

Kinley Creek Monitoring Sites

Monitoring Data Summary for January 14th, 2021 – February 17th, 2021

Data Gaps

- At the KINA station, the turbidity sensor was buried for a short period on February 4th. That period of turbidity data was removed from the dataset.
- At the KINB station, no DO data was recorded during this monitoring period because the sensor was out for repairs.

SCDHEC Standards

- The KINA monitoring station recorded a maximum value of 8.7, which is above the acceptable SCDHEC range of 6 to 8.5. The KINB monitoring station did not record any pH readings outside of the acceptable SCDHEC range of 6 to 8.5.
- The KINA station recorded an average DO concentration of 10.1 mg/L, which is above the SCDHEC daily average minimum standard of 5 mg/L.
- The minimum DO concentration recorded at the KINA station was 8.5 mg/L, which is above the SCDHEC discrete minimum standard of 4 mg/L.

Storm Events

- The rain gauge along Kinley Creek recorded 11 storm events during this deployment period that resulted in a total of 5.6 inches of precipitation.
- Both the KINA and KINB stations recorded typical storm response patterns during this monitoring period.

Potential Illicit Discharges and Abnormal Events

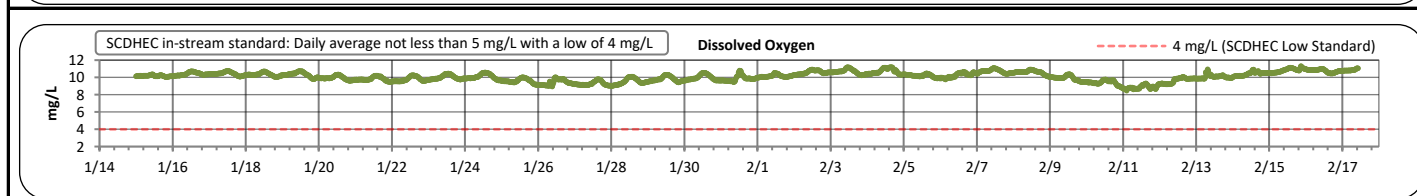
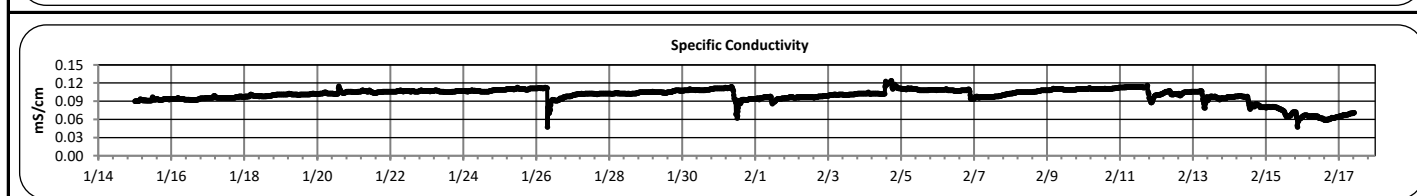
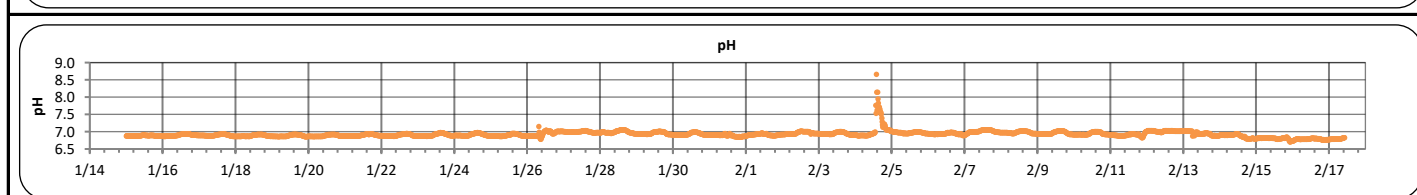
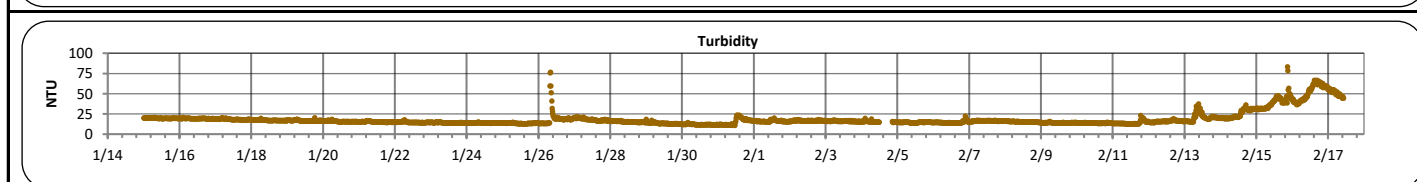
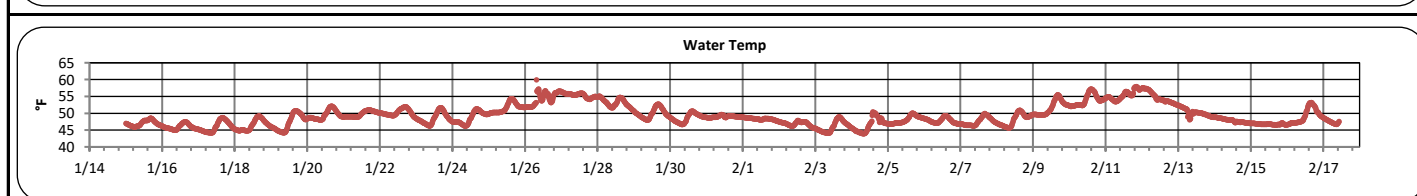
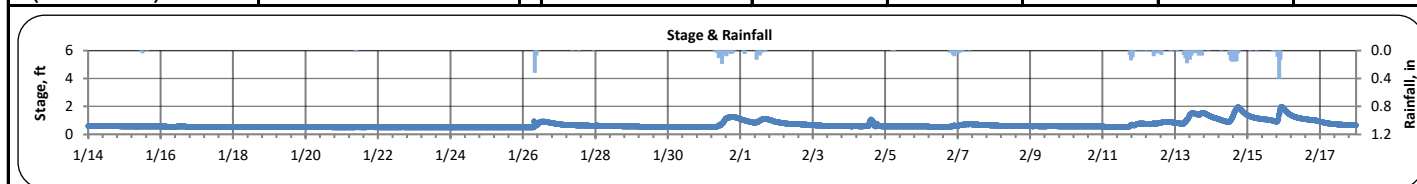
- At the KINA and KINB stations, there were no abnormal events during this monitoring period.

Flow Measurements

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

Kinley Creek A (January 14, 2021 - February 17, 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	1.3	0.6	0.6	0.1
LOCATION:	Longhorn Steakhouse	TEMPERATURE (°F):	44	60	49	49	3
ADDRESS:	171 Harbison Blvd Columbia, SC 29212	TURBIDITY (NTU):	11	84	16	19	9
COORDINATES:	34.069897, -81.164592	pH:	6.7	8.7	6.9	6.9	0.1
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.047	0.124	0.103	0.100	0.011
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	8.5	11.3	10.2	10.1	0.5
SPATIAL LOCATION:	Most upstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	11						
MAX. DAILY RAINFALL:	0.9 inches						
TOTAL RAINFALL (FOR PERIOD):	5.6 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 (January 14, 2021 - February 17, 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.

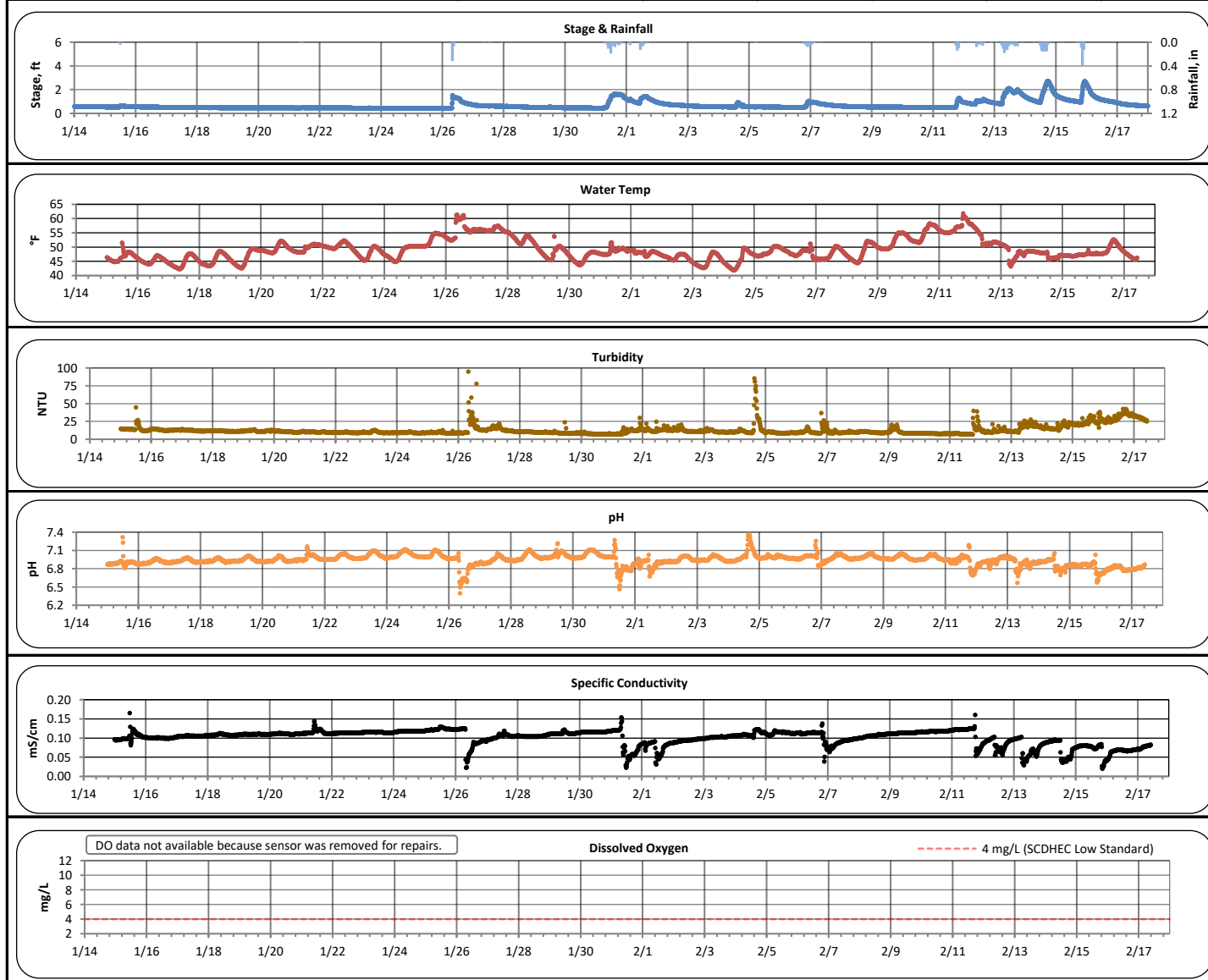
Grab Sample Data:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	1/25/2021		2/12/2021		2/12/2021			
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	13:28	82	8:08	946	9:30	2,038		
Total Suspended Solids (mg/L)			8:08	6.1	9:30	6.7		
Total Phosphorus (mg/L)			8:08	0.084	9:30	0.084		
Total Nitrogen (mg/L)			8:08	1.11	9:30	1.16		

Notes: Sample 1 was taken during dry weather conditions. Samples 2 and 3 were taken during wet weather conditions.

Kinley Creek B (January 14, 2021 - February 17, 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):	0.4	1.7	0.6	0.6	0.2
LOCATION:	Broken Hill Rd	TEMPERATURE (°F):	42	62	48	49	4
ADDRESS:	609 Broken Hill Rd Columbia, SC 29212	TURBIDITY (NTU):	7	95	11	13	7
COORDINATES:	34.06635, -81.159986	pH:	6.4	7.4	7.0	6.9	0.1
TMDL/IMPAIRED:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.021	0.165	0.107	0.101	0.020
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	-	-	-	-	-
SPATIAL LOCATION:	Most downstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	11						
MAX. DAILY RAINFALL:	0.9 inches						
TOTAL RAINFALL (FOR PERIOD):	5.6 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 (January 14, 2021 - February 17, 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	
	1/25/2021		2/12/2021		2/12/2021			
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	13:38	646	8:25	1,126	9:47	1,008		
Total Suspended Solids (mg/L)			8:25	6	9:47	22		
Total Phosphorus (mg/L)			8:25	0.061	9:47	0.051		
Total Nitrogen (mg/L)			8:25	0.83	9:47	0.56		

Notes: Sample 1 was taken during dry weather conditions. Samples 2 and 3 were taken during wet weather conditions.