

Kinley Creek Monitoring Sites

Monitoring Data Summary for March 24th, 2021 – April 27th, 2021

Data Gaps

- At the KINA station, the turbidity sensor was briefly buried on March 28th-29th, March 31st, and April 5th, so those periods of turbidity data were removed.
- At the KINB station, DO data was not recorded during this monitoring period because the sensor was out for repairs. There were no other data gaps during this monitoring period.

SCDHEC Standards

- None of the Kinley Creek monitoring stations recorded any pH readings outside of the acceptable SCDHEC range of 6 to 8.5.
- The KINA station recorded an average DO concentration of 6.1 mg/L, which is above the SCDHEC daily average standard of 5 mg/L.
- The instantaneous minimum DO value recorded at the KINA station was 3.5 mg/L, which is below the SCDHEC instantaneous minimum standard of 4 mg/L.

Storm Events

- The rain gauge along Kinley Creek recorded 5 storm events during this deployment period that resulted in a total of 1.8 inches of precipitation.
- Both the KINA and KINB stations recorded typical storm response patterns during this monitoring period.

Potential Illicit Discharges and Abnormal Events

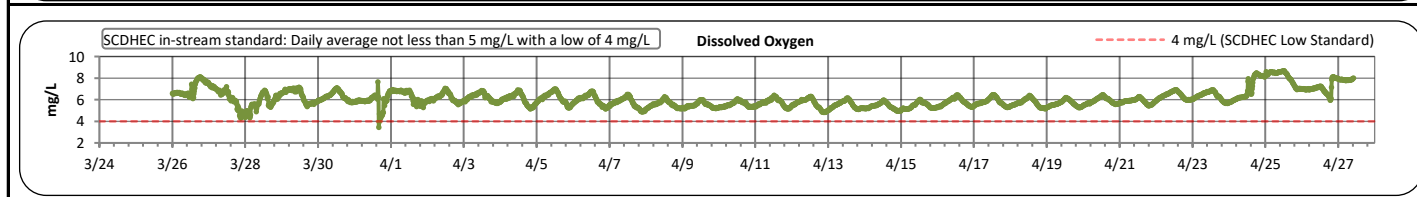
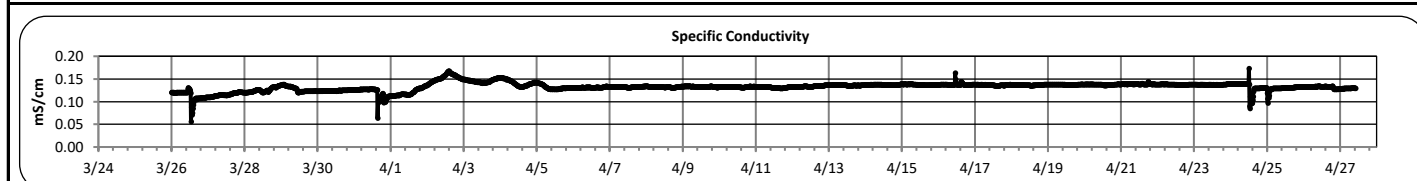
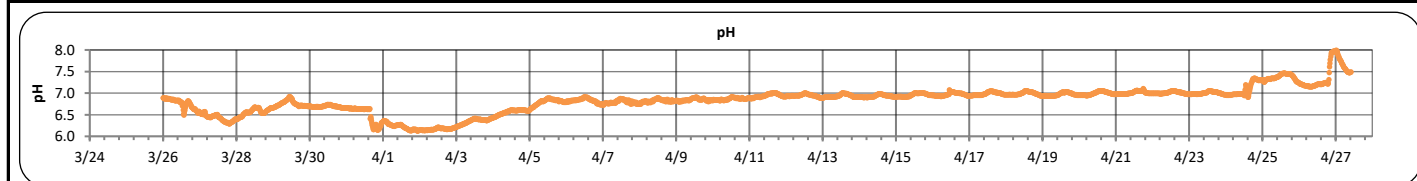
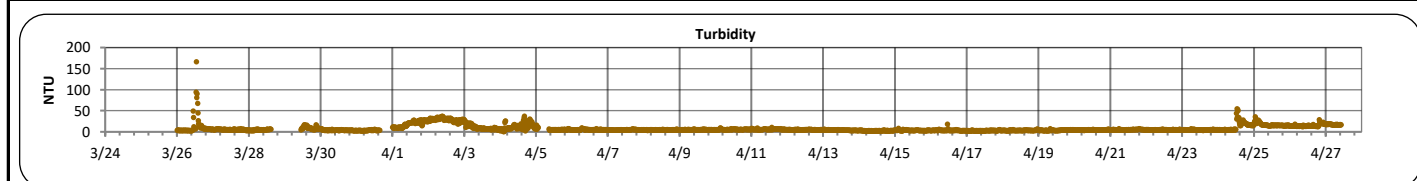
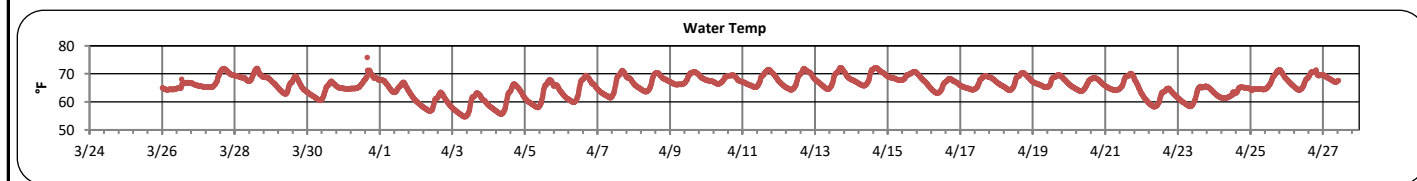
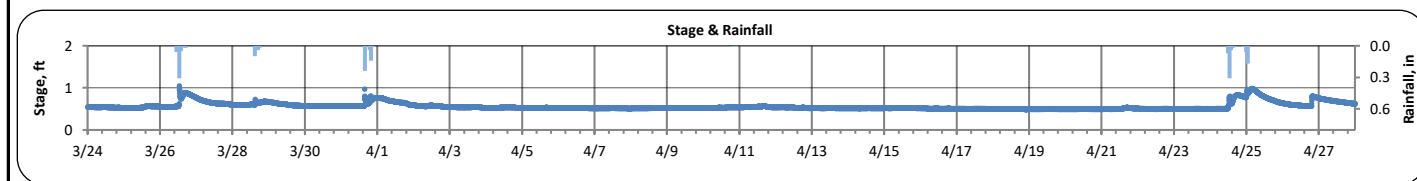
- At the KINA station, the specific conductivity was elevated on April 2nd-4th and April 16th, which may have been the result of illicit discharges.
- At the KINB station, the specific conductivity was elevated on April 2nd-7th and April 16th, which may have been the result of illicit discharges.

Flow Measurements

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

Kinley Creek A (March 24, 2021 - April 27, 2021)

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	1.0	0.5	0.6	0.1
LOCATION:	Longhorn Steakhouse	TEMPERATURE (°F):	55	76	66	66	4
ADDRESS:	171 Harbison Blvd Columbia, SC 29212	TURBIDITY (NTU):	1	167	5	8	8
COORDINATES:	34.069897, -81.164592	pH:	6.1	8.0	6.9	6.8	0.3
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.056	0.173	0.133	0.133	0.009
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	3.5	8.7	6.0	6.1	0.8
SPATIAL LOCATION:	Most upstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	5						
MAX. DAILY RAINFALL:	0.5 inches						
TOTAL RAINFALL (FOR PERIOD):	1.8 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 (March 24, 2021 - April 27, 2021)

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.

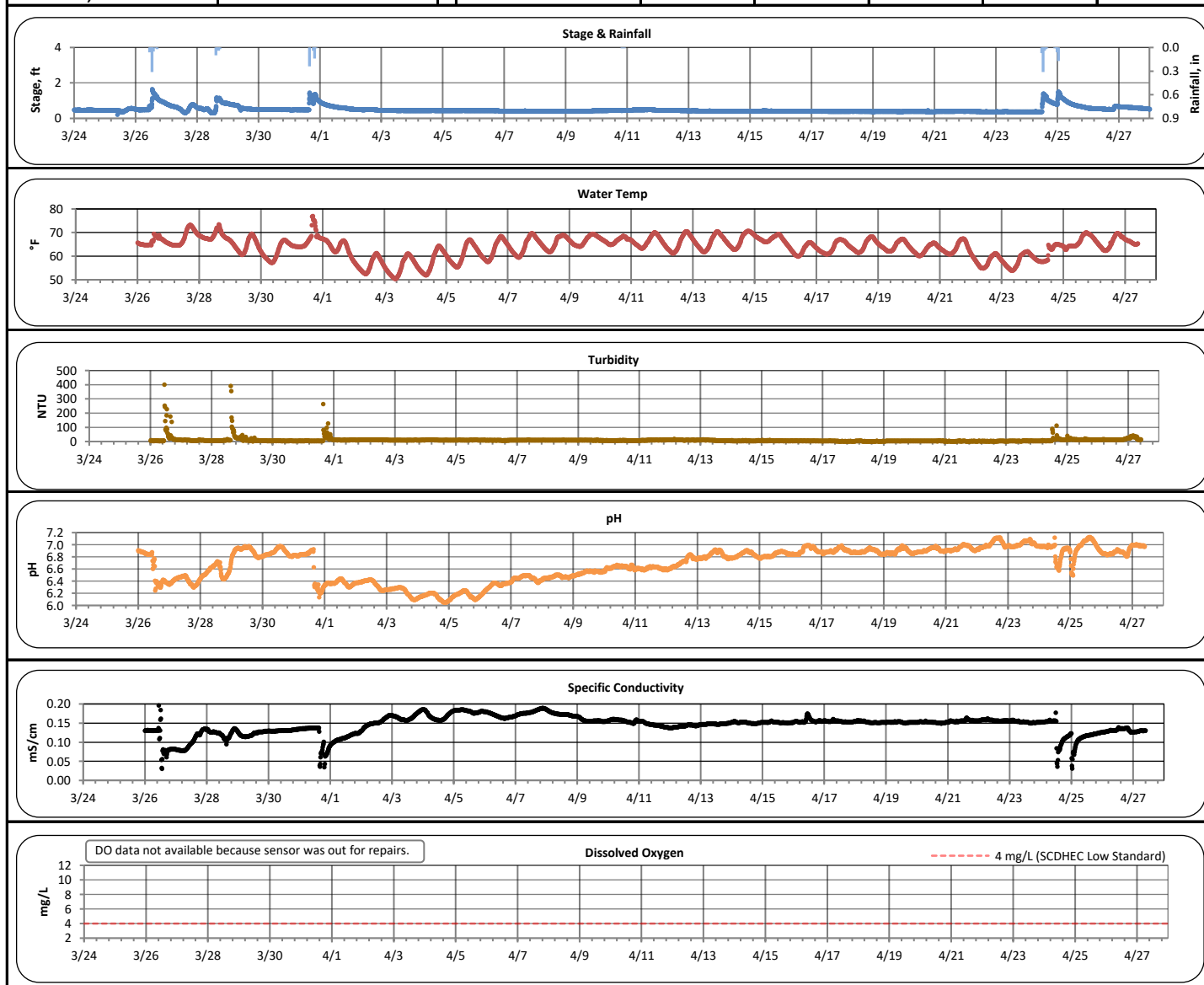
Grab Sample Data:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)								
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Notes: No samples were collected during this monitoring period.

Kinley Creek B (March 24, 2021 - April 27, 2021)

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	1.7	0.4	0.5	0.2
LOCATION:	Broken Hill Rd	TEMPERATURE (°F):	50	77	65	64	4
ADDRESS:	609 Broken Hill Rd Columbia, SC 29212	TURBIDITY (NTU):	2	401	9	10	18
COORDINATES:	34.06635, -81.159986	pH:	6.1	7.1	6.8	6.7	0.3
TMDL/IMPAIRED:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.031	0.196	0.152	0.145	0.024
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	-	-	-	-	-
SPATIAL LOCATION:	Most downstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	5						
MAX. DAILY RAINFALL:	0.5 inches						
TOTAL RAINFALL (FOR PERIOD):	1.8 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 (March 24, 2021 - April 27, 2021)

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	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)								
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Notes: No samples were collected during this monitoring period.