Continuous Water Quality Monitoring Periodic Report

Rocky Branch A (September 15, 2022 - October 18, 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):		1.4	4.1	1.4	1.4	0.2		
LOCATION:	Maxcy Gregg Park	1									
ADDRESS:	1650 Park Circle Columbia, SC 29201		TEMPERATURE (°F):		61	79	71	71	3		
COORDINATES:	33.995864, -81.021842		TURBIDITY (NTU):		3	1000	7	23	83		
TMDL/IMPAIRMENT:	Fecal Coliform] [, ,								
NEIGHBORING LANDUSE:	Residential and commercial]	pH:		6.1	6.9	6.5	6.5	0.1		
SPATIAL LOCATION:	Most upstream site	╛┕									
TOTAL NO. STORMS OVER 0.1 INCH:	2		SPECIFIC CONDUCTIVITY (mS/cm):		0.013	0.426	0.147	0.144	0.023		
MAX. DAILY RAINFALL:	2.5 inches] [DISSOLVED								
TOTAL RAINFALL (FOR PERIOD):	3.2 inches		OXYGEN (mg	/L):	6.2	10.1	7.7	7.8	0.8		
			St	age & Rainfa	all						
# 12			7						0.0		
# 12								_	0.5		
9/15 9/17 9/19	9/21 9/23 9/25	9/27	9/29 10	0/1 10	/3 10/5	10/7 10/9	10/11 10/13	10/15 10/1	1.0		
				Water Tem	p						
90											
F 70 60			~~~	_	~~	~~		~~			
50 	9/21 9/23 9/25	9/27	9/29 1	0/1 10)/3 10/5	10/7 10/9	10/11 10/13	10/15 10/2	 17 10/19		
1500				Turbidity							
1000											
2 500				<u> </u>							
9/15 9/17 9/1	19 9/21 9/23 9/25	9/2	7 9/29	10/1	10/3 10/5	10/7 10/9	10/11 10/13	3 10/15 10/	17 10/19		
							,		,		
SCDHEC in-stream standa	rd: All pH values not less than 6.0 and r	not more	than 8.5	pН				. ,	·		
7.6	rd: All pH values not less than 6.0 and r	not more	e than 8.5	рН					· 		
7.6	rd: All pH values not less than 6.0 and r	not more	e than 8.5	рН							
7.6 7.1 <u>E</u> 6.6 6.1 5.6		^	^^		10/3 10/5	10/7 10/9					
7.6 7.1 <u>E</u> 6.6 6.1		9/27	^^		0/3 10/5	10/7 10/9			0/17 10/19		
T.6 7.1 6.6 6.1 5.6 7.1		^	9/29			10/7 10/9					
7.6 7.1 6.6 6.1 5.6 9/15 9/17 9/19		^	9/29	10/1 1		10/7 10/9					
7.6 7.6 7.6 6.6 6.1 5.6 9/15 9/17 9/19		^	9/29	10/1 1		10/7 10/9					
7.6 7.6 7.6 6.6 6.1 5.6 9/15 9/17 9/19	9/21 9/23 9/25	^	9/29 S	pecific Cond		10/7 10/9	10/11 10/1	3 10/15 10			
7.6 7.6 7.6 7.6 7.6 9.15 9/17 9/19 9/15 9/17 9/19 9/19 9/19 9/19 9/19	9/21 9/23 9/25	9/27	9/29 S	pecific Cond	10/3 10/5	-	10/11 10/1	3 10/15 10	0/17 10/19		
7.6 7.6 7.6 6.6 6.1 5.6 9/15 9/17 9/19 0.6 0.7 0.9/15 9/17 9/19 SCDHEC in-stream stance 12 10	9/21 9/23 9/25	9/27	9/29 S	pecific Cond	10/3 10/5	-	10/11 10/1	13 10/15 10	0/17 10/19		
7.6 7.6 7.6 6.6 6.1 5.6 9/15 9/17 9/19 0.2 0.0 9/15 9/17 9/1	9/21 9/23 9/25	9/27	9/29 S	pecific Cond	10/3 10/5	-	10/11 10/1	13 10/15 10	0/17 10/19		

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

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Rocky Branch A (September 15, 2022 - October 18, 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:

	Sample 1		Sam	ple 2	Sam	ple 3	Sample 4		
Analyte (units)	9/30/2022		9/30	/2022	9/30,	/2022	9/30/2022		
	Time	Results	Time	Results	Time	Results	Time	Results	
Escherichia coli (MPN/100mL)	9:05	9,222	10:21	9,222	11:50	4,128	12:50	7,746	
Total Suspended Solids (mg/L)	9:05	53.5	10:21	82.0	11:50	31.4	12:50	28.8	
Total Phosphorus (mg/L)	9:05	0.380	10:21	0.360	11:50	0.260	12:50	0.270	
Total Nitrogen (mg/L)	9:05	2.17	10:21	1.67	11:50	1.42	12:50	1.40	

All samples were collected during wet weather conditions.

Notes:

Data Gaps

There were no data gaps at ROCA 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.

Continuous Water Quality Monitoring Periodic Report

Rocky Branch B (September 15, 2022 - October 18, 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	Γ):	3.3	1	6.4		3.3		3.4	0	.3
LOCATION:	Olympia Ave Crossing	7 [
ADDRESS:	510 Heyward St Columbia, SC 29201	11	TEMPERA	TURE (°F):	61		79		69		70	'	4
COORDINATES:	33.982578, -81.035036	╛┌	TURBIDITY (NTU):		3		335		5		15	3	7
TMDL/IMPAIRMENT:	Fecal Coliform	IJĹ	TONDIDITT (NTO).		3		333		5		13		''
NEIGHBORING LANDUSE:	Residential and commercial		pH:		6.7	,	7.7		7.2		7.2	0	.2
SPATIAL LOCATION:	Most Downstream Site	IJĹ	•										
TOTAL NO. STORMS OVER 0.1 INCH:	2		SPECIFIC CONDUCTIVITY (mS/cm):		0.01	7	0.225		0.175		0.173	0.0)31
MAX. DAILY RAINFALL:	2.2 inches	╗┌	DISSOLVE	D OXYGEN	6.9		9.8		0.4		8.4		_
TOTAL RAINFALL (FOR PERIOD):	2.9 inches		(mg/L):		0.8	'	9.0		8.4		0.4	0.5	
18				Stage & Rainfa	all								0.0
# 14 # 10				V ,									
# 14 9 10 6 6				^									0.5
9/15 9/17 9/19	9/21 9/23 9/25	9/27	9/29	10/1 10	0/3 10	/5	10/7 10)/9	10/11 1	0/13	10/15 10/	17 10/	
90				Water Tem	р								
80 80 70	~~~~	$\overline{}$											
60					\sim						~~		
9/15 9/17 9/19	9/21 9/23 9/25	9/27	9/29	10/1 1	.0/3 1	0/5	10/7 1	0/9	10/11	10/13	10/15 10	/17 10	/19
				Turbidity									
300													7
200 100				Wa									1
0 +	19 9/21 9/23 9/25	9/2	27 9/29	10/1	10/3	10/5	10/7	10/9	10/11	10/13	10/15 10	0/17 10	- 0/19
	rd: All pH values not less than 6.0 and	not more	e than 8.5	рН									
7.5 7.5			Λ Λ _Δ										
王 ^{7.5}				7					<u> </u>	1	_~~	\	+
6.5		9/27	9/29	10/1	10/3 1	10/5	10/7	10/9	10/11	10/13	10/15 1	0/17 1	⊣ .0/19
9/15 9/17 9/19	9/21 9/23 9/25												
	9/21 9/23 9/25												
	9/21 9/23 9/25			Specific Cond	luctivity								
9/15 9/17 9/19	9/21 9/23 9/25			Specific Conc	luctivity		<u></u>		<u> </u>			_^	7
9/15 9/17 9/19	9/21 9/23 9/25	~		Specific Conc	luctivity	<u></u>	—	_^	<u> </u>			_^	
9/15 9/17 9/19 0.3 0.2 0.2 0.1		9/2	7 9/29	Specific Conc		10/5	10/7	10/9	10/11	10/13	10/15 1	0/17 1	0/19
9/15 9/17 9/19 8 0.2 1 0.0 9/15 9/17 9/19 SCDHEC in-stream sta				10/1	10/3	10/5	10/7	10/9			10/15 1		
9/15 9/17 9/19 8 0.2 0.1 0.0 9/15 9/17 9/19 SCDHEC in-stream sta	9 9/21 9/23 9/25			10/1	10/3	10/5	10/7	10/9					
9/15 9/17 9/19 0.3 0.2 0.1 0.0 9/15 9/17 9/1	9 9/21 9/23 9/25			10/1	10/3	10/5	10/7	10/9					

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Analyte (units)	9/30/2022		9/30	/2022	9/30,	/2022	9/30/2022		
	Time	Results	Time	Results	Time	Results	Time	Results	
Escherichia coli (MPN/100mL)	9:20	20,920	10:41	8,704	12:06	6,896	1:13	9,222	
Total Suspended Solids (mg/L)	9:20	103.0	10:41	49.0	12:06	29.4	1:13	31.1	
Total Phosphorus (mg/L)	9:20	0.55	10:41	0.46	12:06	0.28	1:13	0.26	
Total Nitrogen (mg/L)	9:20	3.21	10:41	2.14	12:06	1.80	1:13	1.60	

All samples were collected during wet weather conditions.

Notes:

Data Gaps

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