

Kinley Creek Monitoring Sites

Monitoring Data Summary for July 20th, 2020 – August 26th, 2020

Data Gaps

- The KINA station did not experience any interruptions in the data during this monitoring period.
- At the KINB station, there was significant fouling in the turbidity sensor from August 16th-19th as it was buried in sediment, and the specific conductivity sensor experienced multiple periods of fouling from July 20th-23rd, July 28th-29th, August 1st-3rd, August 5th-6th, and August 14th. These periods of data were removed from the dataset.
- DO data was not available at both stations for this monitoring period because the sensors were out for repairs.

SCDHEC Standards

- None of the Kinley Creek monitoring stations recorded any pH readings outside of the acceptable SCDHEC range of 6 to 8.5.

Storm Events

- The rain gauge along Kinley Creek recorded 13 storm events during this deployment period that resulted in a total of 7.3 inches of precipitation.
- Both the KINA and KINB stations recorded typical storm response patterns during this monitoring period.

Potential Illicit Discharges and Abnormal Events

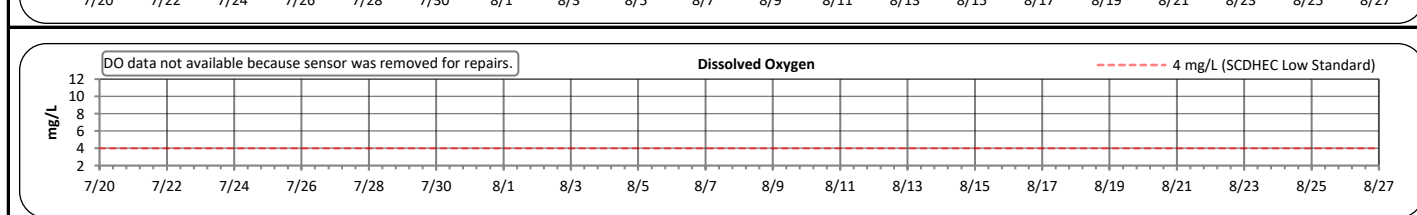
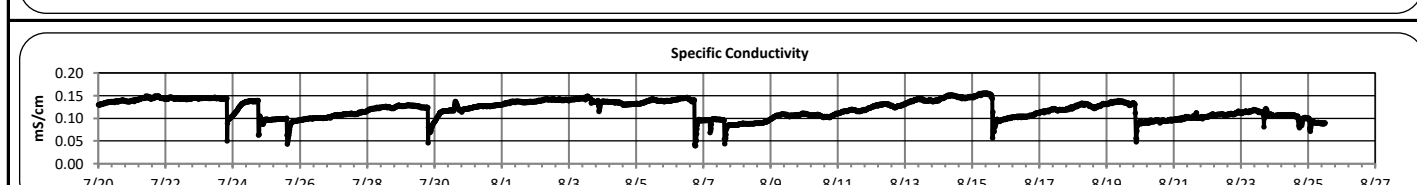
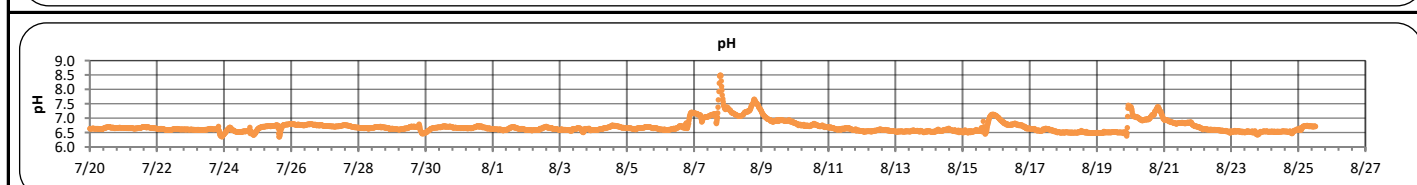
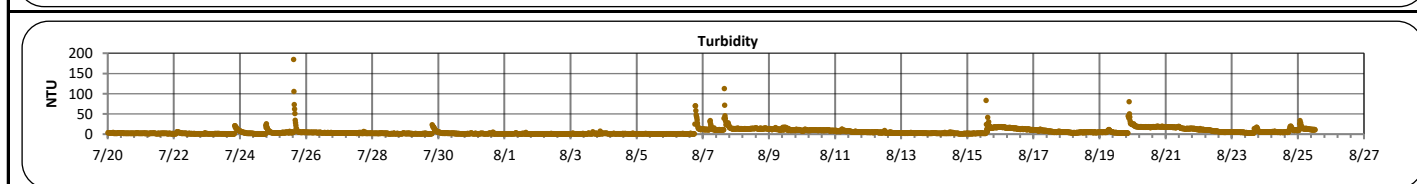
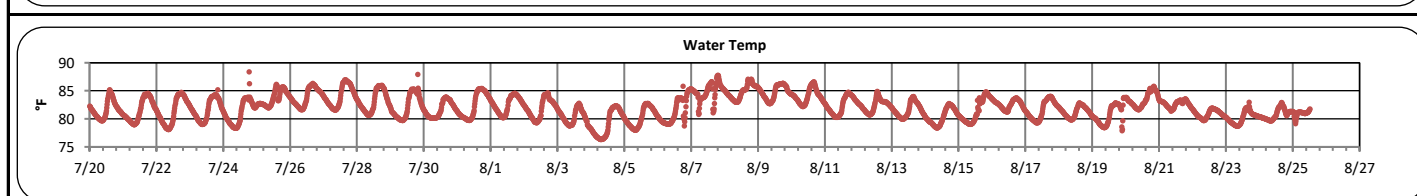
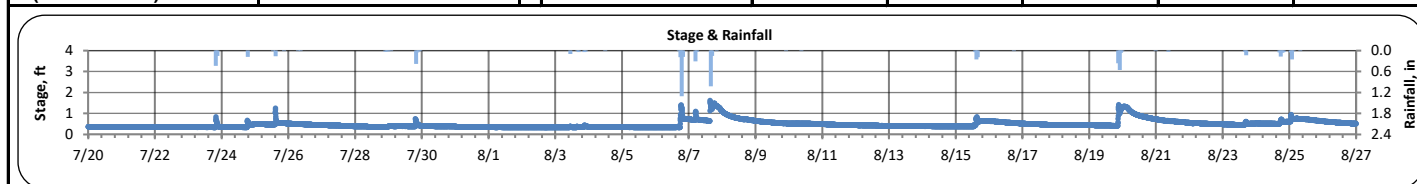
- There were no abnormal events during this monitoring period.

Flow Measurements

- No flow measurements were taken in the Kinley Creek watershed during this monitoring period.

Kinley Creek A (July 20, 2020 - August 26, 2020)

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	1.6	0.4	0.5	0.2
LOCATION:	Longhorn Steakhouse	TEMPERATURE (°F):	76	88	82	82	2
ADDRESS:	171 Harbison Blvd Columbia, SC 29212	TURBIDITY (NTU):	1	185	4	7	8
COORDINATES:	34.069897, -81.164592	pH:	6.4	8.5	6.7	6.7	0.2
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.040	0.155	0.123	0.120	0.020
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	-	-	-	-	-
SPATIAL LOCATION:	Most upstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	13						
MAX. DAILY RAINFALL:	1.7 inches						
TOTAL RAINFALL (FOR PERIOD):	7.3 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 (July 20, 2020 - August 26, 2020)

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.

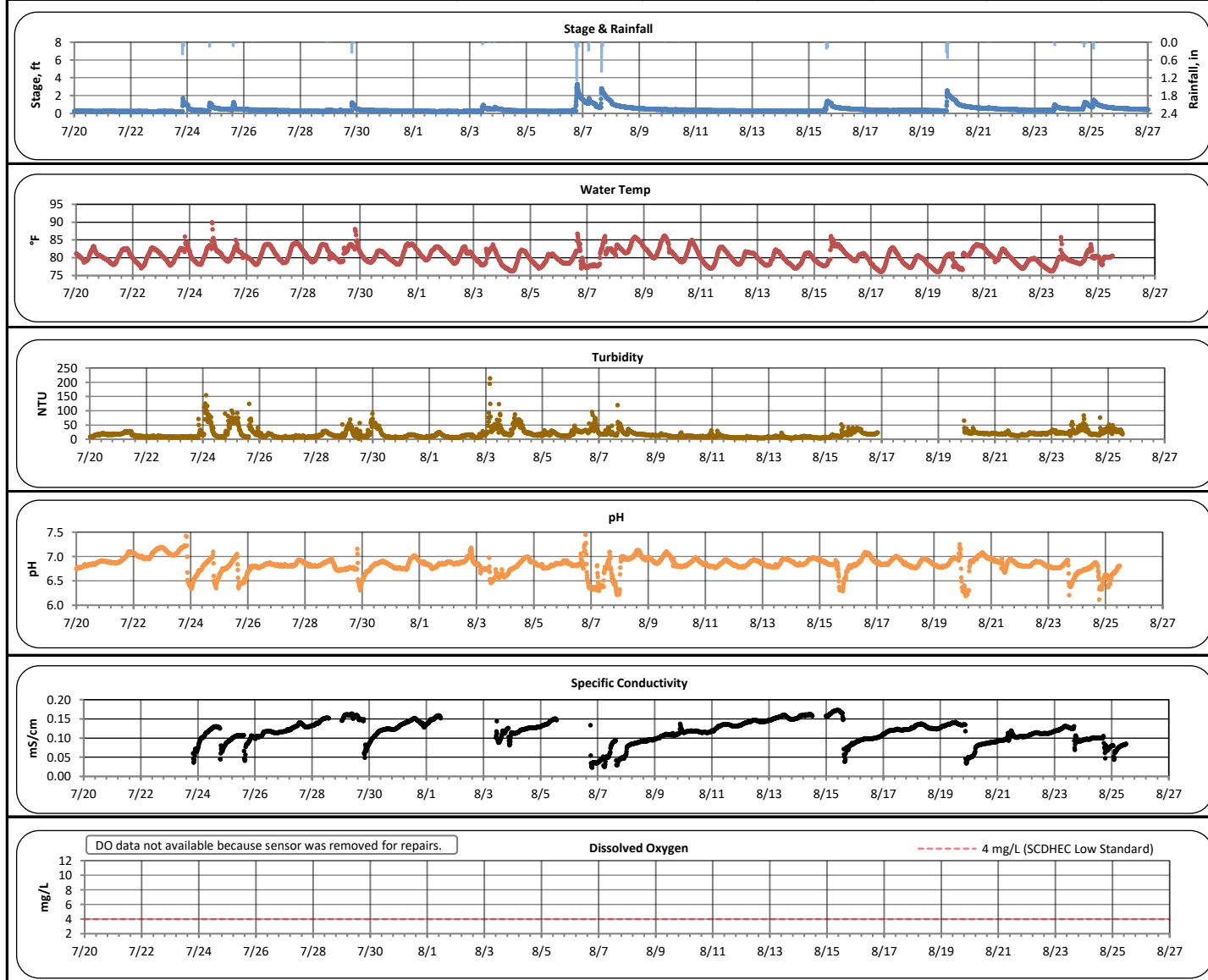
Grab Sample Data:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4		Sample 5	
	8/21/2020									
	Time	Result	Time	Result	Time	Result	Time	Result	Time	Result
<i>Escherichia coli</i> (MPN/100mL)	9:05	6882								
Total Suspended Solids (mg/L)	9:05	9.4								
Total Phosphorus (mg/L)	9:05	0.078								
Total Nitrogen (mg/L)	9:05	1.51								

Note: Sample 1 was taken during wet weather conditions.

Kinley Creek B (July 20, 2020 - August 26, 2020)

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Kinley Creek	STAGE (FT):	0.2	3.3	0.3	0.4	0.3
LOCATION:	Broken Hill Rd	TEMPERATURE (°F):	76	90	80	80	2
ADDRESS:	609 Broken Hill Rd Columbia, SC 29212	TURBIDITY (NTU):	2	213	15	19	16
COORDINATES:	34.06635, -81.159986	pH:	6.1	7.5	6.8	6.8	0.2
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.024	0.173	0.118	0.115	0.029
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	-	-	-	-	-
SPATIAL LOCATION:	Most downstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	13						
MAX. DAILY RAINFALL:	1.7 inches						
TOTAL RAINFALL (FOR PERIOD):	7.3 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 (July 20, 2020 - August 26, 2020)

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		Sample 5	
	8/21/2020									
	Time	Result	Time	Result	Time	Result	Time	Result	Time	Result
<i>Escherichia coli</i> (MPN/100mL)	9:19	12,980								
Total Suspended Solids (mg/L)		9.1								
Total Phosphorus (mg/L)		0.088								
Total Nitrogen (mg/L)		1.24								

Note: Sample 1 was taken during wet weather conditions.