

Kinley Creek Monitoring Sites

Monitoring Data Summary for October 26th, 2017 – November 30th, 2017

Data Gaps

- The KINA station did not experience any data gaps during this deployment period.
- The KINB station experienced some turbidity fouling from November 8th – 11th, and that fouling period of data was removed from the dataset.

SCDHEC Standards

- Neither of the Kinley Creek monitoring stations recorded pH readings outside of the SCDHEC acceptable range of 6 to 8.5.
- KINA and KINB stations recorded average DO concentrations of 7.2 mg/L and 7.0 mg/L, respectively, well above the SCDHEC daily average standard of 5 mg/L.
- The instantaneous minimum DO values recorded at the KINA and KINB stations were 4.3 mg/L and 4.6 mg/L, respectively.

Storm Events

- The Kinley rain gauge recorded three storm events over this deployment period that resulted in 1.3 inches of precipitation.
- Both KINA and KINB stations recorded typical storm event responses during this monitoring period.
- The maximum antecedent dry time since the last significant precipitation event (at least 0.1 inches) was approximately 16.4 days in the Kinley Creek watershed occurring prior to the November 9th storm event.

Potential Illicit Discharges and Abnormal Events

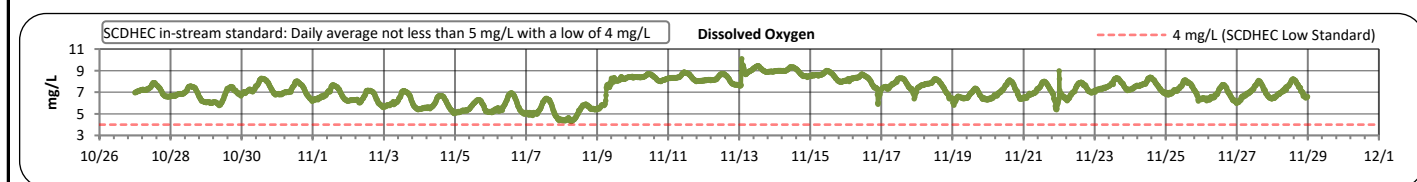
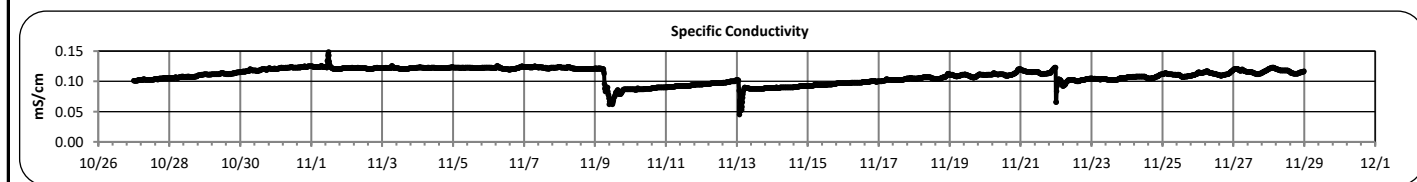
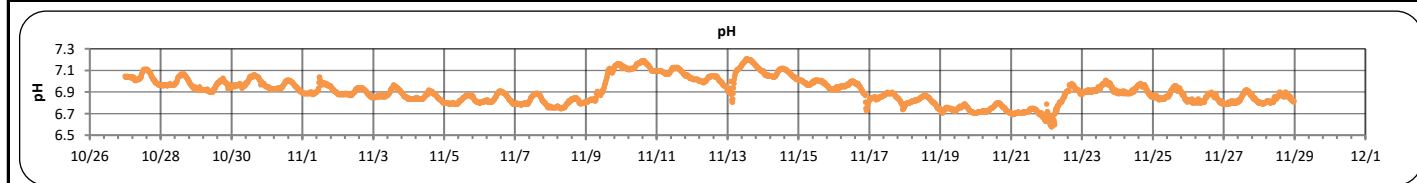
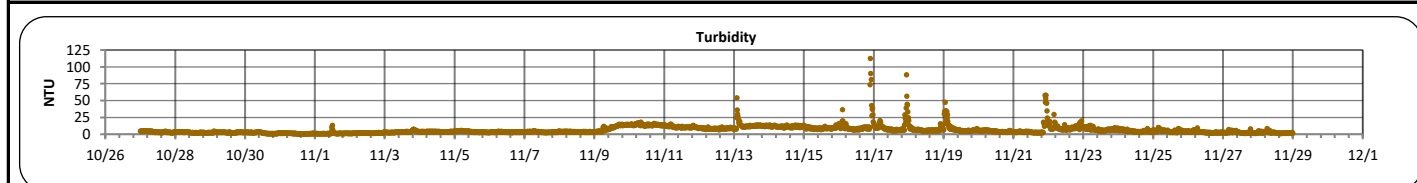
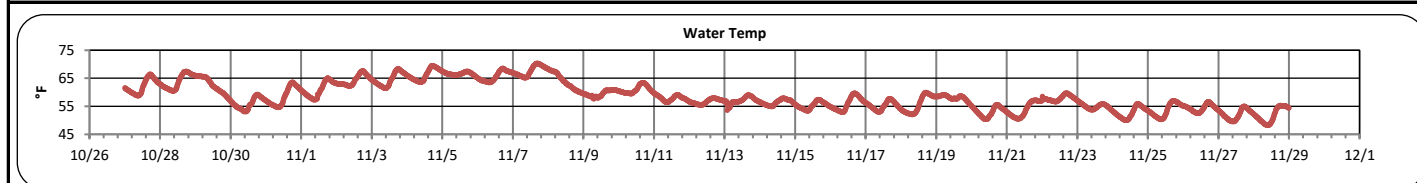
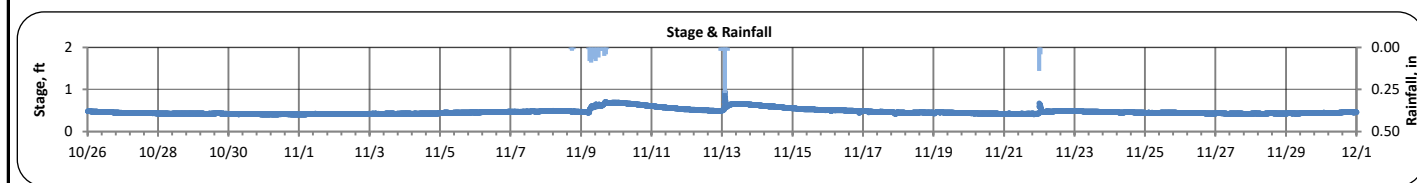
- KINA experienced a strange pattern in turbidity, DO, and pH during a dry period from November 16th – 20th.
- KINA also experienced a short period of potential illicit discharge activity in the middle of the day on November 1st that slightly impacted all water quality parameters.

Flow Measurements

- There were not any flow measurements taken at the Kinley Creek stations during this deployment period.

Kinley Creek A (October 26, 2017 -- November 30, 2017)

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	0.9	0.5	0.5	0.1
LOCATION:	Longhorn Steakhouse	TEMPERATURE (°F):	48	70	58	59	5
ADDRESS:	171 Harbison Blvd Columbia, SC 29212	TURBIDITY (NTU):	1	113	4	6	6
COORDINATES:	34.069897, -81.164592	pH:	6.6	7.2	6.9	6.9	0.1
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.045	0.149	0.111	0.109	0.012
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	4.3	10.1	7.2	7.2	1.1
SPATIAL LOCATION:	Most upstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	3						
MAX. DAILY RAINFALL:	0.7 inches						
TOTAL RAINFALL (FOR PERIOD):	1.3 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 (October 26, 2017 -- November 30, 2017)

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.

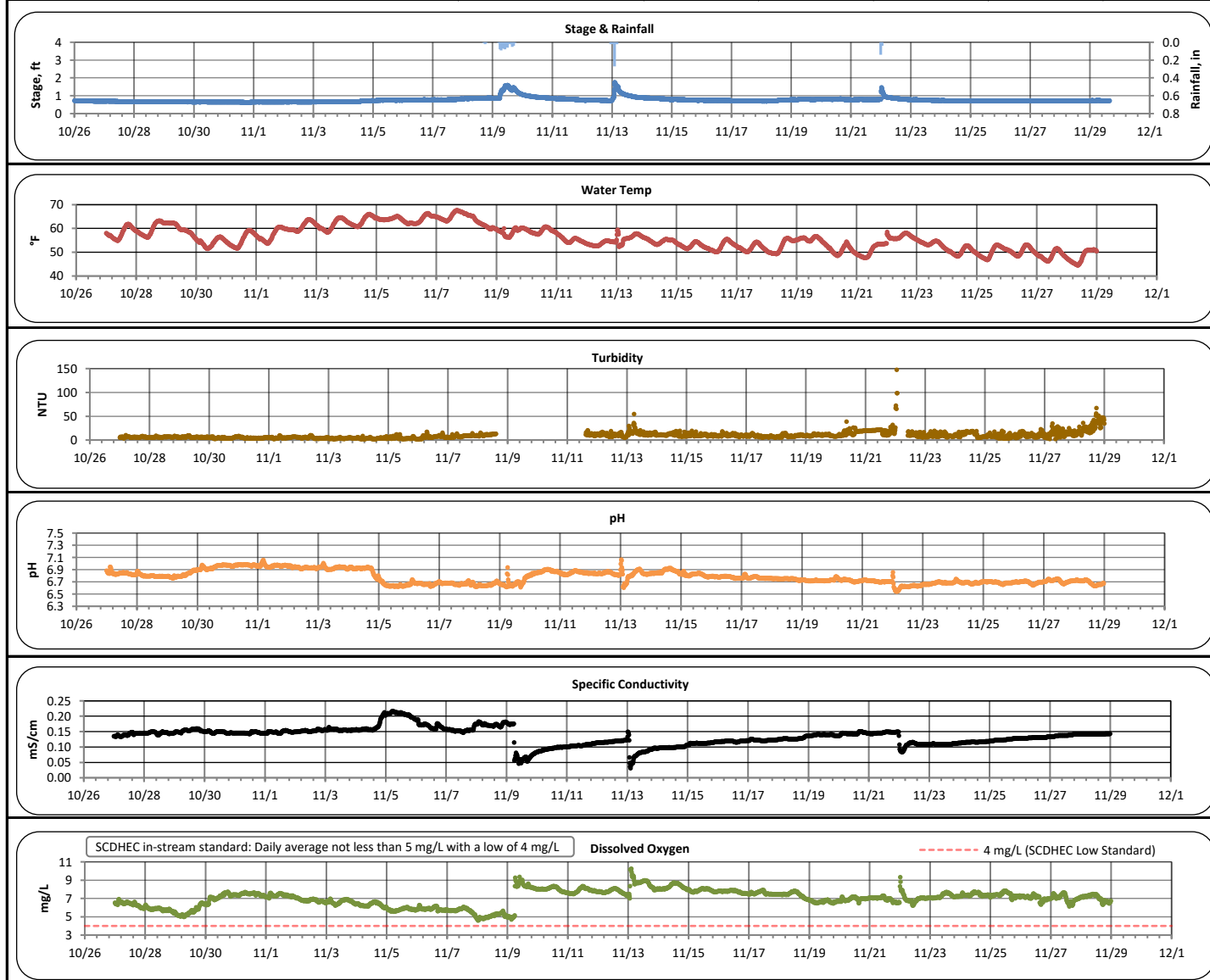
Grab Sample Data:

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 (October 26, 2017 -- November 30, 2017)

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Kinley Creek	STAGE (FT):	0.6	1.8	0.7	0.8	0.1
LOCATION:	Broken Hill Rd	TEMPERATURE (°F):	45	68	55	56	5
ADDRESS:	609 Broken Hill Rd Columbia, SC 29212	TURBIDITY (NTU):	2	148	9	10	7
COORDINATES:	34.06635, -81.159986	pH:	6.6	7.1	6.8	6.8	0.1
TMDL/IMPAIMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.031	0.216	0.14	0.135	0.028
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	4.6	10.3	7.2	7.0	0.9
SPATIAL LOCATION:	Most downstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	3						
MAX. DAILY RAINFALL:	0.7 inches						
TOTAL RAINFALL (FOR PERIOD):	1.3 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 B (October 26, 2017 -- November 30, 2017)

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: