Rocky Branch Monitoring Sites Monitoring Data Summary for October 3rd, 2019 – November 6th, 2019

Data Gaps

- Heavy sediment accumulation at the ROCA station covered the turbidity sensor resulting in inaccurate turbidity readings beginning on October 16th. The sediment was cleared up on October 18th. This brief period of turbidity data was deleted from the dataset.
- No interruptions were observed in the water quality data at the ROCB station during this monitoring period.

SCDHEC Standards

- Both the ROCA and ROCB stations recorded pH values that were within the acceptable SCDHEC range of 6 to 8.5 during this monitoring period.
- The ROCA and ROCB stations recorded average DO concentrations of 6.4 mg/L and 8.1 mg/L, respectively, which are both above the SCDHEC daily average minimum standard of 5 mg/L.
- The minimum DO concentration recorded during this deployment period was 4.3 mg/L at ROCA and 6.3 mg/L at ROCB. Neither of the Rocky Branch monitoring stations recorded DO values below the SCDHEC discrete minimum standard of 4 mg/L.

Storm Events

- The ROCA station recorded 7 storm events during this monitoring period, resulting in 3.1 inches of total precipitation. The ROCB station also recorded 7 storm events during this monitoring period, resulting in 2.7 inches of total precipitation.
- Both ROCA and ROCB stations exhibited typical responses to storm events during this monitoring period.
- The maximum antecedent dry time since the last significant precipitation event (at least 0.1 inches) was approximately 12.8 days in the Rocky Branch watershed occurring prior to the October 13th storm event.

Potential Illicit Discharges and Abnormal Events

• The Rocky Branch monitoring stations did not experience any potential illicit discharges or abnormal activity during this monitoring period.

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 (October 3, 2019 - November 6, 2019)

		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	4.2	1.3	1.3	0.2	
LOCATION:	Maxcy Gregg Park	TEMPERATURE						
ADDRESS:	1650 Park Circle Columbia, SC 29201	(°F):	61	79	71	70	4	
COORDINATES:	33.995864, -81.021842	TURBIDITY (NTU):	1	200	4	8	13	
TMDL/IMPAIRMENT:	Fecal Coliform	TOKBIBITT (KTO).		200	7	0	15	
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.1	6.6	6.4	6.3	0.1	
SPATIAL LOCATION:	Most upstream site		-				-	
TOTAL NO. STORMS OVER 0.1 INCH:	7	SPECIFIC CONDUCTIVITY (mS/cm):	0.020	0.16	0.134	0.125	0.022	
MAX. DAILY RAINFALL:	0.9 inches	DISSOLVED	4.0	0.0			0.7	
TOTAL RAINFALL (FOR PERIOD):	3.1 inches	OXYGEN (mg/L):	4.3	8.8	6.4	6.4	0.7	
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10/3 10/5 10/7	10/9 10/11 10/13	10/15 10/17 10/19 1	10/21 10/23	10/25 10/27	10/29 10/31	11/2 11/	/4 11/6	
10/3 10/5 10/7	10/9 10/11 10/13	10/15 10/17 10/19 :		10/25 10/27	10/29 10/31	11/2 11/	/4 11/6	
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10/3 10/5 10/7 200 150 100 10/3 10/5 10/ 6.8 6.8 6.4 6.2 6.0 10/3 10/5 10/7	10/9 10/11 10/13 10/9 10/11 10/13 on 9/19/2018 are not shown in this plot f	Turbidit 10/15 10/17 10/19 pH 10/15 10/17 10/19 for scaling purposes. Specific Cor	10/21 10/23 10/21 10/23	10/25 10/27	10/29 10/3	1 11/2 11	/4 11/6	
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10/3 10/5 10/7 200 150 150 10/3 10/5 10/7 10/3 10/5 10/7 The maximum SC values of 0.20 0.20 0.15 0.10 0.05 0.00 10/3 10/5 10/7	10/9 10/11 10/13 10/9 10/11 10/13 on 9/19/2018 are not shown in this plot f	Turbidit 10/15 10/17 10/19 pH 10/15 10/17 10/19 for scaling purposes. Specific Cor 10/15 10/17 10/19	10/21 10/23 10/21 10/23	10/25 10/27	10/29 10/3	1 11/2 11	/4 11/6 11/4 11/6	

Continuous Water Quality Monitoring Periodic Report

Rocky Branch A (October 3, 2019 - November 6, 2019)

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	
	10/7/2019		10/29/2019		10/29/2019			
(units)	Time	Result	Time	Result	Time	Result	Time	Result
Escherichia coli (MPN/100mL)	11:25	700	15:18	6,896	16:09	6152		
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Note:

Sample 1 was collected during dry weather conditions. Samples 2 and 3 were taken during wet weather conditions.



Continuous Water Quality Monitoring Periodic Report



Rocky Branch B (October 3, 2019 - November 6, 2019)

	CONTINUOUS		SUMMARY STATISTICS				
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Rocky Branch	STAGE (FT):	3.4	6.3	3.4	3.5	0.2
LOCATION:	Olympia Ave Crossing						_
ADDRESS:	510 Heyward St Columbia, SC 29201	TEMPERATURE (°F):	56	81	70	69	5
COORDINATES:	33.982578, -81.035036	TURRIDITY (NITU).	4	106	2	4	
TMDL/IMPAIRMENT:	Fecal Coliform	TURBIDITY (NTU):	1	106	2	4	7
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.3	7.5	7.0	7.0	0.2
SPATIAL LOCATION:	Most Downstream Site	рп.	0.3	7.5	7.0	7.0	0.2
TOTAL NO. STORMS OVER 0.1 INCH:	7	SPECIFIC CONDUCTIVITY (mS/cm):	0.048	0.223	0.177	0.167	0.029
MAX. DAILY RAINFALL: TOTAL RAINFALL (FOR	1.0 inches 2.7 inches	DISSOLVED OXYGEN (mg/L):	6.3	10.3	8.1	8.1	0.9
PERIOD):		Stage & Rainf	all			1	1
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# Continuous Water Quality Monitoring Periodic Report

Rocky Branch B (October 3, 2019 - November 6, 2019)

# **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:**

Analyto	Sample 1		Sample 2		Sample 3		Sample 4	
Analyte (units)	10/7/2019		10/29/2019		10/29/2019			
(units)	Time	Result	Time	Result	Time	Result	Time	Result
Escherichia coli (MPN/100mL)	11:39	506	15:35	422	16:20	1074		
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Note:

The sample on 10/7 was collected during dry weather conditions. The samples on 10/29 were taken during wet weather conditions.