregg pool discharge.