Kinley Creek Monitoring Sites

Monitoring Data Summary for April 30th, 2020 – June 3rd, 2020

Data Gaps

KINA and KINB did not experience any interruptions in the data during this monitoring period.

SCDHEC Standards

- KINA did not record pH readings that were outside the SCDHEC acceptable range of 6 to 8.5. KINB recorded a minimum pH value of 5.8, which was below the SCDHEC acceptable range.
- The KINA and KINB station recorded average DO concentrations of 7.0 mg/L and 7.2 mg/L, respectively, which are both well above the SCDHEC daily average standard of 5 mg/L.
- The instantaneous minimum DO value recorded at the KINA station was 5.1 mg/L and 5.0 mg/L at the KINB station, which are both above the SCDHEC instantaneous minimum standard of 4 mg/L.

Storm Events

- The rain gauge along Kinley Creek recorded 13 storm events during this deployment period that resulted in a total of 8.7 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 was a small spike in specific conductivity at KINA and KINB on May 28th that may have been the result of an illicit discharge.

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 (April 30, 2020 - June 3, 2020)

		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	3.4	0.6	0.7	0.3		
LOCATION:	Longhorn Steakhouse								
ADDRESS:	171 Harbison Blvd Columbia, SC 29212	TEMPERATURE (°F):	61	82	72	72	4		
COORDINATES:	34.069897, -81.164592	TURBIDITY (NTU):	3	214	6	20	22		
TMDL/IMPAIRMENT:	Fecal Coliform		Ü	211	Ü	20			
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.1	8.4	6.8	6.8	0.2		
SPATIAL LOCATION:	Most upstream site								
TOTAL NO. STORMS OVER 0.1 INCH:	13	SPECIFIC CONDUCTIVITY (mS/cm):	0.025	0.225	0.100	0.090	0.028		
MAX. DAILY RAINFALL:	2.5 inches	DISSOLVED							
TOTAL RAINFALL (FOR PERIOD):	8.7 inches	OXYGEN (mg/L):	5.1	8.9	7.0	7.0	0.8		
		Stage & Rain	fall		,	1	0.0		
stage 2							0.0 0.5 1.0 1.5 2.0 2.5		
4/30 5/2 5/4	5/6 5/8 5/10 5,	/12 5/14 5/16 5/13	3 5/20 5/	22 5/24 !	5/26 5/28	5/30 6/1	6/3		
		Water Ter	np						
80 70 60	M		/in	A Park	~~~				
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4/30 5/2 5/4	5/6 5/8 5/10 5	/12 5/14 5/16 5/1		/22 5/24	5/26 5/28	5/30 6/1	6/3		
4/30 5/2 5/4	5/6 5/8 5/10 5			5/24	5/26 5/28	5/30 6/1	6/3		
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4/30 5/2 5/4 200 150 150 4/30 5/2 5/ 8.5 7.0 6.5 6.0 4/30 5/2 5/4	4 5/6 5/8 5/10	Turbidit 5/12 5/14 5/16 5, pH //12 5/14 5/16 5/1	18 5/20 s	5/22 5/24	5/26 5/28	5/30 6/1	6/3		
4/30 5/2 5/4 200 150 150 0 4/30 5/2 5/ 8.5 8.0 7.5 7.0 6.5 6.0 4/30 5/2 5/4	4 5/6 5/8 5/10 5/6 5/8 5/10 5	Turbidit 5/12 5/14 5/16 5, pH //12 5/14 5/16 5/2	18 5/20 5 ductivity	5/22 5/24	5/26 5/28	5/30 6/1	6/3		
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Continuous Water Quality Monitoring Periodic Report

Kinley Creek A (April 30, 2020 - June 3, 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	
	5/20/2020		5/20/2020							
	Time	Result	Time	Result	Time	Result	Time	Result	Time	Result
Escherichia coli (MPN/100mL)	9:50	4,284	11:35	4,128						
Total Suspended Solids (mg/L)	9:50	17.3	11:35	18.3						
Total Phosphorus (mg/L)	9:50	0.09	11:35	0.096						
Total Nitrogen (mg/L)	9:50	1.03	11:35	0.98						

Note: Sample 1 and Sample 2 were taken during wet weather conditions.



Continuous Water Quality Monitoring Periodic Report



Kinley Creek B (April 30, 2020 - June 3, 2020)

		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	4.9	0.6	0.8	0.5		
LOCATION:	Broken Hill Rd								
ADDRESS:	609 Broken Hill Rd Columbia, SC 29212	TEMPERATURE (°F):	58	83	71	70	5		
COORDINATES:	34.06635, -81.159986	TURRIDITY (NTU).	1	262	18	23	23		
TMDL/IMPAIRMENT:	Fecal Coliform	TURBIDITY (NTU):	ı	363	10	23	23		
NEIGHBORING LANDUSE:	Residential and commercial	pH:	5.8	7.3	6.9	6.8	0.2		
SPATIAL LOCATION:	Most downstream site								
TOTAL NO. STORMS OVER 0.1 INCH:	13	SPECIFIC CONDUCTIVITY (mS/cm):	0.010	0.173	0.106	0.105	0.036		
MAX. DAILY RAINFALL:	2.5 inches	DISSOLVED OXYGEN							
TOTAL RAINFALL (FOR PERIOD):	8.7 inches	(mg/L):	5.0	9.0	7.2	7.2	0.6		
		Stage & Rainfa	all						
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75 65 4/30 5/2 5/4		12 5/14 5/16 5/18	5/20 5/:	22 5/24 5			6/3		
75 65 55 4/30 5/2 5/4		12 5/14 5/16 5/18 Turbidity	5/20 5/:	i	•				
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75 65 55 4/30 5/2 5/4 400 300 200 100 4/30 5/2 5/4 7.5 7.0 6.5 6.0 5.5 4/30 5/2 5/4 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	5/6 5/8 5/10 5/6 5/8 5/10 5/ 5/6 5/8 5/10 5/	Turbidity 5/12 5/14 5/16 5/18 Turbidity pH (12 5/14 5/16 5/18 Specific Conc	5/20 5/3 5/20 5/3 18 5/20 5/3 18 5/20 5/3	/22 5/24	5/26 5/28 5/26 5/28	5/30 6/1 5/30 6/1	6/3		

Continuous Water Quality Monitoring Periodic Report

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

Sampled Data:

Analyto	Sample 1		Sample 2		Sample 3		Sample 4		Sample 5	
Analyte (units)	5/20/2020		5/20/2020							
	Time	Result	Time	Result	Time	Result	Time	Result	Time	Result
Escherichia coli (MPN/100mL)	10:08	2,356	11:50	2,562						
Total Suspended Solids (mg/L)	10:08	16.4	11:50	27.4						
Total Phosphorus (mg/L)	10:08	0.087	11:50	0.095						
Total Nitrogen (mg/L)	10:08	0.82	11:50	0.84						

Note: Sample 1 and Sample 2 were taken during wet weather conditions.