

Rocky Branch Monitoring Sites

Data Gaps

- The Rocky Branch monitoring stations did not experience any submergence issues during this monitoring period. The turbidity sensor at ROCA did become fouled briefly, but this was corrected by field maintenance.

SCDHEC Standards

- The ROCA and ROCB stations recorded average DO concentrations of 9.2 and 10.7 mg/L, respectively. These levels are well above the SCDHEC daily average lower limit of 5 mg/L. Additionally, the minimum recorded DO values at the Rocky Branch monitoring stations were 7.0 and 7.9 mg/L, both above the SCDHEC instantaneous DO level of 4 mg/L.
- The pH standard was not violated at either of the Rocky Branch monitoring sites.

Storm Events

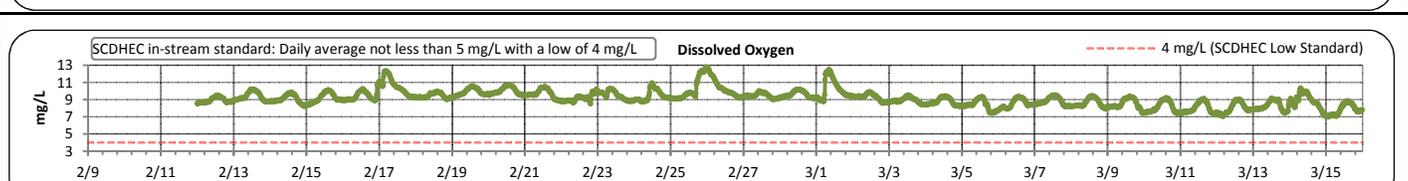
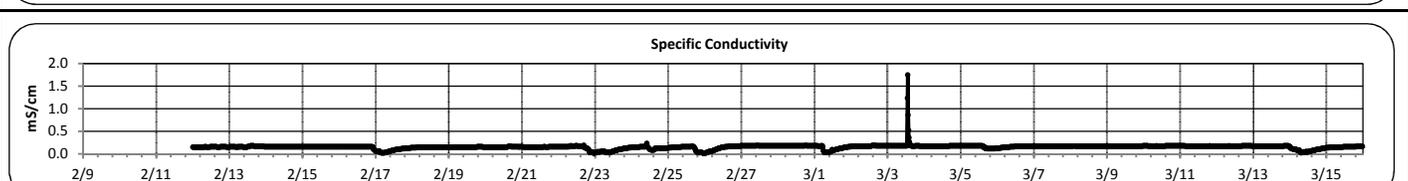
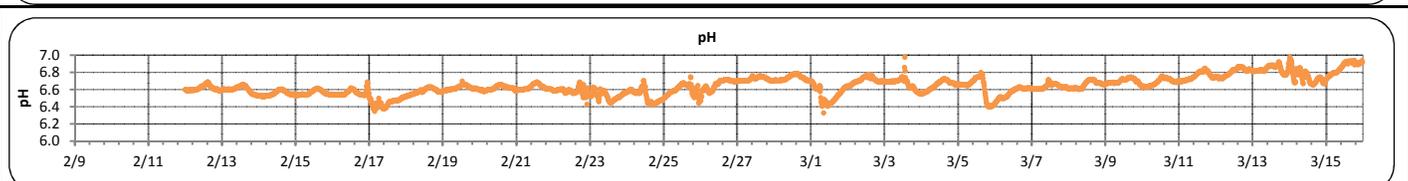
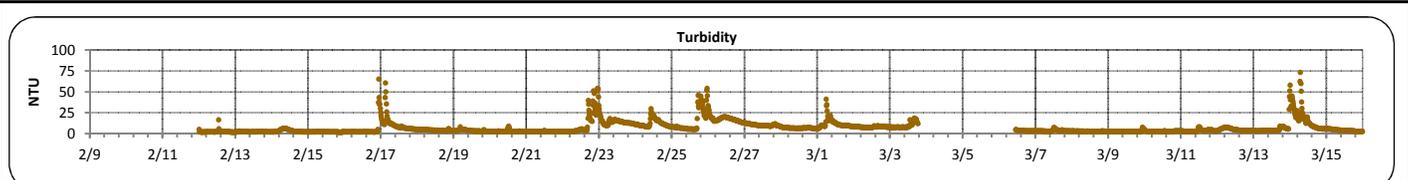
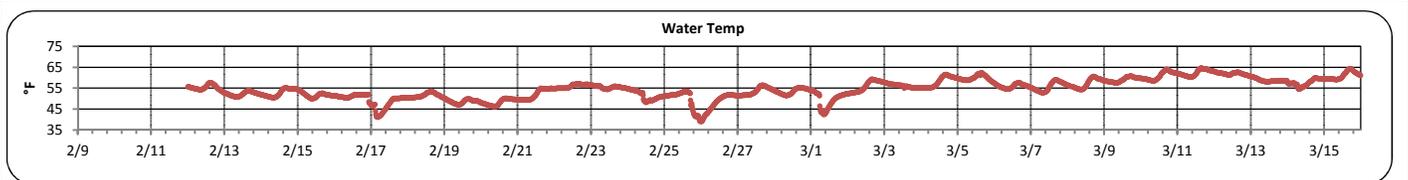
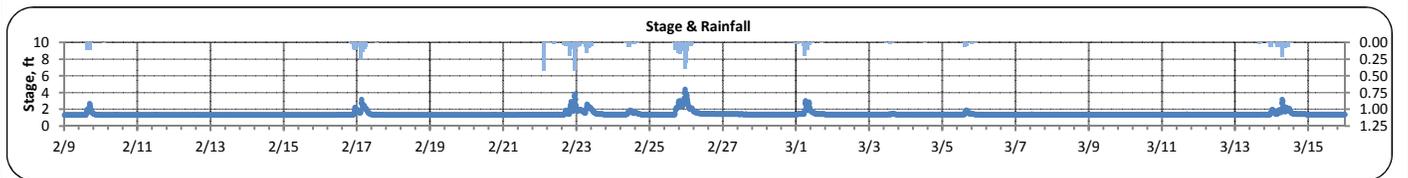
- The ROCA and ROCB rain gages recorded 9 and 8 storm events, respectively.
- The most significant storm event occurred from February 25th to 26th, and resulted in 1.74 and 1.68 inches of precipitation at the ROCA and ROCB stations, respectively.

Potential Illicit Discharges and Abnormal Events

- At ROCA, 6 potential illicit discharges were recorded:
 - Four of the suspected illicit discharge events affected specific conductivity. These occurred on February 13th, 20th, and 27th, and March 3rd, and all were accompanied by a slight increase in the creek stage. The event on March 3rd was by far the most significant, causing specific conductivity to increase to almost ten-fold. This event was also associated with a pH and turbidity increase, as well as a temperature decrease.
 - Two additional potential illicit discharge events were noted: On February 20th, turbidity levels became slightly elevated for several hours. On March 11th, a slight stage increase of 0.1 feet was noted, but no water quality impacts were measured with the available sensors.
- At ROCB, a number of sporadic increases in specific conductivity levels were observed on February 12th, 14th, 16th, 19th, 20th, 24th, and 26th, as well as March 1st, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 12th, and 15th. Additionally, an increase of turbidity levels up to 70 NTU was recorded on March 2nd.

Rocky Branch A (February 9 -- March 15, 2015)

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Rocky Branch	STAGE (FT):	1.3	4.4	1.4	1.4	0.3
LOCATION:	Maxcy Gregg Park	TEMPERATURE (°F):	39	65	55	55	5
ADDRESS:	1650 Park Circle Columbia, SC 29201	TURBIDITY (NTU):	2	73	4	7	7
COORDINATES:	34.995864, -81.021842	pH:	6.3	7.0	6.6	6.6	0.1
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.014	1.751	0.157	0.150	0.053
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	7.0	12.8	9.2	9.2	0.9
SPATIAL LOCATION:	Most upstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	9						
MAX. DAILY RAINFALL:	1.5 inches						
TOTAL RAINFALL (FOR PERIOD):	6.8 inches						



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 (February 9 -- March 15, 2015)

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.

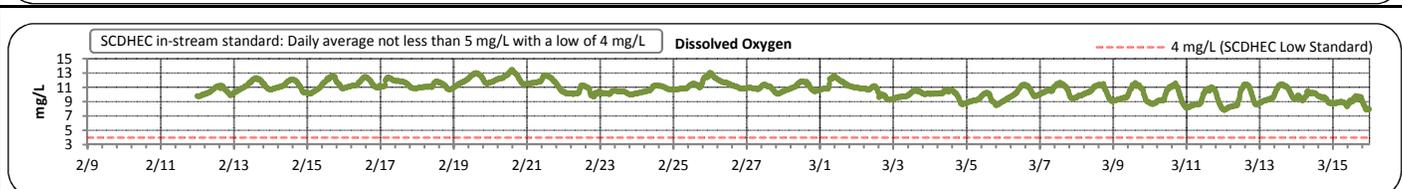
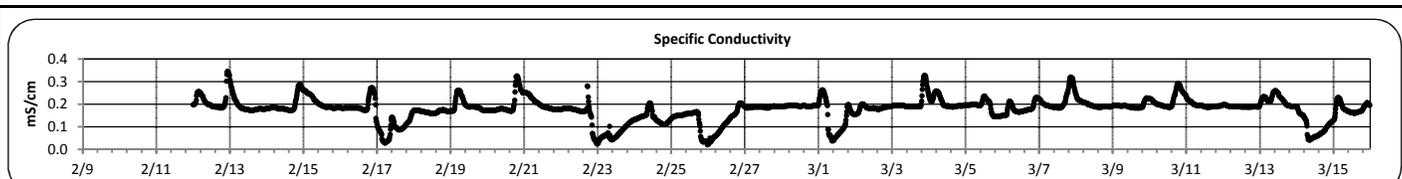
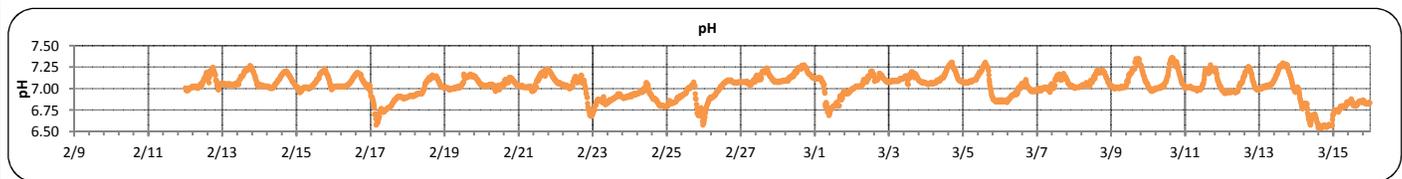
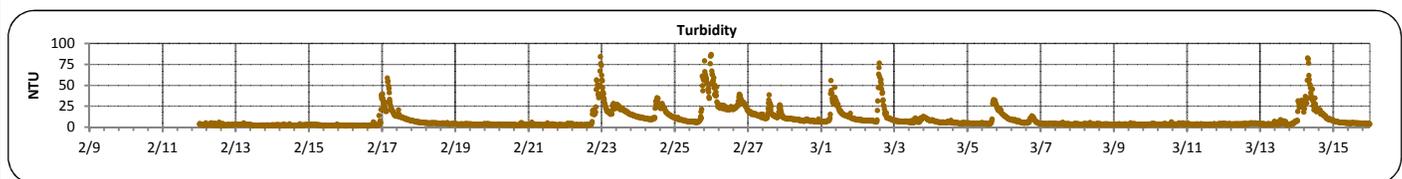
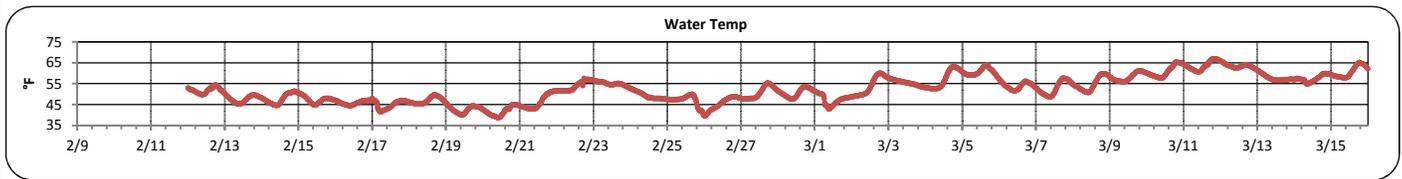
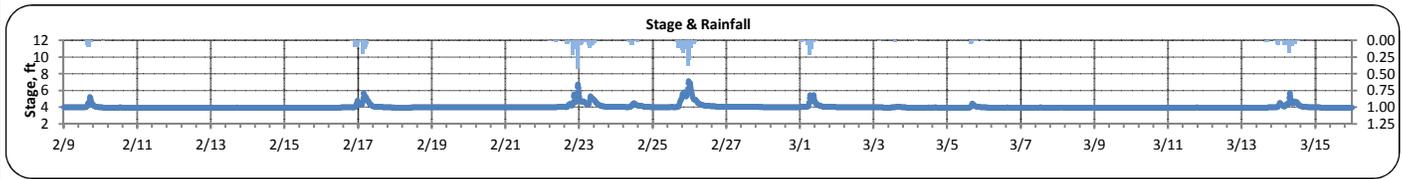
Grab Sample Data:

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

Note:

Rocky Branch B (February 9 -- March 15, 2015)

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Rocky Branch	STAGE (FT):	3.9	7.2	4.0	4.1	0.3
LOCATION:	Olympia Ave Crossing	TEMPERATURE (°F):	39	67	52	52	6
ADDRESS:	510 Heyward St Columbia, SC 29201	TURBIDITY (NTU):	2	87	5	9	11
COORDINATES:	33.982578, -81.035036	pH:	6.5	7.4	7.0	7.0	0.1
TMDL/IMPAIRED:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.02	0.346	0.187	0.178	0.051
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	7.9	13.5	10.8	10.7	1.1
SPATIAL LOCATION:	Most Downstream Site						
TOTAL NO. STORMS OVER 0.1 INCH:	8						
MAX. DAILY RAINFALL:	1.5 inches						
TOTAL RAINFALL (FOR PERIOD):	5.9 inches						



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 B (February 9 -- March 15, 2015)

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	
	Time	Result	Time	Result	Time	Result
<i>Escherichia coli</i> (MPN/100mL)						
Total Suspended Solids (mg/L)						
Total Phosphorus (mg/L)						
Total Nitrogen (mg/L)						

Note: