# Rocky Branch Monitoring Sites Monitoring Data Summary for August 22<sup>nd</sup>, 2018 – September 26<sup>th</sup>

### Data Gaps

• There were no interruptions in the Rocky Branch datasets during this deployment period.

### SCDHEC Standards

- Both Rocky Branch monitoring stations did not record any pH values outside of the acceptable SCDHEC range of 6 to 8.5 during this monitoring period.
- The ROCA and ROCB stations recorded average DO concentrations of 6.3 mg/L and 7 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 4.2 mg/L at ROCA and 5.4 mg/L at ROCB, which are both above the SCDHEC discrete minimum standard of 4.0 mg/L.

#### Storm Events

- The ROCA station recorded 5 storm events during this monitoring period, resulting in 5.3 inches of total precipitation. The ROCB station also recorded 5 storm events during this monitoring period, which resulted in 5 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 22 days at both Rocky Branch stations prior to the storm event on September 11<sup>th</sup>.

### Potential Illicit Discharges and Abnormal Events

- Specific conductivity was extremely high on August 27<sup>th</sup>, at ROCA, which is likely an activity from the Maxcy Gregg pool. Abnormally high specific conductivity is typically observed once every month during the summer months when the pool is open.
- At both Rocky Branch stations, there were a few short periods of slightly elevated specific conductivity levels observed throughout the deployment period. These specific conductivity spikes are typical observances of the Rocky Branch monitoring stations, especially during the summer months when the Maxcy Gregg pool is open.

#### Flow Measurements

• No flow measurements were taken in Rocky Branch during this monitoring period.

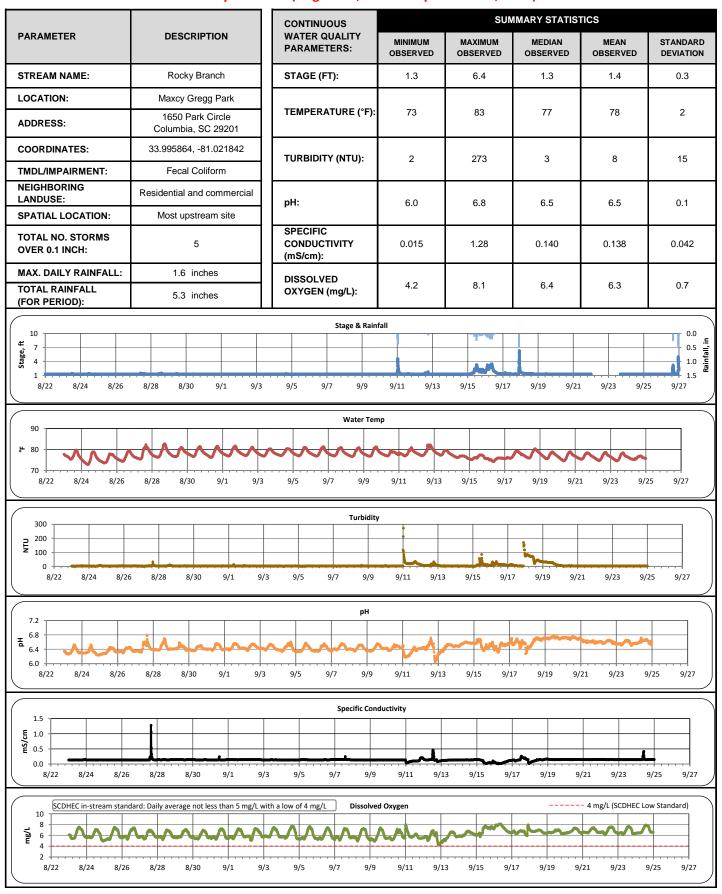
#### Notes

• There was a minor gap observed in the pressure transducer dataset at each Rocky Branch site on September 22<sup>nd</sup> that will be replaced with secondary onsite stage data from the YSI data sonde.





### Rocky Branch A (August 22, 2018 -- September 26, 2018)



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

### Rocky Branch A (August 22, 2018 -- September 26, 2018)

# **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:

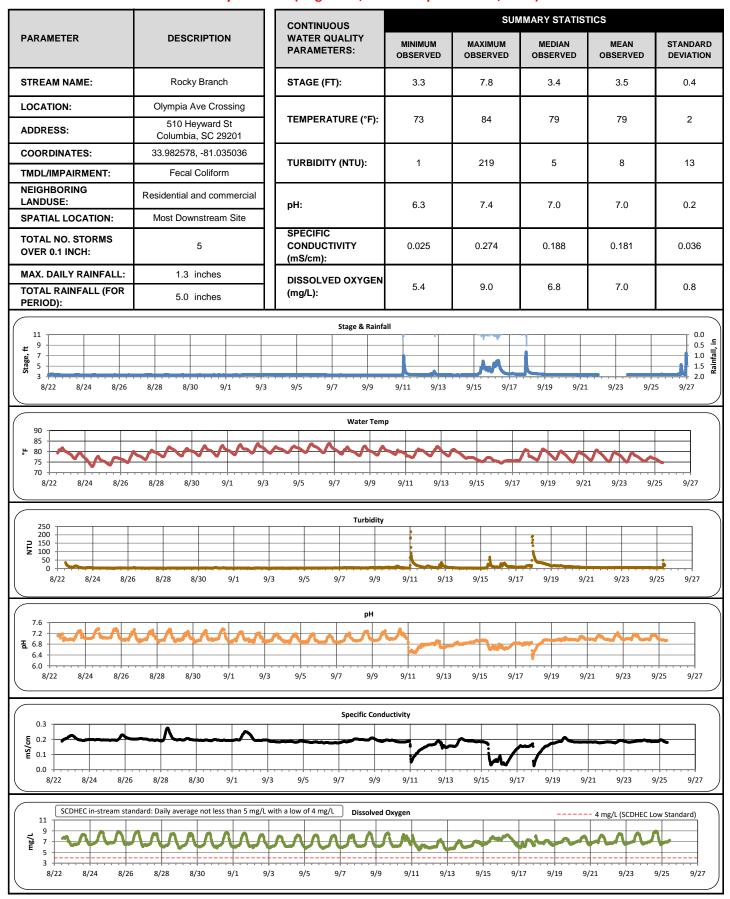
Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	Time	Result	Time	Result	Time	Result	Time	Result
Escherichia coli (MPN/100mL)								
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Note:





### Rocky Branch B (August 22, 2018 -- September 26, 2018)



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

### Rocky Branch B (August 22, 2018 -- September 26, 2018)

# **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:

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

Note: