

Kinley Creek Monitoring Sites

Data Gaps

- Neither of the Kinley Creek stations observed any data gap periods during this deployment.

SCDHEC Standards

- The Kinley Creek monitoring stations did not record any violations of the pH standard during this monitoring period.
- The KINA and KINB stations both recorded average DO concentrations above the 5.0 mg/L daily average SCDHEC standard, with the KINA stations recording an average of 5.1 mg/L and the KINB station recording an average of 5.8 mg/L. However, the minimum observed value of DO at both stations fell below the instantaneous SCDHEC standard of 4 mg/L, with minimums of 1.8 mg/L and 3.4 mg/L at the KINA and KINB stations, respectively. At the KINA station, these low DO values were recorded predominately during dry weather conditions. In contrast, at the KINB station, the low DO levels were seen during storm conditions.

Storm Events

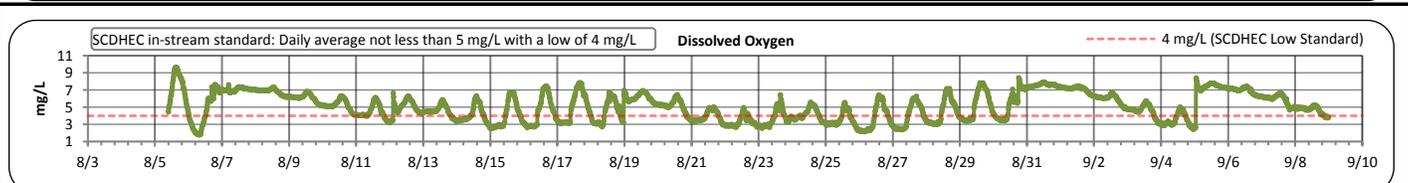
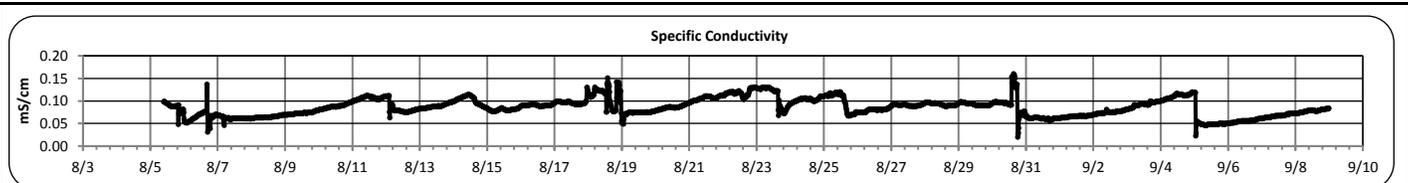
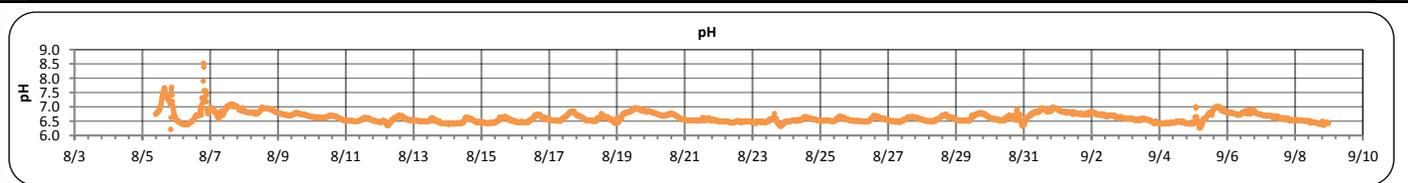
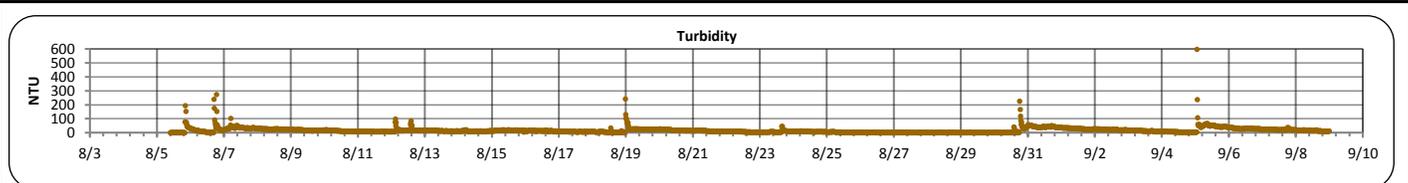
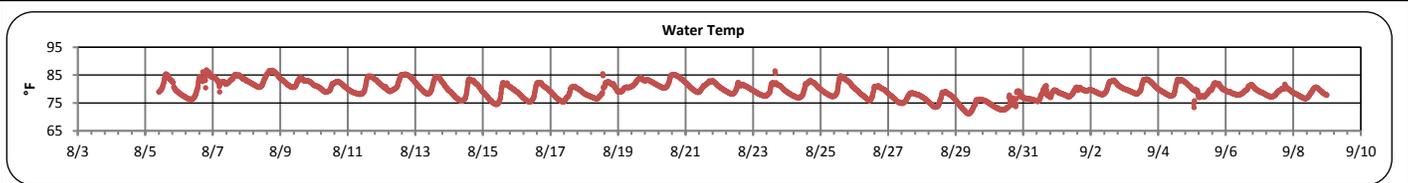
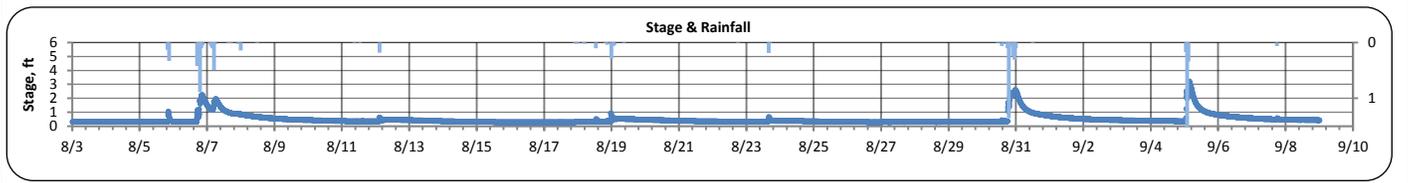
- The Kinley Creek rain gage recorded 8.8 inches of rain during this deployment period, significantly more than during the previous period.
- Three large rain events were recorded, occurring on August 6th, August 30th, and September 5th.

Potential Illicit Discharges and Abnormal Events

- The KINB station recorded five events during this monitoring period which may have been the result of illicit discharges. These events all caused moderate increases in specific conductivity levels in the creek, and two of the events also showed a slight decrease in DO levels. These events occurred on August 11th and 13th, as well as September 2nd, 3rd, and 6th.
- On August 19th, there was an increase in the turbidity levels in the creek up to 80 NTU, without an accompanied increase in stage. This was noted during the receding limb of a small storm hydrograph.

Kinley Creek A (August 3, 2015 -- September 9, 2015)

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Kinley Creek	STAGE (FT):	0.3	3.2	0.4	0.5	0.4
LOCATION:	Longhorn Steakhouse	TEMPERATURE (°F):	71	87	80	80	3
ADDRESS:	171 Harbison Blvd Columbia, SC 29212	TURBIDITY (NTU):	1	598	14	17	20
COORDINATES:	34.069897, -81.164592	pH:	6.2	8.5	6.6	6.6	0.2
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.02	0.16	0.086	0.086	0.020
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	1.8	9.7	5.1	5.1	1.6
SPATIAL LOCATION:	Most upstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	10						
MAX. DAILY RAINFALL:	2.6 inches						
TOTAL RAINFALL (FOR PERIOD):	8.8 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**

Kinley Creek A (August 3, 2015 -- September 9, 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.

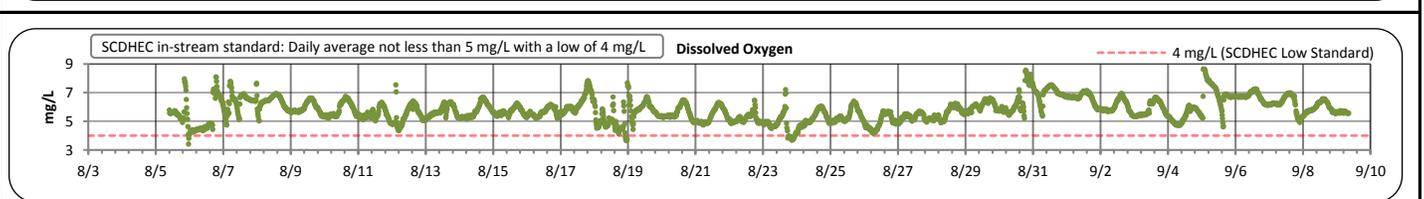
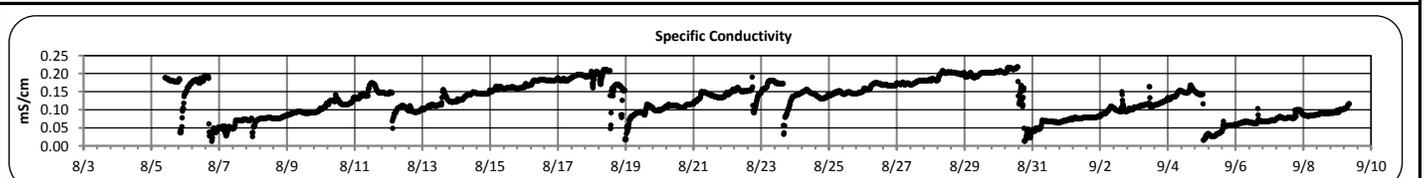
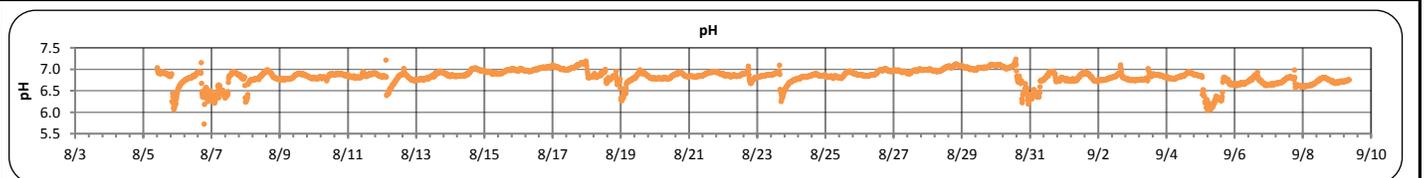
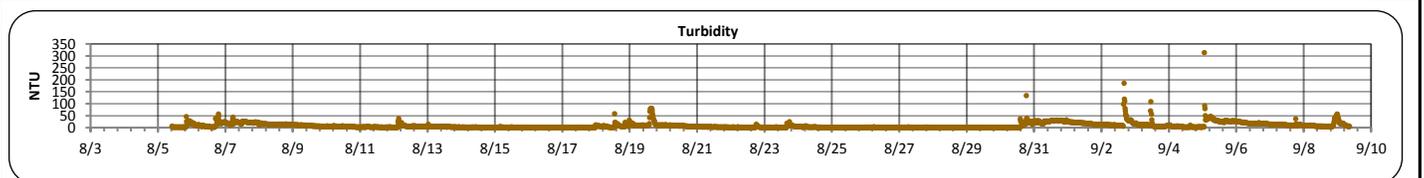
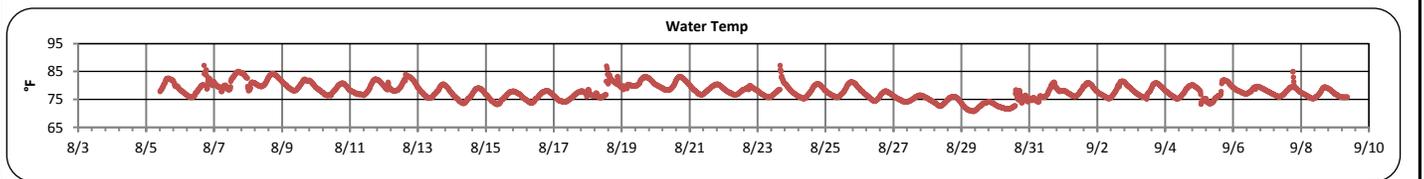
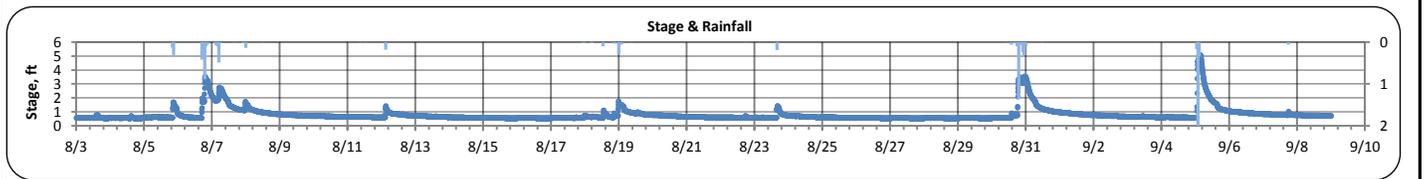
Grab Sample Data:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	8/18/2015							
	Time	Result	Time	Result	Time	Result	Time	Result
<i>Escherichia coli</i> (MPN/100mL)	9:58	2,748						
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Note: Sample was collected during dry conditions at baseflow.

Kinley Creek B (August 3, 2015 -- September 9, 2015)

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Kinley Creek	STAGE (FT):	0.5	5.1	0.6	0.8	0.5
LOCATION:	Broken Hill Rd	TEMPERATURE (°F):	71	87	78	78	3
ADDRESS:	609 Broken Hill Rd Columbia, SC 29212	TURBIDITY (NTU):	1	314	5	9	13
COORDINATES:	34.06635, -81.159986	pH:	5.7	7.2	6.9	6.8	0.2
TMDL/IMPAIRED:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.013	0.219	0.13	0.126	0.047
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	3.4	8.7	5.7	5.8	0.8
SPATIAL LOCATION:	Most downstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	10						
MAX. DAILY RAINFALL:	2.6 inches						
TOTAL RAINFALL (FOR PERIOD):	8.8 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**

Kinley Creek B (August 3, 2015 -- September 9, 2015)

Explanation of Statistics:

MINIMUM OBSERVED	The minimum of the values recorded by the datasonde in 15 minute intervals.
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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	
	8/18/2015							
	Time	Result	Time	Result	Time	Result	Time	Result
<i>Escherichia coli</i> (MPN/100mL)	10:16	538						
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Note: Sample was collected during dry conditions at baseflow.