Gills Creek A (December 7, 2022 - January 10, 2023)

									SUMM	ARY STAT	TISTICS			
PARAMETER	DESCRIPT	ΓΙΟΝ		ATER QUA		MINIM		MAXIM OBSER	-	MEDIAN OBSERVED		MEAN SERVED		NDARI IATIOI
STREAM NAME:	Gills Cre	ek	s	TAGE (FT):	:	1.7		3.3		2.1		2.1	().3
LOCATION:	Forest Drive	Bridge												
ADDRESS:	4840 Forest Columbia, SC		TEMPERATURE (°F):											
COORDINATES:	34.019826, -80).963566	TURBIDITY (NTU):											
TMDL/IMPAIRMENT:	Fecal & Dissolve	ed Oxygen												
NEIGHBORING _ANDUSE:	Residential and c	commercial	p	H:										
APPROX. DRAINAGE AREA:	48 square r	miles												
SPATIAL LOCATION:	Most upstrea	am site		PECIFIC										
TOTAL NO. STORMS OVER 0.1 INCH:	8		CONDUCTIVITY (mS/cm):											
MAX. DAILY RAINFALL:	0.7 inche	es		ISSOLVED										
FOTAL RAINFALL (FOR PERIOD):	3.7 inch	es		XYGEN (m										
				S	itage & Rain	fall					•		•	
6														0.0 0.5
														0.0 0.5 1.0 1.5
0 12/7 12/9 12/11	12/13 12/15	12/17 12	/19 :	12/21 12/2	23 12/2	5 12/27	12/2	9 12/31	1/2	1/4	1/6	1/8	1/10	2.0
					Water Ten	ıp								
90 80														
+ 70														
60 50 50 50 50 50 50 50 50 50 50 50 50 50					(22]
60	12/13 12/15	12/17 12	2/19	12/21 12/	/23 12/2	25 12/2	7 12/2	29 12/3	1 1/2	1/4	1/6	1/8	1/10	ļ
60 50 50 50 50 50 50 50 50 50 50 50 50 50	12/13 12/15	12/17 1:	2/19	12/21 12/	/23 12/2 Turbidit		7 12/2	29 12/3	1 1/2	1/4	1/6	1/8	1/10]
	12/13 12/15	12/17 12	2/19	12/21 12/			7 12/	29 12/3	1 1/2	2 1/4	1/6	1/8	1/10	
60 50 12/7 12/9 12/11 200 150 50 50		12/17 12	2/19				7 12/	29 12/3	1 1/2	2 1/4	1/6	1/8	1/10	
60 50 12/7 12/9 12/11 200 150 100			2/19		Turbidit			29 12/3			1/6	1/8	1/10	
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60 50 12/7 12/9 12/1 12/9 12/1 12/9 12/11 12/9 12/11 12/1 12/1 12/9 12/11 12/9 12/7 12/7 1	11 12/13 12/15	12/17	12/19	12/21 12	Turbidit							1/8		
60 50 12/7 12/9 12/1 12/9 12/11 200 150 0 12/7 12/9 12/11 12/11 12	11 12/13 12/15 ard: All pH values not les	12/17	12/19	12/21 12	Turbidit 2/23 12 pH	//25 12/	27 12	/29 12/	31 1/	2 1/4				
60 50 12/7 12/9 12/1 12/9 12/1 12/9 12/1 12/9 12/1 12/9 12/1 12/9 12/1 12/9 12/11 12/11	11 12/13 12/15 ard: All pH values not les	12/17	12/19	12/21 12 than 8.5	Turbidit 2/23 12 pH	/25 12/2	27 12	/29 12/	31 1/	2 1/4	1/6	1/8	1/10	
60 50 12/7 12/9 12/1 12/9 12/1 12/9 12/1 12/9 12/1 12/9 12/1 12/9 12/1 12/9 12/1 12/9 12/11	11 12/13 12/15 ard: All pH values not les	12/17	12/19	12/21 12 than 8.5	Turbidit 2/23 12 pH	/25 12/2	27 12	/29 12/	31 1/	2 1/4	1/6	1/8	1/10	
60 50 12/7 12/9 12/1 12/9 12/1 12/9 12/1 12/9 12/1 12/9 12/1 12/9 12/11	11 12/13 12/15 ard: All pH values not les	12/17	12/19	12/21 12 than 8.5	Turbidit 2/23 12 pH	/25 12/2	27 12	/29 12/	31 1/	2 1/4	1/6	1/8	1/10	
60 50 12/7 12/9 12/1 12/9 12/1 12/9 12/1 12/9 12/11 200 150 0 100 50 0 12/7 12/9 12/11 200 150 100 50 0 12/7 12/9 12/11 200 12/1 12/9 12/11 12/9 12/11 100 50 0 12/7 12/9 12/11 12/9 12/11 12/9 12/11 100 50 0 12/7 12/9 12/1 12/9 12/11 100 50 0 12/7 12/9 12/9 12/1 12/9 12/1 12/7 12/9 12/1 12/9 12/1 12/7 12/9 12/1 12/7 12/9 12/1 12/7 12/9 12/1 12/7 12/9 12/1 12/7 12/9 12/1 12/1 12/7 12/9 12/1 12/1 12/7 12/9 12/1 12/1 12/7 12/9 12/1 12/9 12/1 12/	11 12/13 12/15 ard: All pH values not les	12/17	12/19	12/21 12 than 8.5	Turbidit 2/23 12 pH	/25 12/2	27 12	/29 12/	31 1/	2 1/4	1/6	1/8	1/10	
60 50 12/7 12/9 12/1 12/9 12/1 12/9 12/1 12/9 12/1 12/9 12/11 12/11 12/9 12/11 12/11 12/9 12/11 12/1	In the second se	s than 6.0 and n 12/17 12/17 12/17 1	12/19	12/21 12 than 8.5 12/21 12/ 12/21 12/ 12/21 12/	Turbidit 2/23 12 pH	/ /25 12/ /25 12/ ductivity	7 12	/29 12/	31 1/	2 1/4	1/6	1/8	1/10	
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60 50 12/7 12/9 12/7 12/9 12/11 200 12/7 12/9 12/11 200 12/7 12/9 12/11 200 12/7 12/9 12/11 200 12/7 12/9 12/11 200 12/7 12/9 12/11 200 12/7 12/9 12/11 200 12/7 12/9 12/11 200 12/7 12/9 12/11 200 12/7 12/9 12/11 200 12/7 12/9 12/11 200 12/7 12/9 12/11 200 12/7 12/9 12/1 12/9 12/11 200 12/7 12/9 12/11	ard: All pH values not les	s than 6.0 and n 12/17 12/17 1 12/17 1 12/17 1 12/17 1	2/19	12/21 12 than 8.5	Turbidit 2/23 12 pH	/ /25 12/2 ductivity	7 12	/29 12/3	31 1/	2 1/4	1/6	1/8 1/8 1/8	1/10	
60 50 12/7 12/9 12/7 12/9 12/11 200 12/7 12/9 12/11 200 12/7 12/9 12/11 200 12/7 12/9 12/11 200 12/7 12/9 12/11 200 12/7 12/9 12/11 200 12/7 12/9 12/11 200 12/7 12/9 12/11 200 12/7 12/9 12/11 200 12/7 12/9 12/11 200 12/7 12/9 12/11 200 12/7 12/9 12/11 200 12/7 12/9 12/1 12/9 12/11 200 12/7 12/9 12/11	ard: All pH values not les	s than 6.0 and n 12/17 12/17 1 12/17 1 12/17 1 12/17 1	2/19	12/21 12 than 8.5	Turbidit 2/23 12 pH	/ /25 12/2 ductivity	7 12	/29 12/3	31 1/	2 1/4	1/6	1/8 1/8 1/8	1/10	
60 50 12/7 12/9 12/1 12/9 12/1 12/9 12/11 200 12/7 12/9 12/11 200 12/7 12/9 12/11 200 100 50 0 12/7 12/9 12/11 200 12/1 12/9 12/11 12/11 12/9 12/11 12/11 12/9 12/11 12/1	ard: All pH values not les	s than 6.0 and n 12/17 12/17 1 12/17 1 12/17 1 12/17 1	2/19	12/21 12 than 8.5	Turbidit 2/23 12 pH	/ /25 12/2 ductivity	7 12	/29 12/3	31 1/	2 1/4	1/6	1/8 1/8 1/8	1/10	

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

Gills Creek A (December 7, 2022 - January 10, 2023)

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:

	Sam	ple 1	Sam	ple 2	Sample 3		Sample 4	
Analyte (units)	1/4/2023		1/4/2023		1/4/2023		1/4/2023	
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	9:50	240	11:45	6,510	12:40	9,768	13:45	3,452
Total Suspended Solids (mg/L)	9:50	51.6	11:45	118.0	12:40	432	13:45	180
Total Phosphorus (mg/L)	9:50	0.058	11:45	0.140	12:40	0.460	13:45	0.240
Total Nitrogen (mg/L)	9:50	0.71	11:45	1.41	12:40	2.40	13:45	1.46

All samples collected were during wet weather conditions.

Notes:

Data Gaps

Temperature, turbidity, pH, specific conductivity, and DO had a data gap during the entire monitoring period due to sensors being unsubmerged.

Potential Illicit Discharges and Abnormal Events:

No abnormal events could be identified during this monitoring period.

Gills Creek B (December 7, 2022 - January 10, 2023)

		CONTINUOUS		SU	MMARY STATIS	TICS	
PARAMETER	DESCRIPTION WATER QUALITY PARAMETERS:		MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDAR
STREAM NAME:	Gills Creek	DISCHARGE (CFS):	32.1	338.0	62.8	74.9	43.4
-OCATION:	Devine Street bridge	TEMPERATURE	20	<u></u>	50	50	F
ADDRESS:	4716 Devine Street Columbia, SC 29209	(°F):	39	60	52	50	5
COORDINATES:	33.989656, -80.97433	TURBIDITY (NTU):	7	59	9	10	4
IMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen		,		ÿ		-
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.3	6.7	6.5	6.5	0.1
APPROX. DRAINAGE AREA:	59 square miles	pn.	0.5	0.7	0.5	0.5	0.1
SPATIAL LOCATION:	Middle site	SPECIFIC					
TOTAL NO. STORMS OVER 0.1 INCH:	7	CONDUCTIVITY (mS/cm):	0.042	0.061	0.052	0.053	0.003
MAX. DAILY RAINFALL:	0.8 inches	DISSOLVED					
FOTAL RAINFALL (FOR PERIOD):	3.7 inches	OXYGEN (mg/L):	8.8	12.4	10.1	10.5	0.9
	e USGS 02169570 Gills Creek station.	Discharge & Rai	nfall				
00.00				η	r		0.0
ao.oo					~		0.5
b0.00 0.00							1.5
12/7 12/9 12/11 1	12/13 12/15 12/17 12/19	12/21 12/23 12/25	12/27 12/2	9 12/31 1,	/2 1/4	1/6 1/8	1/10
70		Water Temp					
60 50							~
40 40 40 40 40 40 40 40 40 40 40 40 40 4							
	12/13 12/15 12/17 12/19	12/21 12/23 12/25	12/27 12/2	29 12/31 1	/2 1/4	1/6 1/8	1/10
100		Turbidity					
100 75							
F 50 25							
0 12/7 12/9 12/11	12/13 12/15 12/17 12/19	12/21 12/23 12/25	12/27 12/	/29 12/31	1/2 1/4	1/6 1/8	1/10
SCDHEC in-stream standard: All	pH values not less than 6.0 and not more th	an 8.5 pH					
7.0							
6.6 6.4							
6.2							
12/7 12/9 12/11	12/13 12/15 12/17 12/19	12/21 12/23 12/25	12/27 12/	29 12/31	1/2 1/4	1/6 1/8	1/10
0.08		Specific Condu	ctivity				
0.06 0.04 0.02							
0.00					· · · · · · · · · · · · · · · · · · ·		, , , , , , , , , , , , , , , , , , ,
12/7 12/9 12/11	12/13 12/15 12/17 12/19	12/21 12/23 12/25	12/27 12/	/29 12/31	1/2 1/4	1/6 1/8	1/10
SCDHEC in-stream standard	: Daily average not less than 5 mg/L with a lo	ow of 4 mg/L Dissolved O	xygen			4 mg/L (SCDHEC	Low Standard)
14							
		+++-					+
2 12/7 12/9 12/11	12/13 12/15 12/17 12/19	12/21 12/23 12/2	5 12/27 12	2/29 12/31	1/2 1/4	1/6 1/8	1/10

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

Gills Creek B (December 7, 2022 - January 10, 2023)

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:

	Sam	ple 1	Sam	Sample 2		Sample 3		ple 4
Analyte (units)	1/4/2023		023 1/4/2023		1/4/2023		1/4/2023	
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	9:30	492	11:30	2,548	12:10	1,970	12:25	1,868
Total Suspended Solids (mg/L)	9:30	6.9	11:30	56.0	12:10	22.2	12:25	43.5
Total Phosphorus (mg/L)	9:30	0.033	11:30	0.150	12:10	0.068	12:25	0.140
Total Nitrogen (mg/L)	9:30	0.73	11:30	1.20	12:10	1.82	12:25	0.99

Applyto (upito)	Sam	ple 5					
Analyte (units)	1/4/2023		1/4/2023				
	Time	Results					
Escherichia coli (MPN/100mL)	13:25	2,224					
Total Suspended Solids (mg/L)	13:25	71.5					
Total Phosphorus (mg/L)	13:25	0.088					
Total Nitrogen (mg/L)	13:25	0.95					

All samples were collected during wet weather conditions.

Notes:

Data Gaps

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

Potential Illicit Discharges and Abnormal Events:

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

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

Gills Creek C (December 7, 2022 - January 10, 2023)

		CONTINUOUS	SUMMARY STATISTICS						
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARE DEVIATION		
STREAM NAME:	Gills Creek	STAGE (FT):	3.1	9.3	3.8	4.2	1.2		
LOCATION:	Bluff Road bridge								
ADDRESS:	3009 Bluff Rd. Columbia, SC 29209	TEMPERATURE (°F)	: 36	61	51	50	6		
COORDINATES:	33.948043, -80.9889								
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen	TURBIDITY (NTU):	5	70	8	9	5		
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.1	6.5	6.4	6.4	0.1		
APPROX. DRAINAGE AREA:	64 square miles	pri.	0.1	0.0	0.4	0.4	0.1		
SPATIAL LOCATION:	Most downstream site	SPECIFIC							
TOTAL NO. STORMS OVER 0.1 INCH:	7	CONDUCTIVITY (mS/cm):	0.053	0.079	0.058	0.059	0.004		
MAX. DAILY RAINFALL:	0.75 inches	DISSOLVED	7.3	12.4	9.3	9.6	1.3		
TOTAL RAINFALL (FOR PERIOD):	3.7 inches	OXYGEN (mg/L):			0.0	0.0	1.5		
16		Stage & Rai	nfall				0.0		
# 12 % 8 % 4 0	12/13 12/15 12/17 12/	(19 12/21 12/23 12/	25 12/27 12/	/29 12/31	1/2 1/4	1/6 1/8	0.5		
12/7 12/9 12/11		Water Ter	mp		· · · ·				
70	12/13 12/15 12/17 12,			/29 12/31	1/2 1/4	1/6 1/8	1/10		
70 60 50 40 12/7 12/9 12/11 100		Water Ter	/25 12/27 12	/29 12/31		1/6 1/8	1/10		
70 60 40 40 30 12/7 12/9 12/11		Water Ter /19 12/21 12/23 12	/25 12/27 12	/29 12/31		1/6 1/8	1/10		
70 60 50 40 30 12/7 12/9 12/11		Water Ter //19 12/21 12/23 12 Turbidit	y	2/29 12/31		1/6 1/8	1/10		
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270 60 50 40 30 12/7 12/9 12/11 12/9 12/11 12/9 12/11 12/7 12/9 12/11 12/9 12/11 12/9 12/11 50 50 50 50 50 50 50 50 50 50	11 12/13 12/15 12/17 1	Water Ter /19 12/21 12/23 12 Turbidit 2/19 12/21 12/23 1	y		1/2 1/4				
270 60 50 40 12/7 12/9 12/11 12/7 12/9 12/11	11 12/13 12/15 12/17 1 rd: All pH values not less than 6.0 and no	Water Ter /19 12/21 12/23 12 Turbidit 2/19 12/21 12/23 1 12/19 12/21 12/23 1 tmore than 8.5 pH	y 2/25 12/27 12 y 2/25 12/27 1		1/2 1/4				
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70 60 50 40 12/7 12/9 12/7 12/9 12/7 12/9 12/7 12/9 12/7 12/9 12/7 12/9 12/7 12/9 12/7 12/9 12/7 12/9 12/7 12/9 12/7 12/9 12/7 12/9 12/7 12/9 12/7 12/9 12/7 12/9 12/7 12/9 12/7 12/9 12/7 12/9	11 12/13 12/15 12/17 1 rd: All pH values not less than 6.0 and no	Water Ter /19 12/21 12/23 12 Turbidit 12/19 12/21 12/23 1 t more than 8.5 pH	2/25 12/27 12 2/25 12/27 1 2/25 12/27 1	2/29 12/31		1/6 1/8	1/10		
70 60 40 12/7 12/7 12/9 12/7	11 12/13 12/15 12/17 1 ard: All pH values not less than 6.0 and no 12/13 12/15 12/17 12 12/13 12/15 12/17 12	Water Ter /19 12/21 12/23 12 Turbidit 2/19 12/21 12/23 1 it more than 8.5 pH /19 12/21 12/23 12 Specific Cor	2/25 12/27 12 y 2/25 12/27 1 2/25 12/27 1 multivity	2/29 12/31			1/10		
70 60 40 12/7 12/9 12/1 12/9 12/1 12/9 12/1 12/9 12/1 12/9 12/1 12/9 12/1 12/9 12/1 12/9 12/11	11 12/13 12/15 12/17 1 ard: All pH values not less than 6.0 and no 12/13 12/15 12/17 12 12/13 12/15 12/17 12	Water Ter /19 12/21 12/23 12 Turbidit 2/19 12/21 12/23 1 it more than 8.5 pH /19 12/21 12/23 12 Specific Cor	2/25 12/27 12 y 2/25 12/27 1 2/25 12/27 1 multivity	2/29 12/31		1/6 1/8	1/10		
70 40 40 12/7 12/9 12/11 12/7 12/9 12/11 12/7 12/9 12/11 5CDHEC in-stream standa 6.8 6.4 6.2 6.0 5.8 12/7 12/9 12/11 5CDHEC in-stream standa	11 12/13 12/15 12/17 1 ard: All pH values not less than 6.0 and no 12/13 12/15 12/17 12 12/13 12/15 12/17 12	Water Ter /19 12/21 12/23 12 Turbidit 2/19 12/21 12/23 1 t more than 8.5 pH /19 12/21 12/23 12 Specific Cor 2/19 12/21 12/23 1 12/21 12/23 1	2/25 12/27 12 y 2/25 12/27 1 2/25 12/27 1 multivity	2/29 12/31			1/10 1/10		
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70 60 40 40 12/7 12/9 12/11	In 12/13 12/15 12/17 1 Ind: All pH values not less than 6.0 and no 12/13 12/15 12/17 12 12/13 12/15 12/17 12 12/13 12/15 12/17 12	Water Ter /19 12/21 12/23 12 Turbidit 2/19 12/21 12/23 1 t more than 8.5 pH /19 12/21 12/23 12 Specific Cor 2/19 12/21 12/23 1 12/21 12/23 1	/25 12/27 12 y 2/25 12/27 1 //25 12/27 1 nductivity 2/25 12/27 1	2/29 12/31		1/6 1/8	1/10 1/10		

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

REPORT GENERATED ON 1/31/2022

Gills Creek C (December 7, 2022 - January 10, 2023)

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:

	Sam	ple 1	Sam	ple 2	Sample 3		Sam	ple 4
Analyte (units)	1/4/	1/4/2023		1/4/2023		1/4/2023		2023
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	11:25	1,508	12:30	1,974	13:30	2,038	14:15	3,328
Total Suspended Solids (mg/L)	11:25	21.2	12:30	34.0	13:30	23.8	14:15	50.0
Total Phosphorus (mg/L)	11:25	0.061	12:30	0.073	13:30	0.079	14:15	0.092
Total Nitrogen (mg/L)	11:25	0.79	12:30	0.95	13:30	1.29	14:15	1.89

All samples were collected during wet weather conditions.

Notes:

Data Gaps

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

Potential Illicit Discharges and Abnormal Events:

Specific conductivity increased on 12/31, which may have been the result of a potential illicit discharge.