Continuous Water Quality Monitoring Periodic Report

Smith Branch A (March 24, 2022 - April 27, 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):	0.5	2.1	0.5	0.7	0.2	
LOCATION:	Earlewood Park							
ADDRESS:	1111 Parkside Dr Columbia, SC 29201	TEMPERATURE (°F):	52	73	62	62	4	
COORDINATES:	34.027289,-81.04265	TURBIDITY (NTU):	2	314	5	15	28	
TMDL/IMPAIRMENT:	Fecal Coliform	TORBIBITT (ICTO).	2	014	ŭ	10	20	
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.2	6.9	6.7	6.7	0.1	
SPATIAL LOCATION:	Most upstream site		-		-			
TOTAL NO. STORMS OVER 0.1 INCH:	6	SPECIFIC CONDUCTIVITY (mS/cm):	0.040	0.171	0.149	0.142	0.024	
MAX. DAILY RAINFALL:	1.9 inches	DISSOLVED						
TOTAL RAINFALL (FOR PERIOD):	5.9 inches	OXYGEN (mg/L):	4.7	10.8	8.4	8.4	0.8	
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50 3/24 3/26 3/28	3/30 4/1 4/3 4	1/5 4/7 4/9 4		4/15 4/17	4/19 4/21	4/23 4/2	5 4/27	
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P 60 3/24 3/26 3/28 200 100 3/24 3/26 3/28 6.8 6.4 6.0	28 3/30 4/1 4/3 Td: All pH values not less than 6.0 and not	Turbidity 4/5 4/7 4/9	4/11 4/13	4/15 4/17	4/19 4/21	1 4/23 4/	25 4/27	
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F 60 3/24 3/26 3/28 F 200 100 3/24 3/26 3/28 SCDHEC in-stream standar 7.2 6.8 6.4 6.0 3/24 3/26 3/28	28 3/30 4/1 4/3 Td: All pH values not less than 6.0 and not	Turbidity 4/5 4/7 4/9 nore than 8.5 pH	4/11 4/13	4/15 4/17	4/19 4/21	1 4/23 4/	25 4/27	
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F 60 3/24 3/26 3/28 200 100 3/24 3/26 3/28 6.8 6.4 6.0 3/24 3/26 3/28	28 3/30 4/1 4/3 Td: All pH values not less than 6.0 and not	Turbidity 4/5 4/7 4/9 nore than 8.5 pH	4/11 4/13	4/15 4/17	4/19 4/21	1 4/23 4/	25 4/27	
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3/24 3/26 3/28 400 3/24 3/26 3/28 200 100 0 3/24 3/26 3/28 SCDHEC in-stream standar 7.2 6.8 6.4 6.0 3/24 3/26 3/28 SCDHEC in-stream standar 10 SCDHEC in-stream standar 11 SCDHEC in-stream standar 12 SCDHEC in-stream standar 12	28 3/30 4/1 4/3 Td: All pH values not less than 6.0 and not	Turbidity 4/5 4/7 4/9 Specific Conc	4/11 4/13 4/11 4/13 ductivity	4/15 4/17	4/19 4/21	1 4/23 4/	25 4/27 /25 4/27	
3/24 3/26 3/28 200 300 300 300 300 300 300 300 300 30	28 3/30 4/1 4/3 rd: All pH values not less than 6.0 and not	Turbidity 4/5 4/7 4/9 Specific Conc	4/11 4/13 ductivity 4/11 4/13	4/15 4/17	4/19 4/21	1 4/23 4/23 4	25 4/27 /25 4/27	
F 60 3/24 3/26 3/28 400 300 100 0 3/24 3/26 3/28 SCDHEC in-stream standar 7.2 6.8 6.4 6.0 3/24 3/26 3/28 SCDHEC in-stream standar 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	28 3/30 4/1 4/3 rd: All pH values not less than 6.0 and not	Turbidity 4/5 4/7 4/9 Specific Conc	4/11 4/13 ductivity 4/11 4/13	4/15 4/17	4/19 4/21	1 4/23 4/23 4	25 4/27 /25 4/27	

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Smith Branch A (March 24, 2022 - April 27, 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: There were no data samples collected for 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 data was removed from March 27th - 29th, April 1st - 4th, and April 7th - April 11th, because the sensor collected erroneous data due to fouling.

Potential Illicit Discharges and Abnormal Events:

There were no indications of potential illicit discharges or abnormal events that occurred during this monitoring period.

Continuous Water Quality Monitoring Periodic Report

Smith Branch B (March 24, 2022 - April 27, 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):	0.3	3.6	0.5	0.6	0.4	
LOCATION:	Off Mountain Drive							
NEAREST ADDRESS:	3950 Clement Rd Columbia, SC 29203	TEMPERATURE (°F):	51	71	63	62	5	
COORDINATES:	34.037933,-81.0591	TUDDIDITY (NTU).	4	631	14	24	36	
TMDL/IMPAIRMENT:	Fecal Coliform	TURBIDITY (NTU):	4	631	14	24	36	
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.4	7.9	7.0	7.0	0.2	
SPATIAL LOCATION:	Most Downstream Site	F					0.2	
TOTAL NO. STORMS OVER 0.1 INCH:	6	SPECIFIC CONDUCTIVITY (mS/cm):	0.030	0.158	0.140	0.130	0.025	
MAX. DAILY RAINFALL:	1.9 inches	DISSOLVED OXYGEN						
TOTAL RAINFALL (FOR PERIOD):	5.9 inches	(mg/L):	5.2	12.3	8.6	8.6	1.1	
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9	111111111111111111111111111111111111111	Stage & Rainf	raii				0.0	
Stage, ft							0.5	
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0 3/24 3/26 3/:	28 3/30 4/1 4/3 ard: All pH values not less than 6.0 and no		4/11 4/13	4/15 4/17	4/19 4/21	4/23 4/	25 4/27	
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0 3/24 3/26 3/3			4/11 4/13	4/15 4/17	4/19 4/21	4/23 4/	25 4/27	
0 3/24 3/26 3/3 SCDHEC in-stream standa 8.0 7.5 7.0	rd: All pH values not less than 6.0 and no	t more than 8.5 pH	4/11 4/13	4/15 4/17	4/19 4/21		25 4/27	
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0 3/24 3/26 3/28 SCDHEC in-stream standa 7.5 7.0 6.5 6.0 3/24 3/26 3/28	rd: All pH values not less than 6.0 and no	t more than 8.5 pH	4/11 4/13		V		•	
0 3/24 3/26 3/2 8.0 SCDHEC in-stream standa 7.5 7.0 6.5 6.0 3/24 3/26 3/28	rd: All pH values not less than 6.0 and no	t more than 8.5 pH	4/11 4/13		V		•	
0 3/24 3/26 3/2 8.0 SCDHEC in-stream standa 7.5 7.0 6.5 6.0 3/24 3/26 3/28	rd: All pH values not less than 6.0 and no	t more than 8.5 pH	4/11 4/13		V		•	
8.0 3/24 3/26 3/28 8.0 7.5 7.0 6.5 6.0 3/24 3/26 3/28 8.0 8.0 7.5 7.0 6.5 6.0 0.15 0.05 0.05 0.00	ard: All pH values not less than 6.0 and no	t more than 8.5 pH 4/5 4/7 4/9 Specific Cond	4/11 4/13 ductivity	4/15 4/17	4/19 4/21	. 4/23 4/	25 4/27	
0 3/24 3/26 3/26 8.0 5CDHEC in-stream standa 8.0 7.5 6.5 6.0 3/24 3/26 3/28	ard: All pH values not less than 6.0 and no	t more than 8.5 pH	4/11 4/13		V	. 4/23 4/	•	
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0 3/24 3/26 3/28 8.0	3/30 4/1 4/3	Specific Conc 4/5 4/7 4/9	4/11 4/13 ductivity 4/11 4/13	4/15 4/17	4/19 4/21	4/23 4/23 4	25 4/27	
0 3/24 3/26 3/28 8.0 SCDHEC in-stream standa 7.0 6.5 6.0 3/24 3/26 3/28 0.20 0.15 0.10 0.05 0.00 3/24 3/26 3/2	3/30 4/1 4/3	Specific Conc 4/5 4/7 4/9	4/11 4/13 ductivity 4/11 4/13	4/15 4/17	4/19 4/21	4/23 4/23 4	25 4/27	
0 3/24 3/26 3/28 8.0 SCDHEC in-stream standa 7.5 6.0 6.0 3/24 3/26 3/28 0.20 0.15 0.00 0.05 0.00 3/24 3/26 3/28	ard: All pH values not less than 6.0 and no all pH values not less than 6.0 and no all pH values not less than 5 mg/L	Specific Conc 4/5 4/7 4/9	4/11 4/13 ductivity 4/11 4/13	4/15 4/17	4/19 4/21	. 4/23 4/ 11 4/23 4	25 4/27	

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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							
Analyte (units)	4/22/2022							
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	9:43	3873.0						
Total Suspended Solids (mg/L)	9:43	2.1						
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Sample 1 was collected during dry weather conditions.

Notes:

Data Gaps

Water temperature, turbidity, pH, specific conductivity, and dissolved oxygen all had a data gap from April 2nd - 5th because the sonde was unsubmerged. Turbidity also had data gaps from April 7th - 11th and April 19th - 24th due to sensor fouling.

Potential Illicit Discharges and Abnormal Events:

There were no indications of potential illicit discharges or abnormal events that occurred during this monitoring period.