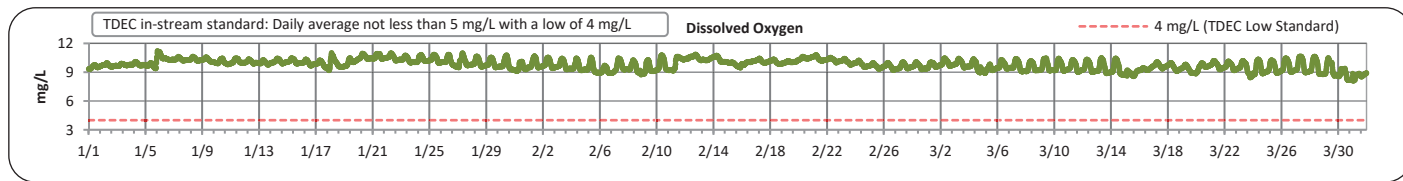
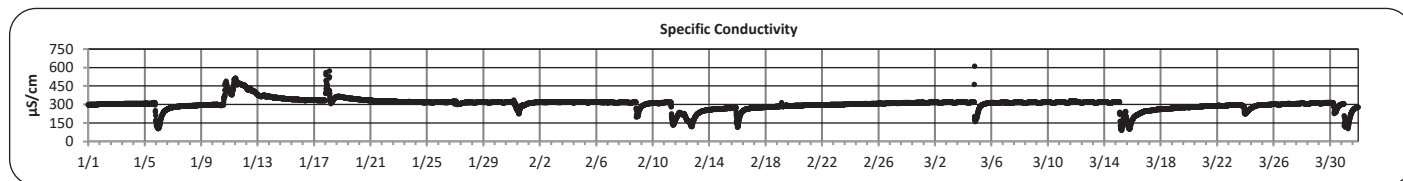
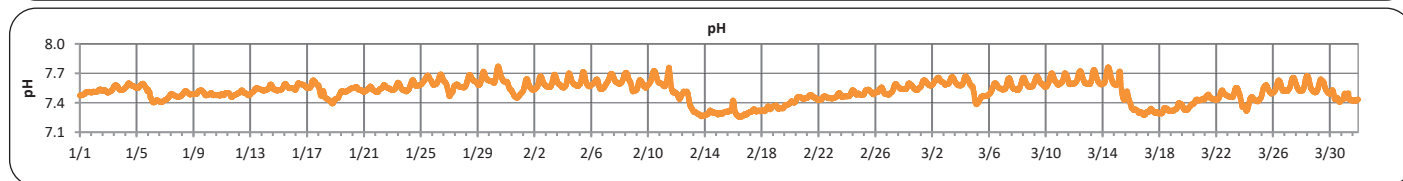
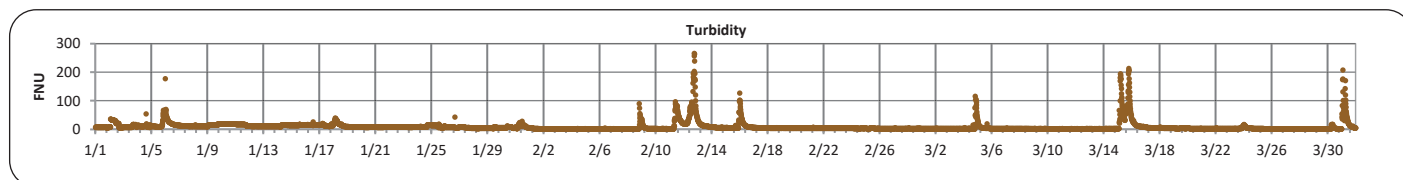
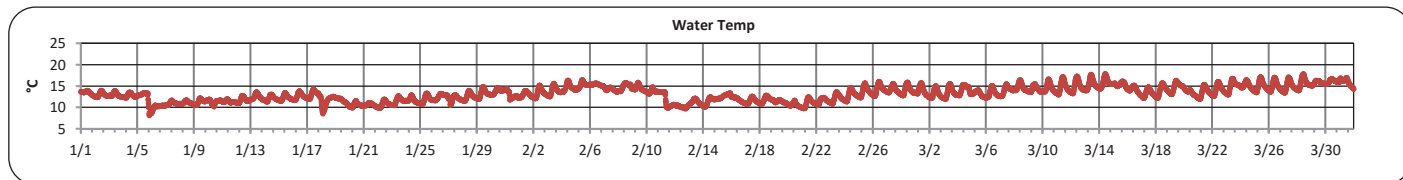
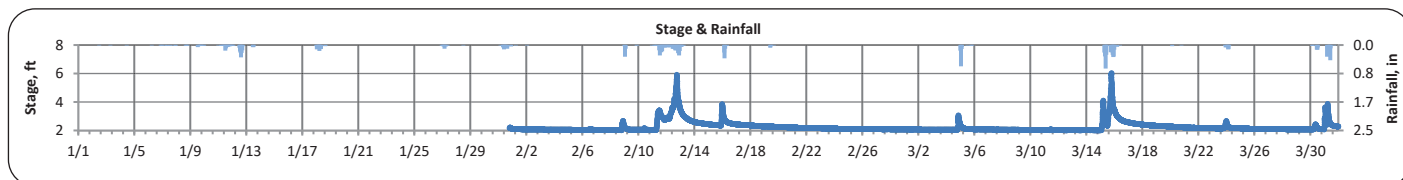




The City of Chattanooga and Hamilton County Joint Water Quality Monitoring
Quarterly Report (January 1, 2025 - March 31, 2025)
Stringers Branch at Signal Mountain



PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Stringers Branch	STAGE (FT):	2.0	6.1	2.1	2.3	0.4
LOCATION:	Signal Mountain Rd	TEMPERATURE (°C):	8	18	13	13	2
TMDL/IMPAIRMENT:	<i>E. coli</i> , Siltation, Habitat Alteration	TURBIDITY (FNU):	1	267	4	9	17
		pH:	7.3	7.8	7.5	7.5	0.1
APPROX. DRAINAGE AREA:	5.7 square miles	SPECIFIC CONDUCTIVITY (µS/cm):	92	611	312	304	46
TOTAL NO. STORMS OVER 0.1 INCH:	17						
MAX. DAILY RAINFALL:	1.66 inches	DISSOLVED OXYGEN (mg/L):	8.1	11.2	9.9	9.8	0.5
TOTAL RAINFALL (FOR PERIOD):	4.6 inches						





**The City of Chattanooga and Hamilton County Joint Water Quality Monitoring
Quarterly Report (January 1, 2025 - March 31, 2025)
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:

No grab samples were collected for the Stringers Branch at Signal Mountain location this monitoring period.

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)								
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Notes:

Parameters reporting in EST (-5:00).

Data Gaps

Data gaps present in stage data from 1/1-1/31 due to equipment maintenance during this monitoring period.

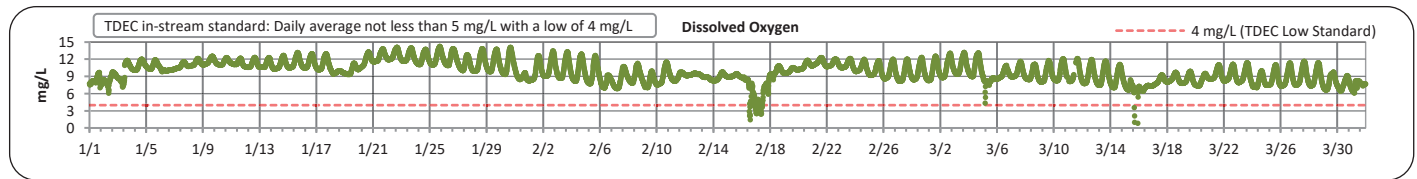
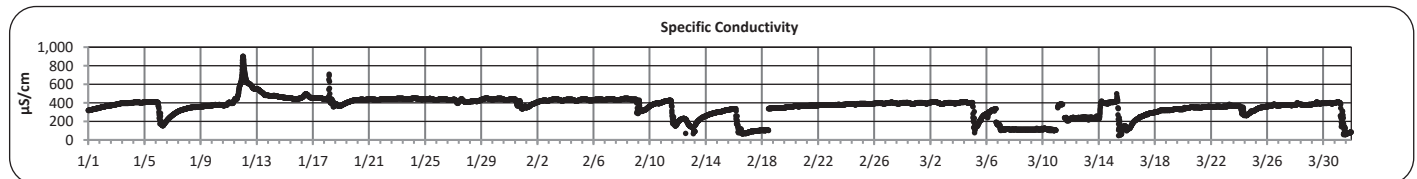
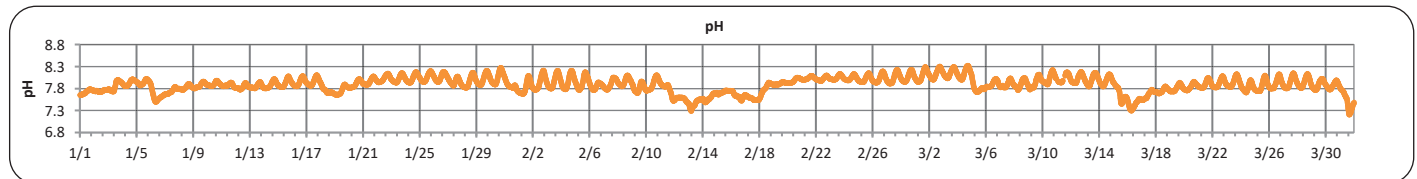
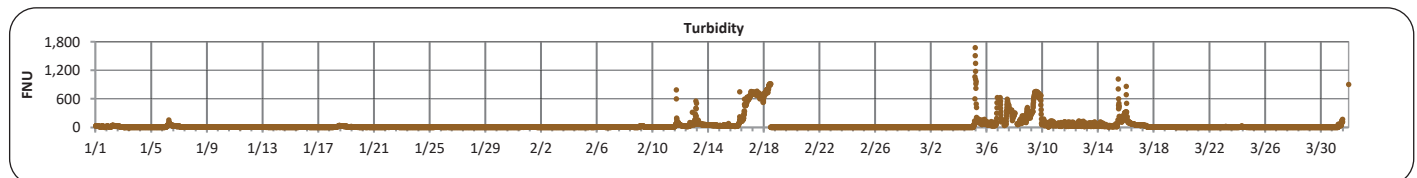
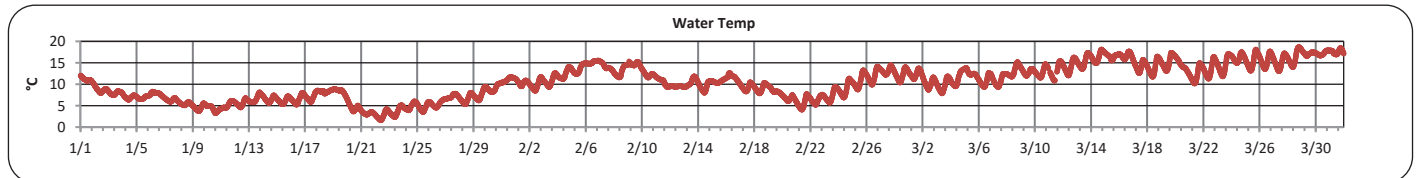
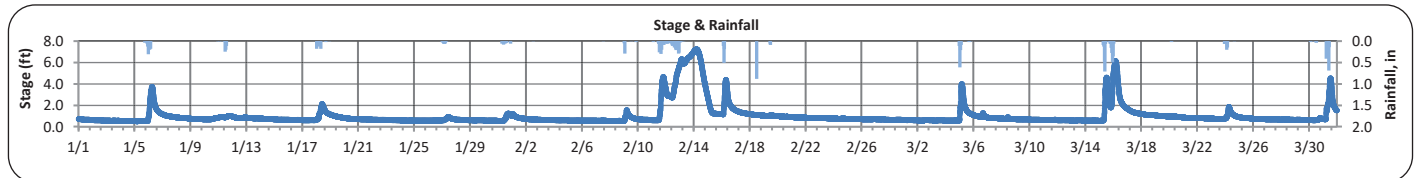


The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (January 1, 2025 - March 31, 2025)

Friar Branch at Polymer Drive



PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Friar Branch	STAGE (FT):	0.5	7.2	0.7	1.0	1.0
LOCATION:	Polymer Drive Bridge	TEMPERATURE (°C):	2	19	10	10	4
TMDL/IMPAIRMENT:	<i>E. coli</i> , Siltation, Habitat Alteration	TURBIDITY (FNU):	1	1677	8	45	130
		pH:	7.2	8.3	7.9	7.9	0.2
APPROX. DRAINAGE AREA:	20.7 square miles	SPECIFIC CONDUCTIVITY (µS/cm):	48	906	384	356	107
TOTAL NO. STORMS OVER 0.1 INCH:	15						
MAX. DAILY RAINFALL:	1.5 inches	DISSOLVED OXYGEN (mg/L):	0.9	14.3	9.9	9.9	1.8
TOTAL RAINFALL (FOR PERIOD):	4.2 inches						





**The City of Chattanooga and Hamilton County Joint Water Quality Monitoring
Quarterly Report (January 1, 2025 - March 31, 2025)
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:

One dry grab sample was collected at the Friar Branch at Ploymer Drive location during this monitoring period.

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	2/4/2025							
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	11:10	<20						
Total Suspended Solids (mg/L)	11:10	1.56						
Total Phosphorus (mg/L)	11:10	<0.5						
Total Nitrogen (mg/L)	11:10	0.684						

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

Notes:

Parameters reporting in EST (-5:00).

Data Gaps

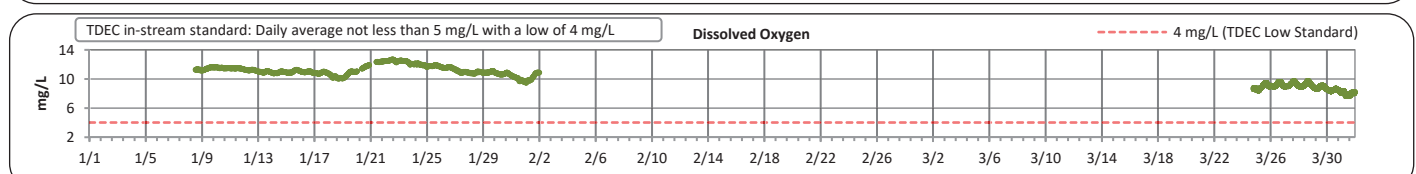
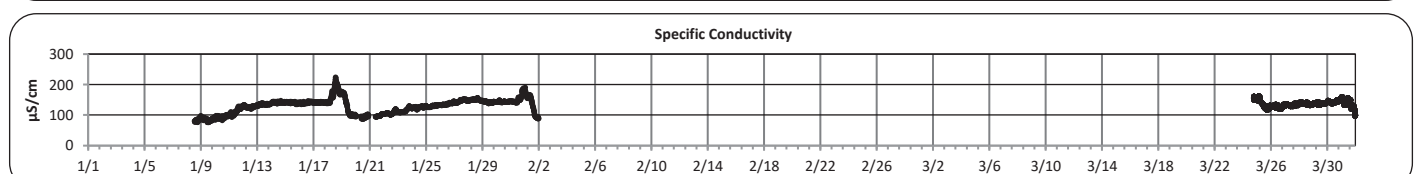
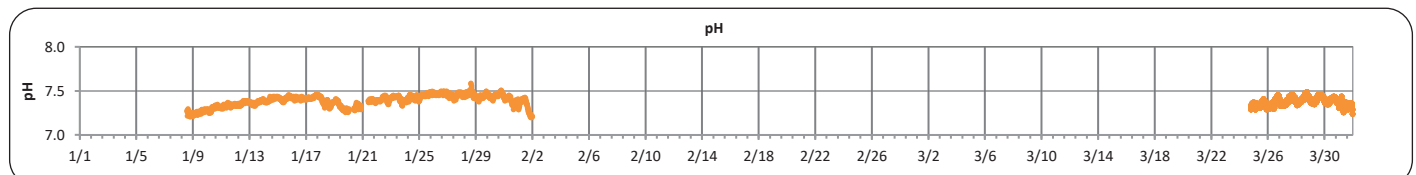
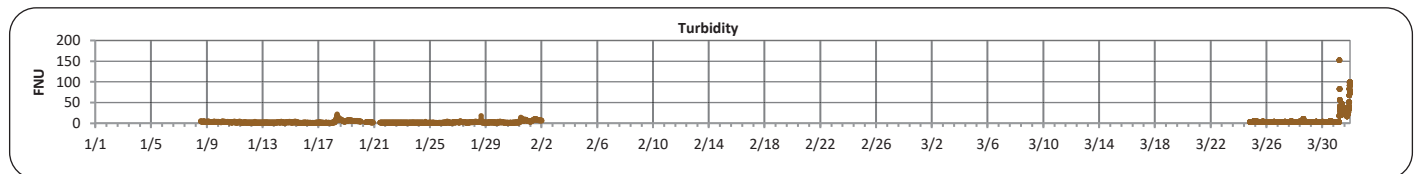
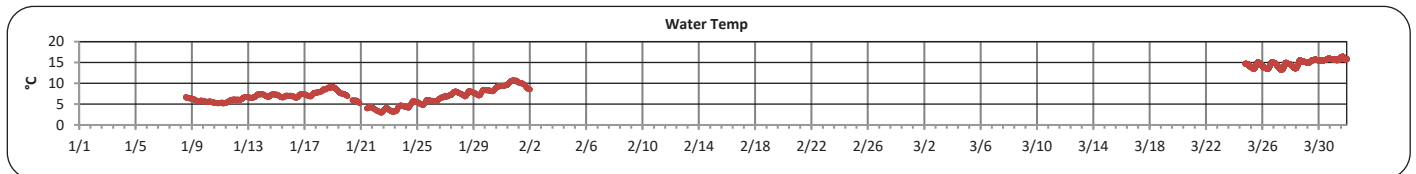
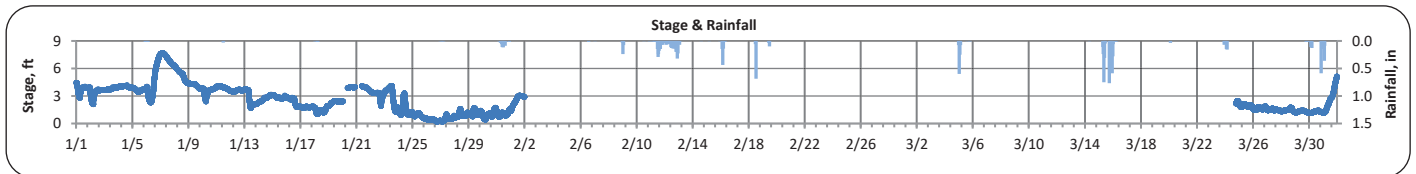
No data gaps present during this monitoring period.



The City of Chattanooga and Hamilton County Joint Water Quality Monitoring
Quarterly Report (January 1, 2025 - March 31, 2025)
N. Chick Creek at Greenway Farms



PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	N. Chick	STAGE (FT):	0.2	7.7	2.4	2.6	1.5
LOCATION:	Greenway Farms Boat Launch	TEMPERATURE (°C):	3	16	15	13	3
TMDL/IMPAIRMENT:	pH, Siltation, Habitat Alteration	TURBIDITY (FNU):	1	153	3	6	12
		pH:	7.2	7.6	7.4	7.4	0.0
APPROX. DRAINAGE AREA:	117.4 square miles	SPECIFIC CONDUCTIVITY (µS/cm):	76	224	137	135	14
TOTAL NO. STORMS OVER 0.1 INCH:	16						
MAX. DAILY RAINFALL:	2.4 inches	DISSOLVED OXYGEN (mg/L):	7.7	12.7	9.1	9.3	1.1
TOTAL RAINFALL (FOR PERIOD):	5.2 inches						





The City of Chattanooga and Hamilton County Joint Water Quality Monitoring
Quarterly Report (January 1, 2025 - March 31, 2025)
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:

One dry grab sample was collected at the N. Chick Creek at Greenway Farms location during this monitoring period.

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	2/4/2025							
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	11:30	40						
Total Suspended Solids (mg/L)	11:30	2.4						
Total Phosphorus (mg/L)	11:30	<0.5						
Total Nitrogen (mg/L)	11:30	0.33						

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

Notes:

Parameters reporting in EST (-5:00).

Data Gaps

Data gaps present for all water quality parameters from 1/1-1/8 and 2/1-3/24 due to sensor malfunction. Data gap present in stage data from 2/1-3/24 due to sensor maintenance.

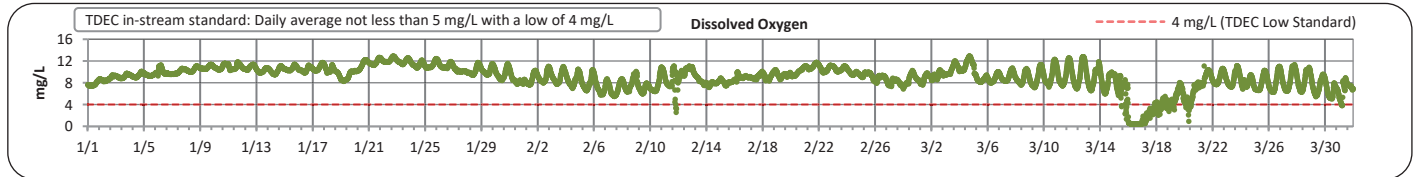
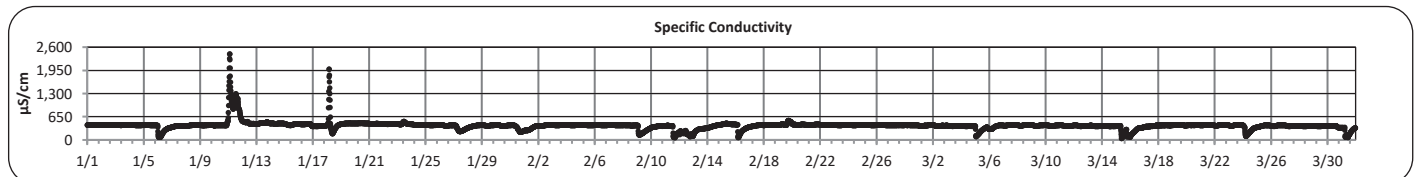
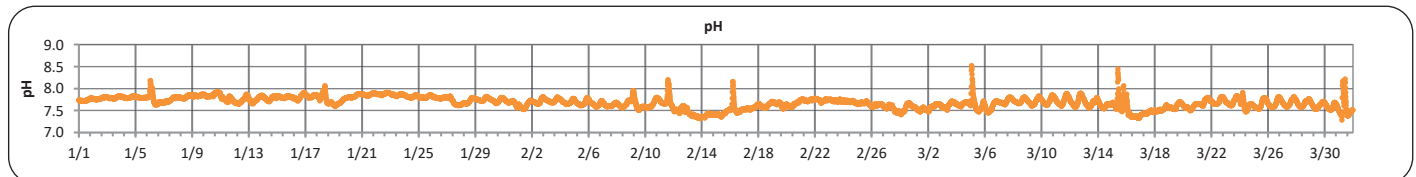
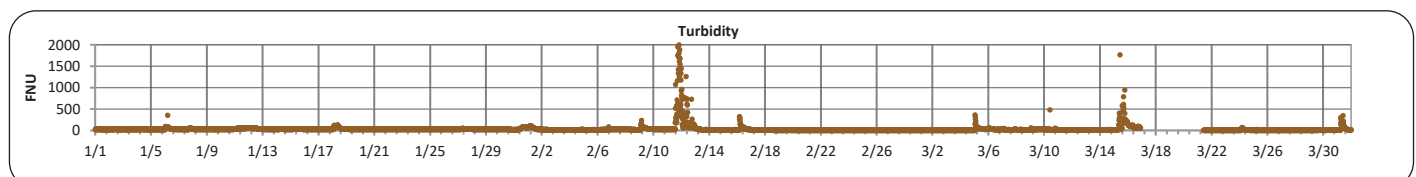
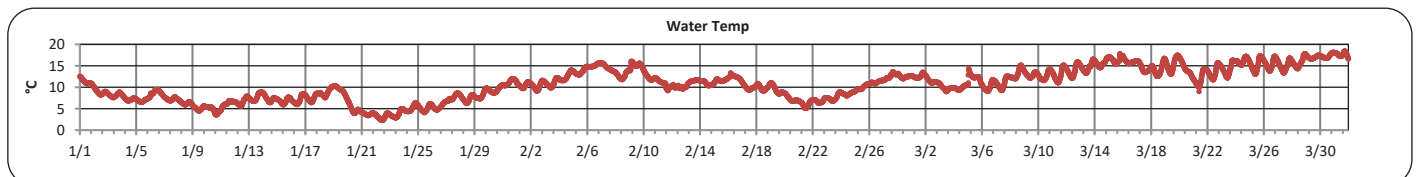
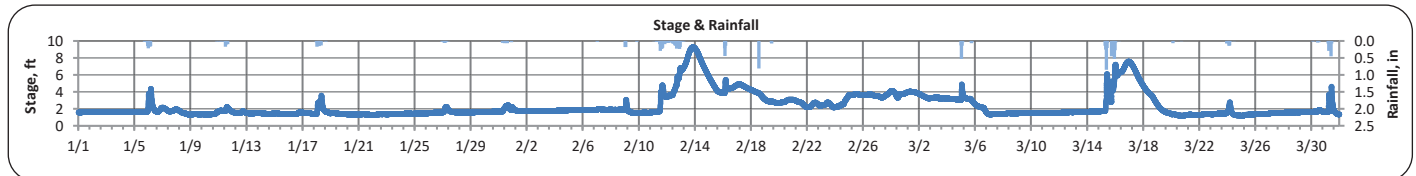


The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (January 1, 2025 - March 31, 2025)

Dobbs Branch at Park City Park



PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Dobbs Branch	STAGE (FT):	1.2	9.3	1.7	2.3	1.4
LOCATION:	Park City Park	TEMPERATURE (°C):	2	18	11	11	4
TMDL/IMPAIRMENT:	<i>E. coli</i> , Siltation, Habitat Alteration	TURBIDITY (FNU):	3	1,996	24	33	91
		pH:	7.3	8.5	7.7	7.7	0.1
APPROX. DRAINAGE AREA:	6.2 square miles	SPECIFIC CONDUCTIVITY (µS/cm):	41	2,414	412	402	116
TOTAL NO. STORMS OVER 0.1 INCH:	17						
MAX. DAILY RAINFALL:	1.9 inches	DISSOLVED OXYGEN (mg/L):	0.5	13.0	9.4	9.1	2.1
TOTAL RAINFALL (FOR PERIOD):	4.7 inches						





**The City of Chattanooga and Hamilton County Joint Water Quality Monitoring
Quarterly Report (January 1, 2025 - March 31, 2025)
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:

One dry grab sample was collected at the Dobbs Branch at Park City Park location during this monitoring period.

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	2/4/2025							
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	10:40	62						
Total Suspended Solids (mg/L)	10:40	4.4						
Total Phosphorus (mg/L)	10:40	<0.5*						
Total Nitrogen (mg/L)	10:40	1.15						

*Results below limit of detection of laboratory equipment

Notes:

Parameters reporting in EST (-5:00).

Data Gaps

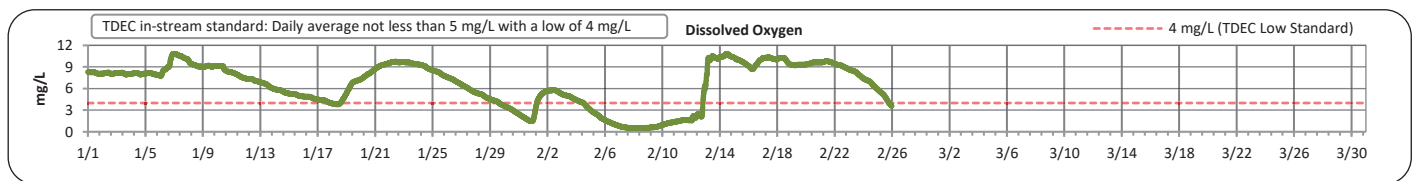
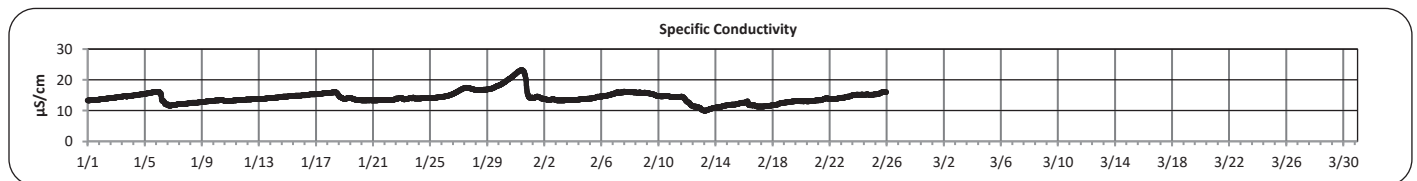
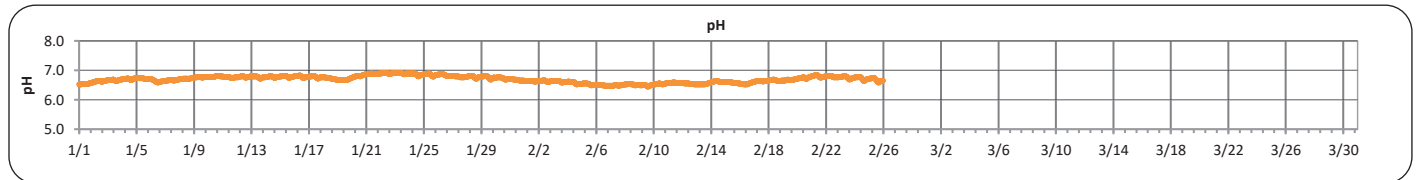
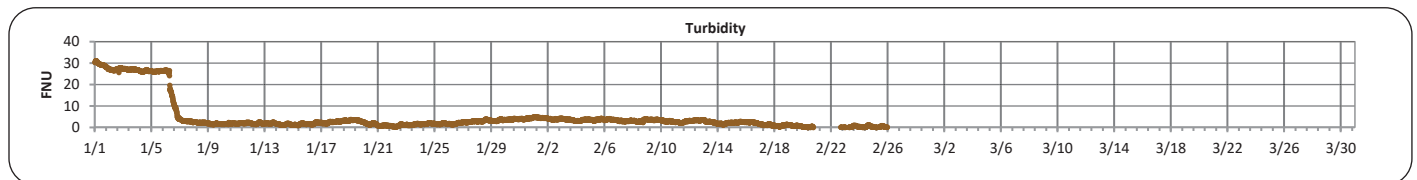
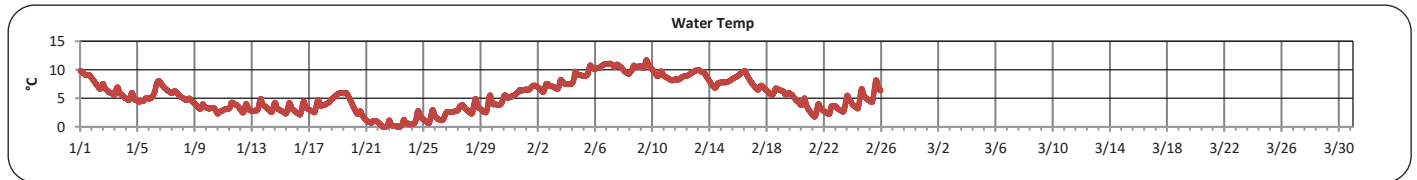
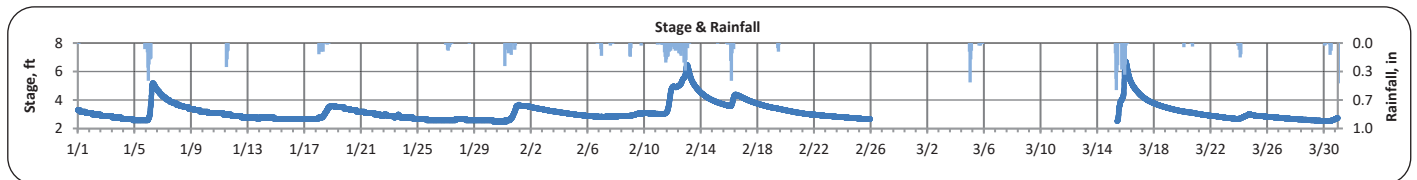
Data gap present in turbidity data from 3/16-3/21 due to partial unsubmergence.



The City of Chattanooga and Hamilton County Joint Water Quality Monitoring
Quarterly Report (January 1, 2025 - March 31, 2025)
North Chick at Ivy Academy



PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	North Chick Creek	STAGE (FT):	2.50	6.75	2.96	3.18	0.66
LOCATION:	Ivy Academy	TEMPERATURE (°C):	0	12	5	5	3
TMDL/IMPAIRMENT:	Siltation, Habitat Alteration	TURBIDITY (FNU):	1	31	2	5	8
		pH:	6.5	6.9	6.7	6.7	0.1
APPROX. DRAINAGE AREA:	17 square miles	SPECIFIC CONDUCTIVITY (µS/cm):	10	23	14	14	2
TOTAL NO. STORMS OVER 0.1 INCH:	17						
MAX. DAILY RAINFALL:	1.8 inches	DISSOLVED OXYGEN (mg/L):	0.5	10.8	7.4	6.5	3.0
TOTAL RAINFALL (FOR PERIOD):	5.3 inches						



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



**The City of Chattanooga and Hamilton County Joint Water Quality Monitoring
Quarterly Report (January 1, 2025 - March 31, 2025)
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:

No grab samples were collected at the North Chick at Ivy Academy location during this monitoring period.

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)								
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Notes:

All paramaters reporting in EST (-5:00).

Data Gaps

Data gaps present in all water quality parameters from 2/26-3/31 due to equipment failure. Data gap present in stage data from 2/26-3/15 due to equipment maintenance.

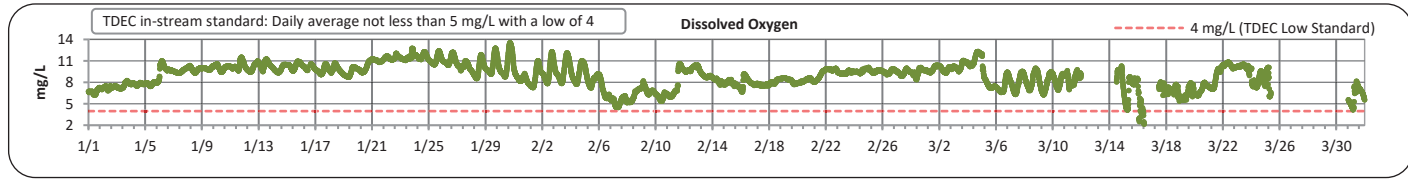
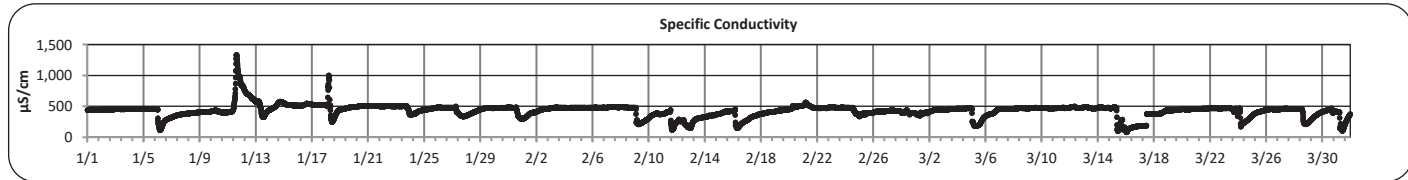
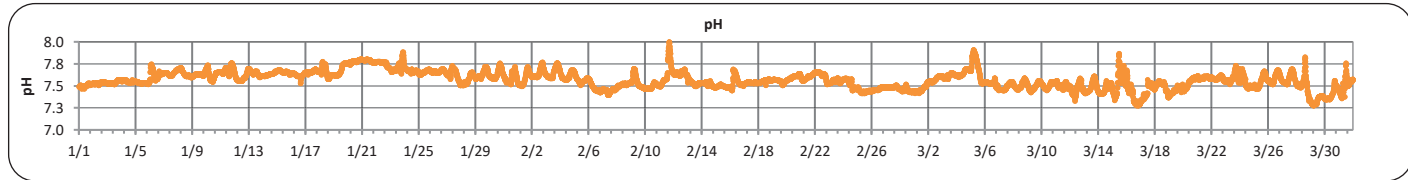
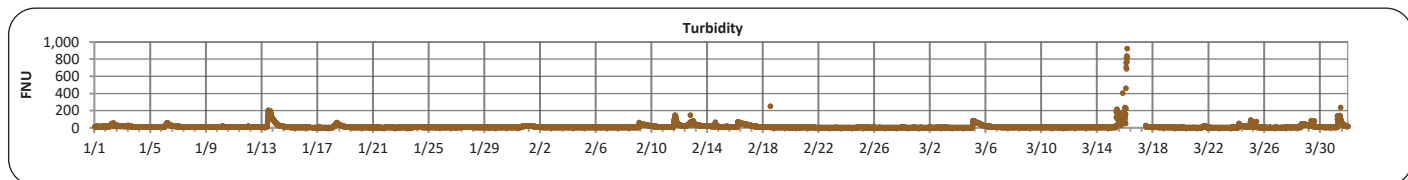
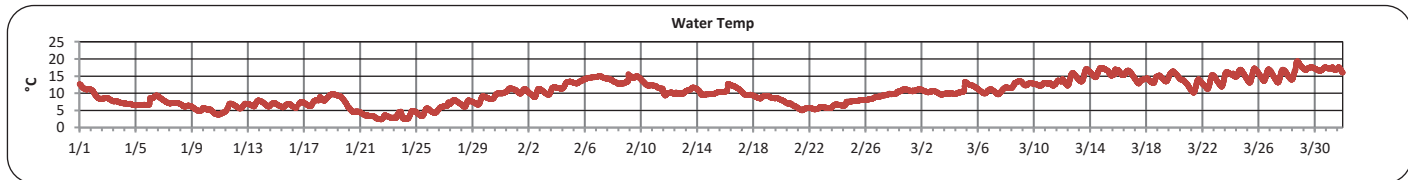
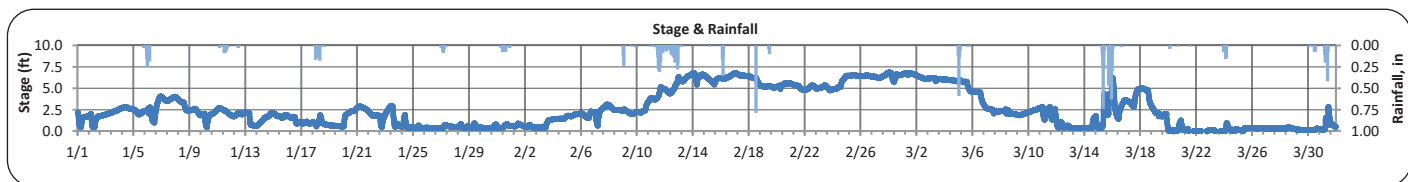


The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (January 1, 2025 - March 31, 2025)

Citico Creek



PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Citico Creek	STAGE (FT):	0.00	6.87	2.09	2.66	2.16
LOCATION:	Waterwalk PI Rd	TEMPERATURE (°C):	2	19	10	10	4
TMDL/IMPAIRMENT:	pH, E. coli, Siltation, Habitat Alteration	TURBIDITY (FNU):	3	924	6	14	33
		pH:	7.3	8.0	7.6	7.6	0.1
APPROX. DRAINAGE AREA:	6 square miles	SPECIFIC CONDUCTIVITY (µS/cm):	82.4	1,339	453	428	104
TOTAL NO. STORMS OVER 0.1 INCH:	17						
MAX. DAILY RAINFALL:	0.9 inches	DISSOLVED OXYGEN (mg/L):	2.2	13.5	9.3	9.0	1.7
TOTAL RAINFALL (FOR PERIOD):	1.9 inches						



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



The City of Chattanooga and Hamilton County Joint Water Quality Monitoring
Quarterly Report (January 1, 2025 - March 31, 2025)
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:

One grab sample was obtained during dry conditions at the Citico Creek location during this monitoring period.

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	2/4/2025							
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	12:05	390						
Total Suspended Solids (mg/L)	12:05	2.89						
Total Phosphorus (mg/L)	12:05	<0.5						
Total Nitrogen (mg/L)	12:05	1.7*						

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

Notes:

All paramaters reporting in EST (-5:00).

Data Gaps

Multiple data gaps are present throughout monitoring period for dissolved oxygen due to partial unsubmergence and sonde impaction events. Data gap present on 3/17 for all water quality parameters, excluding temperature, due to equipment malfunction.

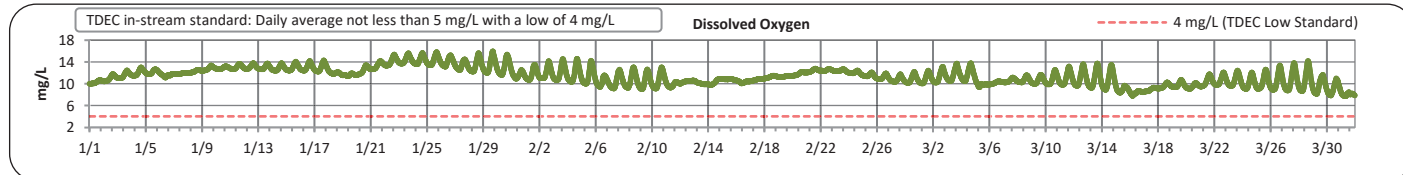
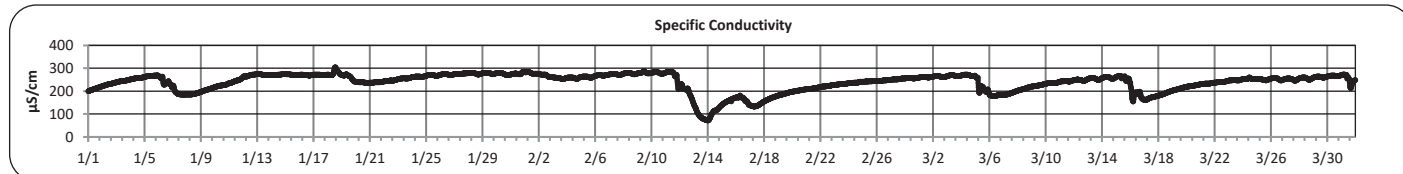
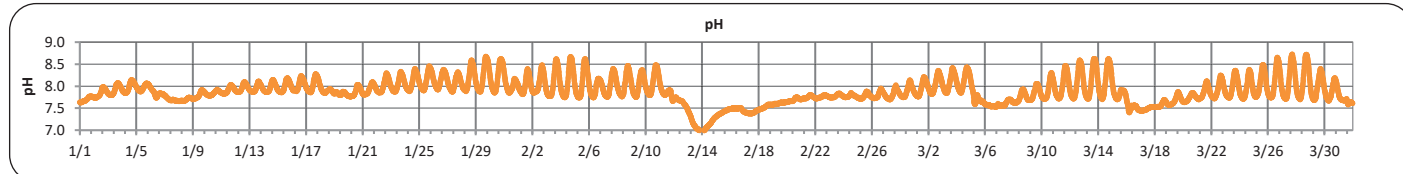
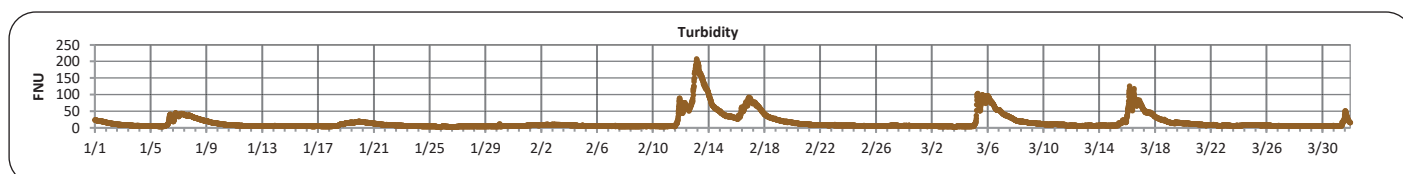
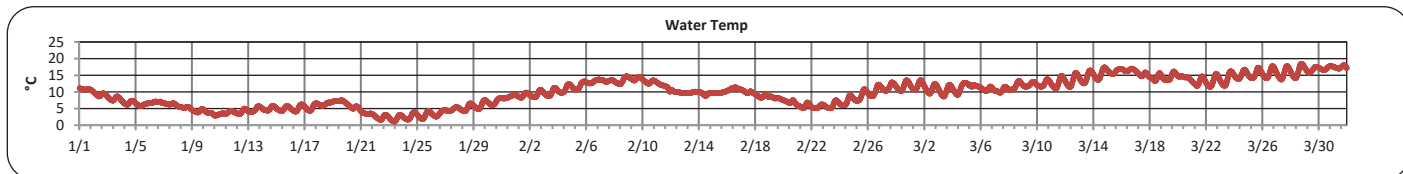
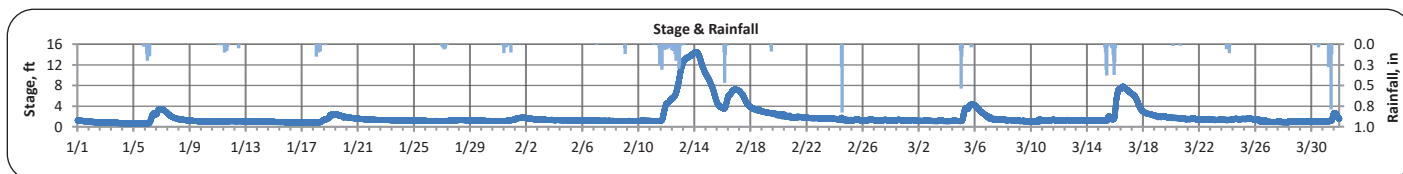


The City of Chattanooga and Hamilton County Joint Water Quality Monitoring Quarterly Report (January 1, 2025 - March 31, 2025)

S. Chick Creek at West Chick Creek



PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	S. Chick Creek	STAGE (FT):	0.59	14.54	1.28	1.98	2.10
LOCATION:	S. Chick at West Chick Creek	TEMPERATURE (°C):	1	18	10	10	4
TMDL/IMPAIRMENT:	E.coli, Siltation, Habitat Alteration	TURBIDITY (FNU):	4	208	8	17	24
		pH:	7.0	8.7	7.9	7.9	0.3
APPROX. DRAINAGE AREA:	23 square miles	SPECIFIC CONDUCTIVITY (µS/cm):	73	305	252	239	39
TOTAL NO. STORMS OVER 0.1 INCH:	17						
MAX. DAILY RAINFALL:	1.2 inches	DISSOLVED OXYGEN (mg/L):	7.8	16.0	11.5	11.5	1.6
TOTAL RAINFALL (FOR PERIOD):	3.7 inches						



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



**The City of Chattanooga and Hamilton County Joint Water Quality Monitoring
Quarterly Report (January 1, 2025 - March 31, 2025)
S. Chick Creek at West Chick**



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:

One grab sample was obtained during dry conditions at the S. Chick Creek at West Chick location during this monitoring period.

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	2/4/2025							
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	10:30	<20						
Total Suspended Solids (mg/L)	10:30	7.6						
Total Phosphorus (mg/L)	10:30	<0.5						
Total Nitrogen (mg/L)	10:30	0.339*						

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

Notes:

All paramaters reporting in EST (-5:00).

Data Gaps

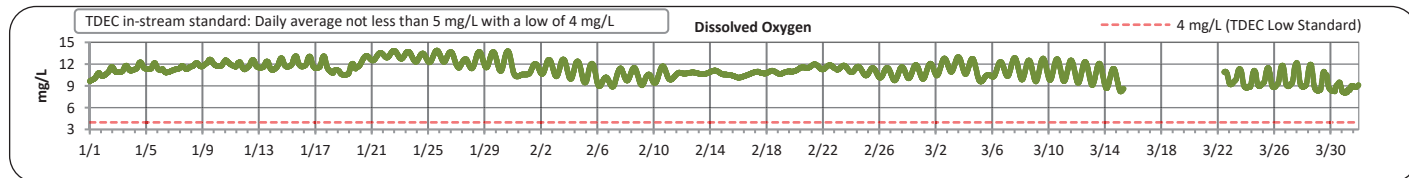
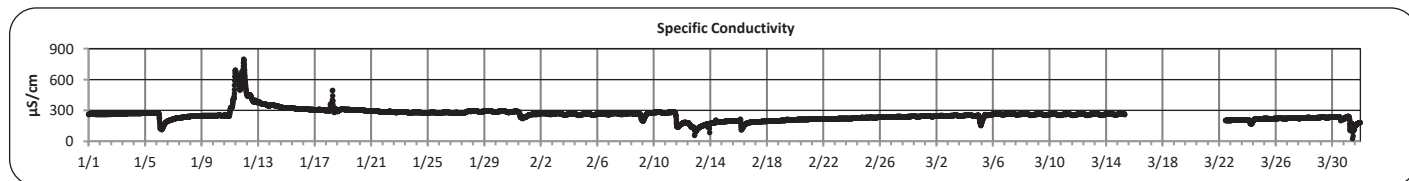
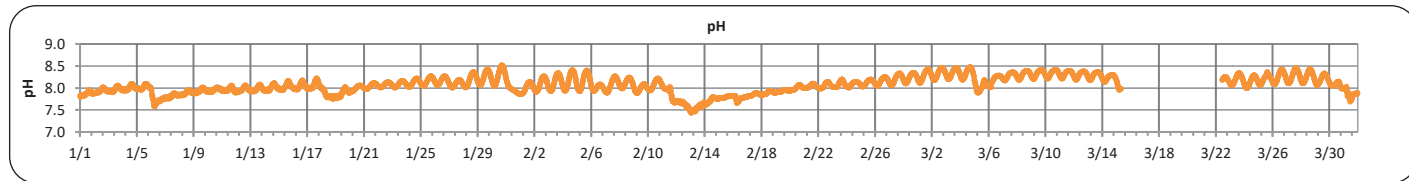
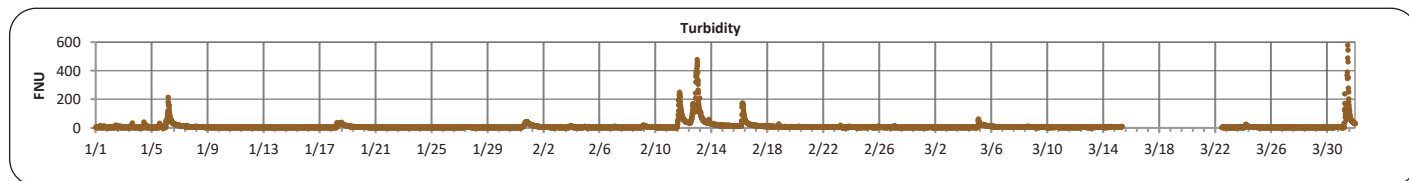
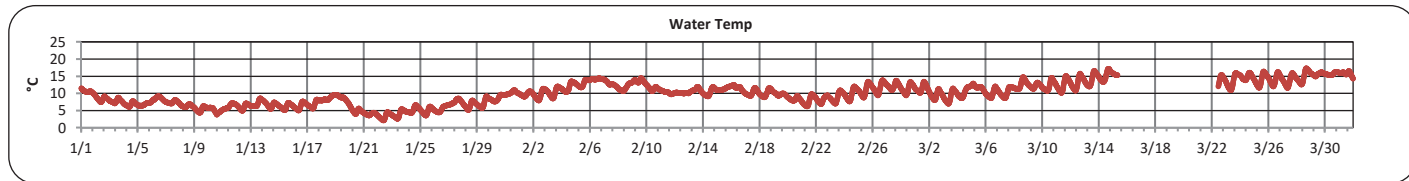
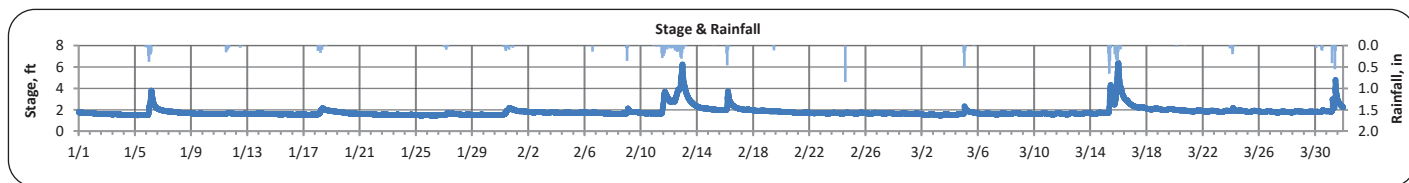
No data gaps are present during this monitoring period.



The City of Chattanooga and Hamilton County Joint Water Quality Monitoring
Quarterly Report (January 1, 2025 - March 31, 2025)
Mountain Creek at Elementary School



PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Mountain Creek	STAGE (FT):	1.48	6.40	1.70	1.83	0.46
LOCATION:	Red Bank Elementary School	TEMPERATURE (°C):	2	17	10	10	3
TMDL/IMPAIRMENT:	<i>E. coli</i> , Siltation, Habitat Alteration	TURBIDITY (FNU):	3	581	5	11	30
		pH:	7.4	8.5	8.1	8.1	0.2
APPROX. DRAINAGE AREA:	5.5 square miles	SPECIFIC CONDUCTIVITY (µS/cm):	28	799	261	258	59
TOTAL NO. STORMS OVER 0.1 INCH:	17						
MAX. DAILY RAINFALL:	1.8 inches	DISSOLVED OXYGEN (mg/L):	8.1	13.9	11.2	11.2	1.2
TOTAL RAINFALL (FOR PERIOD):	5.1 inches						



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



**The City of Chattanooga and Hamilton County Joint Water Quality Monitoring
Quarterly Report (January 1, 2025 - March 31, 2025)
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: One grab sample was obtained during dry conditions at the Mountain Creek at Elementary School location during this monitoring period.

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	2/4/2025							
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	10:40	62						
Total Suspended Solids (mg/L)	10:40	1.6						
Total Phosphorus (mg/L)	10:40	<0.5						
Total Nitrogen (mg/L)	10:40	0.435*						

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

Notes:

All paramaters reporting in EST (-5:00).

Data Gaps

Data gap present in all water quality data from 3/15-3/22 due to equipment failure.