# Continuous Water Quality Monitoring Periodic Report

## Rocky Branch A (July 19, 2023 - August 22, 2023)

		CONTINUO	ous	SUMMARY STATISTICS										
PARAMETER	DESCRIPTION		WATER QUALITY PARAMETERS:			MINIMUM OBSERVED		(IMUM ERVED	MEDIAN OBSERVED		ME OBSE		STANDARD DEVIATION	
STREAM NAME:	Rocky Branch	1	STAGE (FT):			1.3	7.5		1.4		1.4		0.2	
LOCATION:	Maxcy Gregg Park													
ADDRESS:	1650 Park Circle Columbia, SC 29201		TEMPERA	TURE (°F):		69	86		79		79		2	
COORDINATES:	33.995864, -81.021842		TURBIDITY	( (NTU):		3	1	41	5		1	10		12
TMDL/IMPAIRMENT:	Fecal Coliform		-	( -,				141						
NEIGHBORING LANDUSE:	Residential and commercial		pH:			6.1	-	7.9		6.6	6.	.6		0.1
SPATIAL LOCATION:	Most upstream site		•											
TOTAL NO. STORMS OVER 0.1 INCH:	5		SPECIFIC CONDUCT (mS/cm):	IVITY		0.021	1.	159	0	.154	0.1	73	0	.085
MAX. DAILY RAINFALL:	1.1 inches	]	DISSOLVE	.D										
TOTAL RAINFALL (FOR PERIOD):	2.4 inches		OXYGEN (	mg/L):		5.2	,	9.7	6.9		7.1		0.8	
				Stage & Rair	nfall		-				•			
# 15 10 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							ī							1.0
Stage, 2														1.0
7/19 7/21 7/23	7/25 7/27 7/29 7	7/31	8/2	8/4 8/6	5	8/8 8/	10 8	/12 8	3/14	8/16	8/18	8/20	8/22	<b>-</b> 3.0
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105 90 8- 75	~~~~		~~~	~~	_	^~^			<b>~</b>	~~	^^	~~	^	
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7/19 7/21 7/23	7/25 7/27 7/29	7/31	8/2	8/4 8/	6	8/8 8	/10 8	3/12	8/14	8/16	8/18	8/20	8/22	
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7/19 7/21 7/2	3 7/25 7/27 7/29	7/3	81 8/2	8/4 8	/6	8/8	8/10	8/12	8/14	8/16	8/18	8/20	8/22	
SCDHEC in-stream standa	rd: All pH values not less than 6.0 and n	ot m	ore than 8.5	рН										
7.5	3	+												_
6.5			~~~	A	-	_		-						
7/19 7/21 7/23	7/25 7/27 7/29	7/3:	L 8/2	8/4 8	/6	8/8	8/10	8/12	8/14	8/16	8/18	8/20	8/22	!
				Specific Cor	nductiv	ity								
E 1.2	4													
B 1.2 0.8 0.4							ι.							
7/19 7/21 7/23	3 7/25 7/27 7/29	7/3	31 8/2	8/4	3/6	8/8	8/10	8/12	8/14	8/16	8/18	8/20	8/22	2
	dard: Daily average not less than 5 mg/L	with	n a low of 4 mg/L	Dissolve	ed Oxyg	gen					4 mg/L (	SCDHEC Lo	w Standa	ard)
					_									
14														
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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 A (July 19, 2023 - August 22, 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:** No samples were collected during this monitoring period.

Analyte (units)							
	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 was a gap in specific conductivity data from 7/31 - 8/1 due to fouling. There was a gap in stage data from 8/19 - 8/20 due to an instrument communication malfunction.

### Potential Illicit Discharges and Abnormal Events:

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 (July 19, 2023 - August 22, 2023)

	CONTINUOUS				SUMMARY STATISTICS									
PARAMETER	DESCRIPTION	WATER QU PARAMET	JALITY	MINIMUM OBSERVED		MAXIMUM OBSERVED		MEDIAN OBSERVED		MEAN OBSERVED		STANDARD DEVIATION		
STREAM NAME:	Rocky Branch		STAGE (FT):			3.4	8.7		3.5		3.6		0.2	
LOCATION:	Olympia Ave Crossing										_			_
ADDRESS:	510 Heyward St Columbia, SC 29201		TEMPERA	TURE (°F):		75	86		80	0	80	)		2
COORDINATES:	33.982578, -81.035036		TURBIDITY	/ (NTI I):		2	204				7		40	
TMDL/IMPAIRMENT:	Fecal Coliform		TURBIDITY	r (NTU):		2	201		3	)	/			12
NEIGHBORING LANDUSE:	Residential and commerc	ial	pH:			6.4	8.2		7.	1	7.	2	0	).2
SPATIAL LOCATION:	Most Downstream Site						0.2							
TOTAL NO. STORMS OVER 0.1 INCH:	5		SPECIFIC CONDUCT (mS/cm):	IVITY	(	).022	0.698	3	0.1	97	0.2	14	0.0	070
MAX. DAILY RAINFALL: TOTAL RAINFALL (FOR	1.0 inches		DISSOLVE (mg/L):	D OXYGEN		5.4	9.7		7.	1	7.	3	0.8	
PERIOD):														
18			<u> </u>	Stage & Rain	fall		П			Т				0.0
# 14 eg 10														0.5 E
7/19 7/21 7/23	7/25 7/27 7/29	7/3:	1 8/2	8/4 8/6		3/8 8/3	10 8/12	8/	14 8	/16	8/18	8/20	8/22	2.0
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70 60						1			ļ	ļ				_
7/19 7/21 7/23	7/25 7/27 7/29	7/3	8/2	8/4 8/	6	8/8 8/	/10 8/12	8,	/14 8	8/16	8/18	8/20	8/22	
				Turbidity	,									
300														
P 200														
7/19 7/21 7/2	3 7/25 7/27 7/29	7,	/31 8/2	8/4 8	/6	8/8 8	8/10 8/12	2	8/14	8/16	8/18	8/20	8/22	
SCDHEC in-stream standa	rd: All pH values not less than 6.0 a	nd not m	nore than 8.5	рН										
8.0 7.5 7.0					\			-						
6.5														]
7/19 7/21 7/23	7/25 7/27 7/29	7/3	31 8/2	8/4 8/	<b>'</b> 6	8/8 8	3/10 8/12	2 8	8/14	8/16	8/18	8/20	8/22	_
				Suc-ISI C	al.,,,,, 11									
0.8				Specific Con	uuctivity									
₩ 0.6 0.4 0.2				<b>A</b>		Λ.					A A-		^^	-
0.0	7/25 7/27 7/27		/24 2/2	2/4	16	0/0	2/10 2/1		0/14	0/15	0/63	0/22	0/25	
7/19 7/21 7/23	3 7/25 7/27 7/29	7/	/31 8/2	8/4 8	/6	8/8	8/10 8/1	.2	8/14	8/16	8/18	8/20	8/22	
SCDHEC in-stream star	ndard: Daily average not less than !	mg/L w	vith a low of 4 mg/L	Dissolved	l Oxygen						4 mg/L (	SCDHEC LO	w Standa	ırd)
10	^^^^	<u> </u>										1/1	^^	
E 6								v						
											,			

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**

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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:** Sample 1 was collected during dry weather conditions.

	Sample 1								
Analyte (units)	7/25/	/2023							
	Time	Results	Time	Results	Time	Results			
Escherichia coli (MPN/100mL)	7:25	322							
Total Suspended Solids (mg/L)									
Total Phosphorus (mg/L)									
Total Nitrogen (mg/L)									

### **Notes:**

**Data Gaps** 

There were no data gaps at ROCB 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 the Maxcy Gregg pool discharge.