Continuous Water Quality Monitoring Periodic Report

Smith Branch A (July 19, 2023 - August 22, 2023)

		CONTINUOUS				SUMMARY STATISTICS					
PARAMETER	DESCRIPTION WATER QUAI PARAMETER				MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION		
STREAM NAME:	Smith Branch		STAGE (FT):			1.6	5.5	1.6	1.7	0.2	
LOCATION:	Earlewood Par	k									
ADDRESS:	1111 Parkside I Columbia, SC 29		TEMPERATUR		(°F):	74	84	78	78	1	
COORDINATES:	34.027289,-81.04	265	TURBIDITY (NTU):		3	496	5	10	18		
TMDL/IMPAIRMENT:	Fecal Coliform	1		•							
NEIGHBORING LANDUSE:	Residential and com	mercial	pH:		6.3	7.2	6.8	6.8	0.1		
SPATIAL LOCATION:	Most upstream s	site									
TOTAL NO. STORMS OVER 0.1 INCH:	5		SPECIFIC CONDUCTIVITY (mS/cm):		,	0.027	0.164	0.145	0.135	0.025	
MAX. DAILY RAINFALL:	1.4 inches		DISS	OLVED OXY	GEN						
TOTAL RAINFALL (FOR PERIOD):	0.4 inches			(mg/L):		4.2	7.7	6.5	6.5	0.5	
		•	· ·	Stage	e & Rainfa	all					
# 15 F							r	I		0.0 0.5 <u>=</u>	
e 15 10 5 10 5 10 5 10 5 10 5 10 5 10 5										0.5 1.5 Land	
7/19 7/21 7/23	7/25 7/27 7,	/29 7/3	31 8/	2 8/4	8/6	8/8 8	3/10 8/12	3/14 8/16	8/18 8/20	8/22	
100				W	ater Temp	•					
100 85											
70											
7/19 7/21 7/23	7/25 7/27 7	7/29 7/	31 8/	2 8/4	8/6	8/8	8/10 8/12	8/14 8/16	8/18 8/20	8/22	
600					Turbidity						
A00 200						•					
2 200											
7/19 7/21 7/25	3 7/25 7/27	7/29	7/31	8/2 8/4	8/	6 8/8	8/10 8/12	8/14 8/16	8/18 8/20	8/22	
SCDHEC in-stream standard	d: All pH values not less than	6.0 and not	more than 8	3.5	рН						
7.2 H 6.8				~							
6.4				***							
7/19 7/21 7/23	7/25 7/27	7/29 7	/31 8	/2 8/4	8/6	5 8/8	8/10 8/12	8/14 8/16	8/18 8/20	8/22	
0.20				Spec	ific Cond	uctivity					
		$\overline{}$		-		-				-	
8 0.15 0.10 0.05											
	3 7/25 7/27	7/29	7/31	8/2 8/4	8/	6 8/8	8/10 8/12	8/14 8/16	8/18 8/20	8/22	
© 0.15 0.10 0.05 0.00 7/19 7/21 7/23	3 7/25 7/27 dard: Daily average not less th				8/ Dissolved		8/10 8/12	8/14 8/16	8/18 8/20 4 mg/L (SCDHEC I		
0.15 0.10 0.05 0.00 7/19 7/21 7/23							8/10 8/12				
0.15 0.00 0.05 0.00 7/19 7/21 7/23							8/10 8/12				

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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: No samples were collected during this monitoring period.

Analyte (units)								
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)								
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Notes:

Data Gaps

Turbidity had a data gap on 8/20 due to fouling. There was a gap in stage data from 8/19 - 8/20 due to an instrument communication malfunction.

Potential Illicit Discharges and Abnormal Events:

No abnormal events were observed during this monitoring period.

Continuous Water Quality Monitoring Periodic Report

Smith Branch B (July 19, 2023 - August 22, 2023)

		CONTINUOUS	SUMMARY STATISTICS					
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION	
STREAM NAME:	Smith Branch	STAGE (FT):	0.4	4.8	0.5	0.5	0.2	
LOCATION:	Off Mountain Drive							
NEAREST ADDRESS:	3950 Clement Rd Columbia, SC 29203	TEMPERATURE (°F):	74	88	79	79	2	
COORDINATES:	34.037933,-81.0591	TURBIDITY (NTU):	2	1056	11	17	42	
TMDL/IMPAIRMENT:	Fecal Coliform	TOKBIDITT (NTO).	2	1036	11	17	42	
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.4	9.0	7.3	7.3	0.4	
SPATIAL LOCATION:	Most Downstream Site	F	Ü	0.0			5	
TOTAL NO. STORMS OVER 0.1 INCH:	5	SPECIFIC CONDUCTIVITY (mS/cm):	0.011	0.155	0.137	0.128	0.025	
MAX. DAILY RAINFALL:	1.4 inches	DISSOLVED OXYGEN	5.0	44.4		7.4	4.0	
TOTAL RAINFALL (FOR PERIOD):	0.4 inches	(mg/L):	5.6	11.1	7.1	7.4	1.0	
		Stage & Rainf	all					
# 6		-		-	T		0.0	
Stage 3						+ +	1.0	
7/19 7/21 7/23	7/25 7/27 7/29 7/	31 8/2 8/4 8/6	8/8 8/2	10 8/12 8	8/14 8/16	8/18 8/20	8/22	
100		Water Tem	р					
85						A A A A		
70						700		
55 7/19 7/21 7/23	7/25 7/27 7/29 7,	/31 8/2 8/4 8/6	5 8/8 8/	/10 8/12	8/14 8/16	8/18 8/20	8/22	
1200		Turbidity		••				
800 400				• • • • • • • • • • • • • • • • • • • •	•			
0 / 7/19 7/21 7/2	3 7/25 7/27 7/29	7/31 8/2 8/4 8,	/6 8/8	8/10 8/12	8/14 8/16	8/18 8/20	8/22	
				-,,	, , ,	-,, -		
SCDHEC in-stream standa	rd: All pH values not less than 6.0 and not	more than 8.5 pH						
¥ 8.0	<u> </u>		1: 00			_ ^ / /		
7.0								
7/19 7/21 7/23	7/25 7/27 7/29 7	/31 8/2 8/4 8/	6 8/8 8	8/10 8/12	8/14 8/16	8/18 8/20	8/22	
0.20		Specific Cond	ductivity					
§ 0.15 0.10 0.05			-,	n				
E 0.05		<u> </u>	1					
7/19 7/21 7/23	3 7/25 7/27 7/29	7/31 8/2 8/4 8	/6 8/8	8/10 8/12	8/14 8/16	8/18 8/20	8/22	
SCDHEC in-stream star	ndard: Daily average not less than 5 mg/L	with a low of 4 mg/L Dissolved	Oxygen			4 mg/L (SCDHEC L	ow Standard)	
12 10		ΛΛΛΛΛ	Λ				Δ.Δ	
√8 6 4			V, 30					
7/19 7/21 7/2	3 7/25 7/27 7/29	7/31 8/2 8/4 8	3/6 8/8	8/10 8/12	8/14 8/16	8/18 8/20	8/22	
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	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)								
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Notes:

Data Gaps

Turbidity and DO had a data gap from 8/6 - 8/7 due the sensors being buried.

Potential Illicit Discharges and Abnormal Events:

No abnormal events were observed during this monitoring period.