Continuous Water Quality Monitoring Periodic Report

Smith Branch A (August 11, 2022 - September 14, 2022)

	CONTIN			NUOUS		SUMMARY STATISTICS			
PARAMETER	DESCRIPTION			WATER QUALITY PARAMETERS:		MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Smith Branch STAGE (FT):		1.5	5.1	1.6	1.7	0.3		
LOCATION:	Earlewoo	od Park							
ADDRESS:	1111 Park Columbia, S		TEMPE	RATURE (°F):	72	82	77	77	1
COORDINATES:	34.027289,	-81.04265	TURBIC	DITY (NTU):	2	289	5	14	26
TMDL/IMPAIRMENT:	Fecal Co	oliform		TONDIDITY (ATO).			_		
NEIGHBORING LANDUSE:	Residential and	d commercial	pH:		6.3	7.0	6.7	6.7	0.1
SPATIAL LOCATION:	Most upstr	eam site	epecie	-10					
TOTAL NO. STORMS OVER 0.1 INCH:	11		CONDU	SPECIFIC CONDUCTIVITY (mS/cm):		0.172	0.145	0.134	0.030
MAX. DAILY RAINFALL: TOTAL RAINFALL	1.3 ind			VED OXYGEN mg/L):	5.9	8.1	6.9	7.0	0.4
(FOR PERIOD):	0.4	398.000		.		ļ		ļ	
12	, , ,			Stage & Rain	fall			T- T-	0.0
2 Stage, 9 6 + 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9								88	0.0 0.5 1.0 1.5
8/11 8/13 8/15	8/17 8/19	8/21 8,	/23 8/25	8/27 8/29	8/31 9/	/2 9/4	9/6 9/8	9/10 9/12	9/14
9,11 9,15 9,15		5,21 0,		0,2, 0,2.	3,01			3,10 3,11	
90				Water Ten	пр				
<u>и</u> 80	~~~	~~~		~~	~~~	~~~			<u> </u>
70			<u> </u>				<u> </u>		
8/11 8/13 8/15	8/17 8/19	8/21 8	/23 8/25	8/27 8/2	9 8/31 9	/2 9/4	9/6 9/8	9/10 9/12	9/14
				Turbidit	<i>'</i>				
300					•		8		
100		i i			į.			Lik	
0 +	15 8/17 8/	19 8/21	8/23 8/25	8/27 8,	29 8/31	9/2 9/4	9/6 9/8	9/10 9/12	9/14
SCDHEC in-stream standa	rd: All pH values not le	ess than 6.0 and not	t more than 8.5	рн					
7.6									
표 6.8 6.4				~			7	VV	
6.0 	8/17 8/19	8/21	8/23 8/25	8/27 8/	29 8/31	9/2 9/4	9/6 9/8	9/10 9/12	9/14
0.25				Specific Con	ductivity				
0.20 0.15 0.10	7/						7	-	
0.00	V				7		•	W	
8/11 8/13 8/1	5 8/17 8/1	9 8/21	8/23 8/25	8/27 8,	/29 8/31	9/2 9/4	9/6 9/8	9/10 9/12	9/14
SCDHEC in-stream star	dard: Daily average no	ot less than 5 mg/L	with a low of 4 m	ng/L Dissolve	d Oxygen			4 mg/L (SCDHEC	_ow Standard)
7/8 8 6 6	~~~			~~~					
4 2									

Continuous Water Quality Monitoring Periodic Report

Smith Branch A (August 11, 2022 - September 14, 2022)

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)								
			_					
Escherichia coli (MPN/100mL)								
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Notes:

Data Gaps

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

Potential Illicit Discharges and Abnormal Events:

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

Continuous Water Quality Monitoring Periodic Report

Smith Branch B (August 11, 2022 - September 14, 2022)

		CONTINUOUS	SUMMARY STATISTICS					
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION	
STREAM NAME:	Smith Branch	STAGE (FT):	0.2	4.1	0.3	0.3	0.3	
LOCATION:	Off Mountain Drive							
NEAREST ADDRESS:	3950 Clement Rd Columbia, SC 29203	TEMPERATURE (°F):	72	82	76	76	2	
COORDINATES:	34.037933,-81.0591	TURBIDITY (NTU):	5	307	20	31	34	
TMDL/IMPAIRMENT:	Fecal Coliform	. ,						
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.3	7.3	6.9	6.9	0.2	
SPATIAL LOCATION:	Most Downstream Site						-	
TOTAL NO. STORMS OVER 0.1 INCH:	9	SPECIFIC CONDUCTIVITY (mS/cm):	0.027	0.154	0.071	0.073	0.020	
MAX. DAILY RAINFALL: TOTAL RAINFALL (FOR	1.4 inches 0.4 398.000	DISSOLVED OXYGEN (mg/L):	6.3	8.6	7.2	7.2	0.4	
PERIOD):		<u> </u>		1	<u> </u>			
12	· · · · · · · · · · · · · · · · · · ·	Stage & Rai	nfall			T-P-T	0.0	
Stage, ft 9 6 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	i i					-	0.5 u. 1.5 u. 1.5 u. 1.5 u. 2.0	
Stage 3	A						1.5	
8/11 8/13 8/15	8/17 8/19 8/21 8/	23 8/25 8/27 8/2	29 8/31 9/	2 9/4 9	9/8	9/10 9/12	9/14	
95		Water Te	mp					
. 85 								
/5	~~~	~ ~	~			-	~	
8/11 8/13 8/15	8/17 8/19 8/21 8	/23 8/25 8/27 8/	29 8/31 9	/2 9/4	9/6 9/8	9/10 9/12	9/14	
400		Turbidi	ty					
300 200								
100								
8/11 8/13 8/1	.5 8/17 8/19 8/21	8/23 8/25 8/27	8/29 8/31	9/2 9/4	9/6 9/8	9/10 9/12	9/14	
	rd: All pH values not less than 6.0 and no	t more than 8.5 pH						
7.5			• .		•			
五 7.0 6.5	U W		V			V	W -	
6.0 8/11 8/13 8/15	8/17 8/19 8/21 8	/23 8/25 8/27 8	/29 8/31 9	9/2 9/4	9/6 9/8	9/10 9/12	9/14	
0.22		Specific Co	nductivity					
0.20 E 0.15		•	•		•			
8 0.15 0.10 0.05	i h		ir		l l		¥./	
0.00 8/11 8/13 8/1	5 8/17 8/19 8/21	8/23 8/25 8/27	8/29 8/31	9/2 9/4	9/6 9/8	9/10 9/12	9/14	
SCDHEC in-stream sta	ndard: Daily average not less than 5 mg/L	with a low of 4 mg/L Dissolve	ed Oxygen			4 mg/L (SCDHEC L	ow Standard)	
12 10								
7/8m 8 6 4		~ ~				٠ ٠	1000 m	
2								
8/11 8/13 8/1	5 8/17 8/19 8/21	8/23 8/25 8/27	8/29 8/31	9/2 9/4	9/6 9/8	9/10 9/12	9/14	

Continuous Water Quality Monitoring Periodic Report

Smith Branch B (August 11, 2022 - September 14, 2022)

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)								
Escherichia coli (MPN/100mL)								
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Notes:

Data Gaps

There were data gaps in temperature, turbidity, pH, specific conductivity, and dissolved oxygen from 8/13 - 8/16, 8/16 - 8/17, 8/19, 8/21 - 8/23, 8/28 - 8/31, 9/1 - 9/7, 9/8 - 9/9, and 9/10 - 9/12 due to sensors becoming unsubmerged. An additional turbidity data gap occured 8/17 - 8/18 due to sensor fouling.

Potential Illicit Discharges and Abnormal Events:

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