Kinley Creek Monitoring Sites

Monitoring Data Summary for February 18th, 2021 – March 23rd, 2021

Data Gaps

- At the KINA station, there were no data gaps during this monitoring period.
- At the KINB station, the DO data was not recorded during this monitoring period because the sensor was out for repairs.

SCDHEC Standards

- Neither 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 9.0 mg/L, which is above the SCDHEC daily average minimum standard of 5 mg/L.
- The instantaneous minimum DO value recorded at the KINA station was 6.5 mg/L, which is above the SCDHEC instantaneous minimum standard of 4 mg/L.

Storm Events

- The rain gauge along Kinley Creek recorded 6 storm events during this deployment period that resulted in a total of 2.9 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 increased on March 16th.
- At the KINB station, the specific conductivity increased on March 3rd, March 4th, and March 16th.

Flow Measurements

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

City of Columbia, SC Stormwater Management
Partnering for clean waterways

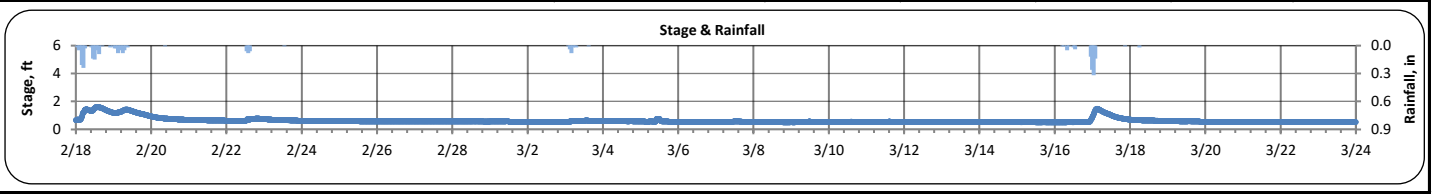
Continuous Water Quality Monitoring Periodic Report

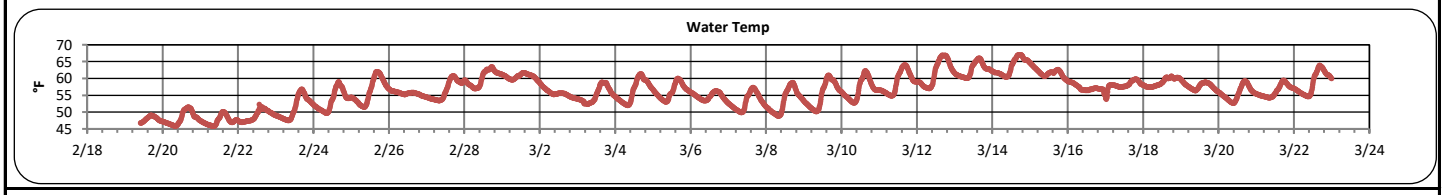
WOOLPERT

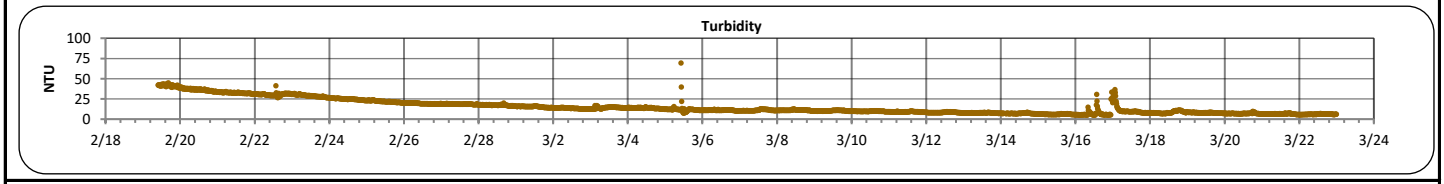
Kinley Creek A (February 18, 2021 - March 23, 2021)

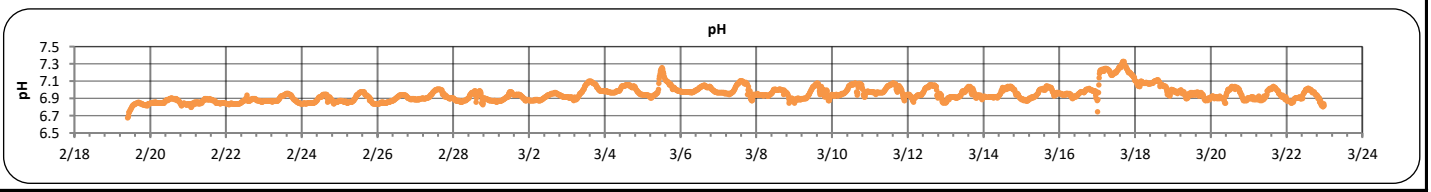
PARAMETER	DESCRIPTION
STREAM NAME:	Kinley Creek
LOCATION:	Longhorn Steakhouse
ADDRESS:	171 Harbison Blvd Columbia, SC 29212
COORDINATES:	34.069897, -81.164592
TMDL/IMPAIRMENT:	Fecal Coliform
NEIGHBORING LANDUSE:	Residential and commercial
SPATIAL LOCATION:	Most upstream site
TOTAL NO. STORMS OVER 0.1 INCH:	6
MAX. DAILY RAINFALL:	1.1 inches
TOTAL RAINFALL (FOR PERIOD):	2.9 inches

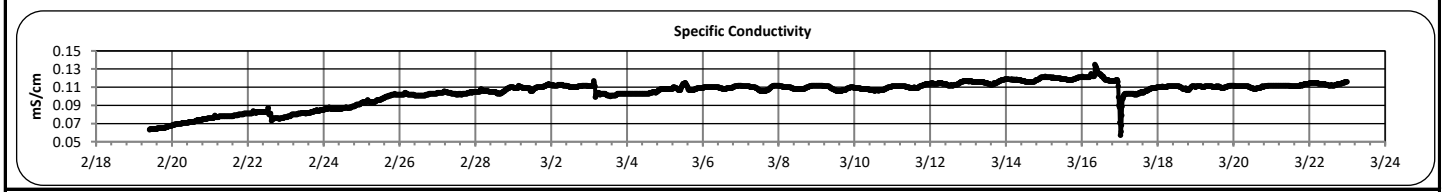
CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STAGE (FT):	0.5	1.6	0.6	0.6	0.2
TEMPERATURE (°F):	46	67	56	56	5
TURBIDITY (NTU):	5	70	12	15	9
pH:	6.7	7.3	6.9	7.0	0.1
SPECIFIC CONDUCTIVITY (mS/cm):	0.057	0.135	0.109	0.104	0.013
DISSOLVED OXYGEN (mg/L):	6.5	11.2	9.0	9.0	1.0

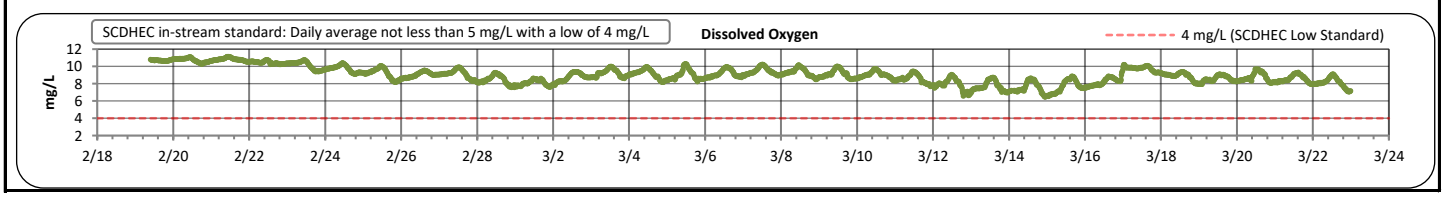












Note: Data gaps appear when the sonde is removed for calibration or when the flow depth is below the sensors

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Continuous Water Quality
Monitoring Periodic Report

Kinley Creek A (February 18, 2021 - March 23, 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	
	2/25/2021		3/10/2021		3/16/2021			
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	10:49	126	12:40	220	8:38	2,172		
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

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

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City of Columbia, SC Stormwater Management — Partnering for clean waterways

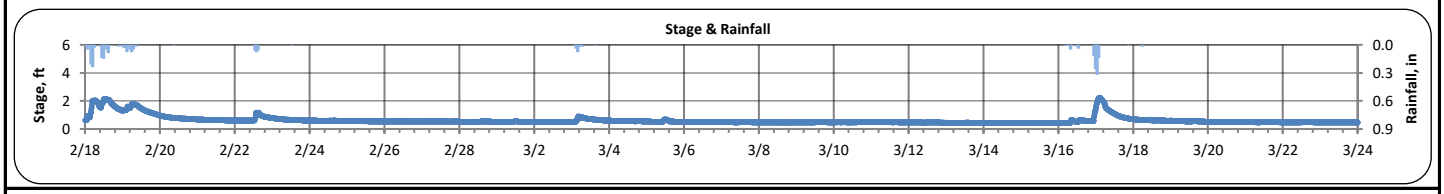
Continuous Water Quality Monitoring Periodic Report

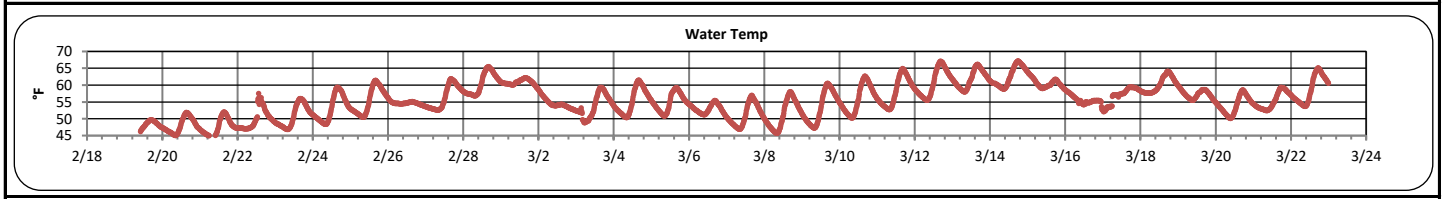
WOOLPERT

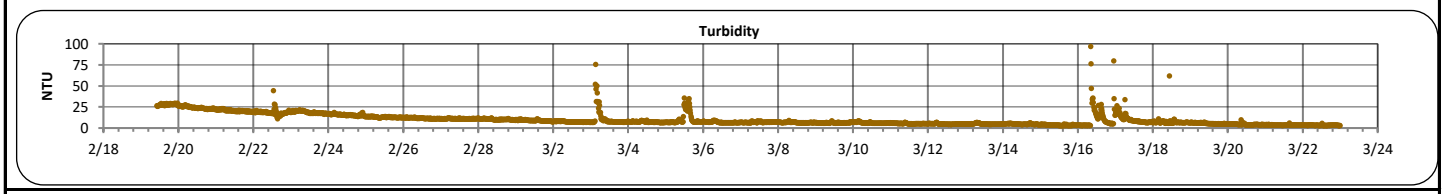
Kinley Creek B (February 18, 2021 - March 23, 2021)

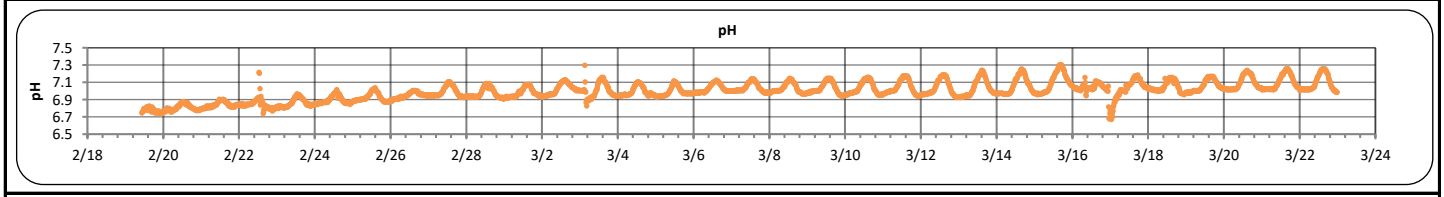
PARAMETER	DESCRIPTION
STREAM NAME:	Kinley Creek
LOCATION:	Broken Hill Rd
ADDRESS:	609 Broken Hill Rd Columbia, SC 29212
COORDINATES:	34.06635, -81.159986
TMDL/IMPAIRMENT:	Fecal Coliform
NEIGHBORING LANDUSE:	Residential and commercial
SPATIAL LOCATION:	Most downstream site
TOTAL NO. STORMS OVER 0.1 INCH:	6
MAX. DAILY RAINFALL:	1.1 inches
TOTAL RAINFALL (FOR PERIOD):	2.9 inches

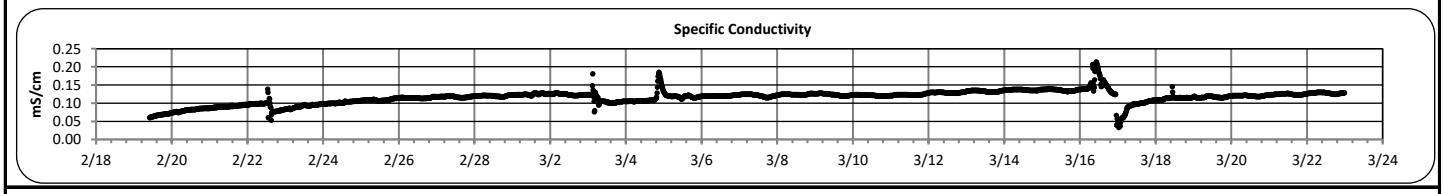
CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STAGE (FT):	0.4	2.2	0.5	0.6	0.3
TEMPERATURE (°F):	45	67	55	55	5
TURBIDITY (NTU):	3	97	7	10	7
pH:	6.7	7.3	7.0	7.0	0.1
SPECIFIC CONDUCTIVITY (mS/cm):	0.033	0.214	0.120	0.116	0.018
DISSOLVED OXYGEN (mg/L):	-	-	-	-	-

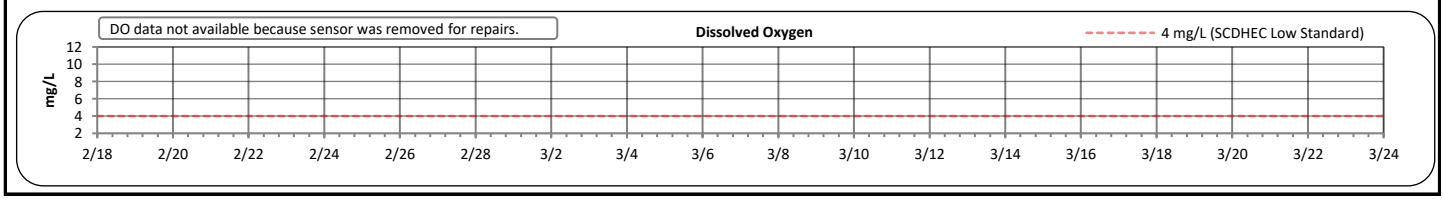












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Continuous Water Quality
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Kinley Creek B (February 18, 2021 - March 23, 2021)

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Sampled Data:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	2/25/2021		3/10/2021		3/16/2021			
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	10:59	242	12:55	362	8:53	15,402		
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

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

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