

Kinley Creek Monitoring Sites

Data Gaps

- At KINA, the turbidity probe became fouled for one period, between October 10th and October 13th; this fouling was corrected by field maintenance.
- At the KINB station, no sensor fouling incidents occurred during this deployment.

SCDHEC Standards

- The average DO value at KINA was 5.7 mg/L during this monitoring period, above the SCDHEC daily average standard of 5 mg/L. However, the continuous 15-minute recorded DO values at
- KINA did contravene the instantaneous minimum of 4 mg/L on several occasions. It should be noted that DO levels at KINA increased significantly following every storm event.
- The KINB station had an average DO value of 6.8 mg/L for this deployment period, well above the 5 mg/L daily average limit set by SCDHEC. The continuous data had a minimum of 4.6 mg/L, which is also above the 4 mg/L instantaneous DO limit.
- The pH standards were not contravened at either site during this monitoring period.

Storm Events

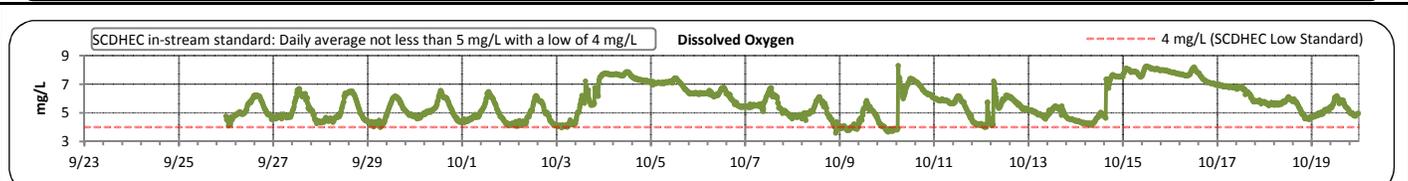
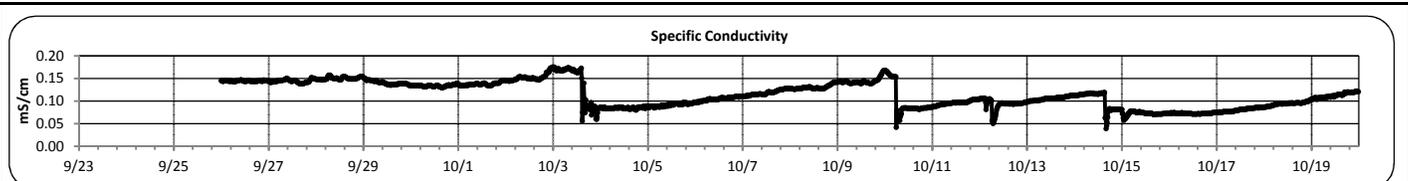
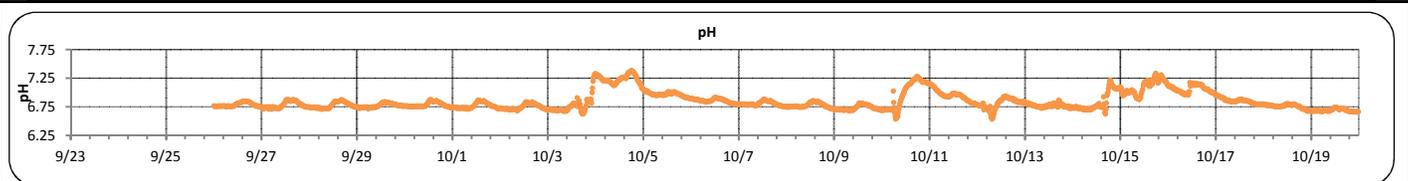
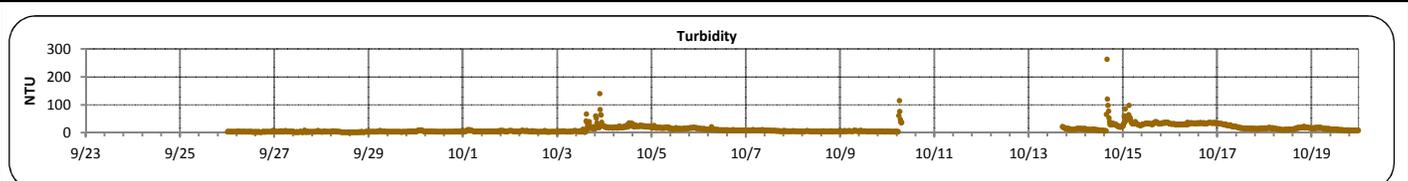
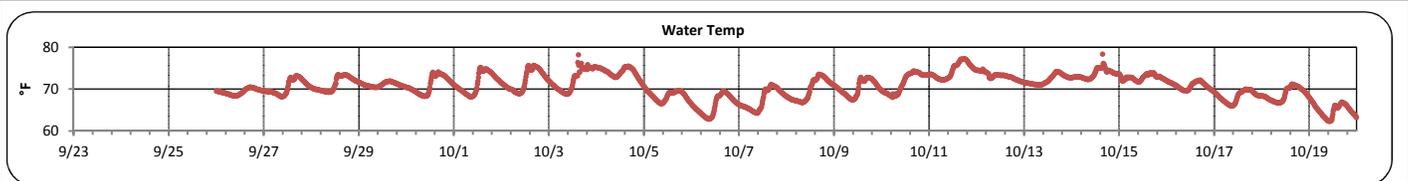
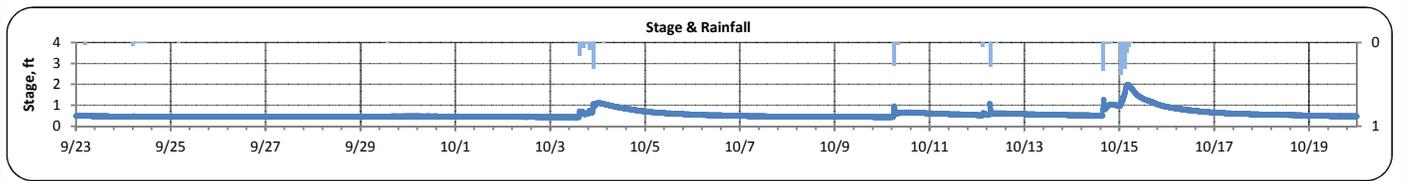
- The KIN rain gage recorded 5 storm events during this monitoring period.
- The most significant rain event during this deployment period occurred on October 15th, when 1.2 inches of rain were recorded at the KIN rain gage.

Potential Illicit Discharges

- At KINB, several potential illicit discharge events were noted:
 - On September 27th, from 3pm-6pm, the conductivity and pH in the stream increased slightly.
 - On October 6th, between the hours of 4pm and 10pm, the turbidity in Kinley Creek increased to a level of 26 NTU. No other monitored water quality parameters were affected.
 - Several other small illicit discharge events were noted at the KINB site, occurring on October 7th, 11th, 17th, and 18th.

Kinley Creek A (Sept 23, 2014 -- Oct 19, 2014)

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Kinley Creek	STAGE (FT):	0.4	2.0	0.5	0.6	0.2
LOCATION:	Longhorn Steakhouse	TEMPERATURE (°F):	62	78	71	71	3
ADDRESS:	171 Harbison Blvd Columbia, SC 29212	TURBIDITY (NTU):	2	263	8	12	13
COORDINATES:	34.069897, -81.164592	pH:	6.5	7.4	6.8	6.9	0.2
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.039	0.175	0.112	0.114	0.029
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	3.6	8.3	5.6	5.7	1.2
SPATIAL LOCATION:	Most upstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	5						
MAX. DAILY RAINFALL:	1.2 inches						
TOTAL RAINFALL (FOR PERIOD):	3.1 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 (Sept 23, 2014 -- Oct 19, 2014)

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.

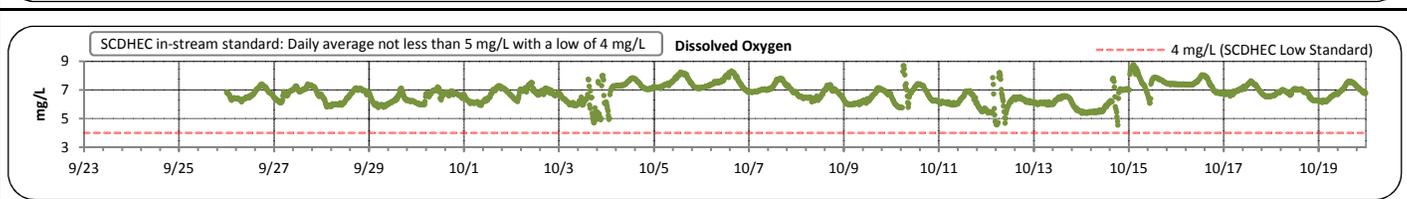
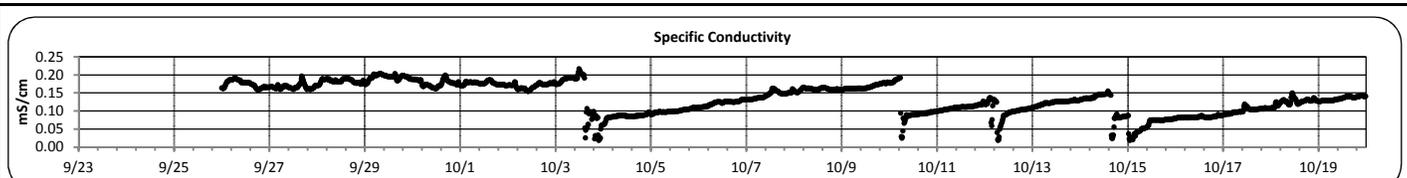
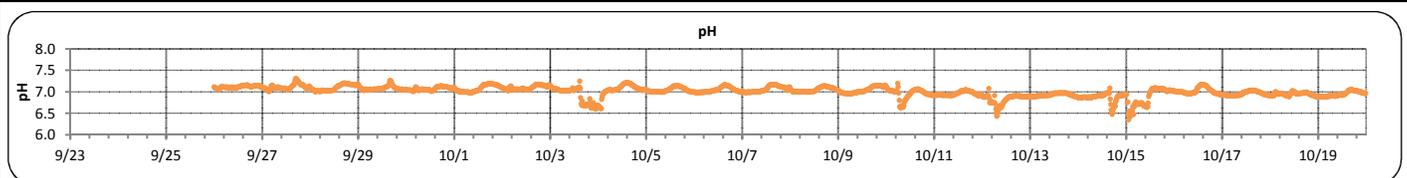
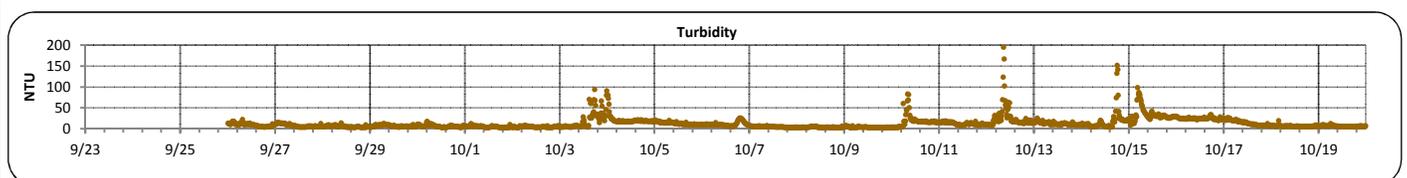
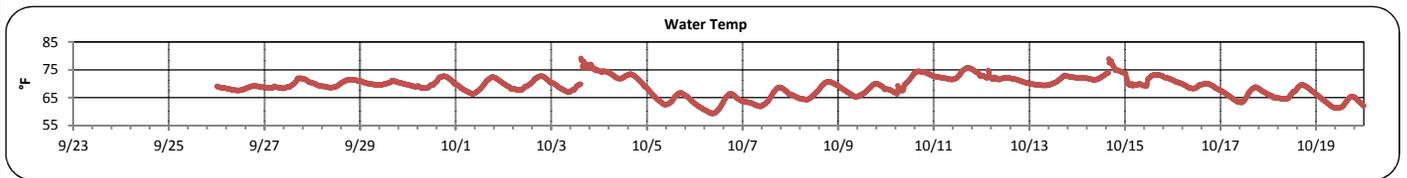
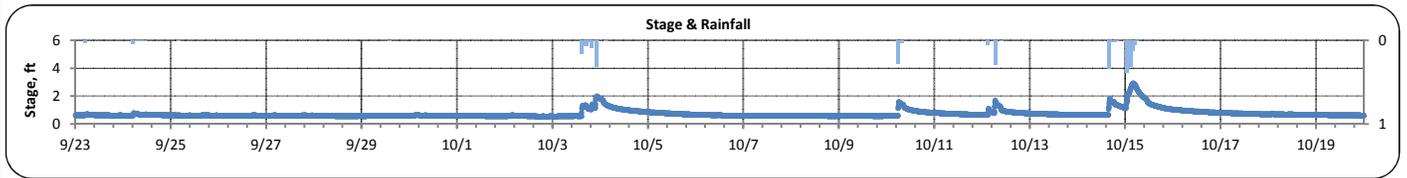
Grab Sample Data:

Analyte (units)	Sample 1		Sample 2		Sample 3	
	10/7/2014					
	Time	Result	Time	Result	Time	Result
<i>Escherichia coli</i> (MPN/100mL)	9:33	839.0				
Total Suspended Solids (mg/L)						
Total Phosphorus (mg/L)						
Total Nitrogen (mg/L)						

Notes: Dry weather grab samples were collected on 10/7/2014 to aide in establishing an E. coli background level.

Kinley Creek B (Sept 23, 2014 -- Oct 19, 2014)

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	2.9	0.6	0.7	0.3
LOCATION:	Broken Hill Rd	TEMPERATURE (°F):	59	79	69	69	3
ADDRESS:	609 Broken Hill Rd Columbia, SC 29212	TURBIDITY (NTU):	2	195	9	13	14
COORDINATES:	34.06635, -81.159986	pH:	6.4	7.3	7.0	7.0	0.1
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.019	0.217	0.133	0.135	0.041
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	4.6	8.8	6.8	6.8	0.7
SPATIAL LOCATION:	Most downstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	5						
MAX. DAILY RAINFALL:	1.2 inches						
TOTAL RAINFALL (FOR PERIOD):	3.1 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 (Sept 23, 2014 -- Oct 19, 2014)

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	
	10/7/2014					
	Time	Result	Time	Result	Time	Result
<i>Escherichia coli</i> (MPN/100mL)	9:48	279				
Total Suspended Solids (mg/L)						
Total Phosphorus (mg/L)						
Total Nitrogen (mg/L)						

Notes: Dry weather grab samples were collected on 10/7/2014 to aide in establishing an E. coli background level.