

(FOR PERIOD):

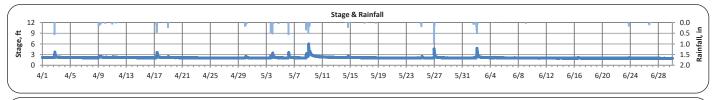
The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (April 1, 2024 - June 30, 2024) Stringers Branch at Signal Mountain

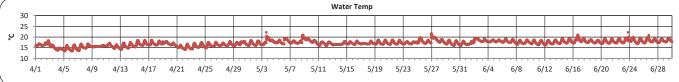


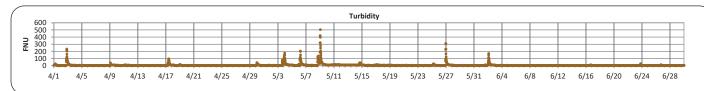
PARAMETER DESCRIPTION STREAM NAME: Stringers Branch LOCATION: Signal Mountain Rd E. coli, Siltation, Habitat TMDL/IMPAIRMENT: Alteration APPROX. DRAINAGE 5.7 square miles AREA: TOTAL NO. STORMS 20 **OVER 0.1 INCH:** MAX. DAILY RAINFALL: 1.6 inches TOTAL RAINFALL

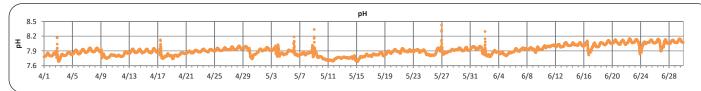
12.9 inches

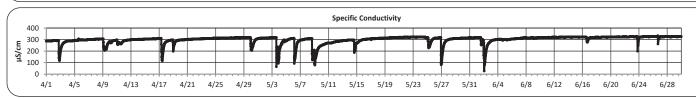
				water	Quality Progra			
CONTINUOUS	SUMMARY STATISTICS							
WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION			
STAGE (FT):	1.9	6.0	2.1	2.1	0.2			
TEMPERATURE (°C):	13	22	17	17	1			
TURBIDITY (FNU):	1	505	3	7	18			
pH:	7.7	8.4	7.9	7.9	0.1			
SPECIFIC CONDUCTIVITY (μS/cm):	29	335	310	301	33			
DISSOLVED OXYGEN (mg/L):	8.0	11.0	9.5	9.6	0.4			

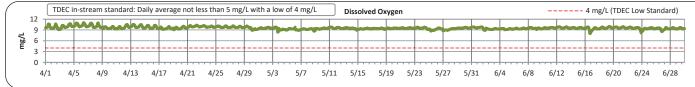
















The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (April 1, 2024 - June 30, 2024) Stringers Branch at Signal Mountain



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:

	Sam	ple 1	Sam	ple 2	Sam	ple 3	Samp	ole 4
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:

No grab samples were collected for the Stringers Branch at Signal Mountain location this monitoring period. Parameters reporting in EST (-5:00), beginning April 1st.

Data Gaps

There were no data gaps at the Stringers Branch at Signal Mountain location during this monitoring





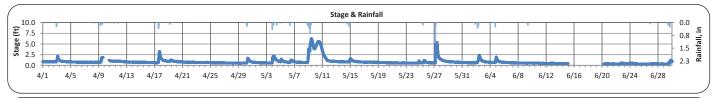
PERIOD):

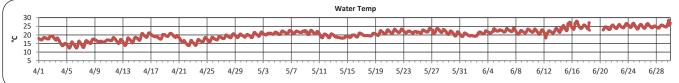
The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (April 1, 2024 - June 30, 2024) Friar Branch at Polymer Drive

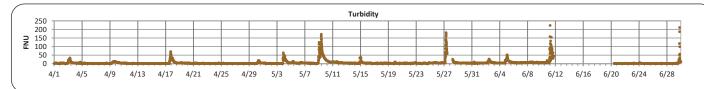


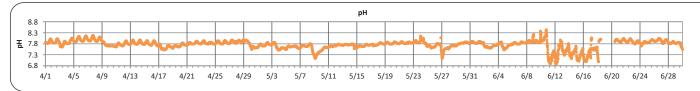
PARAMETER	DESCRIPTION
STREAM NAME:	Friar Branch
LOCATION:	Polymer Drive Bridge
TMDL/IMPAIRMENT:	E. coli , Siltation, Habitat Alteration
APPROX. DRAINAGE AREA:	20.7 square miles
TOTAL NO. STORMS OVER 0.1 INCH:	22
MAX. DAILY RAINFALL:	1.7 inches
TOTAL RAINFALL (FOR	12.1 inches

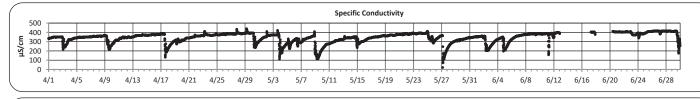
				water	Quality Progra			
CONTINUOUS WATER	SUMMARY STATISTICS							
QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION			
STAGE (FT):	0.3	6.3	0.7	0.9	0.7			
TEMPERATURE (°C):	12	29	21	21	3			
TURBIDITY (FNU):	1	224	3	6	13			
pH:	6.9	8.5	7.8	7.8	0.2			
SPECIFIC CONDUCTIVITY (μS/cm):	21	441	354	344	53			
DISSOLVED OXYGEN (mg/L):	4.5	11.2	7.6	7.7	0.9			

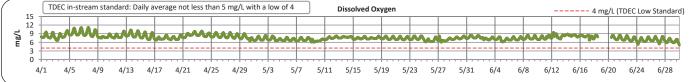
















The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (April 1, 2024 - June 30, 2024) Friar Branch at Polymer Drive



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:

	Sample 1		Sample 2		Sample 3		Sample 4	
Analyte (units)	5/14,	/2024						
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	11:05	290						
Total Suspended Solids (mg/L)	11:05	2						
Total Phosphorus (mg/L)	11:05	<0.5						
Total Nitrogen (mg/L)	11:05	<0.5						

Notes:

One dry grab sample was collected at the Friar Branch at Ploymer Drive location during this monitoring period. Parameters reporting in EST (-5:00), beginning April 1st.

Data Gaps

Data gap present for turbidity readings between 6/11 - 6/20 due to equipment issues.

Specific conductivity data gaps placed 6/12-6/17 and 6/17-6/20 due to apparent fouling and partial unsubmergence throughout the monitoring period.

Water quality data were removed between 6/18-6/20 due to apparent calibration period.

Data gap present for stage readings between 6/15 - 6/20 due to equipment issues.



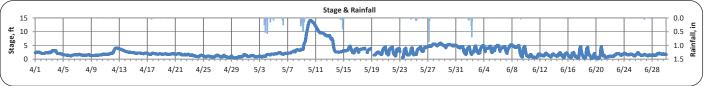


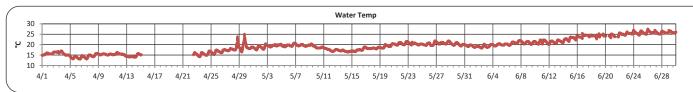
The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (April 1, 2024 - June 30, 2024)

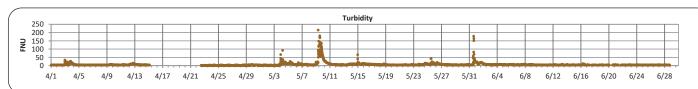
N. Chick Creek at Greenway Farms

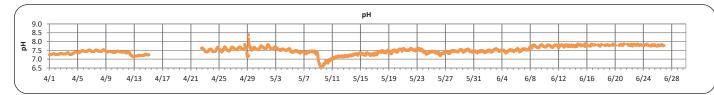


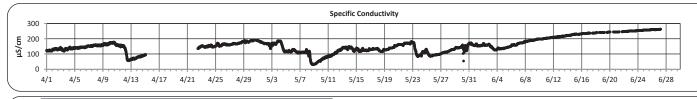
		CONTINUOUS	SUMMARY STATISTICS				
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	N. Chick	STAGE (FT):	0.2	14.1	2.0	2.7	2.1
LOCATION:	Greenway Farms Boat Launch	TEMPERATURE (°C):	13	28	20	19	3
TMDL/IMPAIRMENT:	pH, Siltation, Habitat Alteration	TURBIDITY (FNU):	1	215	5	7	10
INDE/IMPAIRMENT.		pH:	6.6	8.4	7.5	7.5	0.2
APPROX. DRAINAGE AREA:	117.4 square miles	SPECIFIC			450	4	40
TOTAL NO. STORMS OVER 0.1 INCH:	19	CONDUCTIVITY (μS/cm):	31	263	153	157	49
MAX. DAILY RAINFALL:	1.8 inches	DISSOLVED			7.7		
TOTAL RAINFALL (FOR PERIOD):	12.6 inches	OXYGEN (mg/L):	4.7	9.8		7.7	1.0

















The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (April 1, 2024 - June 30, 2024) 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:

	Sample 1		Sample 2		Sample 3		Sample 4	
Analyte (units)	5/14/	/2024						
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	11:45	320						
Total Suspended Solids (mg/L)	11:45	7.2						
Total Phosphorus (mg/L)	11:45	<0.5						
Total Nitrogen (mg/L)	11:45	<0.5						

Notes:

One dry grab sample was collected at the N. Chick Creek at Greenway Farms location during this monitoring period. Parameters reporting in EST (-5:00), beginning April 1st.

Data Gaps

Data gap present for all water quality parameters between 4/15-4/22 due to apparent calibration period. Data gap present for pH and specific conductivity from 6/27-6/30 due to partial unsubmergence and fouling. Data gap present for turbidity from 6/28-6/30 due to partial unsubmergence.



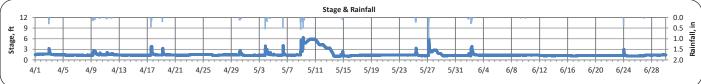


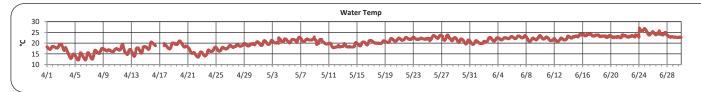
The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (April 1, 2024 - June 30, 2024)

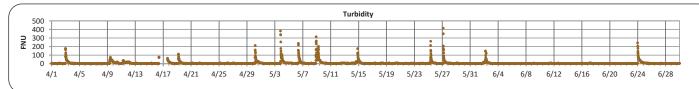
Dobbs Branch at Park City Park

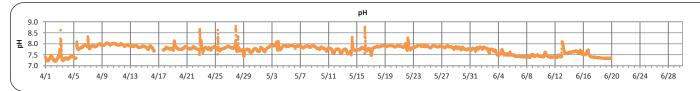


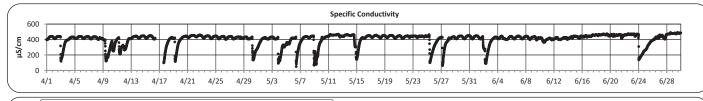
		CONTINUOUS WATER QUALITY	SUMMARY STATISTICS				
PARAMETER	PARAMETER DESCRIPTION		MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Dobbs Branch	STAGE (FT):	1.0	6.3	1.4	1.6	0.8
LOCATION:	Park City Park	TEMPERATURE (°C):	12	27	21	20	3
TAID! //AIDAIDMENT.	E. coli , Siltation, Habitat	TURBIDITY (FNU):	2	416	5	9	20
TMDL/IMPAIRMENT:	Alteration	pH:	7.2	8.8	7.8	7.7	0.2
APPROX. DRAINAGE AREA:	6.2 square miles	SPECIFIC					
TOTAL NO. STORMS OVER 0.1 INCH:	18	CONDUCTIVITY (μS/cm):	50	502	429	406	74
MAX. DAILY RAINFALL:	1.4 inches	DISSOLVED					
TOTAL RAINFALL (FOR PERIOD):	12.2 inches	OXYGEN (mg/L):	0.3	10.2	5.3	4.9	2.2

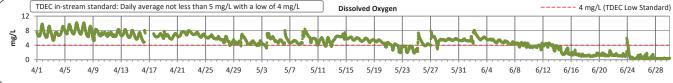
















The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (April 1, 2024 - June 30, 2024) Dobbs Branch at Park City Park



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:

	Sample 1		Sample 2		Sample 3		Sample 4		
Analyte (units)	5/14/2024								
	Time	Results	Time	Results	Time	Results	Time	Results	
Escherichia coli (MPN/100mL)	9:45	740							
Total Suspended Solids (mg/L)	9:45	10.2							
Total Phosphorus (mg/L)	9:45	<0.5							
Total Nitrogen (mg/L)	9:45	<0.5							

Notes:

One dry grab sample was collected at the Dobbs Branch at Park City Park location during this monitoring period. Parameters reporting in EST (-5:00), beginning April 1st.

Data Gaps

Data gap present for all water quality parameters between 4/16-4/17 due to apparent calibration period. Data gap present for pH between 6/19-6/30 due to partial unsubmergence and fouling. Periodic data gaps present throughout monitoring period for specific conductivity and dissolved oxygen due to sensor fouling.



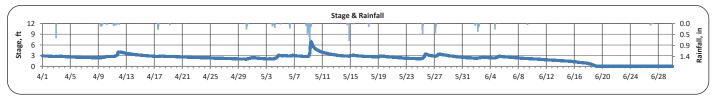


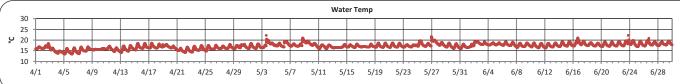
The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (April 1, 2024 - June 30, 2024) North Chick at Ivy Academy

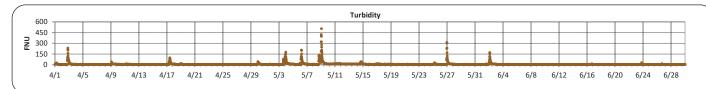


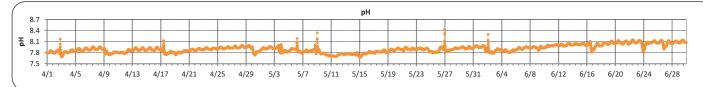
PARAMETER	DESCRIPTION
STREAM NAME:	North Chick Creek
LOCATION:	Ivy Academy
TMDL/IMPAIRMENT:	Siltation, Habitat Alteration
APPROX. DRAINAGE AREA:	17 square miles
TOTAL NO. STORMS OVER 0.1 INCH:	17
MAX. DAILY RAINFALL:	2.2 inches
TOTAL RAINFALL (FOR PERIOD):	12.4 inches

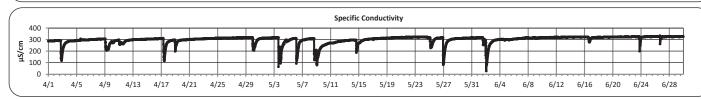
					addity i rogic			
CONTINUOUS	SUMMARY STATISTICS							
WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION			
STAGE (FT):	0.0	7.1	2.5	2.3	1.1			
TEMPERATURE (°C):	13	22	17	17	1			
TURBIDITY (FNU):	1	505	3	7	18			
рН:	7.7	8.4	7.9	7.9	0.1			
SPECIFIC CONDUCTIVITY (µS/cm):	29	335	310	301	33			
DISSOLVED OXYGEN (mg/L):	8.0	11.0	9.5	9.6	0.4			

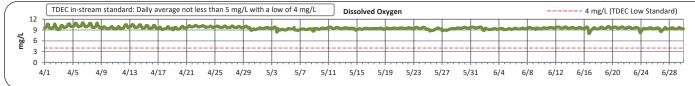
















The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (April 1, 2024 - June 30, 2024) North Chick at Ivy Academy



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)								
	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:

No grab samples were collected at the North Chick at Ivy Academy location during this monitoring period. All paramaters reporting in EST (-5:00), beginning April 1st.

Data Gaps

There were no data gaps at the North Chick at Ivy Academy location during this monitoring period.

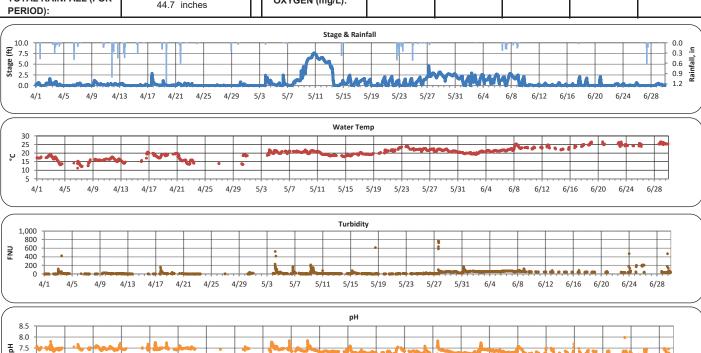


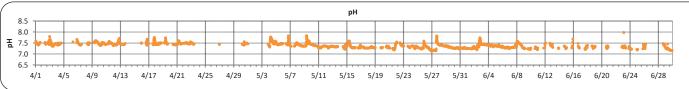


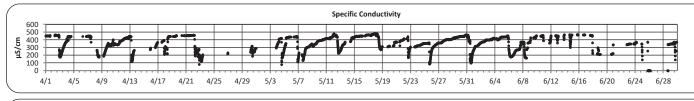
The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (April 1, 2024 - June 30, 2024) Citico Creek

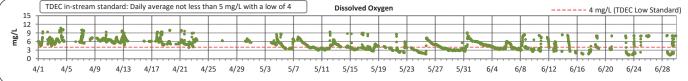


						Water	Quality Progra
		CONTINUOUS WATER		SUMMARY STATISTICS			
PARAMETER	DESCRIPTION	QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Citico Creek	STAGE (FT):	0.0	7.6	0.2	0.8	1.4
LOCATION:	Waterwalk Pl Rd	TEMPERATURE (°C):	11	27	21	20	3
TMDL/IMPAIRMENT:	pH, E. coli , Siltation, Habitat	TURBIDITY (FNU):	3	773	13	31	46
	Alteration	pH:	7.1	8.3	7.4	7.4	0.1
APPROX. DRAINAGE AREA:	6 square miles	SPECIFIC					
TOTAL NO. STORMS OVER 0.1 INCH:	18	CONDUCTIVITY (μS/cm):	0.1	478	378	357	96
MAX. DAILY RAINFALL:	2.2 inches	DISSOLVED					
TOTAL RAINFALL (FOR PERIOD):	44.7 inches	OXYGEN (mg/L):	1.3	10.8	4.7	4.9	1.8
Stage & Rainfall 2.0.0 € 7.5 10.0 0.0 0.3 € 10.0							













The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (April 1, 2024 - June 30, 2024) Citico Creek



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)	5/14/2024							
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	12:05	2,200						
Total Suspended Solids (mg/L)	12:05	7						
Total Phosphorus (mg/L)	12:05	<0.500						
Total Nitrogen (mg/L)	12:05	*1.16						

^{*}Value represents Nitrate/Nitrite concentrations only. TKN was below the detection limit of 0.5 mg/L.

Notes:

No grab samples were obtained at the Citico Creek location during this monitoring period. All paramaters reporting in EST (-5:00), beginning April 1st.

Data Gaps

Periodic data gaps are present throughout monitoring period for all water quality parameters, excluding stage and rainfall, due to downstream influences from the Tennessee River.





PERIOD):

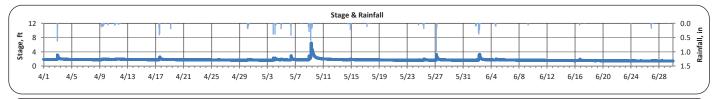
The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (April 1, 2024 - June 30, 2024) Mountain Creek at Elementary School

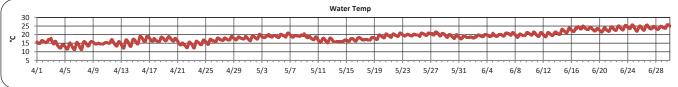
Hamilton County Water Quality Program

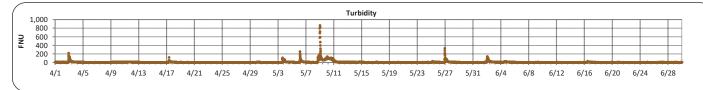
PARAMETER DESCRIPTION STREAM NAME: Mountain Creek LOCATION: Red Bank Elementary School E. coli, Siltation, Habitat TMDL/IMPAIRMENT: Alteration APPROX. DRAINAGE 5.5 square miles AREA: TOTAL NO. STORMS 21 **OVER 0.1 INCH:** MAX. DAILY RAINFALL: 1.7 inches **TOTAL RAINFALL (FOR**

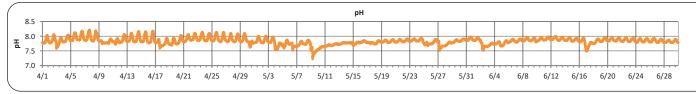
13.2 inches

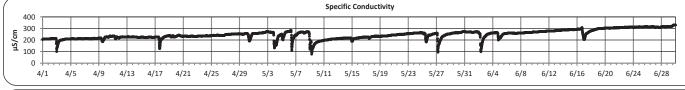
					Quality Frogra			
CONTINUOUS	SUMMARY STATISTICS							
WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION			
STAGE (FT):	1.4	6.5	1.7	1.8	0.3			
TEMPERATURE (°C):	11	26	19	19	3			
TURBIDITY (FNU):	2	866	4	9	29			
pH:	7.2	8.2	7.8	7.8	0.1			
SPECIFIC CONDUCTIVITY (μS/cm):	78	332	247	249	37			
DISSOLVED OXYGEN (mg/L):	4.8	11.0	8.2	8.1	1.0			

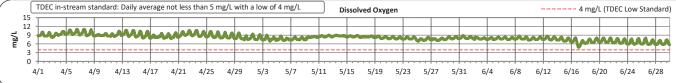
















The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (April 1, 2024 - June 30, 2024) Mountain Creek at Elementary School



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:

	Sample 1		Sample 2		Sample 3		Sample 4	
Analyte (units)	5/14/2024							
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	10:45	460						
Total Suspended Solids (mg/L)	10:45	2.8						
Total Phosphorus (mg/L)	10:45	<0.5						
Total Nitrogen (mg/L)	10:45	*0.38						

^{*}Value represents Nitrate/Nitrite concentrations only. TKN was below the detection limit of 0.5 mg/L.

Notes:

Two dry grab samples were collected at the Mountain Creek at Elementary School location during this monitoring period.

All paramaters reporting in EST (-5:00), beginning April 1st.

Data Gaps

There were no data gaps at the Mountain Creek at Elementary School location during this monitoring period.

