Continuous Water Quality Monitoring Periodic Report

Kinley Creek A (June 8, 2023 - July 18, 2023)

		CONTINUOUS	SUMMARY STATISTICS				
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Kinley Creek	STAGE (FT):	0.2	2.8	0.4	0.5	0.3
LOCATION:	Longhorn Steakhouse						
ADDRESS:	171 Harbison Blvd Columbia, SC 29212	TEMPERATURE (°F):	67	87	78	78	4
COORDINATES:	34.069897, -81.164592	TURBIDITY (NTU):	4	227	17	22	16
TMDL/IMPAIRMENT:	Fecal Coliform						
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.2	8.1	6.5	6.5	0.2
SPATIAL LOCATION:	Most upstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	12	SPECIFIC CONDUCTIVITY (mS/cm):	0.014	0.102	0.073	0.067	0.023
MAX. DAILY RAINFALL:	1.8 inches	DISSOLVED OXYGEN					
TOTAL RAINFALL (FOR PERIOD):	8.3 inches	(mg/L):	1.0	8.3	4.2	4.4	1.9
6 4 4 9 8 6 7 10 6 7 12	6/14 6/16 6/18 6/20 6/2	Stage & Rainf		7/6 7/8	3 7/10 7/12	7/14 7/16	0.0 0.5 1.0 1.5
85 65 65 678 6/10 6/12	6/14 6/16 6/18 6/20 6/2	22 6/24 6/26 6/28	5/30 7/2 7	7/4 7/6 7/	8 7/10 7/12	7/14 7/16	7/18
300		Turbidity					
200 0 6/8 6/10 6/12	6/14 6/16 6/18 6/20	5/22 6/24 6/26 6/28	6/30 7/2	7/4 7/6 7	//8 7/10 7/1	انبر	7/18
SCDHEC in-stream standal 8.5 8.0 7.5 7.0 6.5 6.0 6/8 6/10 6/12	rd: All pH values not less than 6.0 and not		6/30 7/2	7/4 7/6 7,	/8 7/10 7/12	2 7/14 7/16	7/18
		Specific Cond	uctivity				
0.15 0.10 0.05 0.00 6/8 6/10 6/12	6/14 6/16 6/18 6/20 6	5/22 6/24 6/26 6/28	6/30 7/2	7/4 7/6	7/8 7/10 7/	12 7/14 7/16	5 7/18
SCDHEC in-stream stand	dard: Daily average not less than 5 mg/L w	ith a low of 4 mg/L Dissolved	Oxygen 6/30 7/2	7/4 7/6	7/8 7/10 7/	4 mg/L (SCDHEC Lo	

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

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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:

	Sample 1		Sample 2		Sample 3		
Analyte (units)	6/22/2023		6/22/2023		6/22/2023		
	Time	Results	Time	Results	Time	Results	
Escherichia coli (MPN/100mL)	8:52	3,450	10:29	4,960	12:31	2,900	
Total Suspended Solids (mg/L)	8:52	26.8	10:29	28.0	12:31	34.0	
Total Phosphorus (mg/L)	8:52	0.071	10:29	0.076	12:31	0.078	
Total Nitrogen (mg/L)	8:52	1.09	10:29	0.87	12:31	1.07	

Notes:

Data Gaps

There were data gaps in turbidity on 6/29, 7/11 - 7/13, 7/15 - 7/18 due to fouling.

Potential Illicit Discharges and Abnormal Events:

There was a spike in specific conductivity on 7/3 and 7/6, which may have been the result of a potential illicit discharge.

Continuous Water Quality Monitoring Periodic Report

Kinley Creek B (June 8, 2023 - July 18, 2023)

		CONTINUOUS	SUMMARY STATISTICS				
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARE DEVIATION
STREAM NAME:	Kinley Creek	STAGE (FT):	0.3	3.7	0.4	0.6	0.4
LOCATION:	Broken Hill Rd						
ADDRESS:	609 Broken Hill Rd Columbia, SC 29212	TEMPERATURE (°F):	66	91	78	78	4
COORDINATES:	34.06635, -81.159986	TURBIDITY (NTU):	2	300	6	11	17
TMDL/IMPAIRMENT:	Fecal Coliform	TOKBIBITT (IVTO).		500	Ŭ	''	1,
NEIGHBORING LANDUSE:	Residential and commercial	pH:	-	-	-	-	-
SPATIAL LOCATION:	Most downstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	12	SPECIFIC CONDUCTIVITY (mS/cm):	0.013	0.167	0.095	0.092	0.024
MAX. DAILY RAINFALL:	1.8 inches	DISSOLVED OXYGEN					
TOTAL RAINFALL (FOR PERIOD):	8.3 inches	(mg/L):	2.3	8.6	5.8	5.8	0.9
		Stage & Rainfa	all		<u> </u>	·	
8 F 6 F 6 F 6 F 6 F 6 F 6 F 6 F 6 F 6 F						7 7	0.0
5, 4							0.4 0.8 1.2
0	6/14 6/16 6/18 6/20 6/2	22 6/24 6/26 6/28 6	5/30 7/2 7/	4 7/6 7/8	7/10 7/12	7/14 7/16	7/18
85 75 65 55 6/8 6/10 6/12	6/14 6/16 6/18 6/20 6/	/22 6/24 6/26 6/28	6/30 7/2 7	7/6 7/8	3 7/10 7/12	7/14 7/16	7/18
400		Turbidity	<u>/</u>				
300 200						1 1	
100	i e d						
100		6/22 6/24 6/26 6/28	6/30 7/2	7/4 7/6 7	/8 7/10 7/1		7/18
0 6/8 6/10 6/12			6/30 7/2		1/8 7/10 7/1	2 7/14 7/16	
100 6/8 6/10 6/12 SCDHEC in-stream standa 7.5	6/14 6/16 6/18 6/20		6/30 7/2			2 7/14 7/16	
100 0 6/8 6/10 6/12 SCDHEC in-stream standa 7.5 7.7	6/14 6/16 6/18 6/20		6/30 7/2			2 7/14 7/16	
8.0 SCDHEC in-stream standa 7.5 7.0 6.5 6.0	ard: All pH values not less than 6.0 and no	t more than 8.5 pH		рі	d sensor was remove	d due to sensor malf	unctions.
8.0 7.5 7.0 6.5	ard: All pH values not less than 6.0 and no				d sensor was remove	d due to sensor malf	unctions.
8.0 SCDHEC in-stream standa 7.5 7.0 6.5 6.0 6/8 6/10 6/12	ard: All pH values not less than 6.0 and no	t more than 8.5 pH	6/30 7/2	рі	d sensor was remove	d due to sensor malf	iunctions.
SCDHEC in-stream standa 7.5 7.0 6.5 6.0 6/8 6/10 6/12	ard: All pH values not less than 6.0 and no	nt more than 8.5 pH //22 6/24 6/26 6/28	6/30 7/2	рі	d sensor was remove	d due to sensor malf	iunctions.
SCDHEC in-stream standa 7.5 7.0 6.5 6.0 6/8 6/10 6/12	ard: All pH values not less than 6.0 and no	nt more than 8.5 pH //22 6/24 6/26 6/28	6/30 7/2	рі	d sensor was remove	d due to sensor malf	iunctions.
8.0 7.5 7.0 6.5 6.0 6/8 6/10 6/12	ard: All pH values not less than 6.0 and no	/22 6/24 6/26 6/28 Specific Cond	6/30 7/2	7/4 7/6 7,	1 sensor was remove 18 7/10 7/1	d due to sensor malf	7/18
SCDHEC in-stream stands 8.0 7.5 7.0 6.5 6.0 6/8 6/10 6/12	ard: All pH values not less than 6.0 and no	nt more than 8.5 pH //22 6/24 6/26 6/28	6/30 7/2	7/4 7/6 7,	d sensor was remove	d due to sensor malf	7/18
SCDHEC in-stream stands 8.0 7.5 6.5 6.0 6.8 6.10 6.12 8.0 9.10 0.20 0.015 0.00 6.8 6.10 6.12 SCDHEC in-stream stands 8.0 6.5 6.0 6.7 6.7 6.8 6.9 6.9 6.9 6.9 6.9 6.9 6.9	ard: All pH values not less than 6.0 and no	pH //22 6/24 6/26 6/28 Specific Conc	6/30 7/2 ductivity	7/4 7/6 7,	1 sensor was remove 18 7/10 7/1	d due to sensor malf	7/18 6 7/18
8.0 7.5 7.0 6.5 6.0 6/8 6/10 6/12 SCDHEC in-stream stands 7.5 6.0 6/8 6/10 6/12	ard: All pH values not less than 6.0 and no	pH //22 6/24 6/26 6/28 Specific Conc	6/30 7/2 ductivity	7/4 7/6 7,	1 sensor was remove 18 7/10 7/1	d due to sensor malf	7/18 6 7/18
8.0 SCDHEC in-stream standa 7.5 6.5 6.0 6/8 6/10 6/12 8.0 O.10 0.10 0.00 0.00 0.00 0.00 0.00 0.	ard: All pH values not less than 6.0 and no	pH //22 6/24 6/26 6/28 Specific Conc	6/30 7/2 ductivity	7/4 7/6 7,	1 sensor was remove 18 7/10 7/1	d due to sensor malf	7/18 6 7/18
8.0 7.5 7.0 6.5 6.0 6/8 6/10 6/12 SCDHEC in-stream stands 7.5 6.0 6/8 6/10 6/12	6/14 6/16 6/18 6/20 ard: All pH values not less than 6.0 and no 6/14 6/16 6/18 6/20 6, 6/14 6/16 6/18 6/20 6, 6/14 6/16 6/18 6/20 6,	pH //22 6/24 6/26 6/28 Specific Conc	6/30 7/2 ductivity	7/4 7/6 7,	1 sensor was remove 18 7/10 7/1	d due to sensor malf 2 7/14 7/16 2 7/14 7/16 12 7/14 7/10	7/18 7/18 6 7/18 ow Standard)

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

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Sampled Data:

	Sam	ple 1	Sam	ple 2	Sam	ple 3	
Analyte (units)	6/22/2023		6/22/2023		6/22/2023		
	Time	Results	Time	Results	Time	Results	
Escherichia coli (MPN/100mL)	9:10	2,310	10:44	1,520	12:51	1,680	
Total Suspended Solids (mg/L)	9:10	28.0	10:44	21.4	12:51	22.0	
Total Phosphorus (mg/L)	9:10	0.064	10:44	0.058	12:51	0.060	
Total Nitrogen (mg/L)	9:10	1.04	10:44	0.90	12:51	0.99	

Notes:

Data Gaps

The pH sensor was removed during this monitoring period due to sensor malfunction.

Potential Illicit Discharges and Abnormal Events:

There was a spike in specific conductivity on 6/10 and 7/6, which may have been the result of a potential illicit discharge.