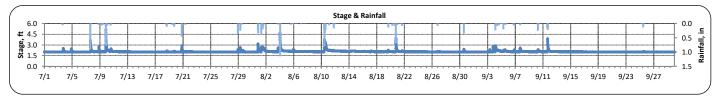


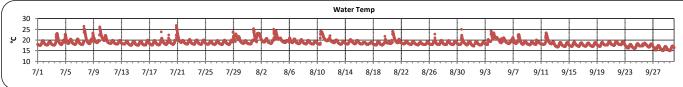
The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (July 1, 2022 - September 30, 2022) Stringers Branch at Signal Mountain

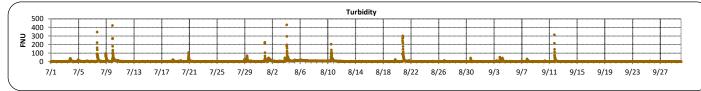


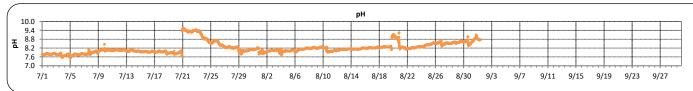
PARAMETER	DESCRIPTION
STREAM NAME:	Stringers Branch
LOCATION:	Signal Mountain Rd
TMDL/IMPAIRMENT:	E. coli , Siltation, Habitat Alteration
APPROX. DRAINAGE AREA:	5.7 square miles
TOTAL NO. STORMS OVER 0.1 INCH:	22
MAX. DAILY RAINFALL:	1.9 inches
TOTAL RAINFALL (FOR PERIOD):	12.8 inches

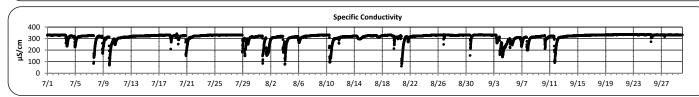
					, , , , ,				
CONTINUOUS	SUMMARY STATISTICS								
WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION				
STAGE (FT):	2.0	5.2	2.0	2.1	0.1				
TEMPERATURE 15 27		15 27 19		19	1				
TURBIDITY (FNU):	1	431	3	6	17				
рН:	7.5	9.6	8.1	8.2	0.4				
SPECIFIC CONDUCTIVITY (µS/cm):	62	343	325	314	34				
DISSOLVED OXYGEN (mg/L):	6.9	10.3	9.5	9.3	0.6				

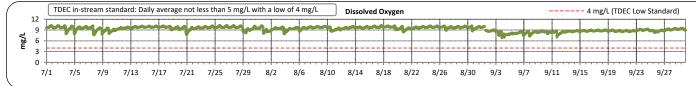














The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (July 1, 2022 - September 30, 2022) Stringers Branch at Signal Mountain



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:

	Dry S	ample							
Analyte (units)	8/11,	/2022							
	Time	Results							
Escherichia coli (MPN/100mL)	11:11	160							
Total Suspended Solids (mg/L)	11:11	3							
Total Phosphorus (mg/L)	11:11	0.100							
Total Nitrogen (mg/L)	11:11	3.35							

Notes:

Data Gaps

pH data were removed beginning 9/1 through the end of the quarter due to a sensor fault.

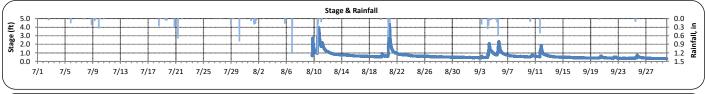


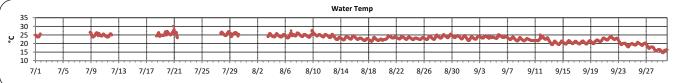
The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (July 1, 2022 - September 30, 2022) Friar Branch at Polymer Drive

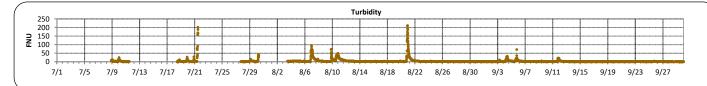


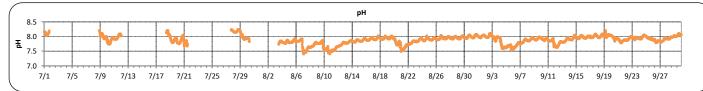
v — v			
PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	MII
STREAM NAME:	Friar Branch	STAGE (FT):	
LOCATION:	Polymer Drive Bridge	TEMPERATURE (°C):	
TMDL/IMPAIRMENT:	E. coli , Siltation, Habitat	TURBIDITY (FNU):	
IMDE/IMPAIRMENT.	Alteration	pH:	
APPROX. DRAINAGE AREA:	20.7 square miles	SPECIFIC	
TOTAL NO. STORMS OVER 0.1 INCH:	23	CONDUCTIVITY (μS/cm):	
MAX. DAILY RAINFALL:	1.8 inches	DISSOLVED	
TOTAL RAINFALL (FOR PERIOD):	13.2 inches	OXYGEN (mg/L):	

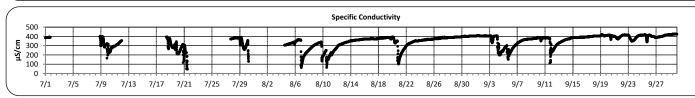
					quality 1 regit				
CONTINUOUS WATER	SUMMARY STATISTICS								
QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION				
STAGE (FT):	0.3	4.4	0.6	0.7	0.4				
TEMPERATURE (°C):	15 30		23	23	2				
TURBIDITY (FNU):	1	211	2	4	12				
pH:	7.4	8.3	7.9	7.9	0.1				
SPECIFIC CONDUCTIVITY (μS/cm):	45	431	374	350	64				
DISSOLVED OXYGEN (mg/L):	4.8	9.4	7.3	7.3	0.7				

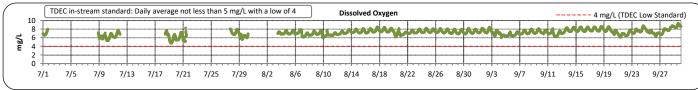














The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (July 1, 2022 - September 30, 2022) Friar Branch at Polymer Drive



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:

	Dry Sa	ample	Storm :	Sample				
Analyte (units)	8/9/	2022	9/6/	2022				
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	10:10	410	11:10	340				
Total Suspended Solids (mg/L)	10:10	6.4	11:10	5.2				
Total Phosphorus (mg/L)	10:10	<0.5	11:10	<0.5				
Total Nitrogen (mg/L)	10:10	0.613*	11:10	0.53*				

^{*}TKN was below the detection limit of 1 mg/L.

Notes:

The sonde well was lowered on 7/18 due to consistently low water levels at this location.

The pressure transducer was installed on 8/9. Stage data are available beginning on this date.

Data Gaps

Data gaps are present between 7/1-7/8 and 7/12-7/18 due to sensors being unsubmerged.

Data gaps are present between 7/21-7/27 and 7/30-8/2 due to sensors being buried under sediment.

Data are unavailable between 8/2-8/4 due to equipment issues, troubleshooting, and calibration.



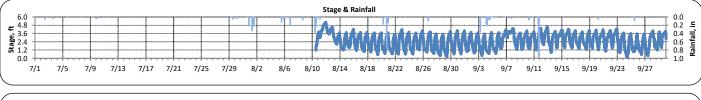


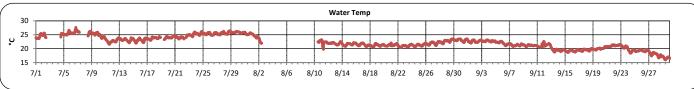
The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (July 1, 2022 - September 30, 2022)

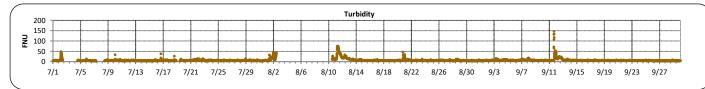
N. Chick Creek at Greenway Farms

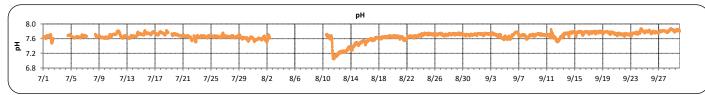


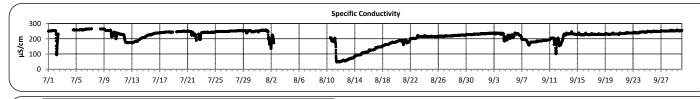
		CONTINUOUS	SUMMARY STATISTICS				
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	N. Chick	STAGE (FT):	0.2	5.2	2.7	2.5	1.1
LOCATION:	Greenway Farms Boat Launch	TEMPERATURE (°C):	16	28	22	22	2
TMDL/IMPAIRMENT:	pH, Siltation, Habitat Alteration	TURBIDITY (FNU):	2	147	6	7	7
IMPERM ARMENT.	pri, Gillation, Habitat Alteration	pH:	7.1	7.9	7.7	7.7	0.1
APPROX. DRAINAGE AREA:	117.4 squre miles	SPECIFIC	48 274		230	216	45
TOTAL NO. STORMS OVER 0.1 INCH:	30	CONDUCTIVITY (μS/cm):		2/4			
MAX. DAILY RAINFALL:	2.1 inches	DISSOLVED					
TOTAL RAINFALL (FOR PERIOD):	12.0 inches	OXYGEN (mg/L):	3.3	8.6	7.1	6.8	1.0
Stage & Rainfall							
# 4.8 # 3.6 # 2.4 # 1.2		Pww.	MUMMA		TWO YOU	MANAMA	0.0 0.2 us 0.4 sign 0.6 vs 1.0 0.8 sign 1.0

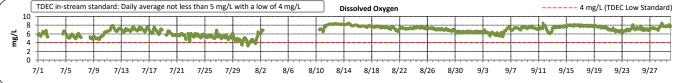
















The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (July 1, 2022 - September 30, 2022) N. Chick Creek at Greenway Farms



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:

	Dry Sa	ample	Storm Sample					
Analyte (units)	8/9/	2022	9/6/	2022				
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	10:50	170	11:20	460				
Total Suspended Solids (mg/L)	10:50	9.6	11:20	6				
Total Phosphorus (mg/L)	10:50	<0.5	11:20	<0.5				
Total Nitrogen (mg/L)	10:50	0.285*	11:20	0.593*				

^{*}TKN was below the detection limit of 1 mg/L.

Notes:

The pressure transducer was installed on 8/10. Stage data are available beginning on this date.

Data Gaps

Data gaps are present between 7/2-7/4, 7/7-7/8, 7/18-7/19, and on 7/22 due to sensors being unsubmerged. Data are unavailable between 8/2-8/10 due to equipment issues, troubleshooting, and calibration.



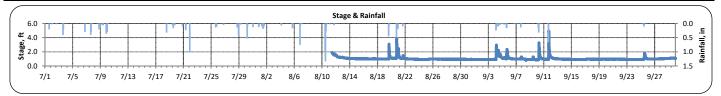


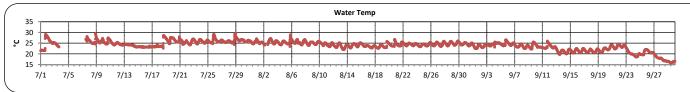
The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (July 1, 2022 - September 30, 2022) Dobbs Branch at Park City Park

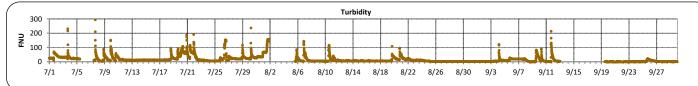


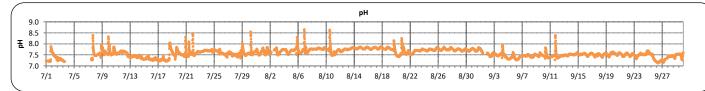
PARAMETER DESCRIPTION STREAM NAME: **Dobbs Branch** LOCATION: Park City Park E. coli, Siltation, Habitat TMDL/IMPAIRMENT: Alteration APPROX. DRAINAGE 6.2 square miles AREA: **TOTAL NO. STORMS** 32 **OVER 0.1 INCH:** MAX. DAILY RAINFALL: 3.0 inches TOTAL RAINFALL (FOR 16.8 inches PERIOD):

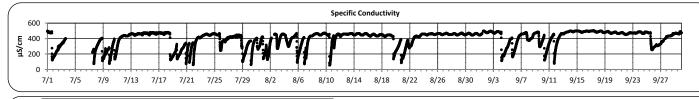
				Water	Quality Frogra				
CONTINUOUS	SUMMARY STATISTICS								
WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION				
STAGE (FT):	0.8	5.0	1.0	1.0	0.2				
TEMPERATURE (°C):	16 1 30		24	24	2				
TURBIDITY (FNU):	1	294	9	9 16					
pH:	7.1	8.7	7.6	7.6	0.2				
SPECIFIC CONDUCTIVITY (μS/cm):	56	505	449	401	100				
DISSOLVED OXYGEN (mg/L):	0.2	7.9	4.5	4.1	1.7				

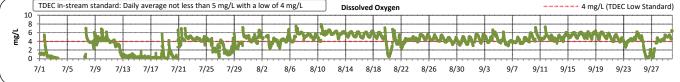














The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (July 1, 2022 - September 30, 2022) Dobbs Branch at Park City Park



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:

	Dry Sample		Storm Sample					
Analyte (units)	8/9/2022		9/6/2022					
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	09:35	1,600	10:40	130				
Total Suspended Solids (mg/L)	09:35	5.2	10:40	7.6				
Total Phosphorus (mg/L)	09:35	<0.5	10:40	<0.5				
Total Nitrogen (mg/L)	09:35	1.02*	10:40	0.742*				

^{*}TKN was below the detection limit of 1 mg/L.

Notes:

The pressure transducer was installed on 8/11. Stage data are available beginning on this date.

Data Gaps

Data gaps are present between 7/3-7/7 due to multiple sensor failures.

A data gap is present on 8/2 due to a signal output adapter error.

Turbidity data were removed between 8/2-8/5 and 9/12-9/15 due to apparent sensor fouling.

A short data gap is present on 9/27 due to the sonde being removed for calibration.

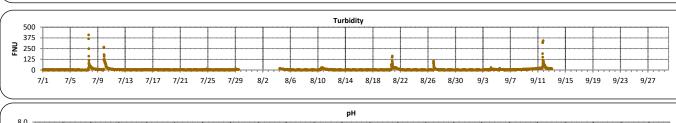


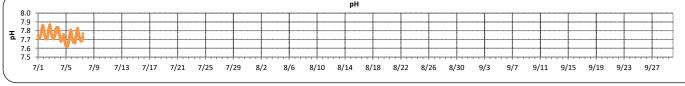


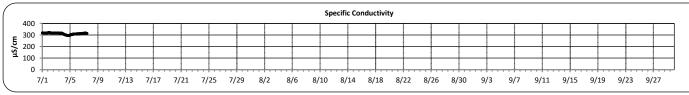
The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (July 1, 2022 - September 30, 2022) Mountain Creek at Elementary School

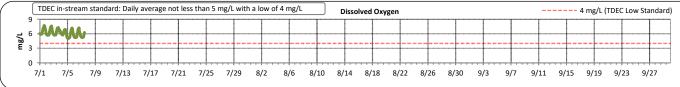


		CONTINUOUS	SUMMARY STATISTICS					
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION	
STREAM NAME:	Mountain Creek	STAGE (FT):	1.6	3.8	1.7	1.7	0.1	
LOCATION:	Red Bank Elementary School	TEMPERATURE (°C):	23	28	25	25	1	
TMDL/IMPAIRMENT:	E. coli , Siltation, Habitat Alteration	TURBIDITY (FNU):	1	411	3	7	16	
	Alteration	pH:	7.6	7.9	7.7	7.7	0.1	
APPROX. DRAINAGE AREA:	5.5 squre miles	SPECIFIC		004	0.15	0.10		
TOTAL NO. STORMS OVER 0.1 INCH:	22	CONDUCTIVITY (μS/cm):	296	321	315	312	7	
MAX. DAILY RAINFALL:	1.9 inches	DISSOLVED						
TOTAL RAINFALL (FOR PERIOD):	12.8 inches	OXYGEN (mg/L):	5.1	7.7	6.0	6.2	9.7	
		Stage & Rain	fall					
4.0 3.0 8 2.0 1.0 0.0 7/1 7/5 7/9 7/	13 7/17 7/21 7/25 7/29 8/	2 8/6 8/10 8/14 8/	/18 8/22 8/26	8/30 9/3	9/7 9/11 9/15	9/19 9/23	0.0 0.3 0.6 0.9 1.2 9/27	
		Water Tem	ıp					
32 28 24 20 7/1 7/5 7/9 7/	13 7/17 7/21 7/25 7/29 8		8/18 8/22 8/26	5 8/30 9/3	9/7 9/11 9/1	.5 9/19 9/23	9/27	
		Turbidity						











The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (July 1, 2022 - September 30, 2022) Mountain Creek at Elementary School



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:

	Dry Sample		Storm Sample					
Analyte (units)	8/9/2022		9/6/2022					
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	9:35	370	10:15	120				
Total Suspended Solids (mg/L)	9:35	4.0	10:15	2.4				
Total Phosphorus (mg/L)	9:35	<0.5	10:15	<0.5				
Total Nitrogen (mg/L)	9:35	0.333*	10:15	0.615*				

^{*}TKN was below the detection limit of 1 mg/L.

Notes:

Data Gaps

Data beginning 7/7 through the end of the quarter are unavailable due to the specific conductivity/temperature and dissolved oxygen sensor being shifted to the Dobbs Branch at Park City Park location to replace the faulty sensors at that location. pH data were also removed due to the measurements reliance on temperature correction.

Turbidity data were removed between 9/13-9/17 due to sensor fouling.

Sonde data were unavailable beginning 9/17 through the end of the quarter due to battery failure.

