

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 measured average DO concentrations during this period of 5.3 and 5.2 mg/L, respectively. These relatively low DO values are above the daily average SCDHEC standard. However, both stations recorded minimum DO values below the 4 mg/L instantaneous standard, likely as the result of a combination of warm water temperatures and drought conditions during the deployment period.² The KINB station exhibited low DO concentrations following two very small storm events, the evening of July 18th and 24th.

Storm Events

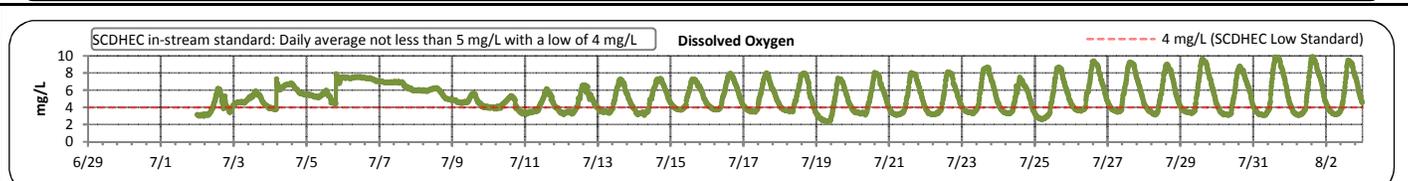
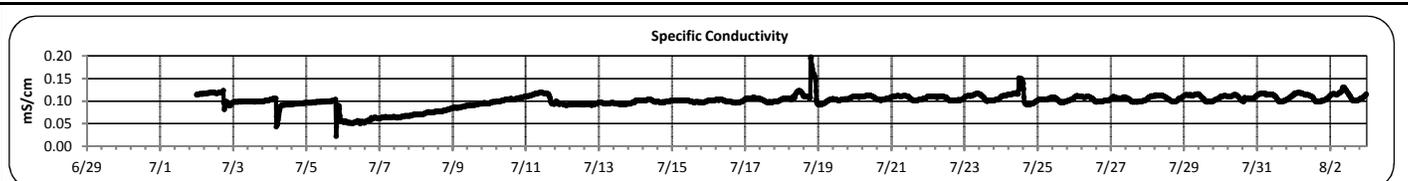
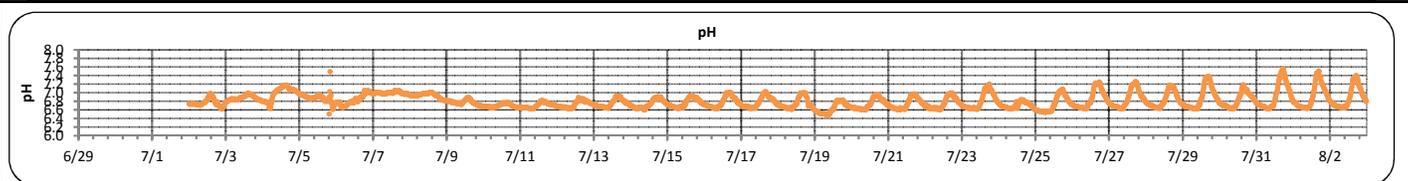
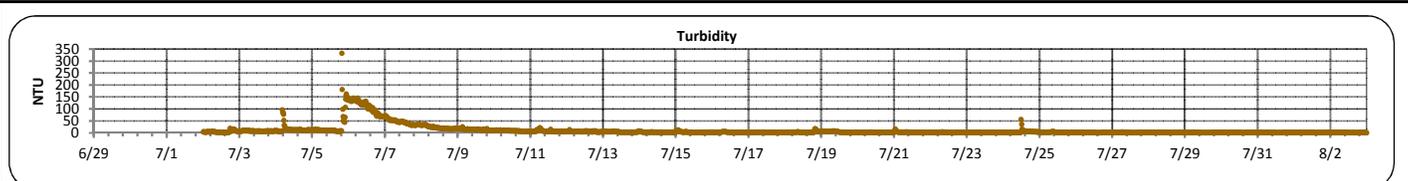
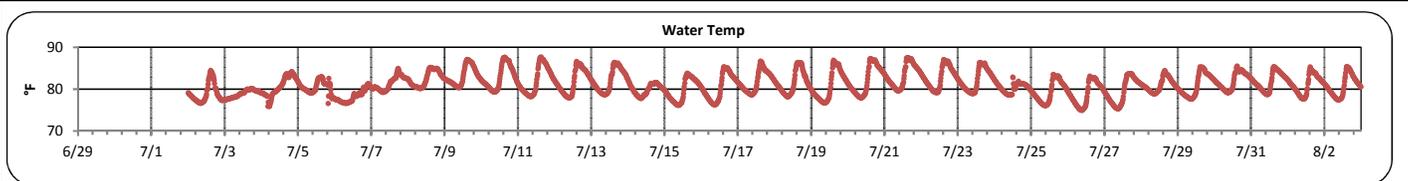
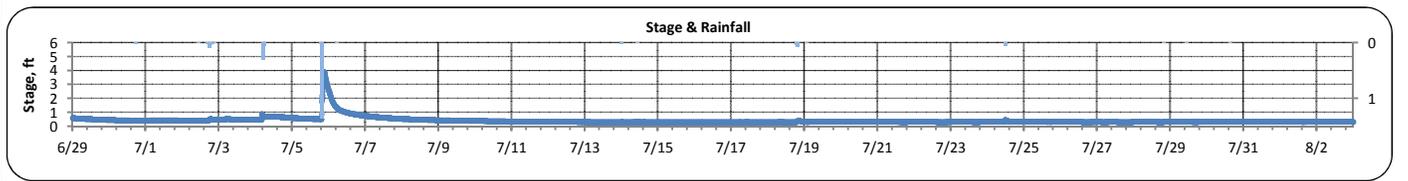
- Very little rain was recorded at the Kinley Creek rain gage during this monitoring period. The US Drought monitor classified Richland County as “Abnormally Dry” at the beginning of this deployment, and had moved it to a state of moderate drought by the end of the deployment.²

Potential Illicit Discharges and Abnormal Events

- The KINB station recorded four 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, along with slight increases in the pH, turbidity, and stage. These events occurred on July 10th (two similar events), July 13th, and July 17th.

Kinley Creek A (June 29, 2015 -- August 2, 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	3.9	0.3	0.4	0.3
LOCATION:	Longhorn Steakhouse	TEMPERATURE (°F):	75	88	81	81	3
ADDRESS:	171 Harbison Blvd Columbia, SC 29212	TURBIDITY (NTU):	1	333	3	10	23
COORDINATES:	34.069897, -81.164592	pH:	6.5	7.6	6.8	6.8	0.2
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.022	0.198	0.102	0.100	0.015
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	2.4	9.9	5.0	5.3	1.7
SPATIAL LOCATION:	Most upstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	4						
MAX. DAILY RAINFALL:	1.4 inches						
TOTAL RAINFALL (FOR PERIOD):	2.3 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 (June 29, 2015 -- August 2, 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.

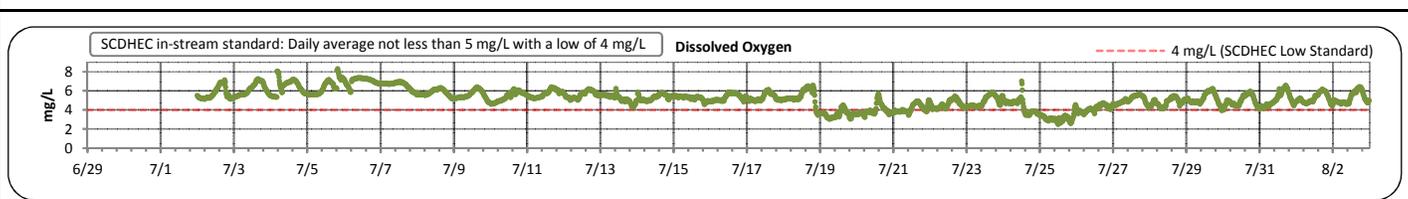
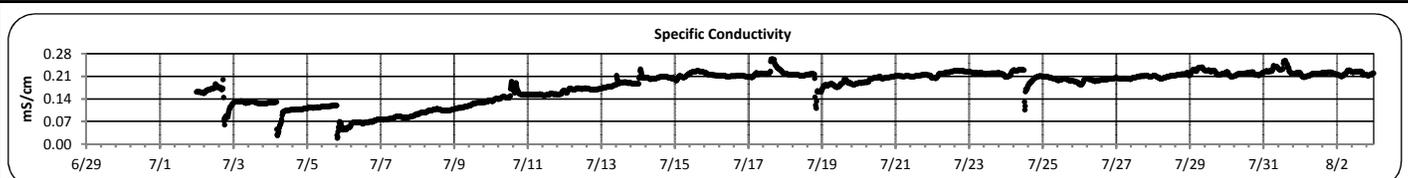
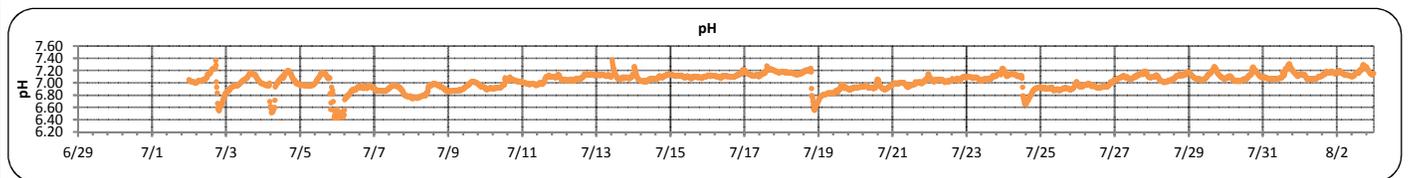
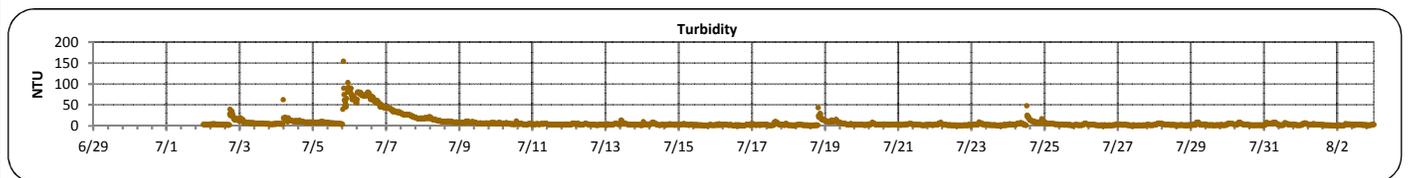
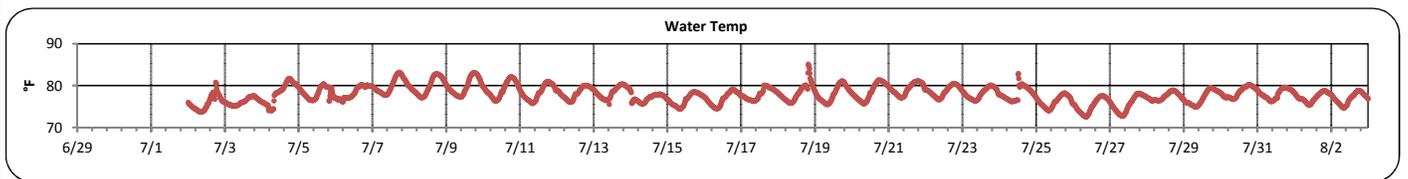
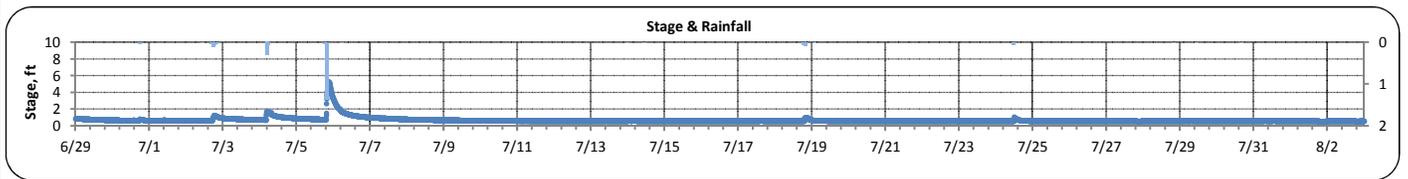
Grab Sample Data:

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:

Kinley Creek B (June 29, 2015 -- August 2, 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	5.3	0.6	0.7	0.3
LOCATION:	Broken Hill Rd	TEMPERATURE (°F):	73	85	78	78	2
ADDRESS:	609 Broken Hill Rd Columbia, SC 29212	TURBIDITY (NTU):	1	155	3	8	13
COORDINATES:	34.06635, -81.159986	pH:	6.4	7.4	7.1	7.0	0.1
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.018	0.263	0.204	0.180	0.049
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	2.5	8.3	5.3	5.2	1.0
SPATIAL LOCATION:	Most downstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	4						
MAX. DAILY RAINFALL:	1.4 inches						
TOTAL RAINFALL (FOR PERIOD):	2.3 inches						



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**Continuous Water Quality
Monitoring Periodic Report**

Kinley Creek B (June 29, 2015 -- August 2, 2015)

Explanation of Statistics:

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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	
	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: