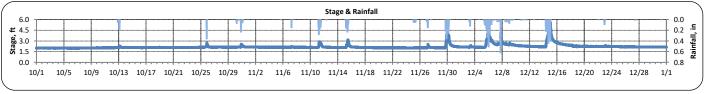


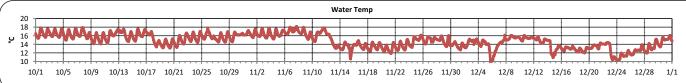
The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (October 1, 2022 - December 31, 2022) Stringers Branch at Signal Mountain

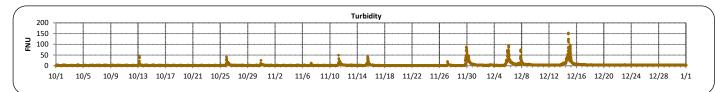


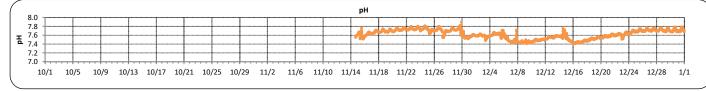
PARAMETER	DESCRIPTION
STREAM NAME:	Stringers Branch
LOCATION:	Signal Mountain Rd
TMDL/IMPAIRMENT:	E. coli , Siltation, Habitat Alteration
APPROX. DRAINAGE AREA:	5.7 square miles
TOTAL NO. STORMS OVER 0.1 INCH:	18
MAX. DAILY RAINFALL:	2.8 inches
TOTAL RAINFALL (FOR PERIOD):	15.2 inches

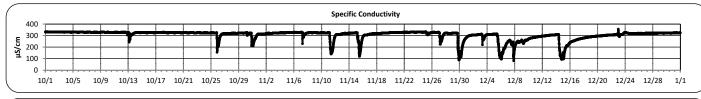
					quality i rogic			
CONTINUOUS	SUMMARY STATISTICS							
WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION			
STAGE (FT):	2.0	5.6	2.1	2.2	0.3			
TEMPERATURE (°C):	10	18	15	15	2			
TURBIDITY (FNU):	1	153	2	4	8			
рН:	7.4	7.9	7.6	7.6	0.1			
SPECIFIC CONDUCTIVITY (µS/cm):	82	357	322	306	40			
DISSOLVED OXYGEN (mg/L):	7.7	11.0	9.3	9.3	0.5			

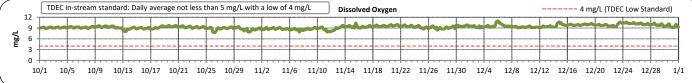














The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (October 1, 2022 - December 31, 2022) Stringers Branch at Signal Mountain



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 Sample		Dry Sample Storm Sa		Sample	Storm Sample		Storm Sample		Storm Sample		
Analyte (units)	10/24	/2022	11/3,	/2022	11/11	/2022	11/11	/2022	11/11	/2022	11/11	/2022
	Time	Results	Time	Results	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	10:48	240	11:30	90	13:05	10,000	13:15	9,400	13:25	11,000	13:35	10,000
Total Suspended Solids (mg/L)	10:48	2	11:30	2	13:05	7	13:15	7	13:25	7	13:35	6
Total Phosphorus (mg/L)	10:48	0.070	11:30	0.090	13:05	0.110	13:15	0.240	13:25	0.070	13:35	0.060
Total Nitrogen (mg/L)	10:48	3.54	11:30	2.86	13:05	2.03	13:15	2.82	13:25	2.42	13:35	2.22

Notes:

Data Gaps

New pH sensor installed on 11/14/2022 to replace the sensor that failed on 9/1/2022.

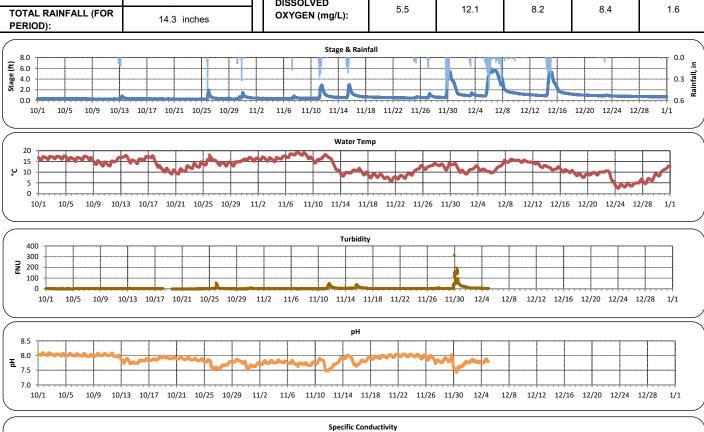


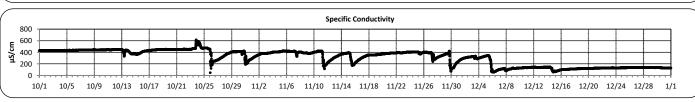


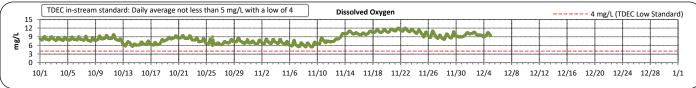
The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (October 1, 2022 - December 31, 2022) Friar Branch at Polymer Drive



	 					Water	Quality Progra	
		CONTINUOUS WATER		SUMMARY STATISTICS				
PARAMETER	DESCRIPTION	QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION	
STREAM NAME:	Friar Branch	STAGE (FT):	0.2	6.0	0.6	0.8	1.0	
LOCATION:	Polymer Drive Bridge	TEMPERATURE (°C):	3	19	13	13	4	
TMDL/IMPAIRMENT:	E. coli , Siltation, Habitat	TURBIDITY (FNU):	1	317	2	4	13	
	Alteration	pH:	7.4	8.1	7.9	7.9	0.1	
APPROX. DRAINAGE AREA:	20.7 square miles	SPECIFIC		0.47	0.50		400	
TOTAL NO. STORMS OVER 0.1 INCH:	17	CONDUCTIVITY (μS/cm):	49	617	358	308	130	
MAX. DAILY RAINFALL:	1.9 inches	DISSOLVED						
TOTAL RAINFALL (FOR PERIOD):	14.3 inches	OXYGEN (mg/L):	5.5	12.1	8.2	8.4	1.6	









The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (October 1, 2022 - December 31, 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 Sample							
Analyte (units)	11/29	/2022						
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	10:50	2,200						
Total Suspended Solids (mg/L)	10:50	2.4						
Total Phosphorus (mg/L)	10:50	<0.500						
Total Nitrogen (mg/L)	10:50	0.659*						

^{*}Value represents Nitrate/Nitrite concentrations only. TKN was below the detection limit of 1 mg/L.

Notes:

Data Gaps

Turbidity data were removed between 10/18-10/19 due to sensor fouling.

Turbidity, pH, and dissolved oxygen data were removed between 12/05-12/31 due to the sensors being covered by sediment.



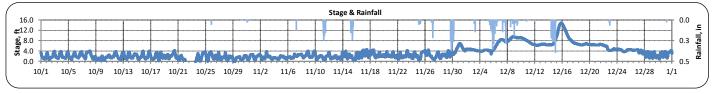


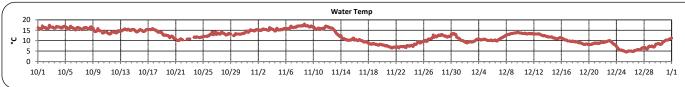
The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (October 1, 2022 - December 31, 2022)

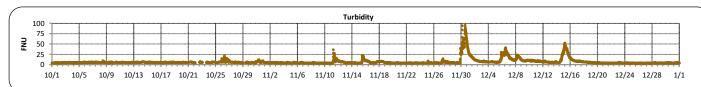
N. Chick Creek at Greenway Farms

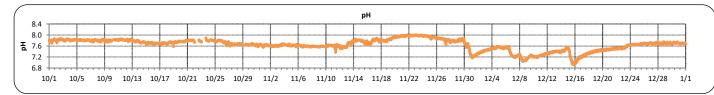


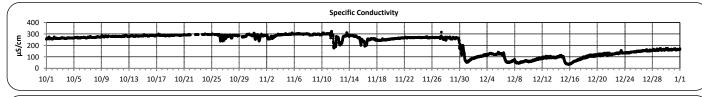
		CONTINUOUS		SUN	MARY STATIS	тісѕ	
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	N. Chick Creek	STAGE (FT):	0.0	14.8	2.6	3.4	2.5
LOCATION:	Greenway Farms Boat Launch	TEMPERATURE (°C):	5	18	12	12	3
TMDL/IMPAIRMENT:	pH, Siltation, Habitat Alteration	TURBIDITY (FNU):	3	96	5	7	7
TMDDIMI AIRMENT.	pi i, Silialion, Habilat Alteration	рН:	6.9	8.0	7.7	7.7	0.2
APPROX. DRAINAGE AREA:	117.4 squre miles	SPECIFIC		005	005	0.17	24
TOTAL NO. STORMS OVER 0.1 INCH:	20	CONDUCTIVITY (μS/cm):	36	325	265	217	84
MAX. DAILY RAINFALL:	2.6 inches	DISSOLVED					
TOTAL RAINFALL (FOR PERIOD):	15.3 inches	OXYGEN (mg/L):	2.4	13.1	8.9	8.6	2.7















The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (October 1, 2022 - December 31, 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 Sample							
Analyte (units)	11/29	/2022						
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	11:00	150						
Total Suspended Solids (mg/L)	11:00	2.8						
Total Phosphorus (mg/L)	11:00	<0.500						
Total Nitrogen (mg/L)	11:00	0.45*						

^{*}Value represents Nitrate/Nitrite concentrations only. TKN was below the detection limit of 1 mg/L.

Notes:

Data Gaps

Depth data are unavailable between 10/22-10/23 due to equipment reporting issues.

Data gaps are present on 10/10, 10/21-10/25, and 10/28-10/29 due to all sensors being unsubmerged.

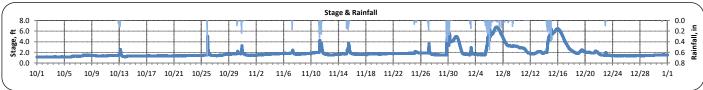


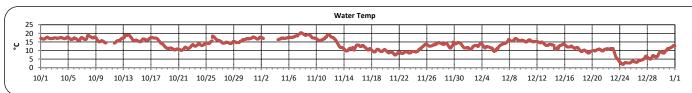


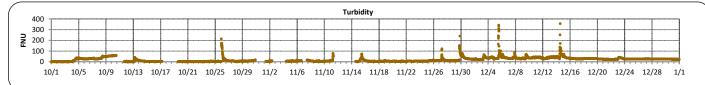
The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (October 1, 2022 - December 31, 2022) Dobbs Branch at Park City Park

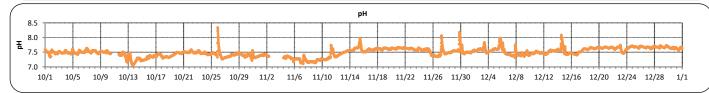


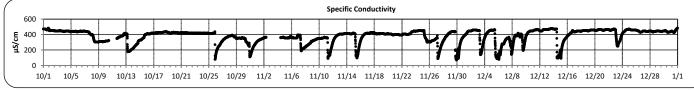
						Water	Quality Progra	
		CONTINUOUS	SUMMARY STATISTICS					
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION	
STREAM NAME:	Dobbs Branch	STAGE (FT):	1.1	6.8	1.6	2.0	1.1	
LOCATION:	Park City Park	TEMPERATURE (°C):	2	20	14	13	4	
TMDL/IMPAIRMENT:	E. coli , Siltation, Habitat	TURBIDITY (FNU):	1	357	17	20	21	
	Alteration	pH:	7.1	8.4	7.5	7.5	0.1	
APPROX. DRAINAGE AREA:	6.2 square miles	SPECIFIC						
TOTAL NO. STORMS OVER 0.1 INCH:	17	CONDUCTIVITY (μS/cm):	72	487	414	383	84	
MAX. DAILY RAINFALL:	2.3 inches	DISSOLVED						
TOTAL RAINFALL (FOR PERIOD):	15.2 inches	OXYGEN (mg/L):	0.3	11.7	6.1	6.0	2.6	

















The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (October 1, 2022 - December 31, 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:

Analyte (units)	Dry Sample							
	11/29/2022							
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	09:40	370						
Total Suspended Solids (mg/L)	09:40	4.4						
Total Phosphorus (mg/L)	09:40	<0.500						
Total Nitrogen (mg/L)	09:40	0.61*						

^{*}Value represents Nitrate/Nitrite concentrations only. TKN was below the detection limit of 1 mg/L.

Notes:

Data Gaps

Sonde data are unavailable between 10/10-10/11 and 11/2-11/4 due to sonde reporting issues.

Turbidity data were removed between 10/18-10/19, 10/31-11/01, 11/6-11/7, and 11/11-11/14 due to sensor fouling.

