# Kinley Creek Monitoring Sites

### Monitoring Data Summary for January 14<sup>th</sup>, 2021 – February 17<sup>th</sup>, 2021

#### Data Gaps

- At the KINA station, the turbidity sensor was buried for a short period on February 4<sup>th</sup>. 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.



# **Continuous Water Quality Monitoring Periodic Report**



## Kinley Creek A (January 14, 2021 - February 17, 2021)

		CONTINUOUS	SUMMARY STATISTICS					
PARAMETER	DESCRIPTION		WATER QUALITY PARAMETERS:	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	7						
ADDRESS:	171 Harbison Blvd Columbia, SC 29212	]	TEMPERATURE (°F):	44	60	49	49	3
COORDINATES:	34.069897, -81.164592		TURBIDITY (NTU):	11	84	16	19	9
TMDL/IMPAIRMENT:	Fecal Coliform		TONDIDITT (NTO):	11	04	10	19	9
NEIGHBORING LANDUSE:	Residential and commercial		pH:	6.7	8.7	6.9	6.9	0.1
SPATIAL LOCATION:	Most upstream site		prii.	0.7	0.7	0.9	0.9	0.1
TOTAL NO. STORMS OVER 0.1 INCH:	11		SPECIFIC CONDUCTIVITY (mS/cm):	0.047	0.124	0.103	0.100	0.011
MAX. DAILY RAINFALL:	0.9 inches		DISSOLVED					
TOTAL RAINFALL (FOR PERIOD):	5.6 inches		OXYGEN (mg/L):	8.5	11.3	10.2	10.1	0.5
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9.0 1/14 1/16 1/ 8.5 7.5 7.0 6.5 1/14 1/16 1/18 0.15 0.09 0.09 0.00 1/14 1/16 1/18	1/20 1/22 1/24  8 1/20 1/22 1/24  adard: Daily average not less than 5 mg/	1/26	pH  1/28 1/30 2  Specific Con  5 1/28 1/30 2  Specific Con  5 1/28 1/30 2	/1 2/3 2 ductivity /1 2/3	2/5 2/7	2/9 2/11	2/13 2/15	2/17

## 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:**

	Sample 1		Sample 2		Sample 3		Sample 4	
Analyte (units)	1/25/2021		2/12/2021		2/12/2021			
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (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.



# **Continuous Water Quality Monitoring Periodic Report**



#### Kinley Creek B (January 14, 2021 - February 17, 2021)

		CONTINUOUS WATER QUALITY PARAMETERS:		SUMMARY STATISTICS					
PARAMETER DESCRIPTION					MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Kinley Creek		STAGE (F	T):	0.4	1.7	0.6	0.6	0.2
LOCATION:	Broken Hill Rd								,
ADDRESS:	609 Broken Hill Rd Columbia, SC 29212		TEMPERA	ATURE (°F):	42	62	48	49	4
COORDINATES:	34.06635, -81.159986		TURRIDIT	V (AITII)	7	05	44	40	7
TMDL/IMPAIRMENT:	Fecal Coliform	7	TURBIDITY (NTU):		7	95	11	13	7
NEIGHBORING LANDUSE:	Residential and commercial	I	pH:		6.4	7.4	7.0	6.9	0.1
SPATIAL LOCATION:	Most downstream site	71	<b>P</b>		<b>0.</b> .			0.0	0
TOTAL NO. STORMS OVER 0.1 INCH:	11		SPECIFIC CONDUCTIVITY (mS/cm):		0.021	0.165	0.107	0.101	0.020
MAX. DAILY RAINFALL:	0.9 inches	7		ED OXYGEN					
TOTAL RAINFALL (FOR PERIOD):	5.6 inches	1	(mg/L):	LDUATGEN	-	-	-	-	-
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th 4								MAA	Rain 80 80 13 13
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7.4 7.1 6.8 6.5 6.2 1/14 1/16 1/18 0.20 0.15 0.10 0.05 0.00 1/14 1/16 1/18	1/20 1/22 1/24	1/26	5 1/28	pH  1/30 2/1  Specific Cond  1/30 2/	luctivity 2/3	/5 2/7	2/9 2/11	2/13 2/15	2/17

## Continuous Water Quality Monitoring Periodic Report

Kinley Creek B (January 14, 2021 - February 17, 2021)

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STANDARD DEVIATION	The standard deviation of all the values recorded by the datasonde in 15 minute intervals.

## Sampled Data:

	Sample 1		Sample 2		Sample 3		Sample 4	
Analyte (units)	1/25/2021		2/12/	/2021	2/12/2021			
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (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.