



### Kinley Creek A (April 28, 2021 - June 2, 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):	0.4	1.2	0.5	0.5	0.1	
LOCATION:	Longhorn Steakhouse							
ADDRESS:	171 Harbison Blvd Columbia, SC 29212	TEMPERATURE (°F):	65	79	72	72	3	
COORDINATES:	34.069897, -81.164592	TURBIDITY (NTU):	1	77	7	9	9	
TMDL/IMPAIRMENT:	Fecal Coliform					-		
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.6	9.4	6.8	7.0	0.5	
SPATIAL LOCATION:	Most upstream site	SPECIFIC						
TOTAL NO. STORMS OVER 0.1 INCH:	4	CONDUCTIVITY (mS/cm):	0.054	0.162	0.137	0.135	0.013	
MAX. DAILY RAINFALL: TOTAL RAINFALL (FOR PERIOD):	1.0 inches 2.5 inches	DISSOLVED OXYGEN (mg/L):	2.2	8.5	4.0	4.0 4.5		
	•	Stage & Rain	fall	•	•	!	•	
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9.5 4/28 4/30 5/2	5/4 5/6 5/8 5/10	Turbidit  0 5/12 5/14 5/16  pH  Specific Con	5/18 5/20 5/18 5/20 ductivity	5/22 5/24	4 5/26 5/2	28 5/30 6,	/1 6/3	
9.5 4/28 4/30 5/2 100 75 0.25 0.4/28 4/30 5/2 8.5 7.5 6.5 4/28 4/30 5/2	5/4 5/6 5/8 5/10	Turbidit  0 5/12 5/14 5/16  pH  Specific Con  0 5/12 5/14 5/16	5/18 5/20 5/18 5/20 ductivity	5/22 5/24	4 5/26 5/2	28 5/30 6,	6/1 6/3	
9.5 4/28 4/30 5/2  100 75 75 0 4/28 4/30 5/2   9.5 4/28 4/30 5/2    8.5 6.5 4/28 4/30 5/2   8.5 6.5 4/28 4/30 5/2	5/4 5/6 5/8 5/10	Turbidit  0 5/12 5/14 5/16  pH  Specific Con  0 5/12 5/14 5/16	5/18 5/20 5/18 5/20 ductivity	5/22 5/24	4 5/26 5/2	28 5/30 6, /28 5/30	6/1 6/3	
9.5 4/28 4/30 5/2 100 75 0.25 0.4/28 4/30 5/2 8.5 7.5 6.5 4/28 4/30 5/2 8.5 7.5 6.5 4/28 4/30 5/2	5/4 5/6 5/8 5/10	Turbidit  0 5/12 5/14 5/16  pH  Specific Con  0 5/12 5/14 5/16	5/18 5/20 5/18 5/20 ductivity	5/22 5/24	4 5/26 5/2	28 5/30 6, /28 5/30	6/1 6/3	

Kinley Creek A (April 28, 2021 - June 2, 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)	5/12/2021		5/12/2021		5/12/2021		5/12/2021	
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	11:28	4,128	12:38	6,510	13:17	2,562	13:53	2,356
Total Suspended Solids (mg/L)	11:28	14.9	12:38	23.3	13:17	25.6	13:53	35.6
Total Phosphorus (mg/L)	11:28	0.110	12:38	0.11	13:17	0.14	13:53	0.13
Total Nitrogen (mg/L)	11:28	1.82	12:38	1.6	13:17	2.3	13:53	2.07

All samples were collected during wet weather conditions.

### Notes:

#### Data Gaps

There were no data gaps at the KINA station during this monitoring period.

### Potential Illicit Discharges and Abnormal Events:

- The specific conductivity increased on May 11<sup>th</sup> and May 19<sup>th</sup> which may have been the result of illicit discharges. The turbidity and pH also increased on May 19<sup>th</sup>.
- The DO concentration was low throughout the monitoring period, except during rain events, because KINA had a small baseflow. The water remained mostly stagnant, which contributed to lower DO levels, until the influx of stormwater increased the stage and flow.
- The pH was elevated from May 3<sup>rd</sup> to May 7<sup>th</sup>. The elevated levels began during a storm event, and may have reacted similarly to DO due to the influx of stormwater.





## Kinley Creek B (April 28, 2021 - June 2, 2021)

	CONTINUOUS			SUMMARY STATISTICS					
PARAMETER	DESCRIPTION		WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION	
STREAM NAME:	Kinley Creek	1	STAGE (FT):	0.3	2.0	0.4	0.4	0.3	
LOCATION:	Broken Hill Rd	1							
ADDRESS:	609 Broken Hill Rd Columbia, SC 29212	1	TEMPERATURE (°F):	62	81	69	70	3	
COORDINATES:	34.06635, -81.159986	] [	TURBIDITY (NTU):	3	118	8	11	8	
TMDL/IMPAIRMENT:	Fecal Coliform	╛╽						Ů	
NEIGHBORING LANDUSE:	Residential and commercial		pH:	6.3	7.7	6.9	6.9	0.1	
SPATIAL LOCATION:	Most downstream site	╛╏							
TOTAL NO. STORMS OVER 0.1 INCH:	4		SPECIFIC CONDUCTIVITY (mS/cm):	0.022	0.195	0.149	0.144	0.029	
MAX. DAILY RAINFALL:	1.0 inches	] [	DISSOLVED OXYGE	N					
TOTAL RAINFALL (FOR PERIOD):	2.5 inches		(mg/L):	<u>-</u>	-	-	-	-	
			Stage & Rair	nfall					
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4/28 4/30 5/2	2 5/4 5/6 5/8	5/10	5/12 5/14 5/1	6 5/18 5/2	0 5/22 5/2	4 5/26 5/	Z28 5/30 €	6/1 6/3	
4/28 4/30 5/2 8.0 7.5	2 5/4 5/6 5/8	5/10		6 5/18 5/2	0 5/22 5/2	4 5/26 5/	28 5/30 6	5/1 6/3	
4/28 4/30 5/2 8.0 7.5 7.0 6.5		5/10		6 5/18 5/2	0 5/22 5/2	4 5/26 5/	28 5/30 €	5/1 6/3	
4/28 4/30 5/2 8.0 7.5 ± 7.0		5/10						6/1 6/3	
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4/28 4/30 5/2  8.0 7.5 7.0 6.5 6.0 4/28 4/30 5/2			pH 5/12 5/14 5/16	5 5/18 5/20					
4/28 4/30 5/2  8.0 7.5 7.0 6.5 6.0 4/28 4/30 5/2	5/4 5/6 5/8 5		pH 5/12 5/14 5/16	5 5/18 5/20 nductivity	5/22 5/2	4 5/26 5/	28 5/30		
4/28 4/30 5/2  8.0 7.5 7.0 6.5 6.0 4/28 4/30 5/2	5/4 5/6 5/8 5	5/10	5/12 5/14 5/16  Specific Co	5 5/18 5/20 nductivity 6 5/18 5/2	5/22 5/2	4 5/26 5/	728 5/30 728 5/30	6/1 6/3	
4/28 4/30 5/2  8.0 7.5 7.5 6.5 6.5 0.10 0.05 0.00 4/28 4/30 5/2  DO data not available 12 10  DO data not available	5/4 5/6 5/8 5	5/10	5/12 5/14 5/16  Specific Co	5 5/18 5/20 nductivity	5/22 5/2	4 5/26 5/	28 5/30	6/1 6/3	
4/28 4/30 5/2  8.0 7.5 7.5 6.5 6.0 4/28 4/30 5/2	5/4 5/6 5/8 5	5/10	5/12 5/14 5/16  Specific Co	5 5/18 5/20 nductivity 6 5/18 5/2	5/22 5/2	4 5/26 5/	728 5/30 728 5/30	6/1 6/3	

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### **Grab Sample Data:**

	Sample 1		Sample 2		Sample 3		Sample 4	
Analyte (units)	5/12/2021		5/12/2021		5/12/2021		5/12/2021	
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	11:42	3,700	12:54	2,116	13:30	4,374	14:06	2,034
Total Suspended Solids (mg/L)	11:42	26.8	12:54	48.7	13:30	26.3	14:06	21.1
Total Phosphorus (mg/L)	11:42	0.081	12:54	0.095	13:30	0.078	14:06	0.08
Total Nitrogen (mg/L)	11:42	0.96	12:54	0.92	13:30	0.81	14:06	1.11

All samples were collected during wet weather conditions.

### **Notes:**

### **Data Gaps**

- DO data was not collected during this monitoring period, because the sensor was out for repairs.
- The turbidity sensor was fouled for multiple days from May 8<sup>th</sup> to May 10<sup>th</sup>, May 16<sup>th</sup> to May 17<sup>th</sup>, and May 21<sup>st</sup> to the end of the monitoring period. These periods of turbidity data were removed from the dataset.
- The specific conductivity sensor was unsubmerged for a few hours at a time on May 26<sup>th</sup>, May 27<sup>th</sup>, May 28<sup>th</sup>, and May 30<sup>th</sup>. These periods of specific conductivity data were removed from the dataset.

### Potential Illicit Discharges and Abnormal Events:

There were no abnormal events at the KINB station during this monitoring period.