Rocky Branch Monitoring Sites

Monitoring Data Summary for June 4th, 2020 – July 19th, 2020

Data Gaps

- At the ROCA station, brief periods of turbidity data from June 24th-25th and the period of data from July 6th-19th were removed from the dataset due to the sensor being buried, causing the turbidity values to be obscured. DO data was also removed from July 4th-19th.
- At the ROCB station, there were no data gaps.

SCDHEC Standards

- The ROCA and ROCB stations did not record any pH values outside of the acceptable SCDHEC range of 6 to 8.5
- The ROCA and ROCB stations recorded average DO concentrations of 7.3 mg/L and 7.3 mg/L, respectively, which are well above the SCDHEC daily average minimum standard of 5 mg/L.
- The minimum DO concentration recorded was 5.9 mg/L at ROCA station and 4.6 mg/L at the ROCB station. Both stations were above the SCDHEC discrete minimum standard of 4 mg/L.

Storm Events

- The ROCA station recorded 13 storm events during this monitoring period, resulting in 7.9 inches of total precipitation. The ROCB station recorded 12 storm events during this monitoring period, resulting in 8.2 inches of total precipitation.
- Both ROCA and ROCB stations exhibited typical responses to storm events during this monitoring period.

Potential Illicit Discharges and Abnormal Events

- At the ROCA station, several increased levels of specific conductivity were recorded. These occurrences were observed on June 5th, 7th, 8th, 9th, 11th, 12th, June 16th, and July 15th-16th. These elevated levels of specific conductivity were likely a result of the Maxcy Gregg pool discharge.
- At the ROCB station, specific conductivity levels were significantly elevated on June 5th, 6th, 10th, 15th-16th, 17th, 24th, 29th, 30th, July 5th, 6th, 7th-8th, 13th, 16th-17th, 18th, and 19th.

Flow Measurements

• No flow measurements were taken at the ROCA or ROCB stations during this monitoring period.



Continuous Water Quality Monitoring Periodic Report



Rocky Branch A (June 4, 2020 - July 19, 2020)

		CONTINUOUS	SUMMARY STATISTICS					
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION	
STREAM NAME:	Rocky Branch	STAGE (FT):	1.3	9.0	1.4	1.4	0.4	
LOCATION:	Maxcy Gregg Park							
ADDRESS:	1650 Park Circle Columbia, SC 29201	TEMPERATURE (°F):	69	86	76	76	3	
COORDINATES:	33.995864, -81.021842	TURBIDITY (NTU):	1	237	6	14	17	
TMDL/IMPAIRMENT:	Fecal Coliform		•	20.	Ů			
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.3	7.2	6.7	6.7	0.1	
SPATIAL LOCATION:	Most upstream site							
TOTAL NO. STORMS OVER 0.1 INCH:	13	SPECIFIC CONDUCTIVITY (mS/cm):	0.015	0.302	0.148	0.142	0.029	
MAX. DAILY RAINFALL:	1.5 inches	DISSOLVED						
TOTAL RAINFALL (FOR PERIOD):	7.9 inches	OXYGEN (mg/L):	5.9	8.6	7.3	7.3	0.5	
		Stage & Rain	fall	•	•	,	•	
± 16 ± 12							1.0	
# 12 • 8 8 8							2.0	
6/4 6/6 6/8 6/3	10 6/12 6/14 6/16 6/18 6	/20 6/22 6/24 6/26 6/2	8 6/30 7/2	7/4 7/6 7	7/8 7/10 7/12	7/14 7/16	7/18 7/20	
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* 75 70	WWW.	WWW						
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6/4 6/6 6/8 6/	10 6/12 6/14 6/16 6/18 6	/20 6/22 6/24 6/26 6/:	28 6/30 7/2	7/4 7/6	7/8 7/10 7/12	7/14 7/16	7/18 7/20	
		Turbidity	,					
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E 150		9: 8 5.9						
50		S (20 S (24 S (25 S	/20 6/20 7/2	7/4 7/6	7/0 7/00 7/0	7/14 7/16	7/10 7/20	
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6.5			Y					
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8 0.3 0.2 0.1	18. Harris							
0.1	///	- VVW P	VVV	· · · · · ·	VVV			
	6/10 6/12 6/14 6/16 6/18	6/20 6/22 6/24 6/26	5/28 6/30 7/2	2 7/4 7/6	7/8 7/10 7/	12 7/14 7/16	7/18 7/20	
SCDHEC in-stream stand	dard: Daily average not less than 5 mg/L v	vith a low of 4 mg/L Dissolve	d Oxvgen			- 4 mg/L (SCDHEC L	ow Standard)	
10	dard: Daily average not less than 5 mg/L v	vith a low of 4 mg/L Dissolve	d Oxygen			4 mg/L (SCDHEC L	ow Standard)	
10 8 8 8	dard: Daily average not less than 5 mg/L v	vith a low of 4 mg/L Dissolve	d Oxygen	~		4 mg/L (SCDHEC L	ow Standard)	
10		with a low of 4 mg/L Dissolve	WW.	2 7/4 7/6	7/8 7/10 7/:		7/18 7/20	

Continuous Water Quality Monitoring Periodic Report

Rocky Branch A (June 4, 2020 - July 19, 2020)

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.

Grab Sample Data:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	6/4/2020							
	Time	Result	Time	Result	Time	Result	Time	Result
Escherichia coli (MPN/100mL)	10:05	150						
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Notes: Sample 1 was collected during dry weather conditions.



Continuous Water Quality Monitoring Periodic Report



Rocky Branch B (June 4, 2020 - July 19, 2020)

MATERIA QUALITY Managaria MAGRIAN MAGRIAN MECHAN MECHA			CONTINUOUS	SUMMARY STATISTICS						
COCATION: Olympia Ave Crossing ADDRESS: S10 Heyward St Columbia. SC 28201 TEMPERATURE (*F): 67 85 76 77 3	PARAMETER	DESCRIPTION	WATER QUALITY		_					
ADDRESS: 510 Hopered St. Columbia. SC 29201 COORDINATES: 33 982578, -81 035036 TMILLIMPARRIMENT: Focal Coliform INGIGIBORING Residential and commercial SPATIAL LOCATION: Most Downstream Site Office Conductivity (mScm): TOTAL NO. STORMS OVER 6.1 INCH: MAX. DALY RANNALL: 1.8 Inches TOTAL RANNFALL (FOR 8.2 inches TOTAL ROLL (FOR 8.	STREAM NAME:	Rocky Branch	STAGE (FT):	3.8	10.3	4.1	4.1	0.5		
ADDRESS: COLOMBIA. SC 22001 COORDINATES: 33.982378, -81.05303086 TIMEUMPAIRMENT: Feaci Continue Microsoft Colombia. SC 22001 TIMEUMPAIRMENT: Feaci Continue Microsoft Colombia. SC 22001 TOTAL NO. STORMS OVER 6.1 NO. F. MAX. DAILY RAINFALL: 1.8 inches TOTAL RAINFAL	LOCATION:	Olympia Ave Crossing								
THOLUMPAIRMENT: Fecal Colliform NEIGHBORING Residential and commercial SPECIFIC CONDUCTIVITY (mSkm): TOTAL NO. STORMS 12 OVER 0. INCH: TOTAL NO. STORMS 12 OVER 0. INCH: TOTAL NA. STORMS 12 OVER 0. INCH: TOTAL NAINFALL (FOR B. 2 Inches)	ADDRESS:	,	TEMPERATURE (°F):	67	85	78	77	3		
NEIGHBORING Residential and commercial LANDUSE: Residential and commercial SATTAL LOCATION: Most Downstream Site Ph: 6.3 7.4 6.9 6.9 0.2			TURBIDITY (NTU):	1	232	8	11	14		
Ph:	-	Fecal Coliform								
TOTAL NO. STORMS OVER 0.1 INCH: 12 CONDUCTIVITY (m.S/cm): 13. inches TOTAL RAINFALL (FOR PERIOD): Stage & Rainfall	LANDUSE:		pH:	6.3	7.4	6.9	6.9	0.2		
OJSC OVER C1 INCH: 12	SPATIAL LOCATION:	Most Downstream Site	SPECIFIC							
TOTAL RAINFALL (FOR B.2 inches S.2 inches Stage & Rainfall Stage		12	CONDUCTIVITY	0.037	0.244	0.183	0.174	0.032		
Stage & Rainfall 10 10 10 10 10 10 10 1		1.8 inches	DISSOLVED OXYGEN	4.6	0.6	7.2	7.0	0.0		
## ## ## ## ## ## ## ## ## ## ## ## ##	•	8.2 inches	(mg/L):	4.0	9.6	7.3	7.3	0.9		
## ## ## ## ## ## ## ## ## ## ## ## ##			Stage & Rainfa	all						
Security State Temps Security Secur	يد 14							⊥ 1.0 . <u>=</u>		
Water Temp Water Temp So 6/4 6/6 6/8 6/10 6/12 6/14 6/16 6/18 6/20 6/22 6/24 6/26 6/28 6/30 7/2 7/4 7/6 7/8 7/10 7/12 7/14 7/16 7/18 7/20 Turbidity PH Specific Conductivity Spec	98 10 10									
88 0 77 70 6 6/4 6/6 6/8 6/10 6/12 6/14 6/16 6/18 6/20 6/22 6/24 6/26 6/28 6/30 7/2 7/4 7/6 7/8 7/10 7/12 7/14 7/16 7/18 7/20 Turbidity pH 7.1 8.6 6.5 6.5 6.6 6.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8	2 +	10 6/12 6/14 6/16 6/18 6/	/20 6/22 6/24 6/26 6/2	8 6/30 7/2	7/4 7/6 7	/8 7/10 7/12	7/14 7/16 7	1 4.0		
88 0 77 70 6 6/4 6/6 6/8 6/10 6/12 6/14 6/16 6/18 6/20 6/22 6/24 6/26 6/28 6/30 7/2 7/4 7/6 7/8 7/10 7/12 7/14 7/16 7/18 7/20 Turbidity pH 7.1 8.6 6.5 6.5 6.6 6.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8										
Turbidity 250	90		Water Tem				۸۸۸۸	<u> </u>		
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Turbidity Ph	65									
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PH 7.4 6.5 6.2 6.7 6.7 6.7 6.7 6.7 6.7 6.7			Turbidity							
PH TA 7/1	200				8					
6/4 6/6 6/8 6/10 6/12 6/14 6/16 6/18 6/20 6/22 6/24 6/26 6/28 6/30 7/2 7/4 7/6 7/8 7/10 7/12 7/14 7/16 7/18 7/20 PH Specific Conductivity Specific Conductivi	F 100									
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Specific Conductivity 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.										
0.3 0.2 0.0 6/4 6/6 6/8 6/10 6/12 6/14 6/16 6/18 6/20 6/22 6/24 6/26 6/28 6/30 7/2 7/4 7/6 7/8 7/10 7/12 7/14 7/16 7/18 7/20 SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L Dissolved Oxygen 4 mg/L (SCDHEC Low Standard)	6/4 6/6 6/8 6/	10 6/12 6/14 6/16 6/18 6	5/20 6/22 6/24 6/26 6/ 	/28 6/30 7/2	7/4 7/6	7/8 7/10 7/1	2 7/14 7/16	7/18 7/20 		
SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L										
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SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L Dissolved Oxygen 4 mg/L (SCDHEC Low Standard)	0.0	2/10 6/12 6/14 6/16 6/19	6/20 6/22 6/24 6/26 6	1/29 6/20 7/2	7/4 7/6	7/9 7/10 7/1	2 7/14 7/16	7/19 7/20		
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		ndard: Daily average not less than 5 mg/L	with a low of 4 mg/L Dissolved	Oxygen			- 4 mg/L (SCDHEC L	ow Standard)		
3										
				MA	~~~			WWW		
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Sampled Data:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	6/4/2020							
(units)	Time	Result	Time	Result	Time	Result	Time	Result
Escherichia coli (MPN/100mL)	10:20	244						
Total Suspended								
Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Notes: Sample 1 was collected during dry weather conditions.