

Rocky Branch Monitoring Sites

Data Gaps

- The Rocky Branch monitoring stations did not experience any submergence issues or periods of fouling during this monitoring period.

SCDHEC Standards

- The ROCA and ROCB stations recorded average DO concentrations of 7.4 and 8.0 mg/L, respectively. The DO levels observed at these two stations did not fall below either the daily average level of 5 mg/L or the instantaneous minimum standard of 4 mg/L.
- The pH standard was not violated at either of the Rocky Branch monitoring sites.

Storm Events

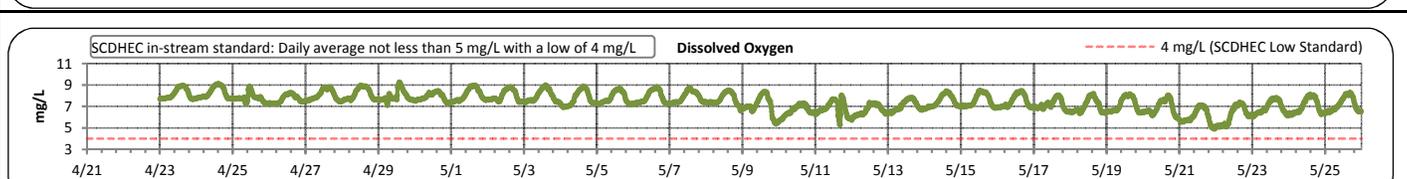
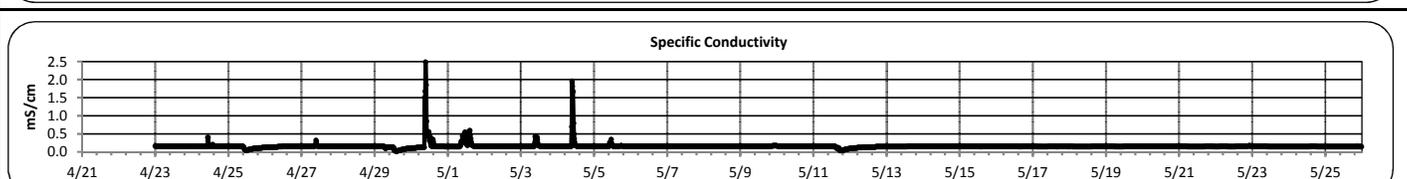
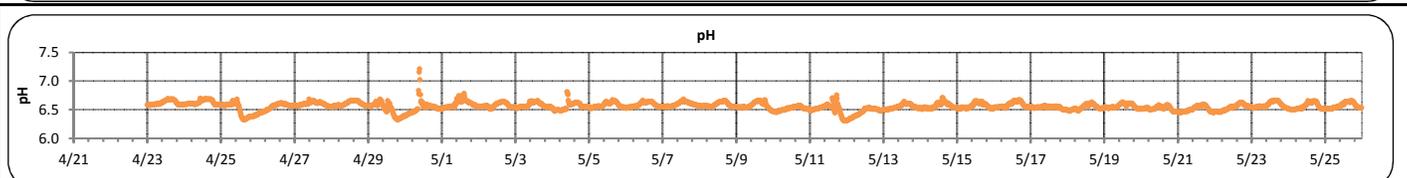
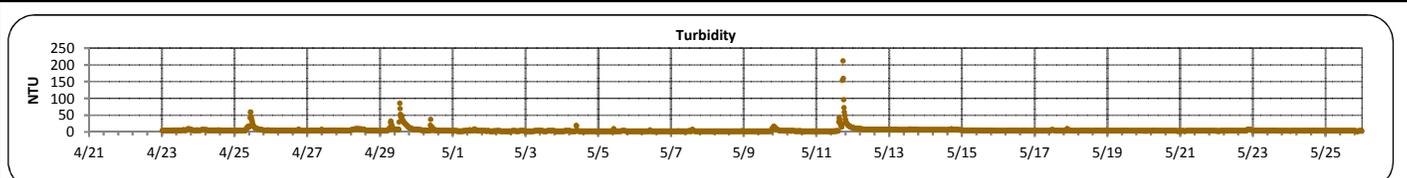
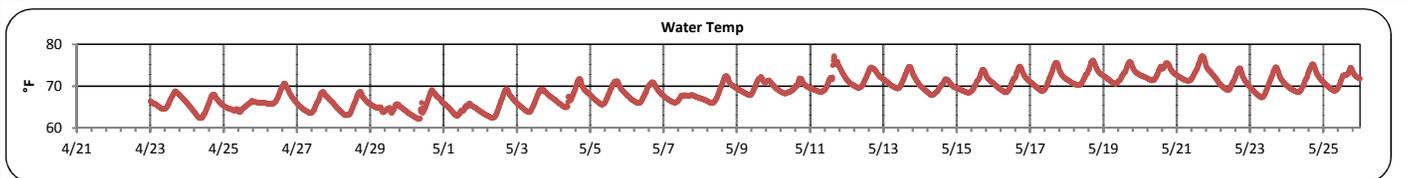
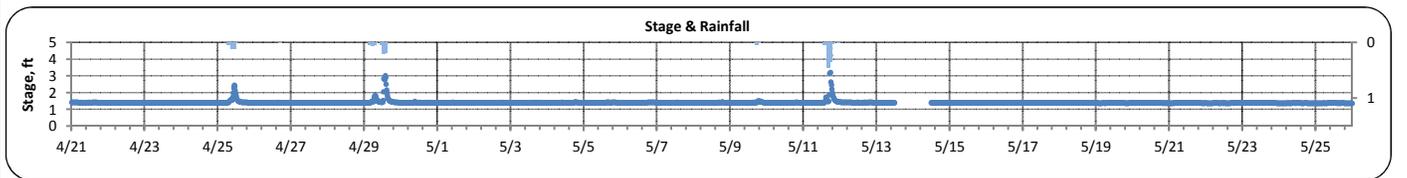
- The ROCA and ROCB rain gages both recorded 4 storm events during this monitoring period.
- The largest rain event from this deployment was recorded on May 11th, when both stations recorded just under 1 inch of rain.

Potential Illicit Discharges and Abnormal Events

- At ROCA, 11 potential illicit discharges were recorded:
 - 7 of these events were associated with the pool maintenance at Macxy Greg pool. These events were recorded on April 24th, 27th, and 30th, and May 1st, 3rd, 4th, and 5th.
 - From May 9th to May 10th, a slight increase in specific conductivity, pH, and turbidity was noted. This occurred during a very small rain event, and may have been the result of a spill or other surface deposit being transported to the creek.
 - 3 additional events were noted on May 16th, May 20th, and May 24th that caused small specific conductivity increases. These events may have been associated with the operation of the Maxcy Greg pool, but the observed increase during these events was much smaller than is typically seen during pool filter backwash periods.
- At ROCB, a number of sporadic increases in specific conductivity levels were observed on the following dates: April 24th-25th, April 26th, April 28th-29th, April 30th-May 1st, May 1st-2nd, May 3rd, May 4th-5th, May 7th, May 8th-9th, May 10th-11th, May 13th, May 15th-16th, May 17th-18th, May 23rd-24th.

Rocky Branch A (April 21, 2015 -- May 25, 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):	1.4	4.7	1.4	1.4	0.1
LOCATION:	Maxcy Gregg Park	TEMPERATURE (°F):	62	77	69	69	3
ADDRESS:	1650 Park Circle Columbia, SC 29201	TURBIDITY (NTU):	2	213	3	5	7
COORDINATES:	34.995864, -81.021842	pH:	6.3	7.2	6.6	6.6	0.1
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.022	2.49	0.151	0.156	0.097
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	4.9	9.3	7.5	7.4	0.8
SPATIAL LOCATION:	Most upstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	4						
MAX. DAILY RAINFALL:	0.9 inches						
TOTAL RAINFALL (FOR PERIOD):	1.9 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 A (April 21, 2015 -- May 25, 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.

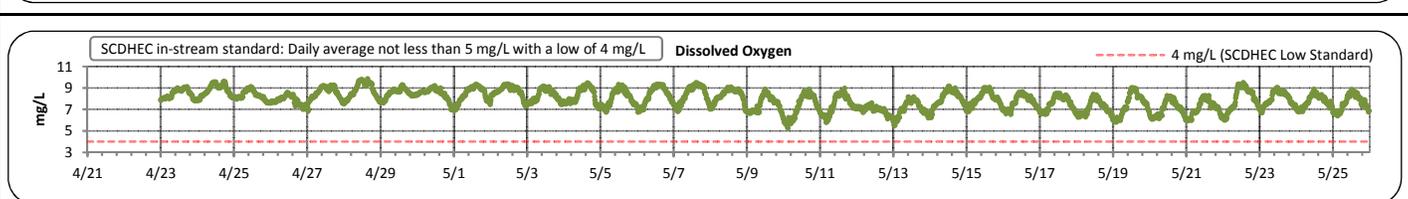
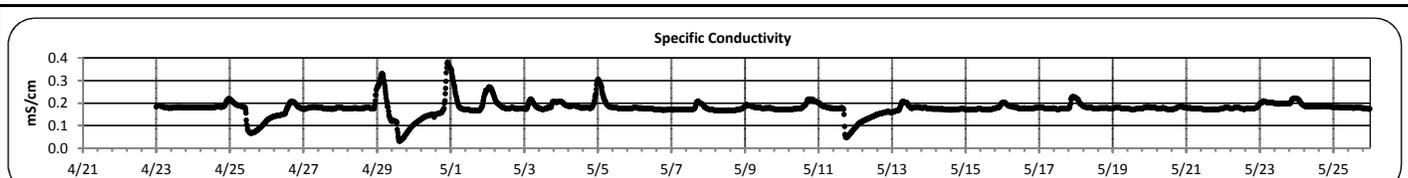
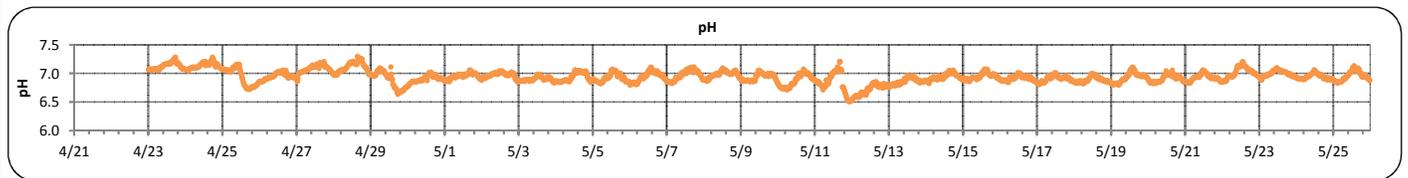
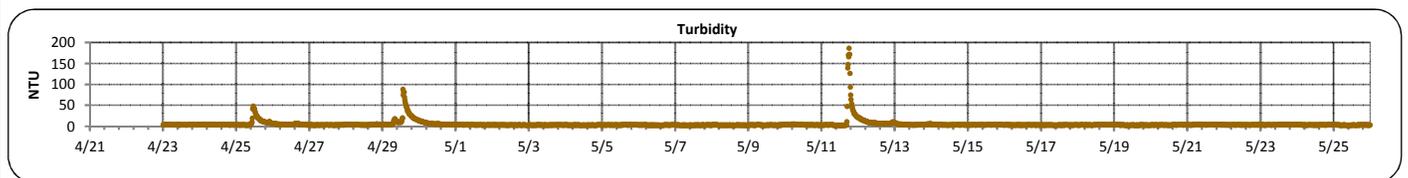
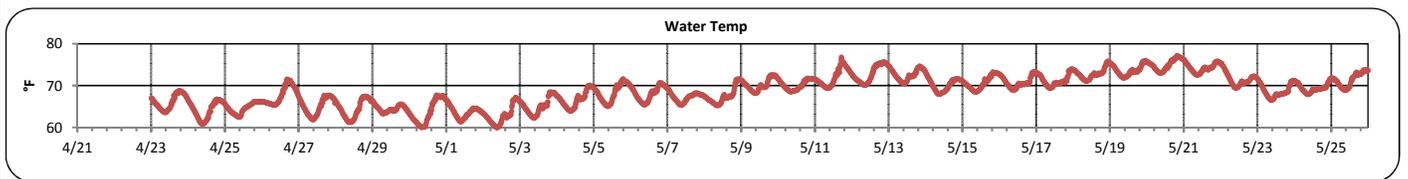
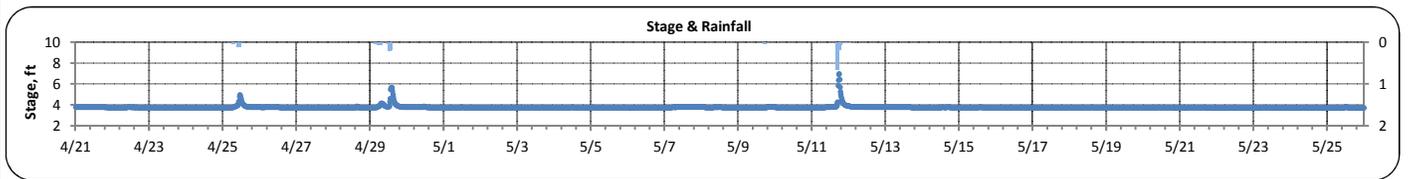
Grab Sample Data:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	Time	Result	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 (April 21, 2015 -- May 25, 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):	3.7	7.0	3.8	3.8	0.2
LOCATION:	Olympia Ave Crossing	TEMPERATURE (°F):	60	77	69	69	4
ADDRESS:	510 Heyward St Columbia, SC 29201	TURBIDITY (NTU):	2	186	3	5	9
COORDINATES:	33.982578, -81.035036	pH:	6.5	7.3	6.9	6.9	0.1
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.031	0.383	0.178	0.177	0.034
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	5.3	9.9	8.1	8.0	0.9
SPATIAL LOCATION:	Most Downstream Site						
TOTAL NO. STORMS OVER 0.1 INCH:	4						
MAX. DAILY RAINFALL:	0.9 inches						
TOTAL RAINFALL (FOR PERIOD):	1.9 inches						



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**Continuous Water Quality
Monitoring Periodic Report**

Rocky Branch B (April 21, 2015 -- May 25, 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		Sample 4	
	Time	Result	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: