Gills Creek A (April 28, 2022 - June 1, 2022)

		CONTINUOUS SUMMARY STATIS			TICS				
PARAMETER	DESCRIPTION		WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION	
STREAM NAME:	Gills Creek		STAGE (FT):	1.4	4.0	1.6	1.6	0.3	
LOCATION:	Forest Drive Bridge								
ADDRESS:	4840 Forest Drive, Columbia, SC 29206		TEMPERATURE (°F):	70	87	77	77	3	
COORDINATES:	34.019826, -80.963566		TURBIDITY (NTU):	3	300	5	8	16	
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen			-		-	-		
NEIGHBORING LANDUSE:	Residential and commercial		nH·	57	7.0	6.8	6.9	0.1	
APPROX. DRAINAGE AREA:	48 square miles		pri.	5.7	1.0	0.0	0.0		
SPATIAL LOCATION:	Most upstream site		SPECIFIC		0.074	0.048	0.047	0.002	
TOTAL NO. STORMS OVER 0.1 INCH:	8		CONDUCTIVITY (mS/cm):	0.023					
MAX. DAILY RAINFALL:	1.6 inches		DISSOLVED						
TOTAL RAINFALL (FOR PERIOD):	3.3 inches		OXYGEN (mg/L):	6.5 8.6		7.6	7.6	0.4	
			Stage & Raini	all					
12 # 33 # 36 # 4 0								0.0 1.0 2.0 3.0	
4/28 4/30 5/2 5/4 5/6 5/8 5/10 5/12 5/14 5/16 5/18 5/20 5/22 5/24 5/26 5/28 5/30 6/1									
Water Temp									
	-			\sim					
4/28 4/30 5/2	5/4 5/6 5/8 5,	/10	5/12 5/14 5/10	5 5/18 5,	/20 5/22	5/24 5/26	5/28 5/30	6/1	









5/10

5/12

5/8

4 2 4/28

4/30

5/2

5/4

5/6

5/16

5/18

5/20

5/22

5/24

5/26

5/28

5/30

6/1

5/14

Gills Creek A (April 28, 2022 - June 1, 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:

Analyte (units)	Sample 1 5/23/2022		Sample 2		Sample 3		Sample 4		
	Time	Results	Time	Results	Time	Results	Time	Results	
Escherichia coli	14.15	1 200							
(MPN/100mL)	14.15	1,200							
Total Suspended	14:15	14:15	<u>ه م</u>						
Solids (mg/L)			14.15	0.0					
Total Phosphorus									
(mg/L)									
Total Nitrogen									
(mg/L)									

Sample 1 was collected during dry weather conditions.

Notes:

Data Gaps

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

Potential Illicit Discharges and Abnormal Events:

Specific conductivity increased several times throughout the monitoring period, which may have been the result of illicit discharges. The pH dropped abnormally low on May 15th while the specific conductivity increased, which may have been the result of an illicit discharge.

Gills Creek B (April 28, 2022 - June 1, 2022)

		CONTINUOUS		SUMMARY STATISTICS			
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Gills Creek	DISCHARGE (CFS):	3.3	462.0	27.9	37.1	43.4
LOCATION:	Devine Street bridge	TEMPERATURE					
ADDRESS:	4716 Devine Street Columbia, SC 29209	(°F):	64	86	78	11	4
COORDINATES:	33.989656, -80.97433		5	272	10	10	10
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen		5 575	515	10	12	12
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.2	6.7	6.4	6.4	0.1
APPROX. DRAINAGE AREA:	59 square miles						
SPATIAL LOCATION:	Middle site	SPECIFIC	0.022	0.087	0.061	0.061	0.005
TOTAL NO. STORMS OVER 0.1 INCH:	4	(mS/cm):	0.022	0.007	0.001	0.001	0.003
MAX. DAILY RAINFALL:	1.7 inches	DISSOLVED	4.0	0.1	6.5	6.4	0.7
TOTAL RAINFALL (FOR PERIOD):	2.8 inches	OXYGEN (mg/L):	4.0	0.1	0.5	0.4	0.7
This discharge data is from the	e USGS 02169570 Gills Creek station.	Discharge & Rai	nfall				
\$1000 \$1200		-					
800							1.5 Kainfa
4/28 4/30 5/2	5/4 5/6 5/8 5/10	5/12 5/14 5/16	5/18 5/20) 5/22 5/	24 5/26 5	5/28 5/30	6/1
		Water Temp					
90				Maria			
		AAA					
60 4/28 4/30 5/2	5/4 5/6 5/8 5/10	5/12 5/14 5/16	5/18 5/2	.0 5/22 5,	/24 5/26	5/28 5/30	6/1
		Turbidity		•			
F 200							
4/28 4/30 5/2	5/4 5/6 5/8 5/10	5/12 5/14 5/16	5/18 5/	20 5/22 5	5/24 5/26	5/28 5/30	6/1
					, -, -		
6.8 SCDHEC in-stream standard: All	pH values not less than 6.0 and not more th	han 8.5 pH)
6.6 H 6.4		Andy '		row	Ma		
6.2							
4/28 4/30 5/2	5/4 5/6 5/8 5/10	5/12 5/14 5/16	5/18 5/2	20 5/22 5	5/24 5/26	5/28 5/30	6/1
		Specific Condu	ctivity				
0.10							
5 0.06 0.04		~~~~~~					
		E/12 E/14 E/16	E/19 E/	20 5/22	E/24 E/26	E/28 E/20	<i></i>
4/20 4/30 5/2	U1/c ۵/c ۵/c ۲۰	5/12 3/14 5/16	5/ 10 5/	20 3/22 5	5/24 5/20	5/20 5/30	
SCDHEC in-stream standard:	Daily average not less than 5 mg/L with a l	low of 4 mg/L Dissolved O	xygen	1		4 mg/L (SCDHEC	Low Standard)
							
4/28 4/30 5/2	5/4 5/6 5/8 5/10	5/12 5/14 5/16	5/18 5	/20 5/22	5/24 5/26	5/28 5/30	6/1

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

Gills Creek B (April 28, 2022 - June 1, 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:

	Sample 1		Sample 2		Sample 3		Sample 4	
Analyte (units)	5/20,	/2022	5/23/	/2022				
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	8:06	259	14:40	492				
Total Suspended Solids (mg/L)	8:05	11.1	14:40	14.3				
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Samples 1 and 2 were collected during dry weather conditons.

Notes:

Data Gaps

Data for all water quality parameters were not collected from May 14th to May 16th due to communication issues with the sonde and modem.

Potential Illicit Discharges and Abnormal Events:

Specific conductivity increased on April 29th, which may have been the result of an illicit discharge.

Gills Creek C (April 28, 2022 - June 1, 2022)

		CONTINUOUS	SUMMARY STATISTICS						
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION		
STREAM NAME:	Gills Creek	STAGE (FT):	2.4	5.8	2.9	3.0	0.6		
LOCATION:	Bluff Road bridge		CE.	00	70	75			
ADDRESS:	3009 Bluff Rd. Columbia, SC 29209	TEMPERATURE ("F):	60	82	76	75	4		
COORDINATES:	33.948043, -80.9889		5	174	٩	10	10		
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen		5	174	3	10	10		
NEIGHBORING LANDUSE:	Residential and commercial	nH.	5.0	6.5	65	64	0.1		
APPROX. DRAINAGE AREA:	64 square miles	pri.	5.5	0.0	0.0	0.4	0.1		
SPATIAL LOCATION:	Most downstream site	SPECIFIC							
TOTAL NO. STORMS OVER 0.1 INCH:	6	CONDUCTIVITY (mS/cm):	0.036	0.108	0.071	0.071	0.011		
MAX. DAILY RAINFALL:	1.62 inches	DISSOLVED	4.4	6.9	5.7	5.7	0.4		
TOTAL RAINFALL (FOR PERIOD):	3.4 inches	OXYGEN (mg/L):	4.4	6.8	5.7	5.7	0.4		
		Stage & Rainf	all						
# 12		-					0.0		
stage							1.5 giu		
4/28 4/30 5/2	0								
		Water Tem	D						
90									
70			\sim						
60 4/28 4/30 5/2	5/4 5/6 5/8 5/1	0 5/12 5/14 5/16	5 5/18 5/	20 5/22 5	5/24 5/26	5/28 5/30	6/1		
		Turbidity							
200									
¥ 100 50									
4/28 4/30 5/2	2 5/4 5/6 5/8 5/	/10 5/12 5/14 5/2	16 5/18 5	5/20 5/22	5/24 5/26	5/28 5/30	6/1		
SCDHEC in-stream standa	ard: All pH values not less than 6.0 and not	more than 8.5 nH							
6.8									
H 6.4 6.2 6.0									
5.8 4/28 4/30 5/2	5/4 5/6 5/8 5/1	0 5/12 5/14 5/1	6 5/18 5,	/20 5/22	5/24 5/26	5/28 5/30	6/1		
Specific Conductivity									
5 0.10 5 0.08									
2 0.06 0.04 0.03									
4/28 4/30 5/2	5/4 5/6 5/8 5/	10 5/12 5/14 5/2	16 5/18 5	5/20 5/22	5/24 5/26	5/28 5/30	6/1		
SCDHEC in-stream standa	ard: Daily average not less than 5 mg/L with	h a low of 4 mg/L Dissolve	ed Oxygen			- 4 mg/L (SCDHEC Lo	ow Standard)		
E 6 4									
4/28 4/30 5/2	5/4 5/6 5/8 5/	10 5/12 5/14 5/1	16 5/18 5	/20 5/22	5/24 5/26	5/28 5/30	6/1		

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

Gills Creek C (April 28, 2022 - June 1, 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:

	Sample 1		Sample 2		Sample 3		Sample 4	
Analyte (units)	5/20,	/2022	5/23/	/2022				
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	7:36	146	13:44	346				
Total Suspended Solids (mg/L)	7:35	7.8	13:44	10.9				
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

All samples were collected during dry weather conditions.

Notes:

Data Gaps

Data for pH was not collected from the beginning of the monitoring period until May 3rd. A gap in the data for all water quality parameters occurred on May 3rd, when the sonde was removed to install a new pH sensor.

Potential Illicit Discharges and Abnormal Events:

Specific conductivity increased on April 29th and May 26th, which may have been the result of illicit discharges.