Draft Massachusetts Integrated List of Waters for the Clean Water Act 2024/2026 Reporting Cycles

Appendix 22
Hudson: Hoosic River Basin
Assessment and Listing Decision Summary

Prepared by:
Watershed Planning Program
Division of Watershed Management, Bureau of Water Resources
Massachusetts Department of Environmental Protection

Commonwealth of Massachusetts
Executive Office of Energy and Environmental Affairs
Rebecca L. Tepper, Secretary
Massachusetts Department of Environmental Protection
Bonnie Heiple, Commissioner
Bureau of Water Resources
Kathleen M. Baskin, Assistant Commissioner

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Watershed Planning Program

The mission of the Watershed Planning Program (WPP) in the Massachusetts Department of Environmental Protection is to protect, enhance, and restore the quality and value of the waters of the Commonwealth. Guided by the federal Clean Water Act, WPP implements this mission statewide through five Sections that each have a different technical focus: (1) Surface Water Quality Standards; (2) Surface Water Quality Monitoring; (3) Data Management and Water Quality Assessment; (4) Total Maximum Daily Load; and (5) Nonpoint Source Management. Together with other MassDEP programs and state environmental agencies, WPP shares in the duty and responsibility to secure the environmental, recreational, and public health benefits of clean water for all people of the Commonwealth.

Acknowledgements

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Disclaimer

References to trade names, commercial products, manufacturers, or distributors in this report constituted neither endorsement nor recommendation by MassDEP.

Contact Information

Watershed Planning Program
Division of Watershed Management, Bureau of Water Resources
Massachusetts Department of Environmental Protection
8 New Bond Street, Worcester, MA 01606
Watershed Planning Program website
Email address: dep.wpp@mass.gov

Notice of Availability

This report is available on the Massachusetts Department of Environmental Protection website.

Overview of Appendix Contents

This Integrated Report (IR) Appendix functions as a watershed-based Assessment and Listing Decision Summary that catalogs the most recent assessment decisions for each assessment unit (AU) that was updated as part of the 2024/2026 IR cycle.

The appendix begins with 2024/26 Cycle Impairment Changes, a comprehensive table summarizing all impairments that were either added, removed, changed, or unchanged between the 2022 and 2024/2026 reporting cycles. This table presents the overall impairment status at the waterbody scale, across all designated uses. The table does not detail use-specific impairment changes; those details are provided in subsequent sections of the appendix.

Following 2024/26 Cycle Impairment Changes, the appendix provides an individual section for each AU updated during the 2024/2026 cycle. Each AU section details the supporting data and rationale for each designated use attainment determination, including any associated impairment removal decisions. Changes in impairment status at the designated use level are documented in full within the corresponding Designated Use Attainment Decision. AUs where no usable data were available for the 2024/2026 IR cycle are included, but with the assessment information from the 2022 cycle is carried forward.

The following abbreviations are used when referencing designated uses:

- ALU - Aquatic Life Use
- FC - Fish Consumption Use
- SH - Shellfish Harvesting Use
- AES - Aesthetic Use
- PCR - Primary Contact Recreation Use
- SCR - Secondary Contact Recreation Use

When listing an impairment, parentheses and an asterisk (*) are utilized to denote “pollution” or non-pollutant impairments that do not require the development of a Total Maximum Daily Load (TMDL). Where applicable, further explanation of the ATTAINS impairment code is provided within square brackets [].

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2024/26 Cycle Impairment Changes

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Bassett Brook	MA11-17	2	2	None	--	Unchanged
Bear Swamp Brook	MA11-29	3	3	None	--	Unchanged
Berkshire Pond	MA11001	4c	4c	(Aquatic Plants (Macrophytes)*)	--	Added
Berkshire Pond	MA11001	4c	4c	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
Birch Brook	MA11-30	3	3	None	--	Unchanged
Broad Brook	MA11-23	2	2	None	--	Unchanged
Buxton Brook	MA11-25	2	2	None	--	Unchanged
Cheshire Reservoir, Middle Basin	MA11018	4c	4c	(Brittle Naiad, Najas Minor*)	--	Unchanged
Cheshire Reservoir, Middle Basin	MA11018	4c	4c	(Curly-leaf Pondweed*)	--	Unchanged
Cheshire Reservoir, Middle Basin	MA11018	4c	4c	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
Cheshire Reservoir, Middle Basin	MA11018	4c	4c	(Water Chestnut*)	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Cheshire Reservoir, North Basin	MA11002	5	5	(Brittle Naiad, Najas Minor*)	--	Unchanged
Cheshire Reservoir, North Basin	MA11002	5	5	(Curly-leaf Pondweed*)	--	Unchanged
Cheshire Reservoir, North Basin	MA11002	5	5	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
Cheshire Reservoir, North Basin	MA11002	5	5	(Water Chestnut*)	--	Unchanged
Cheshire Reservoir, North Basin	MA11002	5	5	Nutrient/Eutrophication Biological Indicators	--	Unchanged
Cheshire Reservoir, South Basin	MA11019	5	5	(Aquatic Plants (Macrophytes)*)	--	Added
Cheshire Reservoir, South Basin	MA11019	5	5	(Curly-leaf Pondweed*)	--	Unchanged
Cheshire Reservoir, South Basin	MA11019	5	5	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
Cheshire Reservoir, South Basin	MA11019	5	5	(Water Chestnut*)	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Cheshire Reservoir, South Basin	MA11019	5	5	Algae	--	Unchanged
Dry Brook	MA11-13	2	2	None	--	Unchanged
East Branch Green River	MA11-21	2	2	None	--	Unchanged
Gore Brook	MA11-31	3	3	None	--	Unchanged
Green River	MA11-06	5	5	Temperature	--	Unchanged
Hemlock Brook	MA11-09	2	2	None	--	Unchanged
Hoosic River	MA11-03	5	5	(Alteration in Stream-side or Littoral Vegetative Covers*)	--	Unchanged
Hoosic River	MA11-03	5	5	(Flow Regime Modification*)	--	Unchanged
Hoosic River	MA11-03	5	5	(Other Anthropogenic substrate Alterations*)	--	Unchanged
Hoosic River	MA11-03	5	5	Ambient Bioassays - Chronic Aquatic Toxicity	--	Unchanged
Hoosic River	MA11-03	5	5	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed
Hoosic River	MA11-03	5	5	Fecal Coliform	R1_MA_2024_04	Changed
Hoosic River	MA11-03	5	5	Temperature	--	Unchanged
Hoosic River	MA11-04	5	5	(Alteration in Stream-side or Littoral Vegetative Covers*)	--	Unchanged
Hoosic River	MA11-04	5	5	(Flow Regime Modification*)	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Hoosic River	MA11-04	5	5	Benthic Macroinvertebrates	--	Unchanged
Hoosic River	MA11-04	5	5	Escherichia Coli (E. Coli)	--	Unchanged
Hoosic River	MA11-05	5	5	(Alteration in Stream-side or Littoral Vegetative Covers*)	--	Unchanged
Hoosic River	MA11-05	5	5	(Flow Regime Modification*)	--	Unchanged
Hoosic River	MA11-05	5	5	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed
Hoosic River	MA11-05	5	5	Fecal Coliform	R1_MA_2024_04	Changed
Hoosic River	MA11-05	5	5	Nutrient/Eutrophication Biological Indicators	--	Unchanged
Hoosic River	MA11-05	5	5	PCBs in Fish Tissue	--	Unchanged
Hoosic River	MA11-05	5	5	PFAS in Fish Tissue	--	Added
Hopper Brook	MA11-28	2	2	None	--	Unchanged
Hoxie Brook	MA11-32	2	2	None	--	Unchanged
Hunterfield Brook	MA11-33	3	3	None	--	Unchanged
Kitchen Brook	MA11-24	2	2	None	--	Unchanged
Kitchen Brook	MA11-34	3	3	None	--	Unchanged
Mauserts Pond	MA11009	2	2	None	--	Unchanged
Mcdonald Brook	MA11-16	3	3	None	--	Unchanged
Miller Brook	MA11-27	2	2	None	--	Unchanged
Mitchell Brook	MA11-35	3	3	None	--	Unchanged
Money Brook	MA11-36	2	2	None	--	Unchanged
Mt. Williams Reservoir	MA11010	3	3	None	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
North Branch Hoosic River	MA11-01	5	5	Temperature	--	Unchanged
North Branch Hoosic River	MA11-02	5	5	(Alteration in Stream-side or Littoral Vegetative Covers*)	--	Unchanged
North Branch Hoosic River	MA11-02	5	5	(Flow Regime Modification*)	--	Unchanged
North Branch Hoosic River	MA11-02	5	5	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed
North Branch Hoosic River	MA11-02	5	5	Fecal Coliform	R1_MA_2024_04	Changed
North Branch Hoosic River	MA11-02	5	5	Polychlorinated Biphenyls (PCBs)	--	Unchanged
Notch Brook	MA11-37	3	3	None	--	Unchanged
Notch Brook	MA11-38	2	2	None	--	Unchanged
Notch Reservoir	MA11011	3	3	None	--	Unchanged
Patton Brook	MA11-39	3	3	None	--	Unchanged
Paull Brook	MA11-20	4c	4c	(Dewatering*)	--	Unchanged
Pecks Brook	MA11-18	2	2	None	--	Unchanged
Penniman Brook	MA11-40	3	3	None	--	Unchanged
Pettibone Brook	MA11-41	3	3	None	--	Unchanged
Sherman Brook	MA11-42	3	3	None	--	Unchanged
South Brook	MA11-15	2	2	None	--	Unchanged
Sweet Brook	MA11-43	2	2	None	--	Unchanged
Thunder Brook	MA11-10	2	2	None	--	Unchanged
Tophet Brook	MA11-19	4c	4c	(Alteration in Stream-side or Littoral Vegetative Covers*)	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Tophet Brook	MA11-19	4c	4c	(Flow Regime Modification*)	--	Unchanged
Tunnel Brook	MA11-26	3	3	None	--	Unchanged
West Branch Green River	MA11-22	2	2	None	--	Unchanged
Windsor Lake	MA11016	4c	4c	(Curly-leaf Pondweed*)	--	Unchanged

Bassett Brook (MA11-17)

Location:	Headwaters, perennial portion, southeast slope of Saddle Ball Mountain, Adams to mouth at inlet Bassett Reservoir, Cheshire.
AU Type:	RIVER
AU Size:	1.9 MILES
Classification/Qualifier:	A: PWS, ORW (Tributary)

No usable data were available for Bassett Brook (MA11-17) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Bear Swamp Brook (MA11-29)

Location:	Headwaters, east of the Appalachian National Scenic Trail in Clarksburg State Forest, Clarksburg to confluence with Cowan Brook forming headwaters of Hudson Brook, Clarksburg.
AU Type:	RIVER
AU Size:	2.6 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Bear Swamp Brook (MA11-29) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Berkshire Pond (MA11001)

Location:	Lanesborough.
AU Type:	FRESHWATER LAKE
AU Size:	21 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Aquatic Plants (Macrophytes)*)	--	Added
4c	4c	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Aquatic Plants (Macrophytes)*)	Source Unknown (N)	--	--	X	X	X
(Eurasian Water Milfoil, Myriophyllum Spicatum*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted in Berkshire Pond (MA11001), so the Fish Consumption Use is Not Assessed.

Aesthetic

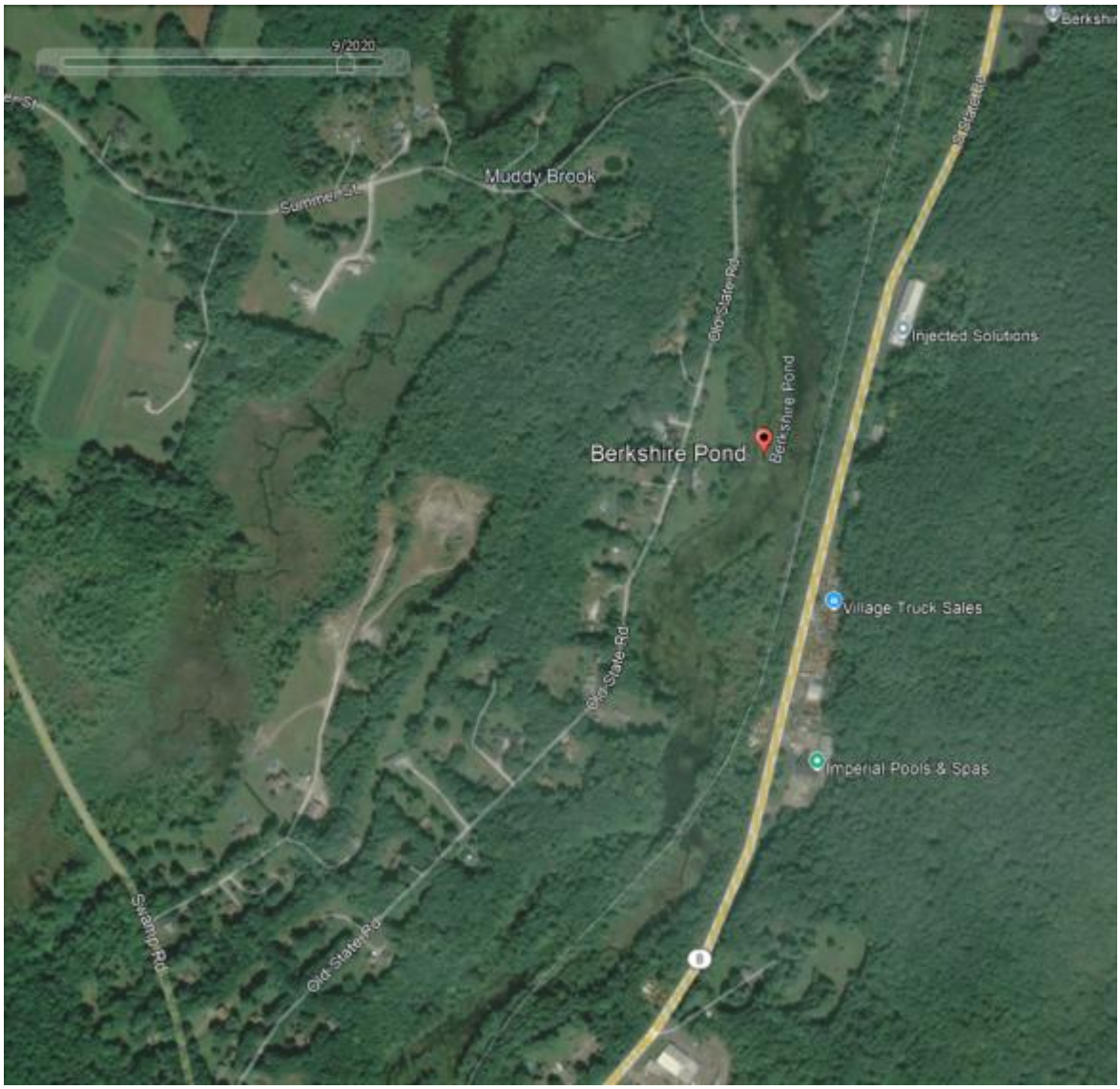
2024/26 Use Attainment	Alert
Not Supporting	NO

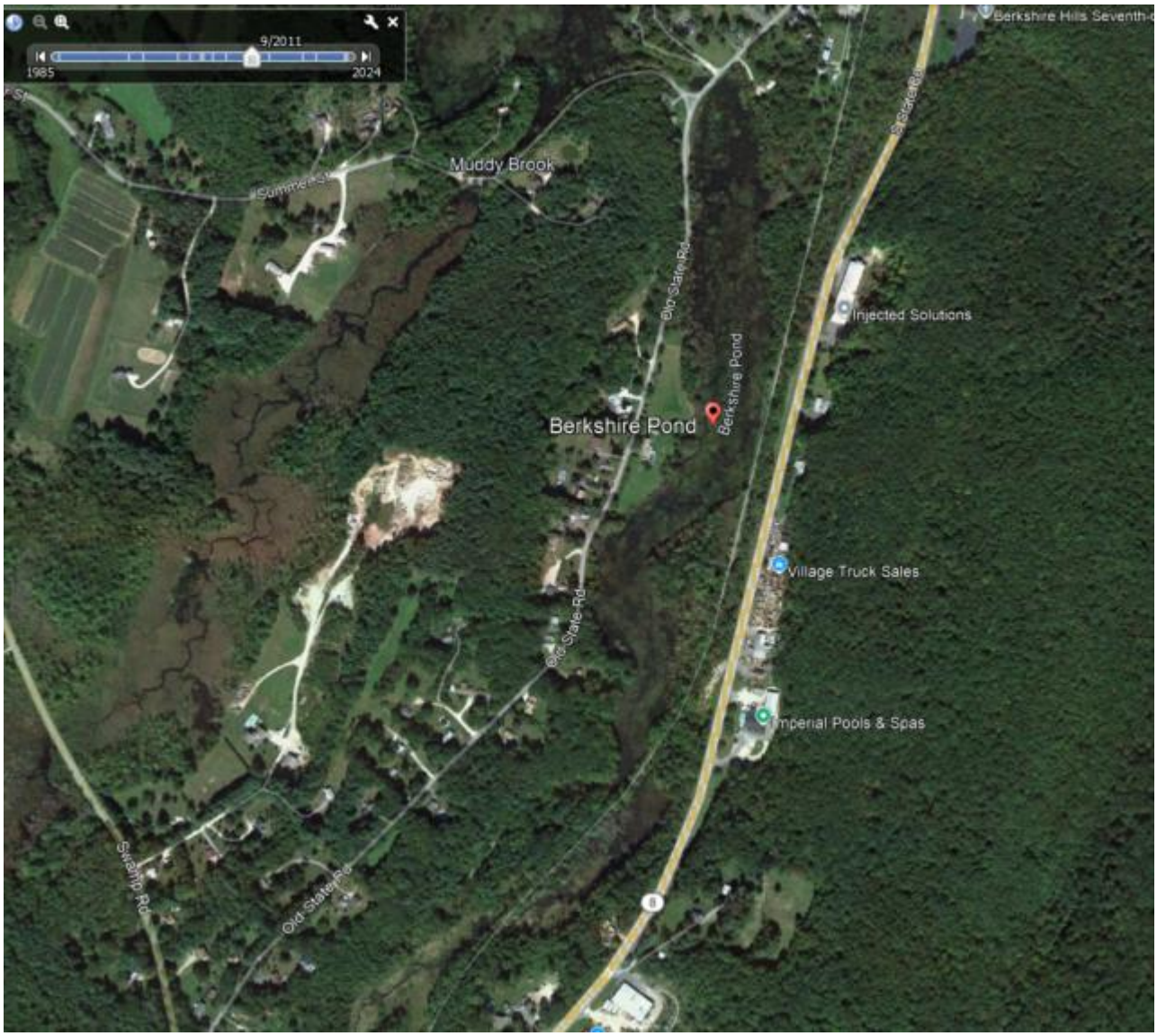
2024/26 Use Attainment Summary
The Aesthetics Use for Berkshire Pond (MA11001) will continue to be assessed as Not Supporting, with an Aquatic Plants (Macrophytes) non-pollutant impairment being added. The historic “Eurasian Water Milfoil, Myriophyllum Spicatum” impairment is being removed and replaced with an Aquatic Plants (Macrophytes) non-pollutant impairment. Since the “Eurasian Water Milfoil, Myriophyllum Spicatum” impairment was redundantly duplicated across multiple uses for this waterbody, it is being removed from the Aesthetics Use but will continue to be maintained under the Aquatic Life Use. MassDEP staff noted the entire pond surface was covered in "very dense" floating or submergent vegetation (including *Myriophyllum spicatum*) during an August 1997 survey (MassDEP 1997), and Google Earth images (Google Earth Pro Undated) from August 2003 through September 2020 show this pond is very filled in (>25% coverage) with submergent and emergent vegetation, so an Aquatic Plants (Macrophytes) non-pollutant impairment is being added in place of the “Eurasian Water Milfoil, Myriophyllum Spicatum” impairment at this time. No new data for Berkshire Pond are available.

Aesthetic Observations

Berkshire Pond (MA11001) Google Earth Imagery: Pond Outline (2024) Followed by Imagery from 2020 and 2011 Showing Dense/Very Dense Vegetation Covering >25% of the Pond’s Surface (Google Earth Pro Undated)


10/2024
Muddy Brook
Summer St
Old Sale Rd
Berkshire Pond
Berkshire Pond
Berkshire Hills Seventh-day Adventist...
Injected Solutions
Village Truck Sales
Imperial Pools & Spas
Old Sale Rd
Swamp Rd
Old Stafford Rd


9/2020
Muddy Brook
Summer St
Old State Rd
Berkshire Pond
Berkshire Pond
Injected Solutions
Village Truck Sales
Imperial Pools & Spas
Old State Rd
Swamp Rd
Old State Rd



Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

No new bacteria data are available for Berkshire Pond AU (MA11001), so the Primary Contact Recreation Use will continue to be assessed as Not Supporting. The historic “Eurasian Water Milfoil, Myriophyllum Spicatum” impairment is being removed and replaced with an Aquatic Plants (Macrophytes) non-pollutant impairment.
Since the “Eurasian Water Milfoil, Myriophyllum Spicatum” impairment was redundantly duplicated across multiple uses for this waterbody, it is being removed from the recreational uses but will continue to be maintained under the Aquatic Life Use. MassDEP staff noted the entire pond surface was covered in "very dense" floating or submergent vegetation (including *Myriophyllum spicatum*) during an August 1997 survey (MassDEP 1997), and Google Earth images (Google Earth Pro Undated) from August 2003 through September 2020 show this pond is very filled in (>25% coverage) with submergent and emergent vegetation, so an Aquatic Plants (Macrophytes) non-pollutant impairment is being added in place of the “Eurasian Water Milfoil, Myriophyllum Spicatum” impairment at this time.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
No new bacteria data are available for Berkshire Pond AU (MA11001), so the Secondary Contact Recreation Use will continue to be assessed as Not Supporting. The historic “Eurasian Water Milfoil, Myriophyllum Spicatum” impairment is being removed and replaced with an Aquatic Plants (Macrophytes) non-pollutant impairment. Since the “Eurasian Water Milfoil, Myriophyllum Spicatum” impairment was redundantly duplicated across multiple uses for this waterbody, it is being removed from the recreational uses but will continue to be maintained under the Aquatic Life Use. MassDEP staff noted the entire pond surface was covered in "very dense" floating or submergent vegetation (including *Myriophyllum spicatum*) during an August 1997 survey (MassDEP 1997), and Google Earth images (Google Earth Pro Undated) from August 2003 through September 2020 show this pond is very filled in (>25% coverage) with submergent and emergent vegetation, so an Aquatic Plants (Macrophytes) non-pollutant impairment is being added in place of the “Eurasian Water Milfoil, Myriophyllum Spicatum” impairment at this time.

Birch Brook (MA11-30)

Location:	Headwaters, perennial portion north of Route 2, Williamstown to mouth at confluence with Buxton Brook, Williamstown.
AU Type:	RIVER
AU Size:	1.9 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Birch Brook (MA11-30) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

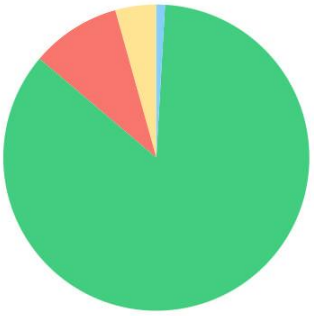
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Broad Brook (MA11-23)

Location:	From Vermont state line, Williamstown to mouth at confluence with the Hoosic River, Williamstown (includes former 1998 segment: Broad Brook MA11-07).
AU Type:	RIVER
AU Size:	2.2 MILES
Classification/Qualifier:	A: PWS, ORW

Broad Brook (MA11-23)

Watershed Area: 10.36 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area* (square miles)	1.81	1.76	0.33	0.31
Agriculture	4.3%	4.4%	1.2%	1.2%
Developed	9.5%	9.7%	20.5%	21.9%
Natural	85.3%	85%	75.6%	74%
Wetland	0.9%	0.9%	2.7%	2.9%
Impervious	3.6%	3.7%	8.6%	9.2%

**Land cover analysis only includes watershed area within Massachusetts.*

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Recommendations

2024/26 Recommendations
2024/2026 IR [Algae, Low] Additional monitoring should be performed on Broad Brook (MA11-23) to confirm the presence of dense filamentous that was observed by MassDEP in 2007 at Simonds Road in Williamstown. {W1552}

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert

Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently in Broad Brook (MA11-23), so the Fish Consumption Use is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	YES

2024/26 Use Attainment Summary
There are no data available to assess the status of the Aesthetics Use for this Broad Brook AU (MA11-23), so it is Not Assessed. The prior Alert identified for filamentous algae observed in May and June 2007 at Rt. 7 (Simonds Road) in Williamstown (W1552)) is being carried forward. Since the Total Phosphorus Alert was redundantly duplicated across multiple uses for this waterbody, the Total Phosphorus Alert is being removed from the Aesthetics Use but will continue to be maintained under the Aquatic Life Use.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Broad Brook (MA11-23) is assessed as Fully Supporting based on HVA bacteria data collected in 2022. The prior alerts for filamentous algae and total phosphorus were redundantly duplicated across multiple uses for this waterbody and are being removed from the recreational uses but will continue to be maintained under the Aesthetics and Aquatic Life Uses, respectively. HVA staff/volunteers collected *E. coli* bacteria samples near the downstream end of Broad Brook (MA11-23) at HVA_BBHR600 (brook on the W side of Rt. 7, N of the Williamstown transfer station and 200' W of the railroad trestle) from Jun-Sep 2022 (n=7). Analysis of this moderate frequency dataset indicated no intervals had GMs >126 CFU/100mL and no samples exceeded the 410 CFU/100mL STV. These data were indicative of good water quality conditions.

Monitoring Stations

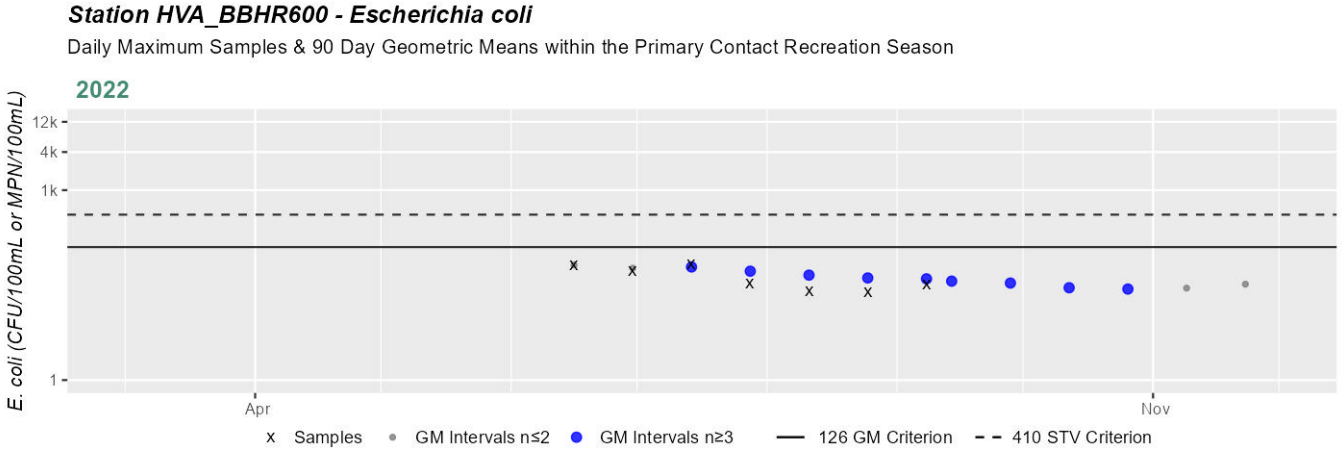
Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
HVA_BBHR600	Housatonic Valley Association	Water Quality	Broad Brook, Hoosic River Main Stem	brook on the west side of Rt. 7, north of the Williamstown transfer station and 200' west of the railroad trestle.	42.738602	-73.216689

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (HVA 2022) (MassDEP Undated 2)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
HVA_BBHR600	Housatonic Valley Association	E. coli	06/16/22	09/08/22	7	24	67	39



Variable*	Result
Samples	7
SeasGM	39
#GMI	9
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Broad Brook (MA11-23) is assessed as Fully Supporting based on HVA bacteria data collected in 2022. The prior alerts for filamentous algae and total phosphorus were redundantly duplicated across multiple uses for this waterbody and are being removed from the recreational uses but will continue to be maintained under the Aesthetics and Aquatic Life Uses, respectively.
HVA staff/volunteers collected *E. coli* bacteria samples near the downstream end of Broad Brook (MA11-23) at HVA_BBHR600 (brook on the W side of Rt. 7, N of the Williamstown transfer station and 200' W of the railroad trestle) from Jun-Sep 2022 (n=7). Analysis of this moderate frequency dataset indicated no intervals had GMs >244 CFU/100mL and no samples exceeded the 794 CFU/100mL STV. These data were indicative of good water quality conditions. Note that MassDEP staff also collected historical *E. coli* data upstream at W1552 (Rt. 7 (Simonds Rd), Williamstown) from Apr-Sep 2007 (n=5) and they were similarly indicative of good conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
HVA_BBHR600	Housatonic Valley Association	Water Quality	Broad Brook, Hoosic River Main Stem	brook on the west side of Rt. 7, north of the Williamstown transfer station and 200' west of the railroad trestle.	42.738602	-73.216689
W1552	MassDEP	Water Quality	Broad Brook	[Route 7 (Simonds Road), Williamstown]	42.735827	-73.206467

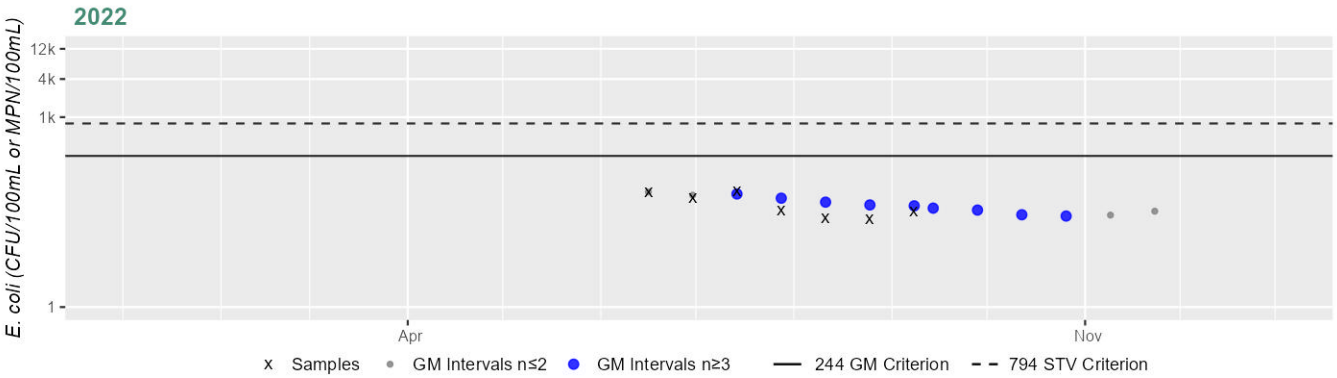
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis) (HVA 2022) (MassDEP Undated 1) **(**MassDEP Undated 6) (MassDEP Undated 3)
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
HVA_BBHR600	Housatonic Valley Association	E. coli	06/16/22	09/08/22	7	24	67	39
W1552	Massachusetts Department of Environmental Protection	E. coli	04/24/07	09/27/07	5	2	80	16

Station HVA_BBHR600 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



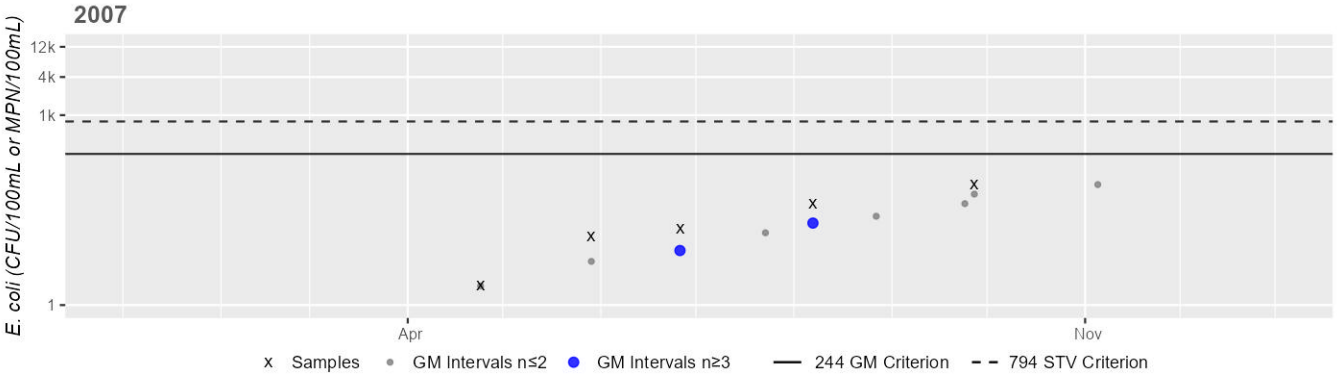
Variable*	Result
Samples	7
SeasGM	39
#GMI	9
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W1552 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	16
#GMI	2
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

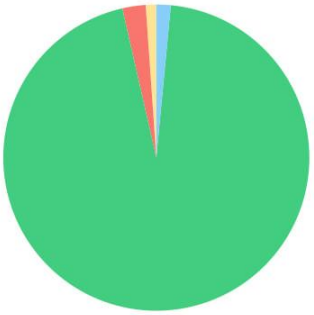
**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Buxton Brook (MA11-25)

Location:	Headwaters, perennial portion, west of Petersburg Road, Williamstown to mouth at confluence with Hemlock Brook, Williamstown.
AU Type:	RIVER
AU Size:	1.3 MILES
Classification/Qualifier:	B: CWF

Buxton Brook (MA11-25)

Watershed Area: 3.18 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area* (square miles)	3.14	3.06	0.81	0.81
Agriculture	1.1%	1.1%	1%	1%
Developed	2.5%	2.5%	4%	4%
Natural	94.9%	94.8%	93.8%	93.8%
Wetland	1.5%	1.6%	1.1%	1.1%
Impervious	0.7%	0.7%	1.1%	1.1%

**Land cover analysis only includes watershed area within Massachusetts.*

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted in Buxton Brook (MA11-25), so the Fish Consumption Use is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Buxton Brook (MA11-25) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Buxton Brook (MA11-25) are available, so the Primary Contact Recreation Use is Not Assessed.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Buxton Brook (MA11-25) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected historical *E. coli* bacteria samples in Buxton Brook (MA11-25) at W1547 (~700 ft upstream from Main St in Williamstown) from Apr-Sep 2007 (n=5). Although these data were indicative of good water quality conditions (no intervals had GMs >244 CFU/100mL and no samples exceeded the 794 CFU/100mL STV), since they were collected prior to the current IR window (2011-2022), they cannot be used to positively assess the Secondary Contact Recreation Use.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1547	MassDEP	Water Quality	Buxton Brook	[approximately 700 feet upstream from Main Street, Williamstown]	42.716988	-73.226011

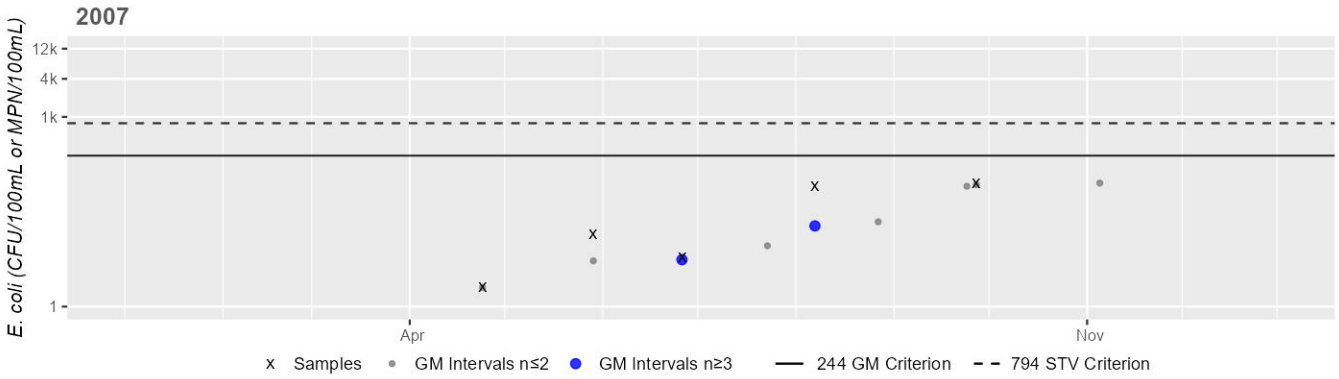
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(MassDEP Undated 6) (MassDEP Undated 3)
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1547	Massachusetts Department of Environmental Protection	E. coli	04/24/07	09/27/07	5	2	90	16

Station MASSDEP_W1547 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	16
#GMI	2
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Cheshire Reservoir, Middle Basin (MA11018)

Location:	[Middle Basin] Cheshire/Lanesborough.
AU Type:	FRESHWATER LAKE
AU Size:	186 ACRES
Classification/Qualifier:	B

No usable data were available for Cheshire Reservoir, Middle Basin (MA11018) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Brittle Naiad, Najas Minor*)	--	Unchanged
4c	4c	(Curly-leaf Pondweed*)	--	Unchanged
4c	4c	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
4c	4c	(Water Chestnut*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Brittle Naiad, Najas Minor*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
(Curly-leaf Pondweed*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
(Eurasian Water Milfoil, Myriophyllum Spicatum*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
(Water Chestnut*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Cheshire Reservoir, North Basin (MA11002)

Location:	[North Basin] Cheshire.
AU Type:	FRESHWATER LAKE
AU Size:	284 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Brittle Naiad, Najas Minor*)	--	Unchanged
5	5	(Curly-leaf Pondweed*)	--	Unchanged
5	5	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
5	5	(Water Chestnut*)	--	Unchanged
5	5	Nutrient/Eutrophication Biological Indicators	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Brittle Naiad, Najas Minor*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
(Curly-leaf Pondweed*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
(Eurasian Water Milfoil, Myriophyllum Spicatum*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
(Water Chestnut*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Nutrient/Eutrophication Biological Indicators	Agriculture (N)	X	--	--	--	--
Nutrient/Eutrophication Biological Indicators	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (N)	X	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Source Unknown (N)	X	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently in this Cheshire Reservoir, North Basin AU (MA11002), so the Fish Consumption Use is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No new data are available to assess the status of the Aesthetics Use for Cheshire Reservoir, North Basin (MA11002), so it is Not Assessed. Since the Non-Native Aquatic Plants Alert was redundantly duplicated across multiple uses for this waterbody, the Non-Native Aquatic Plants Alert is being removed from the Aesthetics Use but will continue to be maintained under the Aquatic Life Use as specific non-native species impairments.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary

No new data are available to assess the status of the Primary Contact Recreation Use for Cheshire Reservoir, North Basin (MA11002), so it is Not Assessed. Since the Non-Native Aquatic Plants Alert was redundantly duplicated across multiple uses for this waterbody, the Non-Native Aquatic Plants Alert is being removed from the recreational uses but will continue to be maintained under the Aquatic Life Use as specific non-native species impairments.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No new data are available to assess the status of the Secondary Contact Recreation Use for Cheshire Reservoir, North Basin (MA11002), so it is Not Assessed. Since the Non-Native Aquatic Plants Alert was redundantly duplicated across multiple uses for this waterbody, the Non-Native Aquatic Plants Alert is being removed from the recreational uses but will continue to be maintained under the Aquatic Life Use as specific non-native species impairments.

Cheshire Reservoir, South Basin (MA11019)

Location:	[South Basin] Cheshire/Lanesborough.
AU Type:	FRESHWATER LAKE
AU Size:	92 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Aquatic Plants (Macrophytes)*)	--	Added
5	5	(Curly-leaf Pondweed*)	--	Unchanged
5	5	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
5	5	(Water Chestnut*)	--	Unchanged
5	5	Algae	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Aquatic Plants (Macrophytes)*)	Source Unknown (N)	--	--	X	X	X
(Curly-leaf Pondweed*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
(Eurasian Water Milfoil, Myriophyllum Spicatum*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
(Water Chestnut*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
Algae	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (N)	X	--	X	X	X

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Algae	Source Unknown (N)	X	--	X	X	X

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted in this Cheshire Reservoir, South Basin AU (MA11019), so the Fish Consumption Use is Not Assessed.

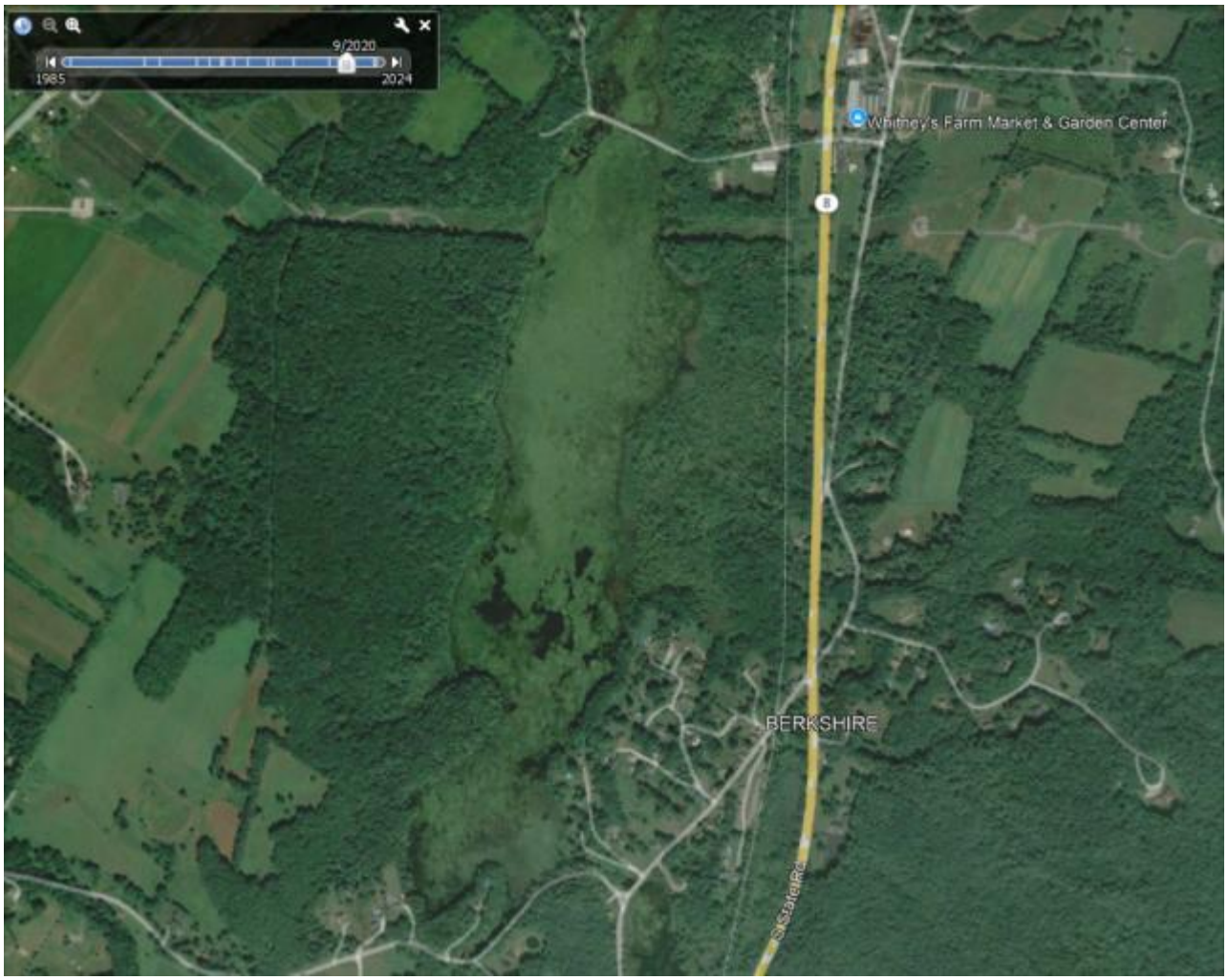
Aesthetic

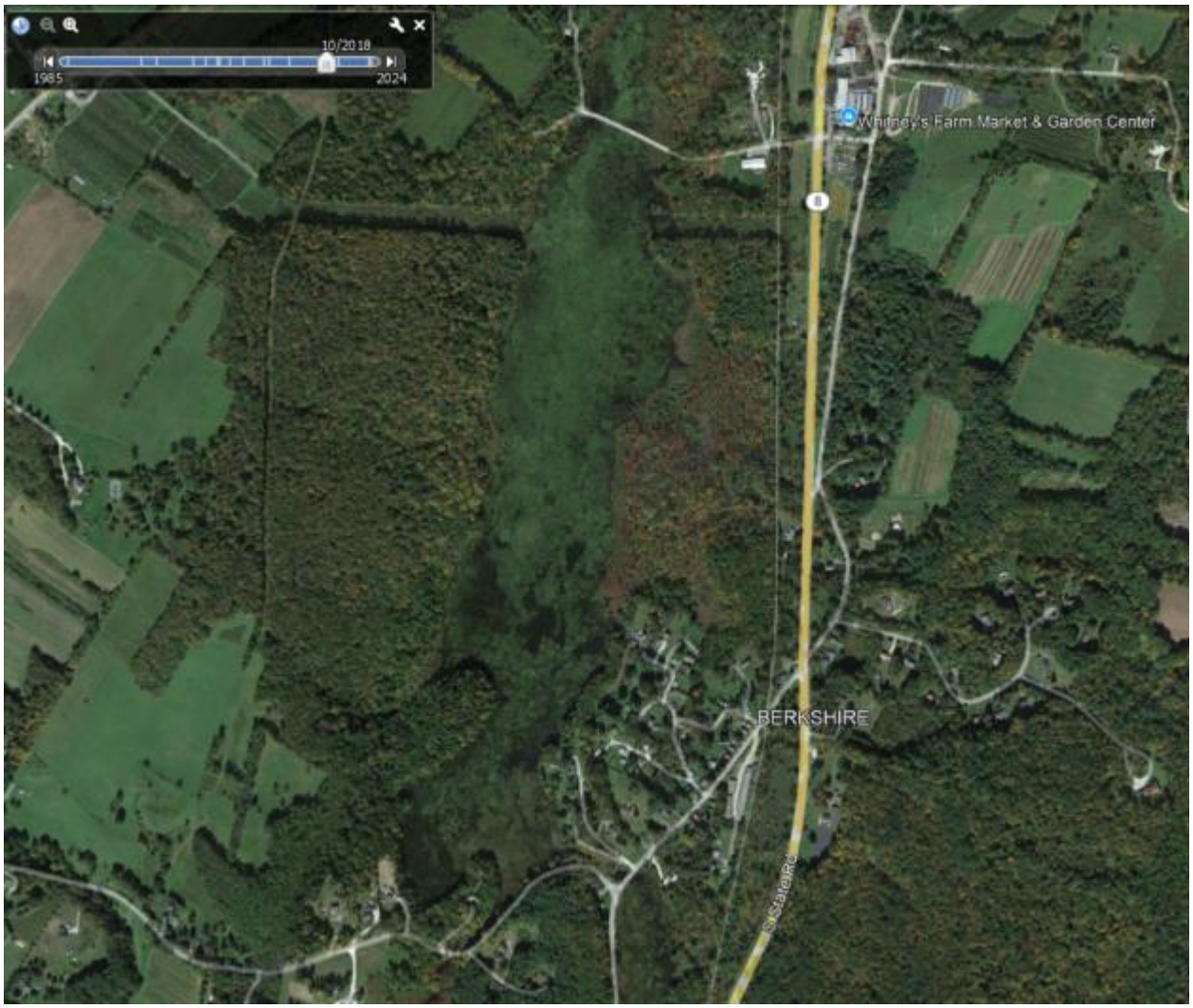
2024/26 Use Attainment	Alert
Not Supporting	NO

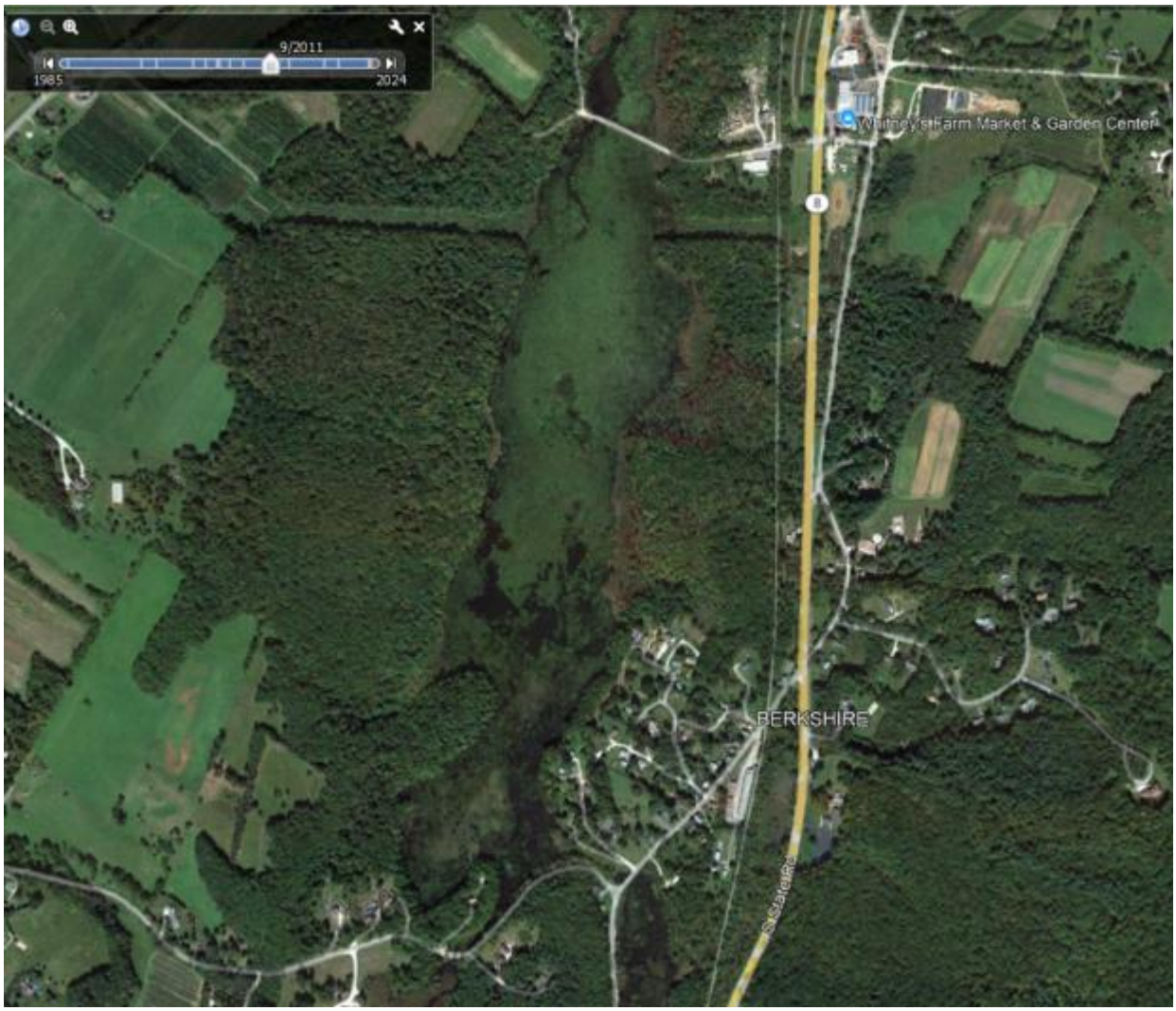
2024/26 Use Attainment Summary
The Aesthetics Use for this Cheshire Reservoir, South Basin AU (MA11019) will continue to be assessed as Not Supporting, with the historic Algae impairment being carried forward and a new Aquatic Plants (Macrophytes) non-pollutant impairment being added. The historic non-native Curly-leaf Pondweed and "Eurasian Water Milfoil, Myriophyllum Spicatum" impairments are being removed and replaced with an Aquatic Plants (Macrophytes) non-pollutant impairment. Since the Curly-leaf Pondweed and "Eurasian Water Milfoil, Myriophyllum Spicatum" impairments were redundantly duplicated across multiple uses for this waterbody, they are being removed from the Aesthetics Use but will continue to be maintained under the Aquatic Life Use. MassDEP staff noted that the entire waterbody was covered with emergent, submergent, and floating vegetation during the August 1997 synoptic survey (including the non-natives mentioned above) and September 2002 lakes baseline survey (specific species not mentioned) (MassDEP 1997, MassDEP 2002), and Google Earth images (Google Earth Pro Undated) from September 2011, October 2018, and September 2020 show >25% of this pond was filled with dense vegetation, so an Aquatic Plants (Macrophytes) non-pollutant impairment is being added in place of the non-native species impairments at this time. No new data are available for the South Basin of Cheshire Reservoir.

Aesthetic Observations

Cheshire Reservoir, South Basin (MA11019) Google Earth Imagery: Pond Outline (2024) Followed by Imagery from 2020, 2018, and 2011 Showing Dense/Very Dense Vegetation Covering >25% of the Pond's Surface (Google Earth Pro Undated)


9/2020
1985
2024
Whitney's Farm Market & Garden Center
8
BERKSHIRE
S State Rd


10/2018
1985
2024
Whitney's Farm Market & Garden Center
BERKSHIRE



Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

No new bacteria data are available for this Cheshire Reservoir, South Basin AU (MA11019), so the Primary Contact Recreation Use will continue to be assessed as Not Supporting with the historic Algae impairment being carried forward. The historic non-native Curly-leaf Pondweed and "Eurasian Water Milfoil, Myriophyllum Spicatum" impairments are being removed and replaced with an Aquatic Plants (Macrophytes) non-pollutant impairment.
Since the Curly-leaf Pondweed and "Eurasian Water Milfoil, Myriophyllum Spicatum" impairments were redundantly duplicated across multiple uses for this waterbody, they are being removed from the recreational uses but will continue to be maintained under the Aquatic Life Use. MassDEP staff noted that the entire waterbody was covered with emergent, submergent, and floating vegetation during the August 1997 synoptic survey (including the non-natives mentioned above) and September 2002 lakes baseline survey (specific species not mentioned) (MassDEP 1997, MassDEP 2002), and Google Earth images (Google Earth Pro Undated) from September 2011, October 2018, and September 2020 show >25% of this pond was filled with dense vegetation, so an Aquatic Plants (Macrophytes) non-pollutant impairment is being added in place of the non-native species impairments at this time.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

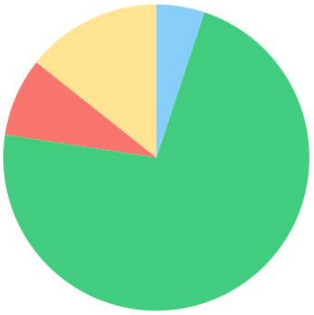
2024/26 Use Attainment Summary
No new bacteria data are available for this Cheshire Reservoir, South Basin AU (MA11019), so the Secondary Contact Recreation Use will continue to be assessed as Not Supporting with the historic Algae impairment being carried forward. The historic non-native Curly-leaf Pondweed and "Eurasian Water Milfoil, Myriophyllum Spicatum" impairments are being removed and replaced with an Aquatic Plants (Macrophytes) non-pollutant impairment. Since the Curly-leaf Pondweed and "Eurasian Water Milfoil, Myriophyllum Spicatum" impairments were redundantly duplicated across multiple uses for this waterbody, they are being removed from the recreational uses but will continue to be maintained under the Aquatic Life Use. MassDEP staff noted that the entire waterbody was covered with emergent, submergent, and floating vegetation during the August 1997 synoptic survey (including the non-natives mentioned above) and September 2002 lakes baseline survey (specific species not mentioned) (MassDEP 1997, MassDEP 2002), and Google Earth images (Google Earth Pro Undated) from September 2011, October 2018, and September 2020 show >25% of this pond was filled with dense vegetation, so an Aquatic Plants (Macrophytes) non-pollutant impairment is being added in place of the non-native species impairments at this time.

Dry Brook (MA11-13)

Location:	Headwaters, west of Jackson Road (in Savoy Wildlife Management Area), Savoy to mouth at confluence with Hoosic River, Adams.
AU Type:	RIVER
AU Size:	6.7 MILES
Classification/Qualifier:	B

Dry Brook (MA11-13)

Watershed Area: 10.49 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	10.49	5.21	2.36	1.19
Agriculture	14.3%	25.5%	11.3%	21.8%
Developed	8.3%	13.6%	9.3%	14%
Natural	72.3%	58.6%	70.1%	59.4%
Wetland	5.1%	2.3%	9.3%	4.7%
Impervious	2.5%	3.9%	3.7%	5.2%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted in Dry Brook (MA11-13), so the Fish Consumption Use is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
There are no data available to assess the status of the Aesthetics Use for Dry Brook (MA11-13), so it is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
There are no bacteria data available to assess the status of the Primary Contact Recreation Use for Dry Brook (MA11-13), so it is Not Assessed.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Dry Brook (MA11-13) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected historic *E. coli* bacteria samples in Dry Brook at W1120 (Leonard St, Adams) from May-Sep 2002 (n=4). Analysis of this limited frequency dataset indicated no intervals had GMs >244 CFU/100mL, no samples exceeded the 794 CFU/100mL STV, and the overall GM was 138 CFU/100mL. Although these data were indicative of good conditions, since they were collected prior to the current IR window (2011-2022), they cannot be used to positively assess the Secondary Contact Recreation Use.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1120	MassDEP	Water Quality	Dry Brook	[Leonard Street , Adams]	42.607465	-73.125659

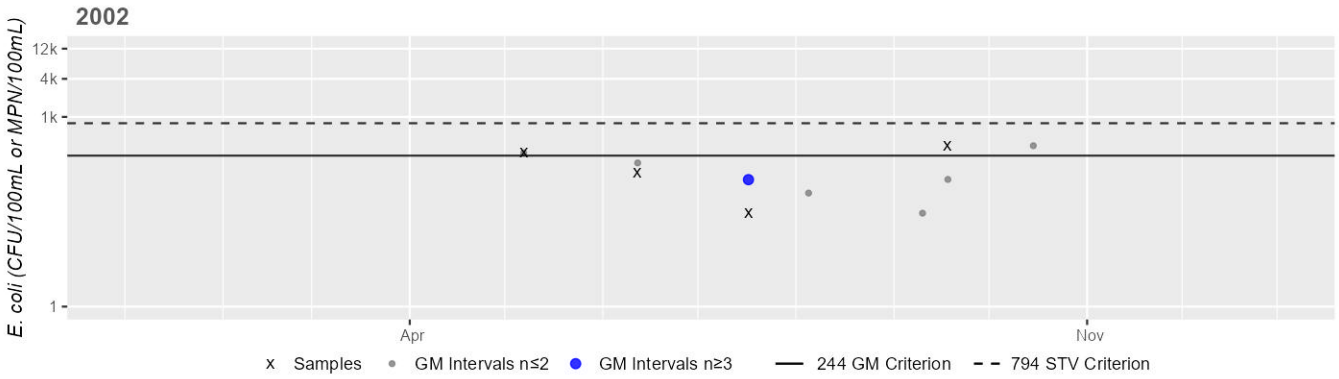
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(MassDEP Undated 6) (MassDEP Undated 3)
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1120	Massachusetts Department of Environmental Protection	E. coli	05/07/02	09/18/02	4	30	350	138

Station MASSDEP_W1120 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	4
SeasGM	138
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

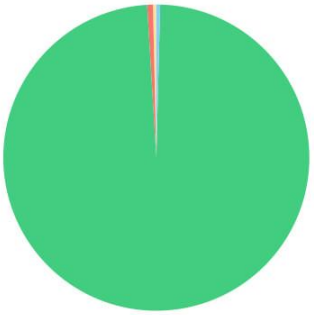
**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

East Branch Green River (MA11-21)

Location:	Headwaters, perennial portion, northeast of Sugarloaf Mountain, New Ashford to mouth at confluence with Green River, New Ashford.
AU Type:	RIVER
AU Size:	2.2 MILES
Classification/Qualifier:	B: CWF

East Branch Green River (MA11-21)

Watershed Area: 3.93 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	3.93	3.89	1.03	1.03
Agriculture	0.3%	0.3%	0.9%	0.9%
Developed	0.6%	0.6%	1.3%	1.3%
Natural	98.6%	98.7%	97%	97%
Wetland	0.4%	0.4%	0.8%	0.8%
Impervious	0.4%	0.4%	0.7%	0.7%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted in the East Branch Green River (MA11-21), so the Fish Consumption Use is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for the East Branch Green River (MA11-21) is assessed as Fully Supporting. MassDEP staff recorded aesthetics observations at one station close to the downstream end of this East Branch Green River AU ~660 feet upstream from the confluence with the Green River in New Ashford (W2298), in summer 2017 (n=5) as part of the Reference Site Network monitoring project. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2298	MassDEP	Water Quality	East Branch Green River	[approximately 660 feet upstream from confluence with Green River, New Ashford]	42.627314	-73.224320

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 4)
[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2298	2017	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2298 on East Branch Green River (MA11-21) during 5 site visits between May 2017 and Sep 2017. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 6) (MassDEP Undated 4)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2298	2017	5	5	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 6)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2298	East Branch Green River	2017	Aesthetics Impaired?	No	5	5

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2298	East Branch Green River	2017	Aquatic Plant Density, Overall	None	5	5
W2298	East Branch Green River	2017	Color	None	5	5
W2298	East Branch Green River	2017	Objectionable Deposits	No	5	5
W2298	East Branch Green River	2017	Odor	None	5	5
W2298	East Branch Green River	2017	Periphyton Density, Filamentous	None	5	5
W2298	East Branch Green River	2017	Periphyton Density, Film	None	5	5
W2298	East Branch Green River	2017	Scum	No	5	5
W2298	East Branch Green River	2017	Turbidity	None	5	5

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
No recent bacteria or other indicator data are available to assess the status of the Primary Contact Recreation Use for the East Branch Green River (MA11-21) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary

No recent bacteria or other indicator data are available to assess the status of the Secondary Contact Recreation Use for the East Branch Green River (MA11-21) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information. MassDEP staff collected historical *E. coli* bacteria samples in the East Branch Green River (MA11-21) at W1553 (~80 ft from the confluence with the Green River in New Ashford (E of Rt. 7, near the Williamstown border)) from Apr-Sep 2007 (n=5). These data were indicative of good water quality conditions (no GMs were >244 CFU/100mL and no samples exceeded the 794 CFU/100mL STV). However, since they were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1553	MassDEP	Water Quality	East Branch Green River	[approximately 80 feet from confluence with the Green River, New Ashford (east of Route 7, near the Williamstown border)]	42.628609	-73.224833

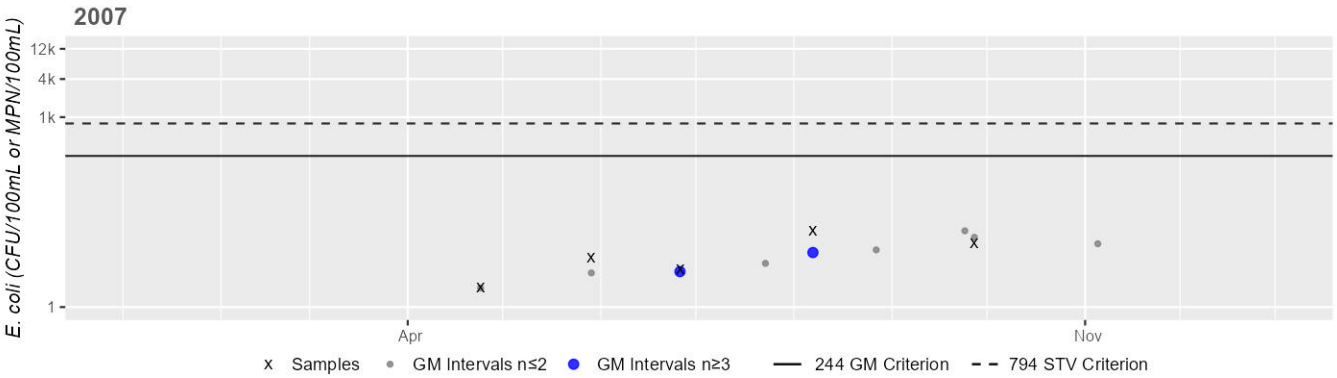
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(MassDEP Undated 6) (MassDEP Undated 3)
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1553	Massachusetts Department of Environmental Protection	E. coli	04/24/07	09/27/07	5	2	16	5

Station MASSDEP_W1553 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	5
#GMI	2
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Gore Brook (MA11-31)

Location:	Headwaters, perennial portion west of Gore Pond outlet, Dalton to mouth at confluence with Cheshire Reservoir, Middle Basin, Cheshire.
AU Type:	RIVER
AU Size:	1.9 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Gore Brook (MA11-31) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

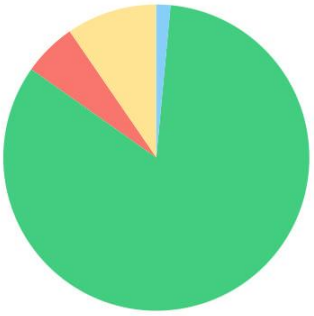
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Green River (MA11-06)

Location:	Headwaters, perennial portion, southwest of Sugarloaf Mountain (west of Ingraham Road), New Ashford to mouth at confluence with Hoosic River, Williamstown.
AU Type:	RIVER
AU Size:	12.5 MILES
Classification/Qualifier:	B: CWF

Green River (MA11-06)

Watershed Area: 43.02 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area* (square miles)	42.41	5.02	10.49	1.39
Agriculture	9.6%	21.1%	10.4%	19.5%
Developed	5.6%	22.5%	7.7%	20.5%
Natural	83.3%	53.8%	77.8%	52.2%
Wetland	1.5%	2.6%	4.1%	7.7%
Impervious	2%	7.9%	2.9%	7.8%

**Land cover analysis only includes watershed area within Massachusetts.*

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Temperature	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Temperature	Agriculture (N)	X	--	--	--	--
Temperature	Loss of Riparian Habitat (N)	X	--	--	--	--
Temperature	Rural (Residential Areas) (N)	X	--	--	--	--
Temperature	Source Unknown (N)	X	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently in the Green River (MA11-06), so the Fish Consumption Use is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for the Green River (MA11-06) is assessed as Fully Supporting based on observations made by MassDEP field staff at W2265 in 2012. MassDEP staff recorded aesthetics observations at one station close to the downstream end of this Green River AU ~2750 feet upstream of the Eastlawn Cemetery access road, east of Water Street (Rt. 43) in Williamstown (W2265) during summer 2012 (n=6). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though grey water color was noted on one occasion.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2265	MassDEP	Water Quality	Green River	[approximately 2750 feet upstream of the Eastlawn Cemetery access road, east of Water Street (Route 43), Williamstown]	42.702898	-73.200198

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 4)
[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2265	2012	6	Aesthetic observations were made by MassDEP field sampling crews at Station W2265 on Green River (MA11-06) during 6 site visits between May 2012 and Sep 2012. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted grey water color (n=1).

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 6) (MassDEP Undated 4)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2265	2012	6	6	1

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 6)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2265	Green River	2012	Aquatic Plant Density, Overall	None	6	6
W2265	Green River	2012	Color	Greyish	1	6
W2265	Green River	2012	Color	None	5	6
W2265	Green River	2012	Objectionable Deposits	No	6	6
W2265	Green River	2012	Odor	None	6	6
W2265	Green River	2012	Periphyton Density, Filamentous	Dense	1	6
W2265	Green River	2012	Periphyton Density, Filamentous	None	4	6
W2265	Green River	2012	Periphyton Density, Filamentous	Sparse	1	6
W2265	Green River	2012	Periphyton Density, Film	Moderate	1	6
W2265	Green River	2012	Periphyton Density, Film	None	3	6
W2265	Green River	2012	Periphyton Density, Film	NR	1	6
W2265	Green River	2012	Periphyton Density, Film	Sparse	1	6
W2265	Green River	2012	Scum	No	5	6
W2265	Green River	2012	Scum	Yes	1	6
W2265	Green River	2012	Turbidity	None	6	6

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for the Green River (MA11-06) is assessed as Fully Supporting based on bacteria data collected in 2017 and 2022 at 7 stations/combined stations. MassDEP and HVA staff/volunteers collected *E. coli* bacteria samples at 8 stations/combined stations along the Green River (MA11-06) from 2012-2022. Samples were collected from the following stations/sample years, described from upstream to downstream: HVA_GR 07.0 (West side of New Ashford Rd, 1/4 mile N of Roys Rd in New Ashford) from Jun-Oct 2017 (n=6), and all other stations in Williamstown including HVA_GR 06.0 (SE side of New Ashford Rd, downstream of overpass) from Jun-Oct 2017 (n=6), HVA_GR 04.0 (South side of Green River Rd at Rest Area) from Jun-Oct 2017 (n=6), HVA_GR 05.0 (East side of Green River Rd, intersection with Mt Hope Farm Rd) from Jun-Oct 2017 (n=6), the combined HVA_GR 03.0 & HVA_GRHR800 station (downstream of Blair Rd overpass & just upstream from car bridge, downstream from a dairy farm) in 2017 and 2022 (n= 6 & 8/yr, respectively), HVA_GR 02.0 (E side of Riverside Park, Water St) from Jun-Oct 2017 (n=6), W2265 (~2750 ft upstream of the Eastlawn Cemetery access Rd, E of Water St (Rt. 43)) from May-Sep 2012 (n=6), and HVA_GR 01.0 (25' downstream of Walley St Bridge) from Jun-Oct 2017 (n=6). Analysis of the mostly limited frequency datasets from these stations indicated that generally there were no intervals with GMs exceeding 126 CFU/100mL (with the exception of HVA_GR 04.0 which had 33% exceedances and the combined HVA_GR 03.0 & HVA_GRHR800 station which had 27% exceedances only in 2022) and generally there were no exceedances of the 410 CFU/100mL STV (the HVA_GR 03.0 & HVA_GRHR800 station had only 1 exceedance in 2022). The W2265 station sampled during the summer of 2012 by MassDEP staff did have 85% of intervals exceed the 126 CFU/100mL GM threshold, but no samples exceeded the 410 CFU/100mL STV and this station was located relatively close to the HVA_GR 02.0 station which did not have any exceedances of either metric among its samples collected more recently (in 2017). Taken as a whole, the *E. coli* data collected in the Green River are indicative of good water quality conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
HVA_GR 01.0	Housatonic Valley Association	Water Quality	Green River	25' downstream of Walley St Bridge. Williamstown	42.70975	-73.194837
HVA_GR 02.0	Housatonic Valley Association	Water Quality	Green River	East side of Riverside Park, Water Street. Williamstown	42.702057	-73.199715
HVA_GR 03.0	Housatonic Valley Association	Water Quality	Green River	Downstream of Blair Rd overpass. Williamstown	42.683518	-73.204507
HVA_GR 04.0	Housatonic Valley Association	Water Quality	Green River	Southside of Green River Rd. @ Rest Area. Williamstown	42.677273	-73.224982
HVA_GR 05.0	Housatonic Valley Association	Water Quality	Green River	Eastside of Green River Rd, intersection Mt Hope Farm Rd. Williamstown	42.670455	-73.224311

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
HVA_GR 06.0	Housatonic Valley Association	Water Quality	Green River	SE side of New Ashford Rd, downstream of overpass. Williamstown	42.643332	-73.233329
HVA_GR 07.0	Housatonic Valley Association	Water Quality	Green River	Westside of New Ashford Road, 1/4 mile north of Roys Road. New Ashford	42.615055	-73.230926
HVA_GRHR800	Housatonic Valley Association	Water Quality	Green River	Just upstream from car bridge. downstream from a dairy farm. Williamstown	42.6834533	-73.2045704
W2265	MassDEP	Water Quality	Green River	[approximately 2750 feet upstream of the Eastlawn Cemetery access road, east of Water Street (Route 43), Williamstown]	42.702898	-73.200198

Bacteria Data

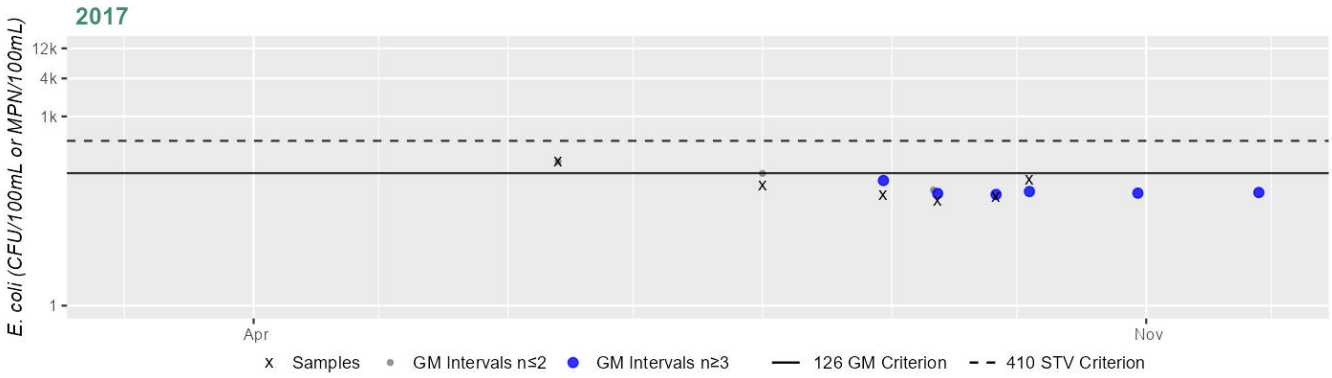
Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (HVA 2022) (MassDEP Undated 2) **(**MassDEP Undated 6) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
HVA_GR 01.0	Housatonic Valley Association	E. coli	06/13/17	10/04/17	6	46	191	77
HVA_GR 02.0	Housatonic Valley Association	E. coli	06/13/17	10/04/17	6	46	235	91
HVA_GR 03.0	Housatonic Valley Association	E. coli	06/13/17	10/04/17	6	42	178	94
HVA_GR 04.0	Housatonic Valley Association	E. coli	06/13/17	10/04/17	6	27	206	85
HVA_GR 05.0	Housatonic Valley Association	E. coli	06/13/17	10/04/17	6	35	214	61
HVA_GR 06.0	Housatonic Valley Association	E. coli	06/13/17	10/04/17	6	9	90	27
HVA_GR 07.0	Housatonic Valley Association	E. coli	06/13/17	10/04/17	6	3	55	17
HVA_GRHR800	Housatonic Valley Association	E. coli	06/16/22	09/22/22	8	24	2419	115
W2265	Massachusetts Department of Environmental Protection	E. coli	05/02/12	09/06/12	6	32	326	141

Station HVA_GR 01.0 & MASSDEP_W0429 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



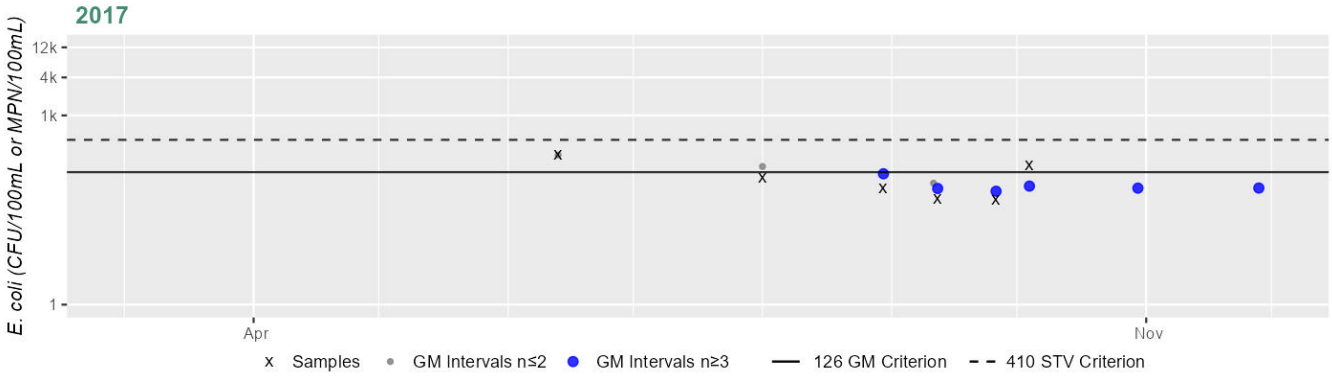
Variable*	Result
Samples	6
SeasGM	77
#GMI	6
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station HVA_GR 02.0 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



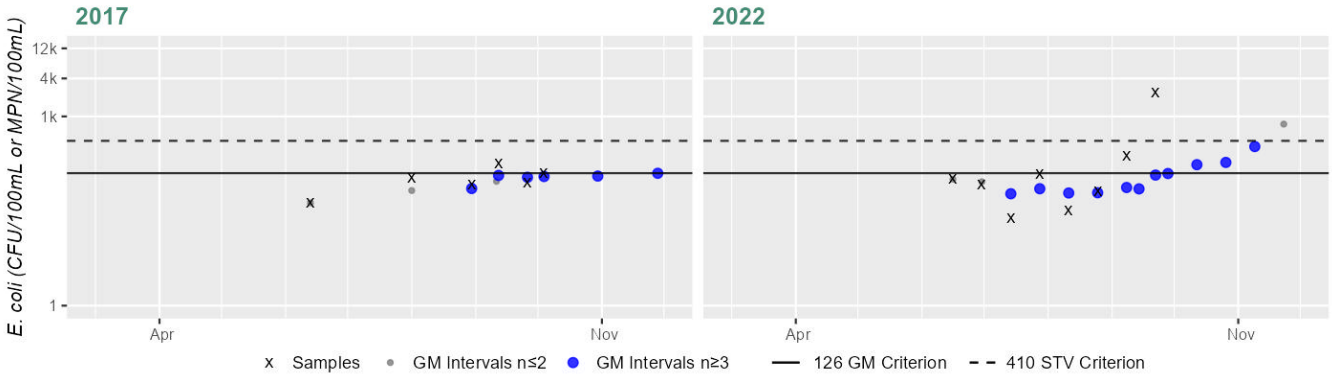
Variable*	Result
Samples	6
SeasGM	91
#GMI	6
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station HVA_GR 03.0 & HVA_GRHR800 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	94
#GMI	6
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

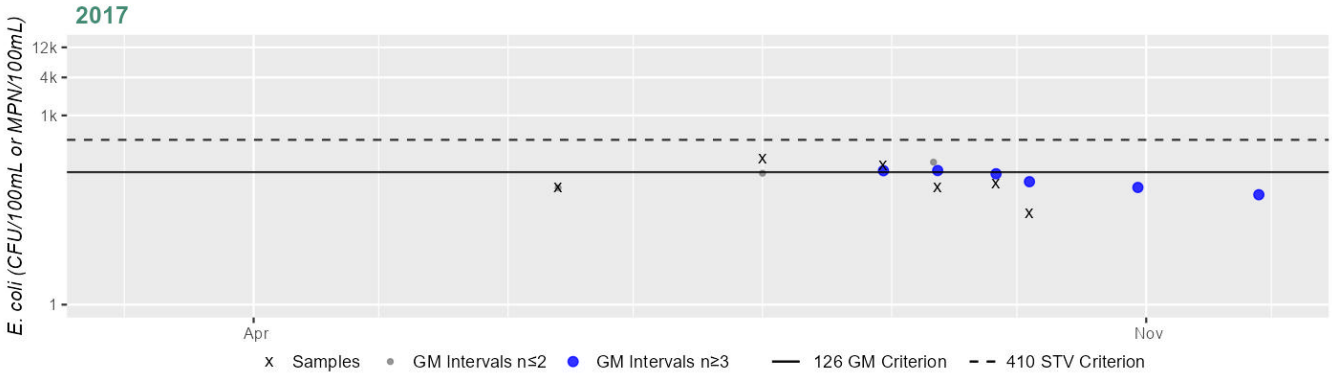
Variable*	Result
Samples	8
SeasGM	115
#GMI	11
#GMI Ex	3
%GMI Ex	27%
n>STV	1
%n>STV	12%

Cumulative %GMI Exceedance
Current (2011-2022)
17%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station HVA_GR 04.0 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



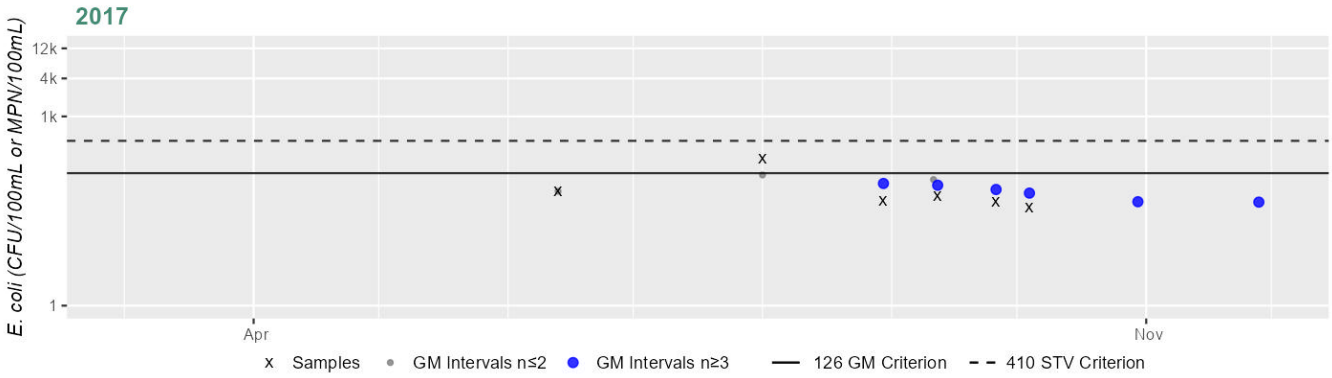
Variable*	Result
Samples	6
SeasGM	85
#GMI	6
#GMI Ex	2
%GMI Ex	33%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
33%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station HVA_GR 05.0 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



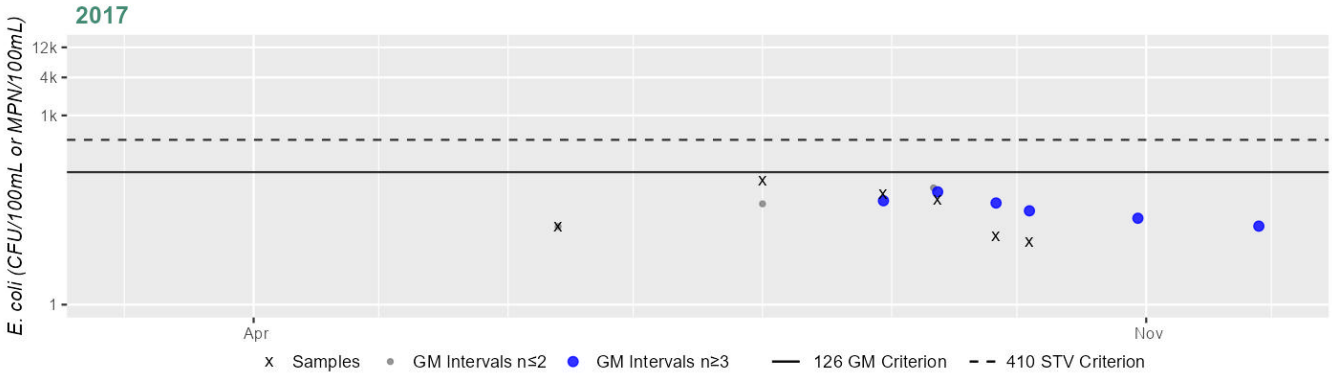
Variable*	Result
Samples	6
SeasGM	61
#GMI	6
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station HVA_GR 06.0 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



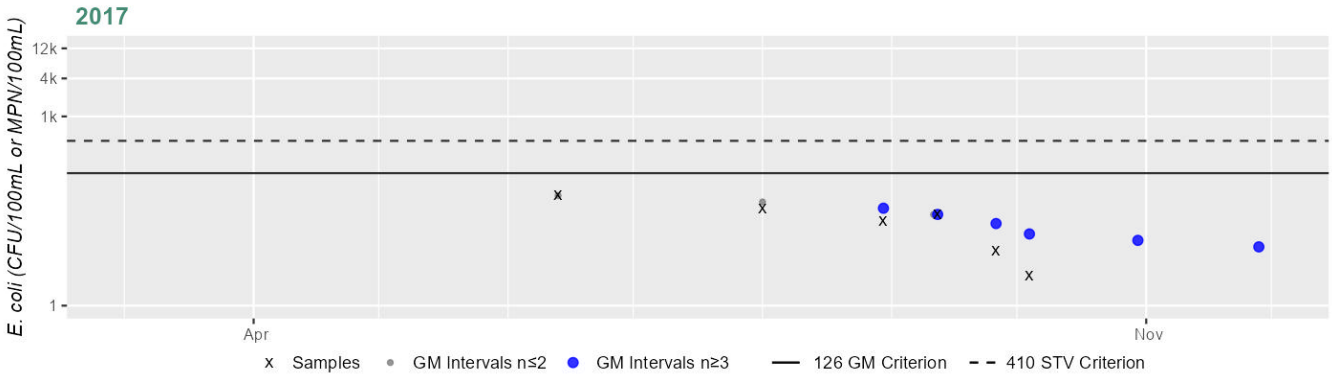
Variable*	Result
Samples	6
SeasGM	27
#GMI	6
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station HVA_GR 07.0 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



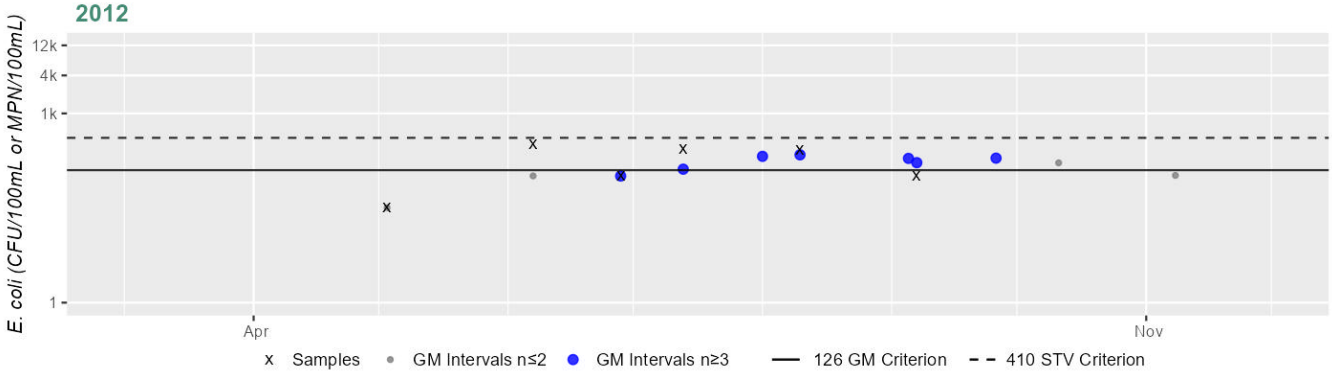
Variable*	Result
Samples	6
SeasGM	17
#GMI	6
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W2265 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	141
#GMI	7
#GMI Ex	6
%GMI Ex	85%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
85%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for the Green River (MA11-06) is assessed as Fully Supporting based on bacteria data collected in 2012, 2017, and 2022 at 8 stations/combined stations.

MassDEP and HVA staff/volunteers collected *E. coli* bacteria samples at 8 stations/combined stations along the Green River (MA11-06) from 2012-2022. Samples were collected from the following stations/sample years, described from upstream to downstream: HVA_GR 07.0 (West side of New Ashford Rd, 1/4 mile N of Roys Rd in New Ashford) from Jun-Oct 2017 (n=6), and all other stations in Williamstown including HVA_GR 06.0 (SE side of New Ashford Rd, downstream of overpass) from Jun-Oct 2017 (n=6), HVA_GR 04.0 (South side of Green River Rd at Rest Area) from Jun-Oct 2017 (n=6), HVA_GR 05.0 (East side of Green River Rd, intersection with Mt Hope Farm Rd) from Jun-Oct 2017 (n=6), the combined HVA_GR 03.0 & HVA_GRHR800 station (downstream of Blair Rd overpass & just upstream from car bridge, downstream from a dairy farm) in 2017 and 2022 (n= 6 & 8/yr, respectively), HVA_GR 02.0 (E side of Riverside Park, Water St) from Jun-Oct 2017 (n=6), W2265 (~2750 ft upstream of the Eastlawn Cemetery access Rd, E of Water St (Rt. 43)) from May-Sep 2012 (n=6), and HVA_GR 01.0 (25' downstream of Walley St Bridge) from Jun-Oct 2017 (n=6). Analysis of the mostly limited frequency datasets from these stations indicated that generally there were no intervals with GMs exceeding 244 CFU/100mL (with the exception of the combined HVA_GR 03.0 & HVA_GRHR800 station which had 9% exceedances only in 2022) and generally there were no exceedances of the 794 CFU/100mL STV (the HVA_GR 03.0 & HVA_GRHR800 station had only 1 exceedance in 2022). Taken as a whole, the *E. coli* data collected in the Green River are indicative of good water quality conditions. Note that *E. coli* data were also collected at multiple stations in the Green River prior to the current IR window (2011-2022), and they were also indicative of good water quality conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
HVA_GR 01.0	Housatonic Valley Association	Water Quality	Green River	25' downstream of Walley St Bridge. Williamstown	42.70975	-73.194837
HVA_GR 02.0	Housatonic Valley Association	Water Quality	Green River	East side of Riverside Park, Water Street. Williamstown	42.702057	-73.199715
HVA_GR 03.0	Housatonic Valley Association	Water Quality	Green River	Downstream of Blair Rd overpass. Williamstown	42.683518	-73.204507
HVA_GR 04.0	Housatonic Valley Association	Water Quality	Green River	Southside of Green River Rd. @ Rest Area. Williamstown	42.677273	-73.224982

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
HVA_GR 05.0	Housatonic Valley Association	Water Quality	Green River	Eastside of Green River Rd, intersection Mt Hope Farm Rd. Williamstown	42.670455	-73.224311
HVA_GR 06.0	Housatonic Valley Association	Water Quality	Green River	SE side of New Ashford Rd, downstream of overpass. Williamstown	42.643332	-73.233329
HVA_GR 07.0	Housatonic Valley Association	Water Quality	Green River	Westside of New Ashford Road, 1/4 mile north of Roys Road. New Ashford	42.615055	-73.230926
HVA_GRHR800	Housatonic Valley Association	Water Quality	Green River	Just upstream from car bridge. downstream from a dairy farm. Williamstown	42.6834533	-73.2045704
W0429	MassDEP	Water Quality	Green River	[approximately 20 feet upstream/southwest of Route 2 bridge, Williamstown.]	42.709662	-73.195049
W1128	MassDEP	Water Quality	Green River	[Route 43 bridge crossing closest to Scott Hill Road, Williamstown]	42.676412	-73.230438
W1129	MassDEP	Water Quality	Green River	[approximately 150 feet downstream of the East Branch Green River confluence, New Ashford]	42.629191	-73.224858
W1130	MassDEP	Water Quality	Green River	[approximately 450 feet upstream of Route 2 bridge, Williamstown]	42.709275	-73.196437
W1555	MassDEP	Water Quality	Green River	[approximately 100 feet upstream of Hopper Road, Williamstown]	42.677927	-73.211483
W2265	MassDEP	Water Quality	Green River	[approximately 2750 feet upstream of the Eastlawn Cemetery access road, east of Water Street (Route 43), Williamstown]	42.702898	-73.200198

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis) (HVA 2022) (MassDEP Undated 1) **(**MassDEP Undated 6) (MassDEP Undated 3)

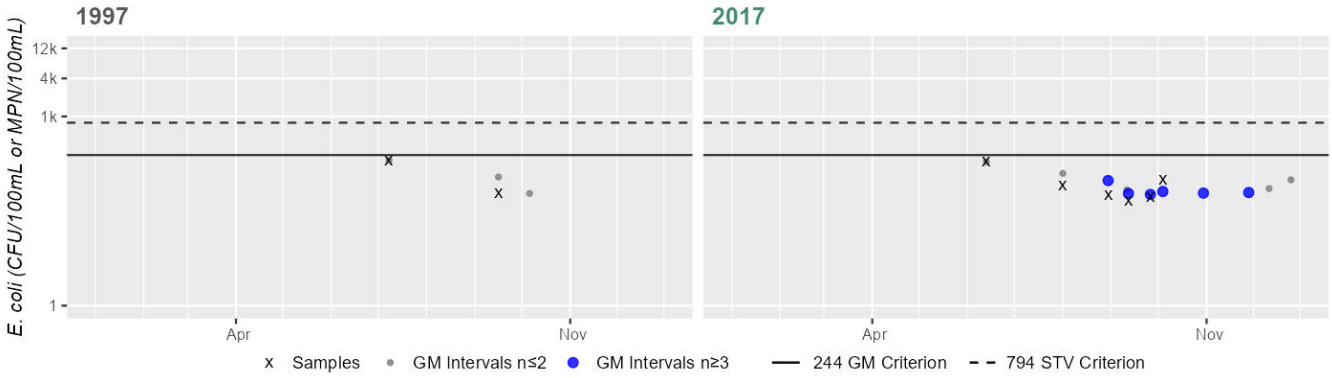
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
HVA_GR 01.0	Housatonic Valley Association	E. coli	06/13/17	10/04/17	6	46	191	77
HVA_GR 02.0	Housatonic Valley Association	E. coli	06/13/17	10/04/17	6	46	235	91
HVA_GR 03.0	Housatonic Valley Association	E. coli	06/13/17	10/04/17	6	42	178	94
HVA_GR 04.0	Housatonic Valley Association	E. coli	06/13/17	10/04/17	6	27	206	85
HVA_GR 05.0	Housatonic Valley Association	E. coli	06/13/17	10/04/17	6	35	214	61
HVA_GR 06.0	Housatonic Valley Association	E. coli	06/13/17	10/04/17	6	9	90	27
HVA_GR 07.0	Housatonic Valley Association	E. coli	06/13/17	10/04/17	6	3	55	17
HVA_GRHR800	Housatonic Valley Association	E. coli	06/16/22	09/22/22	8	24	2419	115

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0429	Massachusetts Department of Environmental Protection	E. coli	07/08/97	09/16/97	2	60	200	109
W1128	Massachusetts Department of Environmental Protection	E. coli	05/07/02	09/18/02	5	20	800	165
W1128	Massachusetts Department of Environmental Protection	E. coli	04/24/07	09/27/07	5	2	132	24
W1129	Massachusetts Department of Environmental Protection	E. coli	05/07/02	09/18/02	5	10	300	34
W1129	Massachusetts Department of Environmental Protection	E. coli	04/24/07	09/27/07	5	4	24	11
W1130	Massachusetts Department of Environmental Protection	E. coli	05/07/02	09/18/02	5	60	1600	201
W1130	Massachusetts Department of Environmental Protection	E. coli	04/24/07	09/27/07	5	2	150	32
W1555	Massachusetts Department of Environmental Protection	E. coli	04/24/07	09/27/07	5	2	220	33
W2265	Massachusetts Department of Environmental Protection	E. coli	05/02/12	09/06/12	6	32	326	141

Station HVA_GR 01.0 & MASSDEP_W0429 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	109
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	77
#GMI	6
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

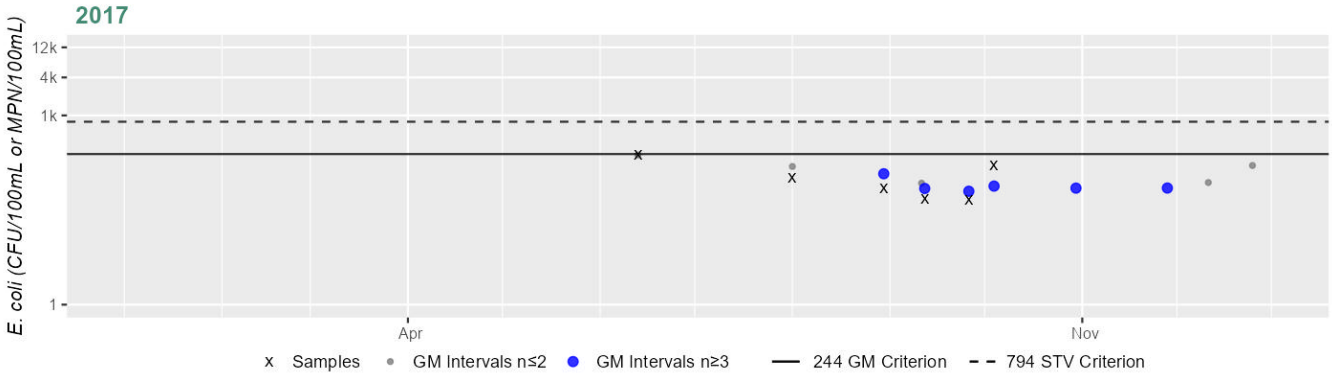
Cumulative %GMI Exceedance
Historic (1997-2010)
0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station HVA_GR 02.0 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



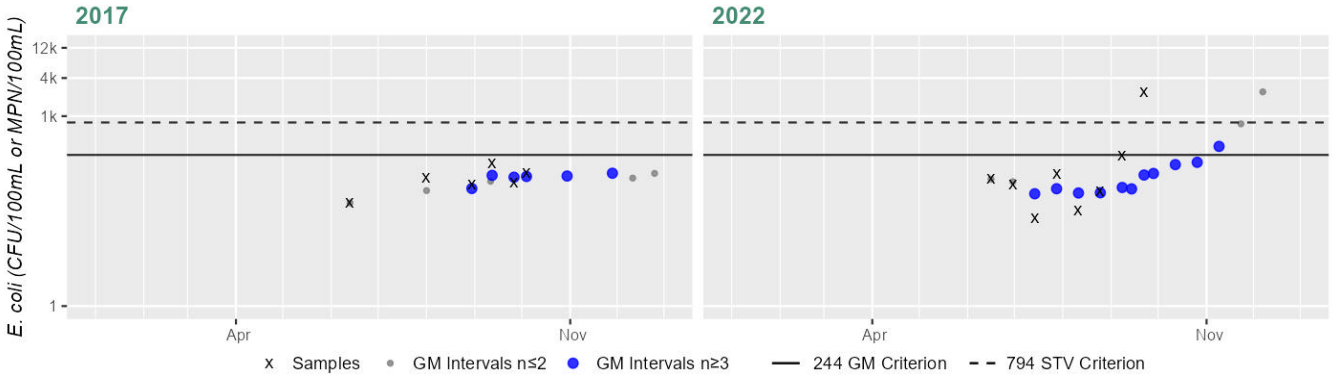
Variable*	Result
Samples	6
SeasGM	91
#GMI	6
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station HVA_GR 03.0 & HVA_GRHR800 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	94
#GMI	6
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

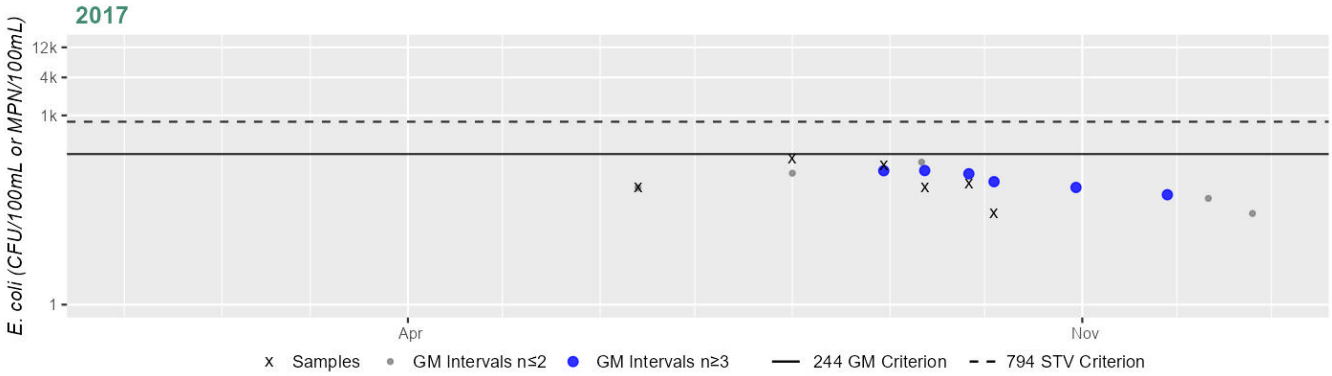
Variable*	Result
Samples	8
SeasGM	115
#GMI	11
#GMI Ex	1
%GMI Ex	9%
n>STV	1
%n>STV	12%

Cumulative %GMI Exceedance
Current (2011-2022)
5%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station HVA_GR 04.0 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



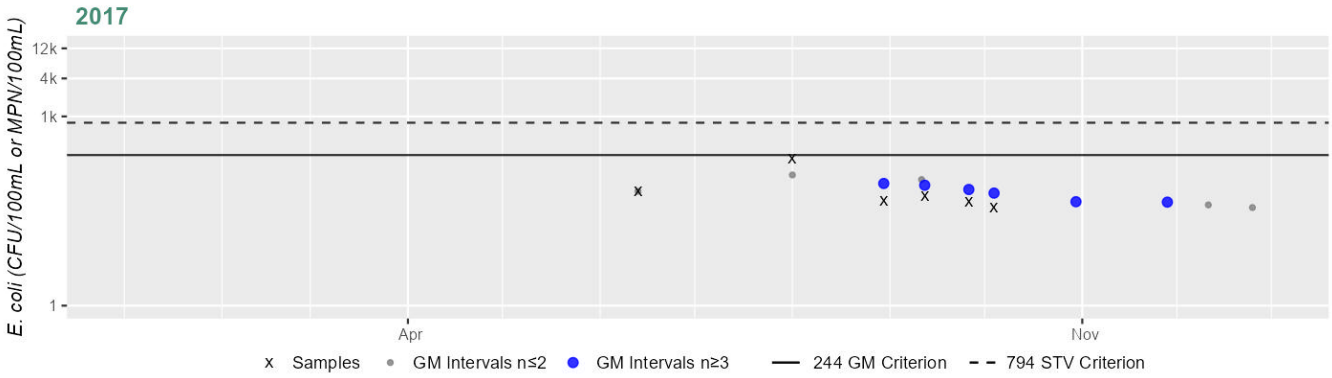
Variable*	Result
Samples	6
SeasGM	85
#GMI	6
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station HVA_GR 05.0 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



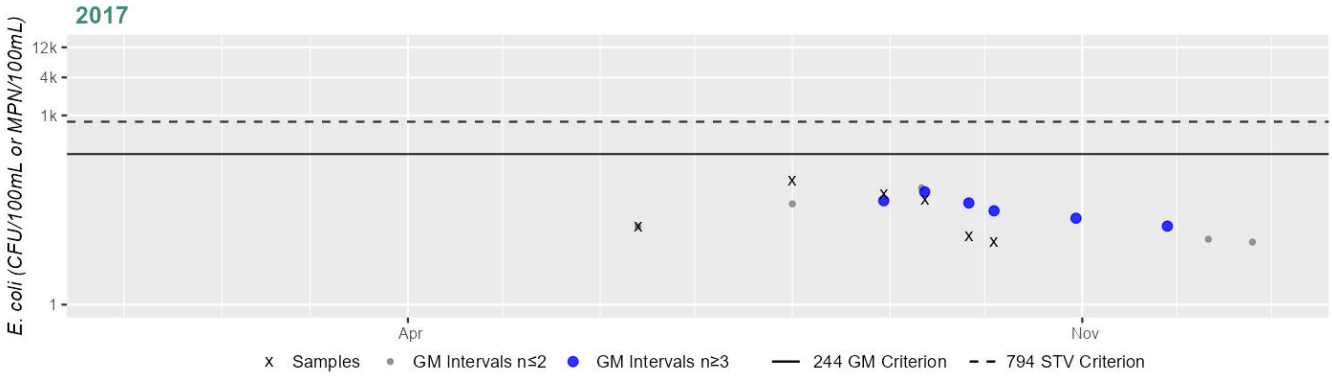
Variable*	Result
Samples	6
SeasGM	61
#GMI	6
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station HVA_GR 06.0 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



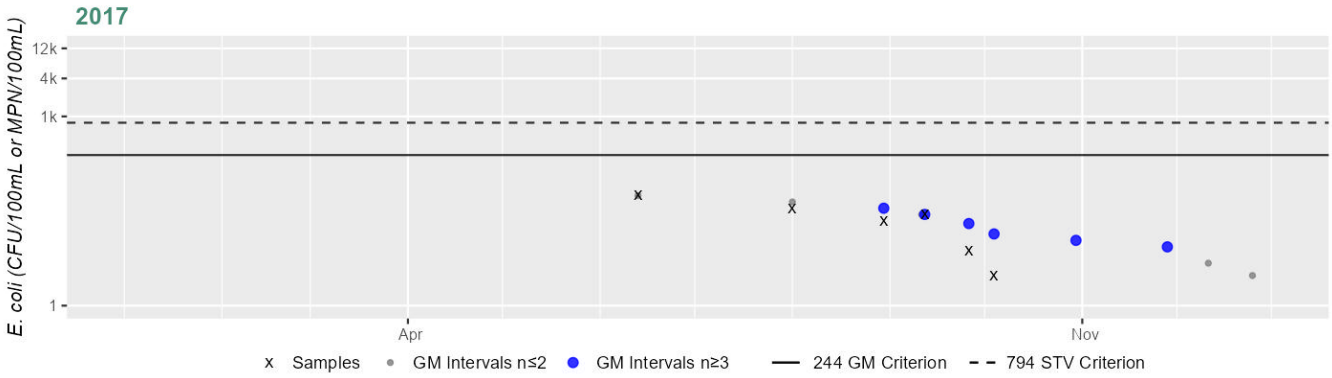
Variable*	Result
Samples	6
SeasGM	27
#GMI	6
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station HVA_GR 07.0 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



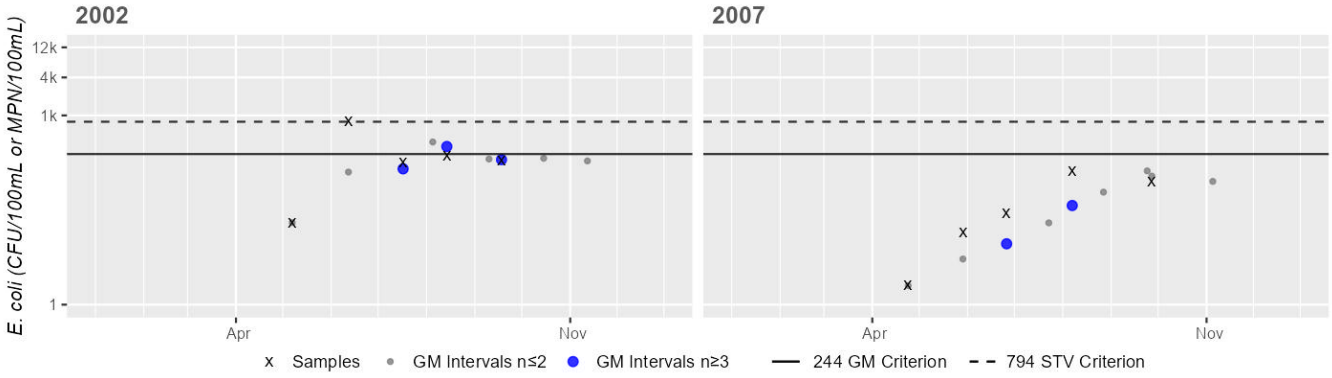
Variable*	Result
Samples	6
SeasGM	17
#GMI	6
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W1128 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	165
#GMI	3
#GMI Ex	1
%GMI Ex	33%
n>STV	1
%n>STV	20%

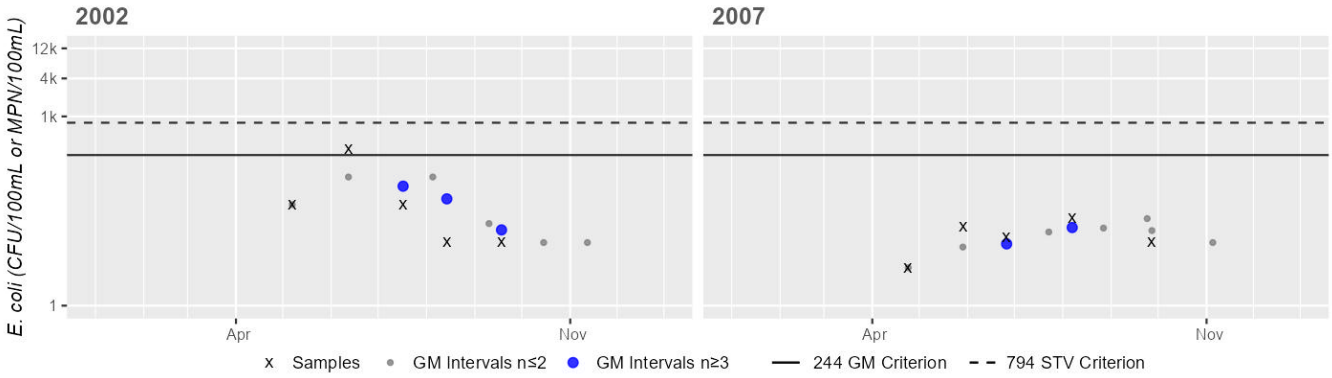
Variable*	Result
Samples	5
SeasGM	24
#GMI	2
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
20%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W1129 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	34
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

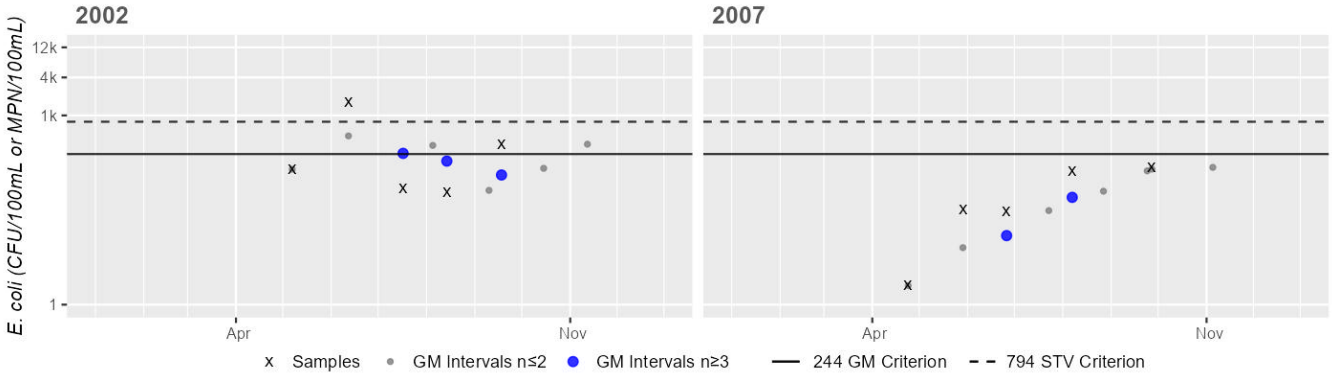
Variable*	Result
Samples	5
SeasGM	11
#GMI	2
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W1130 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	201
#GMI	3
#GMI Ex	1
%GMI Ex	33%
n>STV	1
%n>STV	20%

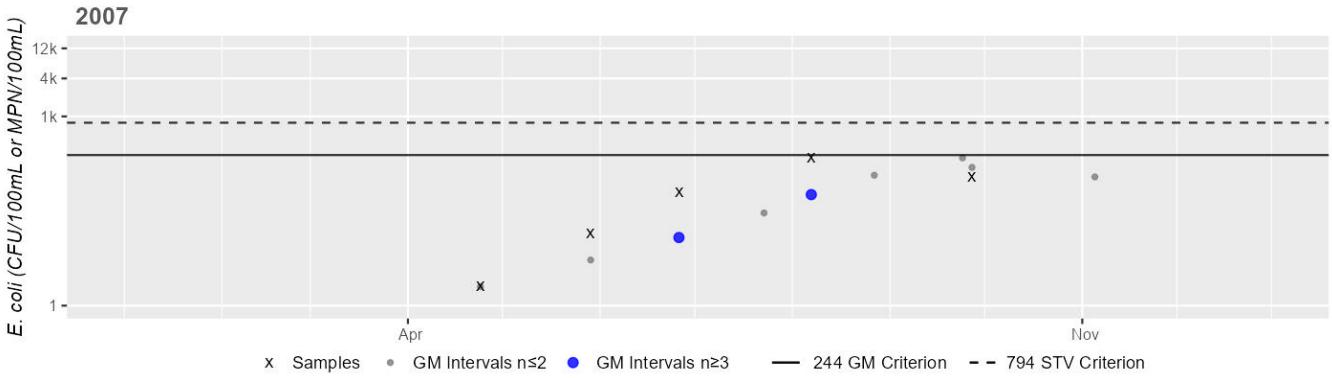
Variable*	Result
Samples	5
SeasGM	32
#GMI	2
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
20%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W1555 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



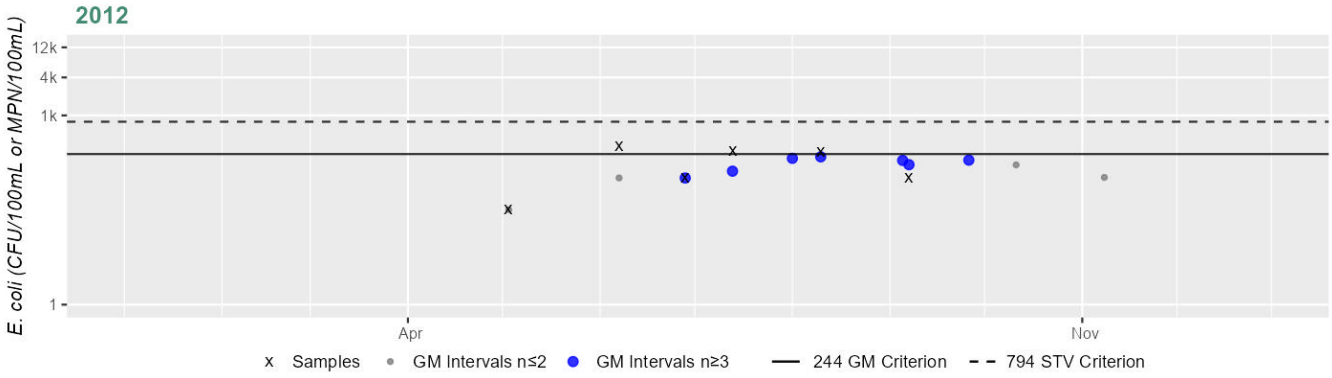
Variable*	Result
Samples	5
SeasGM	33
#GMI	2
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W2265 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	141
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

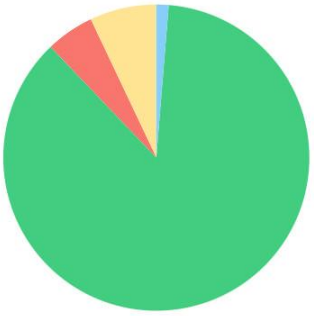
**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Hemlock Brook (MA11-09)

Location:	Headwaters, perennial portion, south of Route 2 in the Taconic Trail State Park, Williamstown to mouth at confluence with the Hoosic River, Wiliamstown.
AU Type:	RIVER
AU Size:	7.1 MILES
Classification/Qualifier:	B: CWF

Hemlock Brook (MA11-09)

Watershed Area: 14.06 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area* (square miles)	13.11	8.74	3.42	2.24
Agriculture	7.1%	6.5%	6.2%	3.4%
Developed	5.1%	5.7%	6.7%	8%
Natural	86.6%	86.5%	85.7%	87.6%
Wetland	1.3%	1.3%	1.4%	1%
Impervious	1.9%	2.3%	2.7%	3.2%

**Land cover analysis only includes watershed area within Massachusetts.*

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently in Hemlock Brook (MA11-09), so the Fish Consumption Use is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Hemlock Brook (MA11-09) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Hemlock Brook (MA11-09) are available, so the Primary Contact Recreation Use is Not Assessed.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Hemlock Brook (MA11-09) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected historical *E. coli* bacteria samples in Hemlock Brook (MA11-09) at W1131 (Bulkley St in Williamstown) from May-Sep 2002 (n=5). Although these data were indicative of good water quality conditions (no intervals had GMs >244 CFU/100mL and no samples exceeded the 794 CFU/100mL STV), since they were collected prior to the current IR window (2011-2022), they cannot be used to positively assess the Secondary Contact Recreation Use.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1131	MassDEP	Water Quality	Hemlock Brook	[Bulkley Street, Williamstown]	42.719499	-73.209674

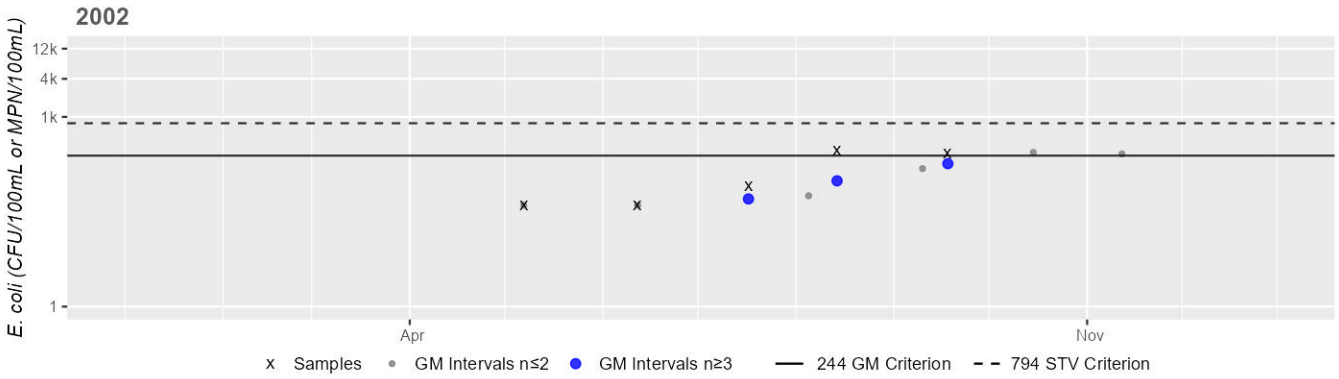
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(MassDEP Undated 6) (MassDEP Undated 3)
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1131	Massachusetts Department of Environmental Protection	E. coli	05/07/02	09/18/02	5	40	290	99

Station MASSDEP_W1131 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	99
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

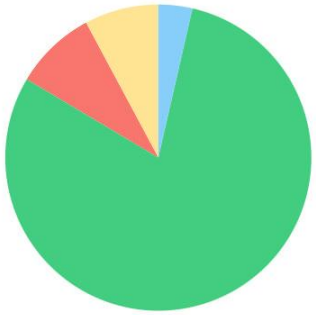
**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Hoosic River (MA11-03)

Location:	Headwaters, outlet Cheshire Reservoir, Cheshire to Adams WWTP discharge (NPDES: MA0100315), Adams.
AU Type:	RIVER
AU Size:	8.8 MILES
Classification/Qualifier:	B: CWF, HQW

Hoosic River (MA11-03)

Watershed Area: 63.92 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	63.92	14.28	20.70	4.85
Agriculture	7.8%	8.1%	4.3%	4.9%
Developed	8.6%	17.1%	8.2%	16.8%
Natural	80%	73.2%	81%	76%
Wetland	3.6%	1.7%	6.5%	2.3%
Impervious	3.2%	6.7%	3.8%	8.7%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Alteration in Stream-side or Littoral Vegetative Covers*)	--	Unchanged
5	5	(Flow Regime Modification*)	--	Unchanged
5	5	(Other Anthropogenic substrate Alterations*)	--	Unchanged
5	5	Ambient Bioassays - Chronic Aquatic Toxicity	--	Unchanged
5	5	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed
5	5	Fecal Coliform	R1_MA_2024_04	Changed
5	5	Temperature	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Alteration in Stream-side or Littoral Vegetative Covers*)	Channelization (Y)	X	--	--	--	--
(Alteration in Stream-side or Littoral Vegetative Covers*)	Streambank Modifications/Destabilization (Y)	X	--	--	--	--
(Flow Regime Modification*)	Channelization (Y)	X	--	--	--	--
(Flow Regime Modification*)	Streambank Modifications/Destabilization (Y)	X	--	--	--	--
(Other Anthropogenic substrate Alterations*)	Channelization (Y)	X	--	--	--	--
(Other Anthropogenic substrate Alterations*)	Streambank Modifications/Destabilization (Y)	X	--	--	--	--
Ambient Bioassays - Chronic Aquatic Toxicity	Source Unknown (N)	X	--	--	--	--
Escherichia Coli (E. Coli)	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	--	--	--	X	--
Escherichia Coli (E. Coli)	Illicit Connections/Hook-ups to Storm Sewers (N)	--	--	--	X	--
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	--
Escherichia Coli (E. Coli)	Waterfowl (N)	--	--	--	X	--
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	--	--	--	X	--
Fecal Coliform	Illicit Connections/Hook-ups to Storm Sewers (N)	--	--	--	X	--
Fecal Coliform	Source Unknown (N)	--	--	--	X	--
Fecal Coliform	Waterfowl (N)	--	--	--	X	--
Temperature	Dam or Impoundment (Y)	X	--	--	--	--

Supporting Information for Removed Impairments

2022 Removed Impairment	Removal Reason	Removal Comment
Escherichia Coli (E. Coli)	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: Massachusetts Statewide TMDL for Pathogen-Impaired Waterbodies (Report CN 515.1, approved 2/13/2024, ATTAINS Action ID: R1_MA_2024_04)
Fecal Coliform	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: Massachusetts Statewide TMDL for Pathogen-Impaired Waterbodies (Report CN 515.1, approved 2/13/2024, ATTAINS Action ID: R1_MA_2024_04)

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently in this Hoosic River AU (MA11-03), so the Fish Consumption Use is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
There are no data available to assess the status of the Aesthetics Use for this Hoosic River AU (MA11-03), so it is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

While surface water samples collected at one station (USGS-01331393) in this Hoosic River AU (MA11-03) did not contain elevated PFAS concentrations, there are no bacteria data available for this AU, so the Primary Contact Recreation Use continues to be assessed as Not Supporting with the prior Escherichia coli (E. coli) and Fecal Coliform impairments being carried forward. Surface water sampling was conducted by the USGS on this Hoosic River AU (MA11-03) at station USGS-01331393 near Grove Street, Adams, MA on three dates during September to October 2020 as part of a MassDEP funded project to evaluate 24 PFAS analytes in ambient water samples upstream and downstream of wastewater treatment facilities (however, this station was not associated with a WWTF). The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS) were all less than the 90 ng/L (ppt) recreational screening value (HFPO-DA/GenX was not analyzed in this study).

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
USGS-01331393	U.S. Geological Survey	Water Quality	Hoosic River	HOOSIC RIVER NEAR GROVE STREET, ADAMS, MA; no WWTF	42.601000	-73.138000

Other Indicators

Summary Statement(s) for USGS 2020 PFAS in Water Column Data (Savoie and Argue 2023) (MassDEP Undated 2)

Summary
Surface water sampling was conducted by the USGS on this Hoosic River AU (MA11-03) at station USGS-01331393 near Grove Street, Adams, MA on three dates during September to October 2020 as part of a MassDEP funded project to evaluate 24 PFAS analytes in ambient water samples upstream and downstream of wastewater treatment facilities (however, this station was not associated with a WWTF). The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS) were all less than the 90 ng/L (ppt) recreational screening value (HFPO-DA/GenX was not analyzed in this study).

USGS 2020 PFAS in Water Column Data Collected Upstream and Downstream of Wastewater Treatment Facilities (Savoie and Argue 2023) (MassDEP Undated 2)

[The ∑PFAS6 equals the sum of PFOA, PFOS, PFNA, PFHxS, PFDA, PFHpA (not all shown individually here). * indicates the ∑PFAS6 concentration is qualified since data for one or more individual PFAS6 analytes were qualified. A concentration with a "<" was less than the reporting detection limit (RDL) and the RDL was used to calculate the ΣPFAS6. E = qualifier "value is estimated"; V = qualifier "value affected by field or laboratory contamination"]

Station Code	Sample Date	PFOA ng/L	PFOS ng/L	PFNA ng/L	PFHxS ng/L	PFBA ng/L	PFBS ng/L	ΣPFAS6 ng/L
USGS-01331393	9/1/2020	E0.985	E1.11	<1.88	E0.417	E0.609	E0.481	6.7*
USGS-01331393	9/23/2020	E0.708	E0.966	<1.82	E0.4	<1.82	E0.334	6.1*
USGS-01331393	10/26/2020	E0.728	E0.786	<1.92	<1.92	E0.648	E0.33	7.6*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for this Hoosic River AU (MA11-03) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected historic *E. coli* bacteria samples in this Hoosic River AU (MA11-03) from 1997-2007 at 4 stations. Samples were collected from the following stations/sample years from upstream to downstream: W0425 (downstream/E at Rt. 8 near outlet Cheshire Reservoir, Cheshire) from Jul-Sep 1997 (n=2), W1549 (Church St, Cheshire) from Apr-Sep 2007 (n=5), W1744 (at footbridge W off Murray St, Adams) from Aug-Sep 2007 (n=2), W0426 (~50 ft upstream of Lime St bridge, Adams (downstream of gated storm valve and ~2050 ft upstream of Adams WWTP (MA0100315) discharge)) in 1997, 2002, and 2007 (n=1-5/yr). Historic *E. coli* data from W1549 and W0426 were generally indicative of good water quality conditions, while data from W0425 and W1744 were too limited to assess according to the 2024 CALM. Since no recent data are available in the current IR window (2011-2022), the Secondary Contact Recreation Use for this Hoosic River AU (MA11-03) cannot be positively assessed.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0425	MassDEP	Water Quality	Hoosic River	[downstream/east at Route 8 near outlet Cheshire Reservoir, Cheshire.]	42.553864	-73.165099
W0426	MassDEP	Water Quality	Hoosic River	[approximately 50 feet upstream of Lime Street bridge, Adams. (downstream of gated storm valve) (approximately 2050 feet upstream of Adams WWTP (MA0100315) discharge)]	42.639457	-73.108631
W1549	MassDEP	Water Quality	Hoosic River	[Church Street, Cheshire]	42.561841	-73.156021
W1744	MassDEP	Water Quality	Hoosic River	[at footbridge west off Murray Street, Adams]	42.628998	-73.115050

Bacteria Data

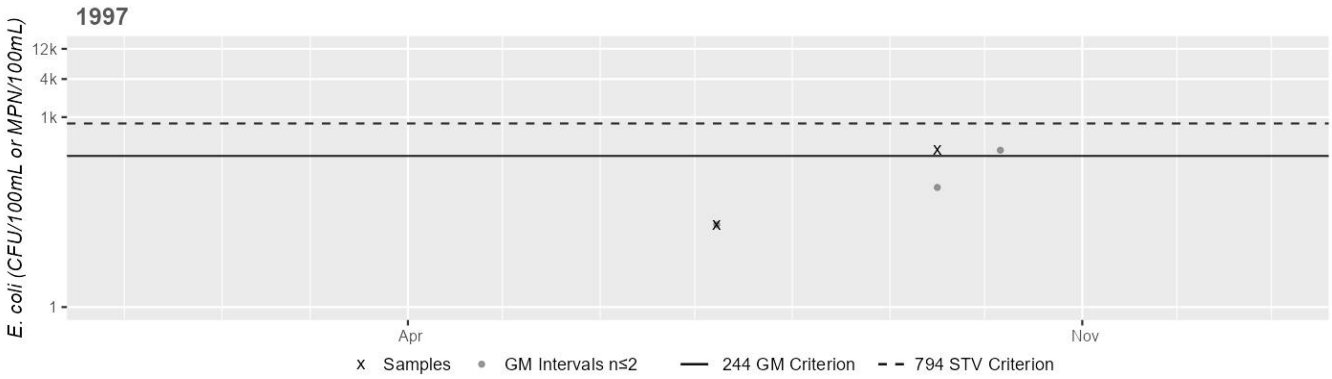
Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(MassDEP Undated 6) (MassDEP Undated 3)
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0425	Massachusetts Department of Environmental Protection	E. coli	07/08/97	09/16/97	2	20	300	77

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0426	Massachusetts Department of Environmental Protection	E. coli	07/08/97	07/08/97	1	180	180	180
W0426	Massachusetts Department of Environmental Protection	E. coli	05/07/02	09/18/02	5	230	1350	720
W0426	Massachusetts Department of Environmental Protection	E. coli	04/24/07	09/27/07	5	132	388	225
W1549	Massachusetts Department of Environmental Protection	E. coli	04/24/07	09/27/07	5	8	344	94
W1744	Massachusetts Department of Environmental Protection	E. coli	08/21/07	09/27/07	2	260	660	414

Station MASSDEP_W0425 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



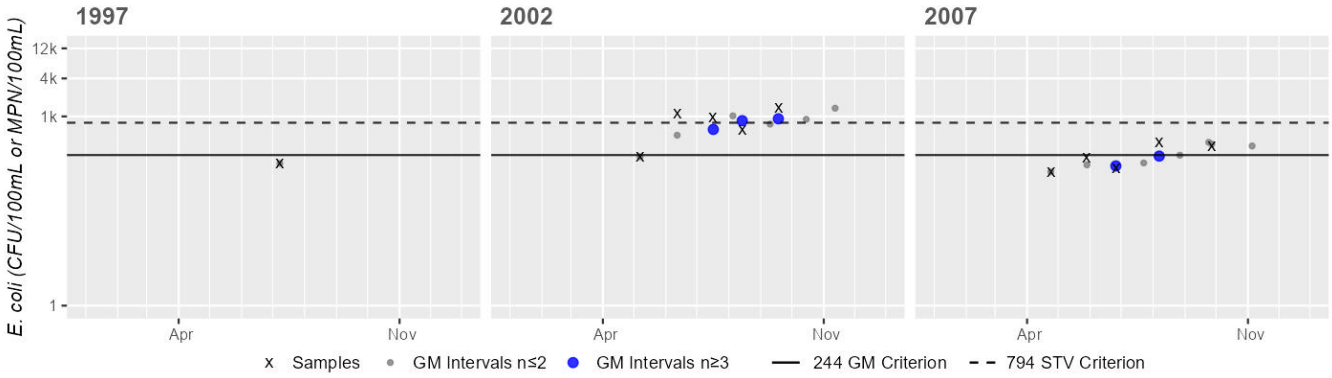
Variable*	Result
Samples	2
SeasGM	77
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W0426 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	1
SeasGM	180
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	5
SeasGM	720
#GMI	3
#GMI Ex	3
%GMI Ex	100%
n>STV	3
%n>STV	60%

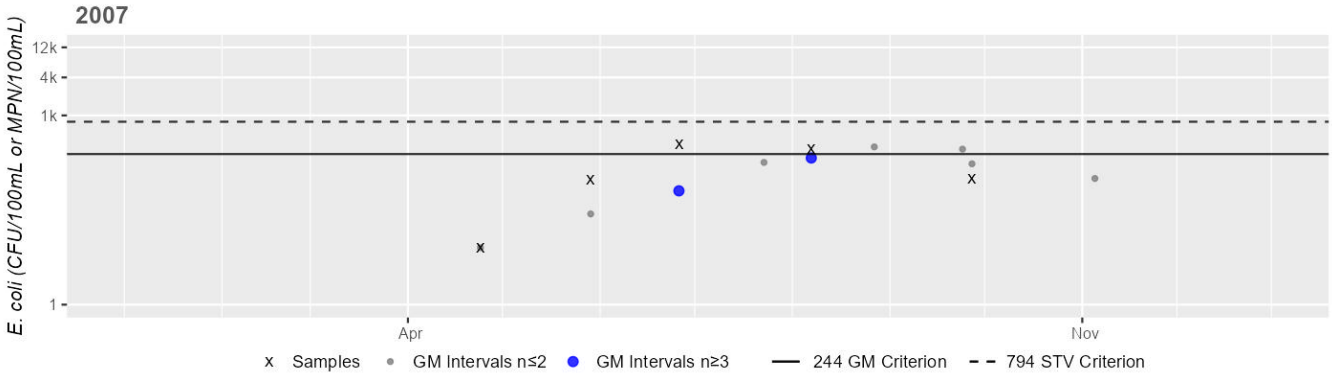
Variable*	Result
Samples	5
SeasGM	225
#GMI	2
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
60%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W1549 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



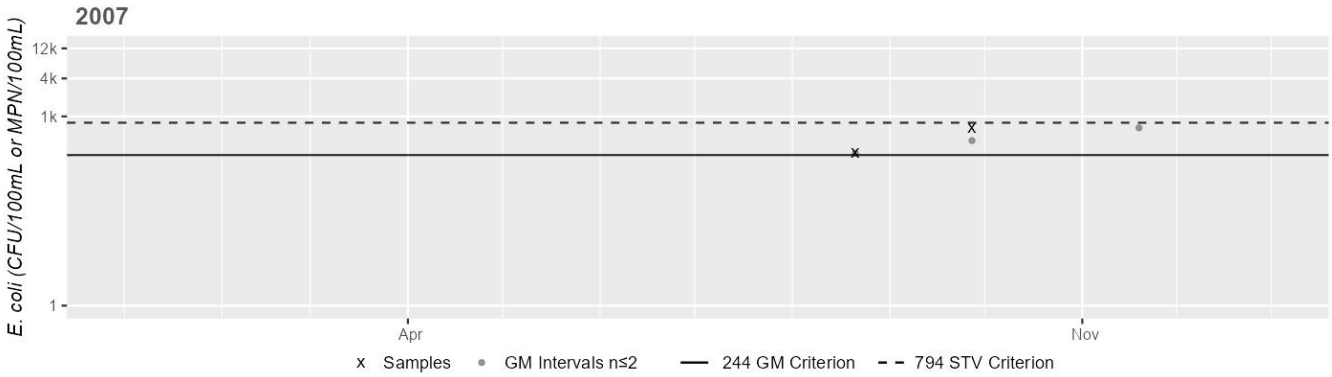
Variable*	Result
Samples	5
SeasGM	94
#GMI	2
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W1744 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	414
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

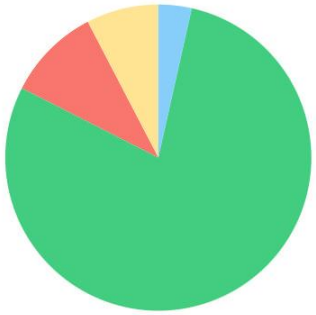
**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Hoosic River (MA11-04)

Location:	Adams WWTP discharge (NPDES: MA0100315), Adams to confluence with North Branch Hoosic River, North Adams.
AU Type:	RIVER
AU Size:	5.4 MILES
Classification/Qualifier:	B: WWF

Hoosic River (MA11-04)

Watershed Area: 74.59 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	74.59	7.20	23.94	2.29
Agriculture	7.6%	3.2%	4.9%	5%
Developed	9.9%	20.8%	8.8%	15.5%
Natural	79%	72.5%	79.8%	72.3%
Wetland	3.5%	3.5%	6.4%	7.2%
Impervious	4%	10.8%	4.1%	7.9%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Alteration in Stream-side or Littoral Vegetative Covers*)	--	Unchanged
5	5	(Flow Regime Modification*)	--	Unchanged
5	5	Benthic Macroinvertebrates	--	Unchanged
5	5	Escherichia Coli (E. Coli)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Alteration in Stream-side or Littoral Vegetative Covers*)	Channelization (Y)	X	--	--	--	--
(Alteration in Stream-side or Littoral Vegetative Covers*)	Streambank Modifications/Destabilization (Y)	X	--	--	--	--
(Flow Regime Modification*)	Channelization (Y)	X	--	--	--	--
(Flow Regime Modification*)	Streambank Modifications/Destabilization (Y)	X	--	--	--	--
Benthic Macroinvertebrates	Source Unknown (N)	X	--	--	--	--
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	X

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted in this Hoosic River AU (MA11-04) recently, so the Fish Consumption Use is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for this Hoosic River AU (MA11-04) is assessed as Fully Supporting based on observations made by MassDEP field staff at two stations in 2012. MassDEP staff recorded aesthetics observations at two stations in North Adams approximately halfway down this Hoosic River AU ~1625 feet upstream of Hodges Cross Rd (Rt. 8A) (W2268) in summer 2012 (n=6) and ~1900 feet downstream of Hodges Cross Rd (Rt. 8A) (W2261) in summer 2012 (n=6). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though minor trash was noted on two occasions at W2268.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2261	MassDEP	Water Quality	Hoosic River	[approximately 1900 feet downstream of Hodges Cross Road (Route 8A), North Adams]	42.669542	-73.103711
W2268	MassDEP	Water Quality	Hoosic River	[approximately 1625 feet upstream of Hodges Cross Road (Route 8A), North Adams]	42.661126	-73.103811

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 4)
[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2261	2012	6	Aesthetic observations were made by MassDEP field sampling crews at Station W2261 on Hoosic River (MA11-04) during 6 site visits between May 2012 and Sep 2012. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2268	2012	6	Aesthetic observations were made by MassDEP field sampling crews at Station W2268 on Hoosic River (MA11-04) during 6 site visits between May 2012 and Sep 2012. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted objectionable deposits (n=2).

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 6) (MassDEP Undated 4)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2261	2012	6	6	0
W2268	2012	6	6	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 6)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2261	Hoosic River	2012	Aquatic Plant Density, Overall	None	6	6
W2261	Hoosic River	2012	Color	Light Yellow/Tan	2	6
W2261	Hoosic River	2012	Color	None	4	6
W2261	Hoosic River	2012	Objectionable Deposits	No	6	6
W2261	Hoosic River	2012	Odor	Effluent (Treated)	1	6
W2261	Hoosic River	2012	Odor	None	5	6

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2261	Hoosic River	2012	Periphyton Density, Filamentous	None	6	6
W2261	Hoosic River	2012	Periphyton Density, Film	None	6	6
W2261	Hoosic River	2012	Scum	No	6	6
W2261	Hoosic River	2012	Turbidity	Moderately Turbid	1	6
W2261	Hoosic River	2012	Turbidity	None	5	6
W2268	Hoosic River	2012	Aquatic Plant Density, Overall	None	6	6
W2268	Hoosic River	2012	Color	Light Yellow/Tan	3	6
W2268	Hoosic River	2012	Color	None	3	6
W2268	Hoosic River	2012	Objectionable Deposits	No	4	6
W2268	Hoosic River	2012	Objectionable Deposits	Yes	2	6
W2268	Hoosic River	2012	Odor	Effluent (Treated)	1	6
W2268	Hoosic River	2012	Odor	Musty (Basement)	1	6
W2268	Hoosic River	2012	Odor	None	4	6
W2268	Hoosic River	2012	Periphyton Density, Filamentous	None	6	6
W2268	Hoosic River	2012	Periphyton Density, Film	None	5	6
W2268	Hoosic River	2012	Periphyton Density, Film	Sparse	1	6
W2268	Hoosic River	2012	Scum	No	5	6
W2268	Hoosic River	2012	Scum	Yes	1	6
W2268	Hoosic River	2012	Turbidity	Moderately Turbid	1	6
W2268	Hoosic River	2012	Turbidity	None	4	6
W2268	Hoosic River	2012	Turbidity	Slightly Turbid	1	6

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for the Hoosic River (MA11-04) continues to be assessed as Not Supporting. The prior Escherichia Coli (E. Coli) impairment is being carried forward based on bacteria data collected in 2012 at W2268 and W2261.
MassDEP staff collected *E. coli* bacteria samples in this Hoosic River AU (MA11-04) in 2012 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: W2268 (~1625 ft upstream of Hodges Cross Rd (Rt. 8A), North Adams) from May-Sep 2012 (n=6) and W2261 (~1900 ft downstream of Hodges Cross Rd (Rt. 8A), North Adams) from May-Sep 2012 (n=6). Analysis of these single year, limited frequency datasets indicated 100% of the intervals had GMs >126 CFU/100mL and three samples from each site exceeded the 410 CFU/100mL STV. The seasonal GMs were 394 and 405 CFU/100mL at the up and downstream sites, respectively. These data are indicative of an *E. coli* impairment.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2261	MassDEP	Water Quality	Hoosic River	[approximately 1900 feet downstream of Hodges Cross Road (Route 8A), North Adams]	42.669542	-73.103711
W2268	MassDEP	Water Quality	Hoosic River	[approximately 1625 feet upstream of Hodges Cross Road (Route 8A), North Adams]	42.661126	-73.103811

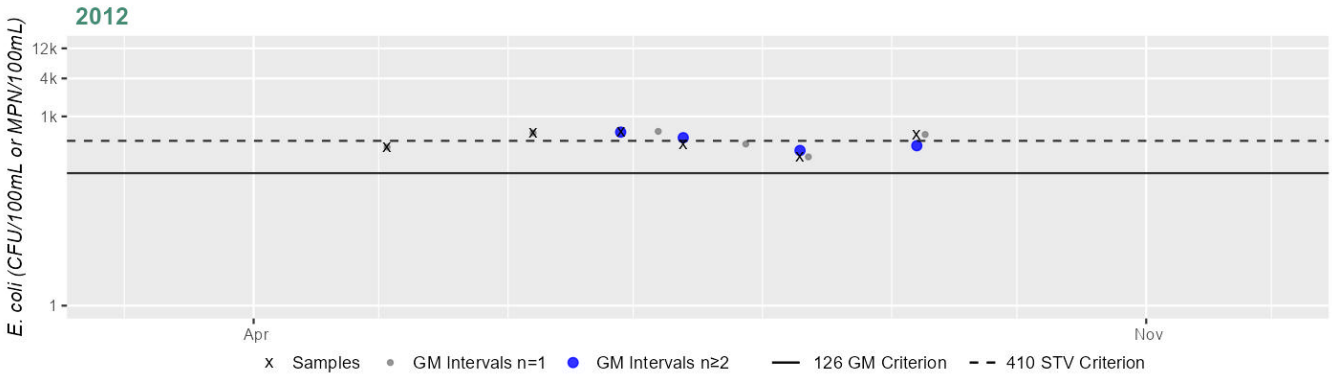
Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (30-day Interval Analysis)
(MassDEP Undated 6) **(**MassDEP Undated 4)
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2261	MassDEP	E. coli	05/02/12	09/06/12	6	228	579	405
W2268	MassDEP	E. coli	05/02/12	09/06/12	6	173	613	394

Station MASSDEP_W2261 - Escherichia coli

Daily Maximum Samples & 30 Day Geometric Means within the Primary Contact Recreation Season



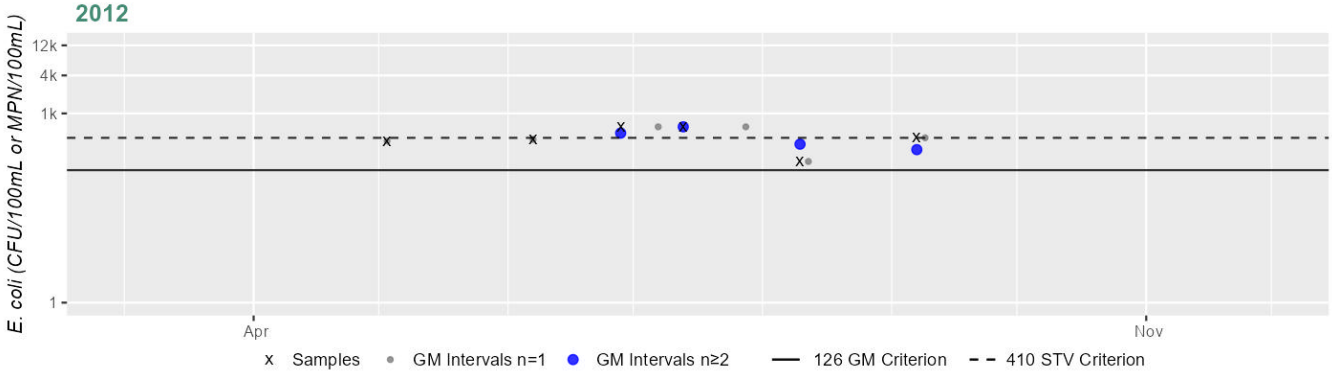
Variable*	Result
Samples	6
SeasGM	405
#GMI	4
#GMI Ex	4
%GMI Ex	100%
n>STV	3
%n>STV	50%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W2268 - Escherichia coli

Daily Maximum Samples & 30 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	394
#GMI	4
#GMI Ex	4
%GMI Ex	100%
n>STV	3
%n>STV	50%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for this Hoosic River AU (MA11-04) is assessed as Not Supporting. An Escherichia Coli (E. Coli) impairment is being added based on a re-evaluation of bacteria data collected in 2012 at W2268 and W2261.
MassDEP staff collected *E. coli* bacteria samples in this Hoosic River AU (MA11-04) in both the historic (1997-2010) & the current IR window (2011-2022) from 1997-2012 at 3 stations in North Adams. Samples were collected from the following stations/sample years from upstream to downstream: W2268 (~1625 ft upstream of Hodges Cross Rd (Rt. 8A)) from May-Sep 2012 (n=6), W0427 (upstream at Hodges Cross Rd bridge) in 1997, 2002, and 2007 (n=2-5/yr), and W2261 (~1900 ft downstream of Hodges Cross Rd (Rt. 8A)) from May-Sep 2012 (n=6). Analysis of the single year limited frequency *E. coli* datasets from W2268 and W2261 (from the current IR window) indicated 100% of intervals had GMs >244 CFU/100mL and no samples exceeded the 794 CFU/100mL STV at either station. The overall GMs were 394 and 405 CFU/100mL at the up and downstream sites, respectively. These data are indicative of an *E. coli* impairment. The historic data from W0427 were not indicative of a bacteria impairment but the final use attainment decision is based on the data from W2268 and W2261 which were collected in the current IR window.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0427	MassDEP	Water Quality	Hoosic River	[upstream at Hodges Cross Road bridge, North Adams.]	42.665082	-73.103974
W2261	MassDEP	Water Quality	Hoosic River	[approximately 1900 feet downstream of Hodges Cross Road (Route 8A), North Adams]	42.669542	-73.103711
W2268	MassDEP	Water Quality	Hoosic River	[approximately 1625 feet upstream of Hodges Cross Road (Route 8A), North Adams]	42.661126	-73.103811

Bacteria Data

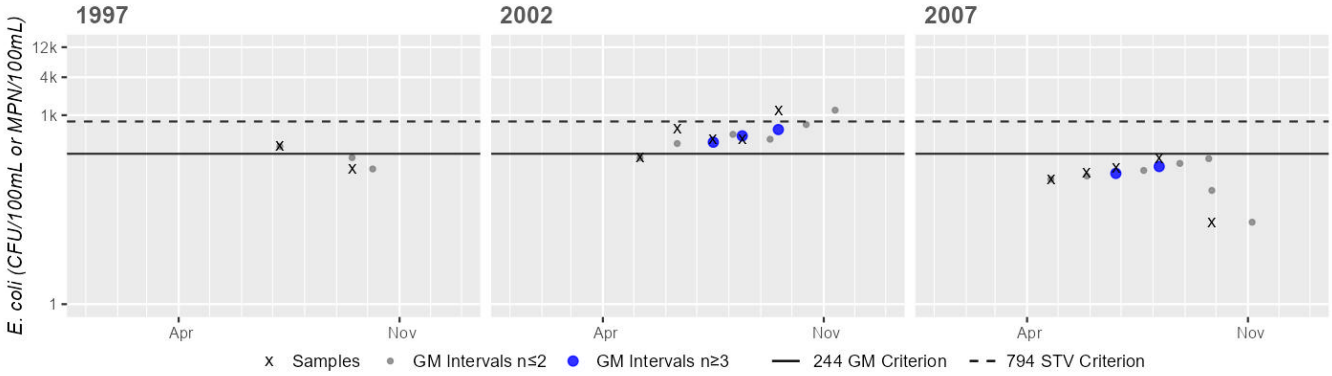
Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(MassDEP Undated 6) (MassDEP Undated 3)
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0427	Massachusetts Department of Environmental Protection	E. coli	07/08/97	09/16/97	2	140	320	211

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0427	Massachusetts Department of Environmental Protection	E. coli	05/07/02	09/18/02	5	210	1200	482
W0427	Massachusetts Department of Environmental Protection	E. coli	04/24/07	09/27/07	5	20	204	92
W2261	Massachusetts Department of Environmental Protection	E. coli	05/02/12	09/06/12	6	228	579	405
W2268	Massachusetts Department of Environmental Protection	E. coli	05/02/12	09/06/12	6	173	613	394

Station MASSDEP_W0427 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	211
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	5
SeasGM	482
#GMI	3
#GMI Ex	3
%GMI Ex	100%
n>STV	1
%n>STV	20%

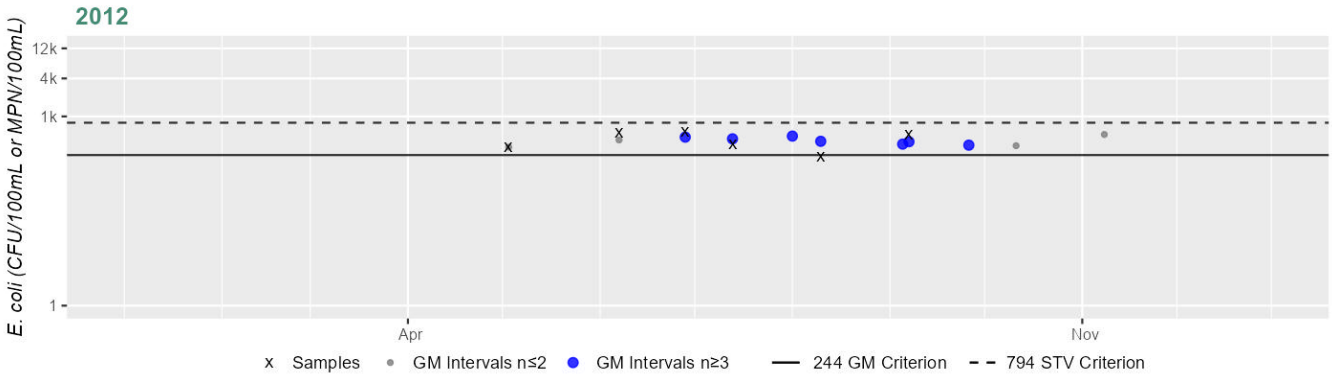
Variable*	Result
Samples	5
SeasGM	92
#GMI	2
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
60%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W2261 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



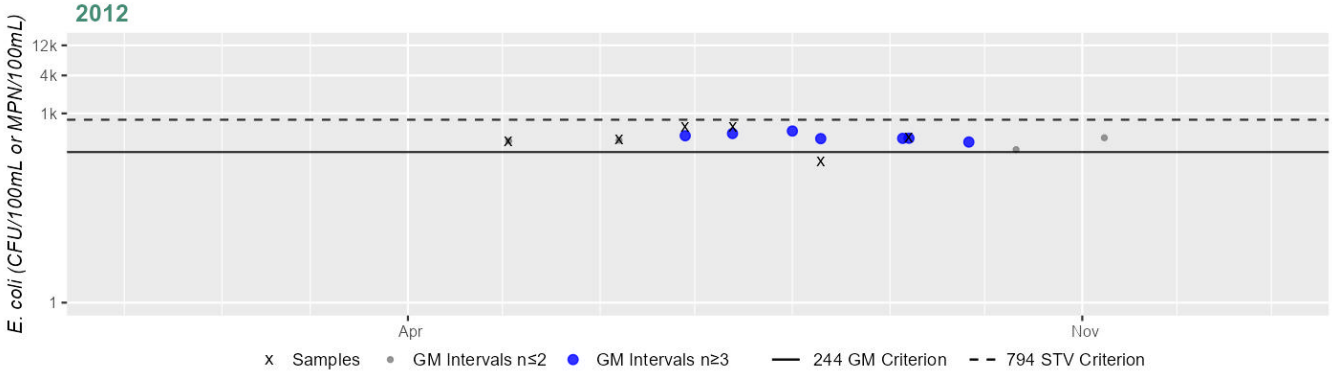
Variable*	Result
Samples	6
SeasGM	405
#GMI	7
#GMI Ex	7
%GMI Ex	100%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W2268 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	394
#GMI	7
#GMI Ex	7
%GMI Ex	100%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

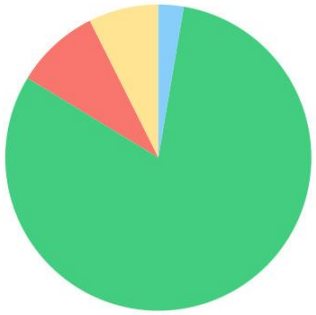
**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Hoosic River (MA11-05)

Location:	Confluence with North Branch Hoosic River, North Adams to the Vermont State line, Williamstown.
AU Type:	RIVER
AU Size:	8.2 MILES
Classification/Qualifier:	B: WWF

Hoosic River (MA11-05)

Watershed Area: 204.96 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area* (square miles)	163.95	13.37	48.09	2.94
Agriculture	7.4%	4.6%	6.4%	3.7%
Developed	8.9%	15.4%	9.3%	17%
Natural	81%	77.6%	79.1%	72.6%
Wetland	2.7%	2.5%	5.2%	6.7%
Impervious	3.5%	5.9%	4.1%	6.4%

**Land cover analysis only includes watershed area within Massachusetts.*

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Alteration in Stream-side or Littoral Vegetative Covers*)	--	Unchanged
5	5	(Flow Regime Modification*)	--	Unchanged
5	5	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed
5	5	Fecal Coliform	R1_MA_2024_04	Changed
5	5	Nutrient/Eutrophication Biological Indicators	--	Unchanged
5	5	PCBs in Fish Tissue	--	Unchanged
5	5	PFAS in Fish Tissue	--	Added

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Alteration in Stream-side or Littoral Vegetative Covers*)	Channelization (Y)	X	--	--	--	--
(Alteration in Stream-side or Littoral Vegetative Covers*)	Streambank Modifications/Destabilization (Y)	X	--	--	--	--
(Flow Regime Modification*)	Channelization (Y)	X	--	--	--	--
(Flow Regime Modification*)	Streambank Modifications/Destabilization (Y)	X	--	--	--	--
Escherichia Coli (E. Coli)	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	--	--	--	X	X
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	X
Escherichia Coli (E. Coli)	Urban Runoff/Storm Sewers (N)	--	--	--	X	X
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	--	--	--	X	--
Fecal Coliform	Source Unknown (N)	--	--	--	X	--
Nutrient/Eutrophication Biological Indicators	Agriculture (N)	X	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Municipal Point Source Discharges (Y)	X	--	--	--	--
PCBs in Fish Tissue	Brownfield (Non-NPL) Sites (Y)	--	X	--	--	--
PFAS in Fish Tissue	Source Unknown (N)	--	X	--	--	--

Supporting Information for Removed Impairments

2022 Removed Impairment	Removal Reason	Removal Comment
Escherichia Coli (E. Coli)	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: Massachusetts Statewide TMDL for Pathogen-Impaired Waterbodies (Report CN 515.1, approved 2/13/2024, ATTAINS Action ID: R1_MA_2024_04)

2022 Removed Impairment	Removal Reason	Removal Comment
Fecal Coliform	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: Massachusetts Statewide TMDL for Pathogen-Impaired Waterbodies (Report CN 515.1, approved 2/13/2024, ATTAINS Action ID: R1_MA_2024_04)

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for this Hoosic River AU (MA11-05) continues to be assessed as Not Supporting. The prior PCBs in Fish Tissue impairment is being carried forward and a new impairment is being added for PFAS in Fish Tissue. Fish toxics sampling was conducted in this Hoosic River AU (MA11-05) at station F0263 (PFAS Study ID 46) [downstream at North Street (Route 7), Williamstown] on 10/25/2022 as part of a MassDEP-funded project evaluating 40 PFAS analytes in selected fresh waters. MA DPH issued a site-specific advisory for PFAS in the Hoosic River (referred to by MA DPH as ''Hoosic River (from the channelized section in North Adams to the MA/VT state line)'') in their May 2024 Freshwater Fish Consumption Advisory List and retained the prior PCBs advisory. The public should refer to the most recent DPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations. No source of PFAS has been identified at this time.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
F0263	MassDEP	Fish Toxics	Hoosic River	[downstream at North Street (Route 7), Williamstown]	42.728500	-73.205723

Fish Tissue Data

Summary of Fish Tissue Data (MA DPH 2025) **(**MassDEP 2023) (MassDEP Undated 5)

Summary
Fish toxics sampling was conducted in this Hoosic River AU (MA11-05) at station F0263 (PFAS Study ID 46) [downstream at North Street (Route 7), Williamstown] on 10/25/2022 as part of a MassDEP-funded project evaluating 40 PFAS analytes in selected fresh waters. Because of elevated PFAS measured in fish filets, MA DPH issued site-specific fish consumption advisories for the Hoosic River (referred to by MA DPH as ''Hoosic River (from the channelized section in North Adams to the MA/VT state line)'') in their May 2024 Freshwater Fish Consumption Advisory List. Additionally, MA DPH retained the existing site-specific fish consumption advisories for PCBs associated with the Hoosic River (referred to by MA DPH as ''Hoosic River (from the channelized section in North Adams to the MA/VT state line)'') in their January 2025 Freshwater Fish Consumption Advisory List. The site-specific DPH advisories are indicative of Fish Consumption Use impairments for PFAS in Fish Tissue and PCBs in Fish Tissue for the Hoosic River (MA11-05).

MassDEP 2022 PFAS in Fish Tissue Data for Massachusetts Surface Waters (MassDEP 2023) (MassDEP Undated 5) (MA DPH 2023)

[ng/g = ppb. All PFBA, PFBS, and HFPO-DA (Genx) concentrations <MDL. ND indicates that the PFAS analyte was not detected in any of the composite samples (i.e., it was <MDL). Means weighted by the number of fish in the contributing composites were calculated for any PFAS analyte – waterbody – species combination where an analyte was detected in at least one sample; if a sample did not have the analyte detected, the concentration for that sample was set to ½*MDL for the purposes of calculating a mean. Data are highlighted red per the fish consumption advisory thresholds summarized in Table 4.2 of MA DPH's 2023 Technical Support Document for the evaluation of PFAS in recreational waterbodies.]

[Species List: BRT = brown trout]

Station Code	PFAS Study ID	Sample Date	Species	Mean PFHxS ng/g	Mean PFNA ng/g	Mean PFOA ng/g	Mean PFOS ng/g	Analytes with ≥ 1 Sample Qualified
F0263	46	10/25/2022	BRT	ND	ND	ND	6.90	PFOS

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for this Hoosic River AU (MA11-05) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for this Hoosic River AU (MA11-05) continues to be assessed as Not Supporting. The prior Escherichia coli (E. coli) impairment is being carried forward based on bacteria data not meeting the threshold at HVA_HRMS300 in 2022, and the prior Fecal Coliform impairment is also being carried forward.

HVA staff/volunteers collected *E. coli* bacteria samples in this Hoosic River AU (MA11-05) in 2022 at 2 stations in North Adams. Samples were collected from the following stations/sample years from upstream to downstream: HVA_HRMS300 (At the end of the flood control structures on the Main stem of the Hoosic when North & South branches come together) from Jun-Sep 2022 (n=8) and HVA_HRMS400 (Ashton Avenue public canoe launch location. The sample site is located 200 ft upstream of the Ashton Avenue Bridge in the main stem of the Hoosic River) from Jun-Sep 2022 (n=8). Analysis of the moderate frequency *E. coli* dataset from HVA_HRMS300 indicated 92% of intervals had GMs >126 CFU/100mL and 6 samples exceeded the 410 CFU/100mL STV. Analysis of the moderate frequency *E. coli* dataset from HVA_HRMS400 indicated 30% of intervals had GMs >126 CFU/100mL and 1 sample exceeded the 410 CFU/100mL STV. The upstream *E. coli* data from HVA_HRMS300 are indicative of an *E. coli* impairment, however, the data from HVA_HRMS400 were indicative of good water quality conditions.

Water samples were also collected in this Hoosic River AU as part of two PFAS studies. Surface water sampling was conducted by the USGS at station USGS-01332500 relatively near the upstream HVA station (HVA_HRMS300) on three dates during Aug to Oct 2020 as part of a MassDEP funded project to evaluate 24 PFAS analytes in ambient water samples upstream and downstream of wastewater treatment facilities (however, this station was not associated with a WWTF). The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS) were all less than the 90 ng/L (ppt) recreational screening value (HFPO-DA/GenX was not analyzed in this study). Subsequently, in Oct 2022, water samples were collected in the downstream portion of the river at station W3311 (PFAS Study ID 46; downstream at North Street (Route 7) in Williamstown) as part of a MassDEP funded project with ERG evaluating 40 PFAS analytes in selected fresh waters. The concentrations of the seven analytes with individual toxicity criteria were also all less than the 90 ng/L (ppt) recreational screening value in these samples.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
HVA_HRMS300	Housatonic Valley Association	Water Quality	Hoosic River Main Stem	At the end of the flood control structures on the Main stem of the Hoosic when North & South branches come together. North Adams	42.7002	-73.1598
HVA_HRMS400	Housatonic Valley Association	Water Quality	Hoosic River Main Stem	Ashton Avenue public canoe launch location, North Adams. The sample site is located 200 feet upstream of the Ashton Avenue Bridge in the main stem of the Hoosic River.	42.703086	-73.168153
W3311	MassDEP	Water Quality	Hoosic River	[the default location representing co-located water/fish PFAS sampling, downstream at North Street (Route 7), Williamstown]	42.728500	-73.205723

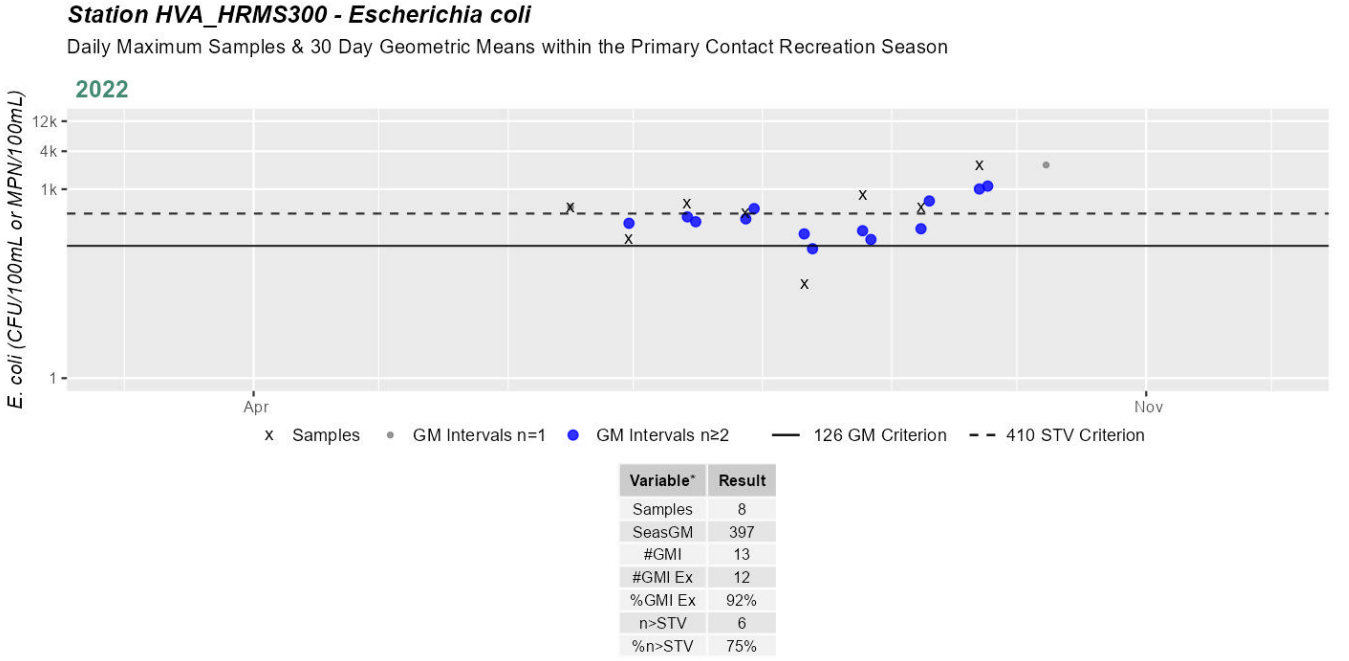
Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
USGS-01332500	U.S. Geological Survey	Water Quality	Hoosic River	HOOSIC RIVER NEAR WILLIAMSTOWN, MA; no WWTF	42.700000	-73.159000

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (30-day Interval Analysis) (HVA 2022) (MassDEP Undated 2)

[Result units are CFU/100mL or MPN/100mL]

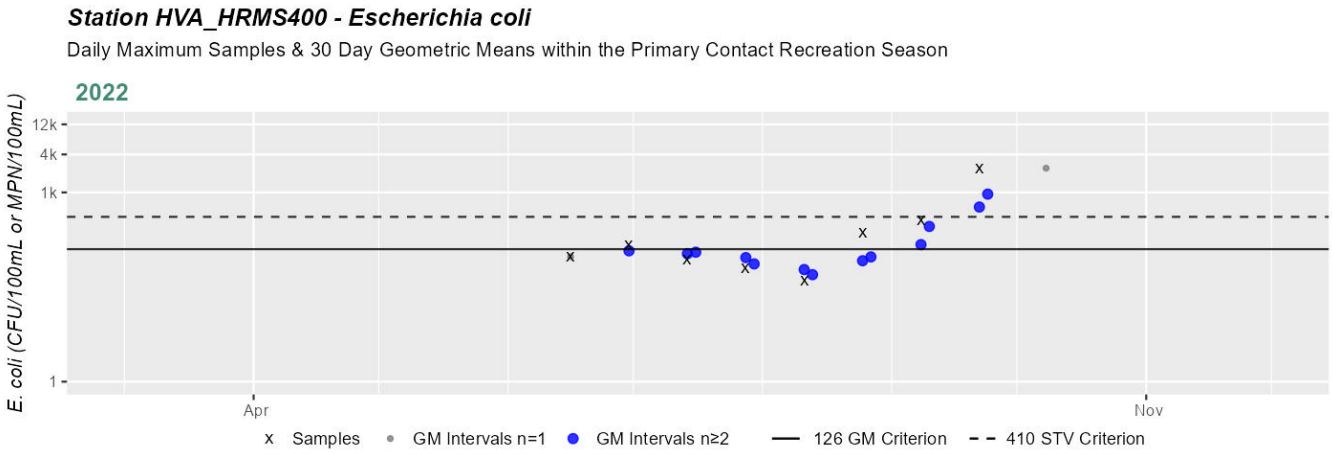
Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
HVA_HRMS300	Housatonic Valley Association	E. coli	06/16/22	09/22/22	8	30	2419	397
HVA_HRMS400	Housatonic Valley Association	E. coli	06/16/22	09/22/22	8	39	2419	167



Variable*	Result
Samples	8
SeasGM	397
#GMI	13
#GMI Ex	12
%GMI Ex	92%
n>STV	6
%n>STV	75%

Cumulative %GMI Exceedance
Current (2011-2022)
92%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*



Variable*	Result
Samples	8
SeasGM	167
#GMI	13
#GMI Ex	4
%GMI Ex	30%
n>STV	1
%n>STV	12%

Cumulative %GMI Exceedance
Current (2011-2022)
30%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Other Indicators

Summary Statement(s) for MassDEP 2022 PFAS in Water Column Data (MassDEP 2023) (MassDEP Undated 4)

Summary
Surface water sampling was conducted in this Hoosic River AU (MA11-05) at station W3311 (PFAS Study ID 46) on 10/25/2022 as part of a MassDEP funded project with ERG evaluating 40 PFAS analytes in selected fresh waters. The concentrations of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS, HFPO-DA/GenX) were all less than the 90 ng/L (ppt) recreational screening value.

MassDEP 2022 PFAS in Water Column Data for Massachusetts Surface Waters (MassDEP 2023) (MassDEP Undated 4)

[HFPO-DA is also known as GenX; the ∑PFAS6 equals the sum of PFOA, PFOS, PFNA, PFHxS, PFDA, PFHpA (not all shown individually here); * indicates the ∑PFAS6 concentration was qualified since data for one or more individual PFAS6 analytes were qualified; b = blank contamination qualifier, d = qualifier indicating precision of field duplicates did not meet project data quality objectives; j = 'estimated' value qualifier; ## = censored data.]

Station Code	PFAS Study ID	Sample Date	PFOA ng/L	PFOS ng/L	PFNA ng/L	PFHxS ng/L	PFBA ng/L	PFBS ng/L	HFPO-DA ng/L	∑PFAS6 ng/L
W3311	46	10/25/2022	2.3	3.2d	<0.49	<0.56	<2	0.75j	<2	7.6*

Summary Statement(s) for USGS 2020 PFAS in Water Column Data (Savoie and Argue 2023) (MassDEP Undated 1)

Summary

Surface water sampling was conducted by the USGS on this Hoosic River AU (MA11-05) at station USGS-01332500 near Williamstown, MA on three dates during August to October 2020 as part of a MassDEP funded project to evaluate 24 PFAS analytes in ambient water samples upstream and downstream of wastewater treatment facilities (however, this station was not associated with a WWTF). The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS) were all less than the 90 ng/L (ppt) recreational screening value (HFPO-DA/GenX was not analyzed in this study).

USGS 2020 PFAS in Water Column Data Collected Upstream and Downstream of Wastewater Treatment Facilities (Savoie and Argue 2023) (MassDEP Undated 1)

[The ∑PFAS6 equals the sum of PFOA, PFOS, PFNA, PFHxS, PFDA, PFHpA (not all shown individually here). * indicates the ∑PFAS6 concentration is qualified since data for one or more individual PFAS6 analytes were qualified. A concentration with a "<" was less than the reporting detection limit (RDL) and the RDL was used to calculate the ΣPFAS6. E = qualifier "value is estimated"; V = qualifier "value affected by field or laboratory contamination"]

Station Code	Sample Date	PFOA ng/L	PFOS ng/L	PFNA ng/L	PFHxS ng/L	PFBA ng/L	PFBS ng/L	ΣPFAS6 ng/L
USGS-01332500	8/25/2020	3.03	3.68	<1.97	E0.622	E0.72	E0.866	11.8*
USGS-01332500	9/16/2020	3.33	E5.04	<1.85	E0.842	E0.842	E0.816	13.6*
USGS-01332500	10/26/2020	2.23	2.66	<1.88	E0.458	E0.815	E0.47	9.5*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for this Hoosic River AU (MA11-05) is assessed as Not Supporting. An Escherichia coli (E. coli) impairment is being added due to bacteria data collected in 2022 not meeting the threshold at HVA_HRMS300.
HVA staff/volunteers collected *E. coli* bacteria samples in this Hoosic River AU (MA11-05) at 2 stations in North Adams in 2022 (part of the current IR window, 2011-2022). Samples were collected from the following stations/sample years from upstream to downstream: HVA_HRMS300 (At the end of the flood control structures on the Main stem of the Hoosic when North & South branches come together) from Jun-Sep 2022 (n=8) and HVA_HRMS400 (Ashton Avenue public canoe launch location. The sample site is located 200 ft upstream of the Ashton Avenue Bridge in the main stem of the Hoosic River) from Jun-Sep 2022 (n=8). Analysis of the moderate frequency *E. coli* dataset from HVA_HRMS300 indicated 90% of intervals had GMs >244 CFU/100mL and 2 samples exceeded the 794 CFU/100mL STV. Analysis of the moderate frequency *E. coli* dataset from HVA_HRMS400 indicated 18% of intervals had GMs >244 CFU/100mL and 1 sample exceeded the 794 CFU/100mL STV. The upstream *E. coli* data from HVA_HRMS300 are indicative of an *E. coli* impairment, however, the data from HVA_HRMS400 were indicative of good water quality conditions. Note that MassDEP staff sampled in the historic IR window (1997-2010) at 7 stations (W1551, W0430, W0431, W1127, W1126, W1593, W0432) - these stations were mostly located in the downstream quarter of the AU in areas where urban density was a little lower in the stream buffer, and the *E. coli* data collected at these locations were indicative of good water quality conditions. Since the data were collected prior to the current IR window, they were not ultimately used in the final use attainment decision.
Water samples were also collected in this Hoosic River AU as part of two PFAS studies, a 2020 DEP funded USGS project, and a 2022 DEP funded project with ERG. In these samples, the concentrations of the seven analytes with individual toxicity criteria were all less than the 90 ng/L (ppt) recreational screening value. See the Primary Contact Recreation Use for more details.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
HVA_HRMS300	Housatonic Valley Association	Water Quality	Hoosic River Main Stem	At the end of the flood control structures on the Main stem of the Hoosic when North & South branches come together. North Adams	42.7002	-73.1598
HVA_HRMS400	Housatonic Valley Association	Water Quality	Hoosic River Main Stem	Ashton Avenue public canoe launch location, North Adams. The sample site is located 200 feet upstream of the Ashton Avenue Bridge in the main stem of the Hoosic River.	42.703086	-73.168153
W0430	MassDEP	Water Quality	Hoosic River	[approximately 1000 feet upstream/east of Route 7 bridge, Williamstown.]	42.725692	-73.203592
W0431	MassDEP	Water Quality	Hoosic River	[approximately 10 feet downstream/west of Route 7 bridge, Williamstown.]	42.728175	-73.204788
W0432	MassDEP	Water Quality	Hoosic River	[west off Route 7 onto dirt road, cross railroad tracks to sample upstream of small unnamed tributary, Williamstown.]	42.741287	-73.212603

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1126	MassDEP	Water Quality	Hoosic River	[approximately 4000 feet downstream of Route 7 bridge, Williamstown (approximatley 2000 feet downstream of Hoosac WPCF discharge MA0100510)]	42.730281	-73.215616
W1127	MassDEP	Water Quality	Hoosic River	[approximately 1300 feet downstream of Route 7 bridge, Williamstown (approximately 775 feet upstream of Hoosac WPCF disharge MA0100510)]	42.729352	-73.209076
W1551	MassDEP	Water Quality	Hoosic River	[approximately 150 feet upstream of Ashton Avenue, North Adams]	42.703006	-73.167770
W1593	MassDEP	Water Quality	Hoosic River	[approximately 5800 feet downstream of Route 7 bridge, Williamstown (approximately 3800 feet downstream of Hoosac WPCF discharge MA0100510)]	42.734664	-73.218443

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis) (HVA 2022) (MassDEP Undated 1) **(**MassDEP Undated 6) (MassDEP Undated 3)

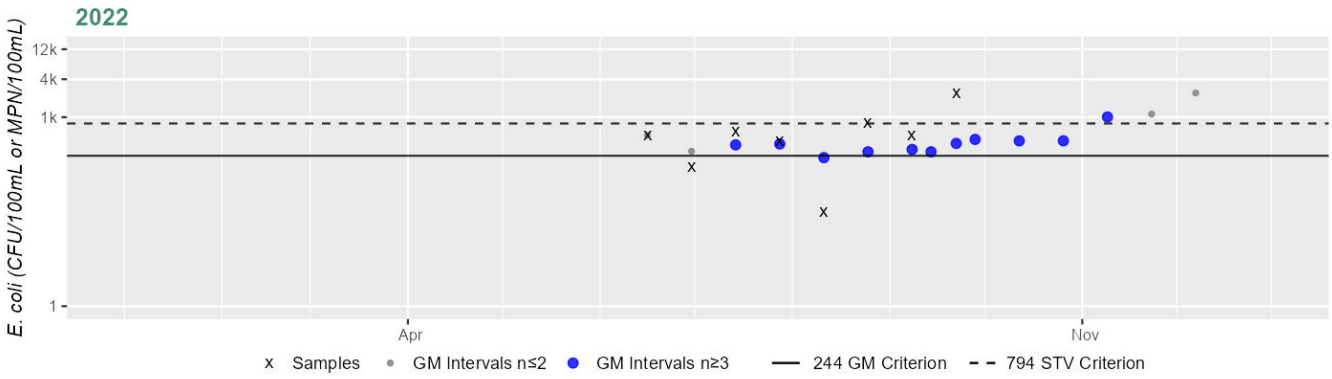
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
HVA_HRMS300	Housatonic Valley Association	E. coli	06/16/22	09/22/22	8	30	2419	397
HVA_HRMS400	Housatonic Valley Association	E. coli	06/16/22	09/22/22	8	39	2419	167
W0430	Massachusetts Department of Environmental Protection	E. coli	09/16/97	09/16/97	1	60	60	59
W0431	Massachusetts Department of Environmental Protection	E. coli	07/08/97	07/08/97	1	200	200	199
W0432	Massachusetts Department of Environmental Protection	E. coli	07/08/97	09/16/97	2	20	100	44
W1126	Massachusetts Department of Environmental Protection	E. coli	05/07/02	09/18/02	5	130	760	247
W1127	Massachusetts Department of Environmental Protection	E. coli	05/07/02	09/18/02	5	120	780	280
W1127	Massachusetts Department of Environmental Protection	E. coli	04/24/07	09/27/07	5	34	460	99

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1551	Massachusetts Department of Environmental Protection	E. coli	04/24/07	09/27/07	5	50	2200	194
W1593	Massachusetts Department of Environmental Protection	E. coli	04/24/07	09/27/07	5	46	280	101

Station HVA_HRMS300 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



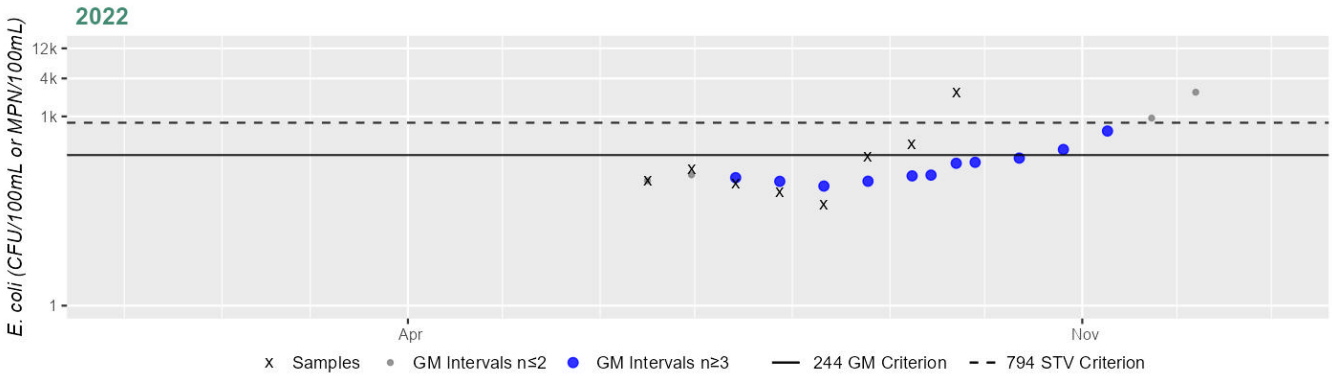
Variable*	Result
Samples	8
SeasGM	397
#GMI	11
#GMI Ex	10
%GMI Ex	90%
n>STV	2
%n>STV	25%

Cumulative %GMI Exceedance
Current (2011-2022)
90%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station HVA_HRMS400 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



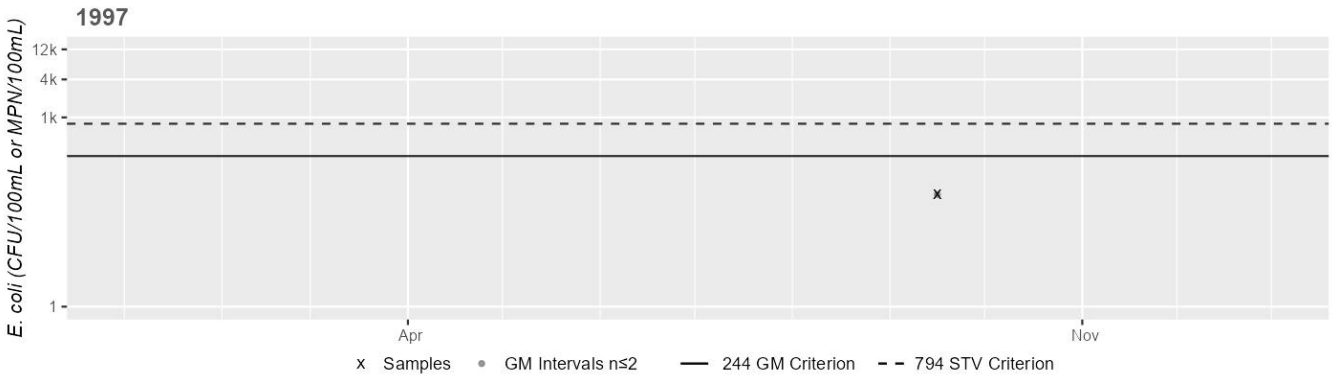
Variable*	Result
Samples	8
SeasGM	167
#GMI	11
#GMI Ex	2
%GMI Ex	18%
n>STV	1
%n>STV	12%

Cumulative %GMI Exceedance
Current (2011-2022)
18%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W0430 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



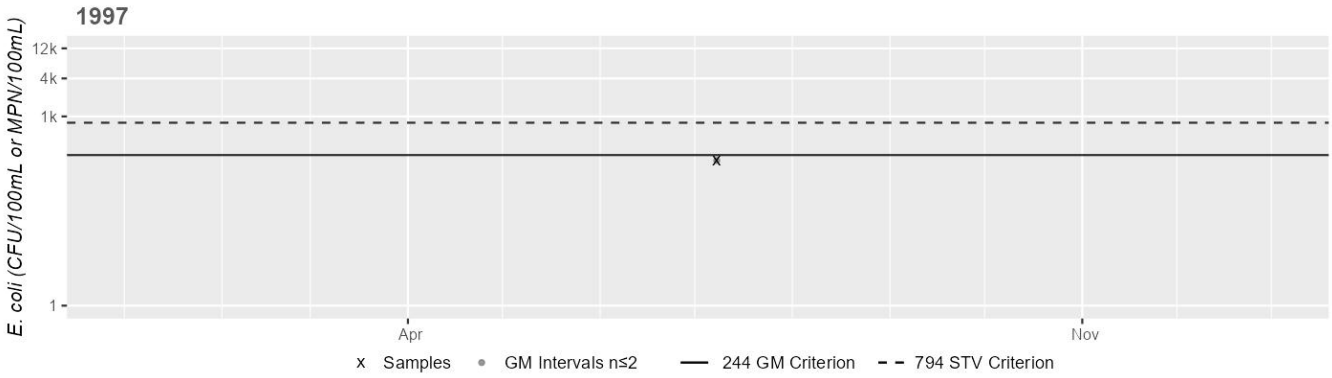
Variable*	Result
Samples	1
SeasGM	60
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W0431 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



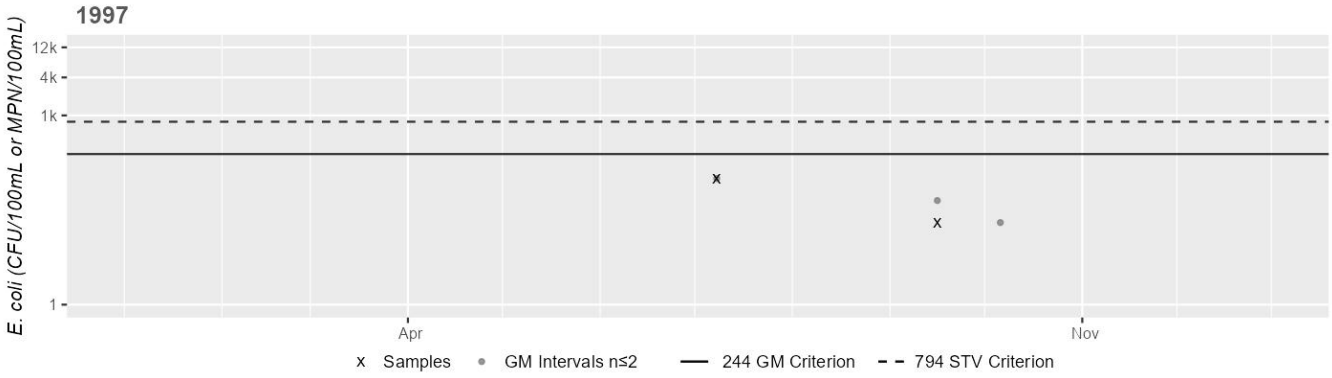
Variable*	Result
Samples	1
SeasGM	200
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W0432 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



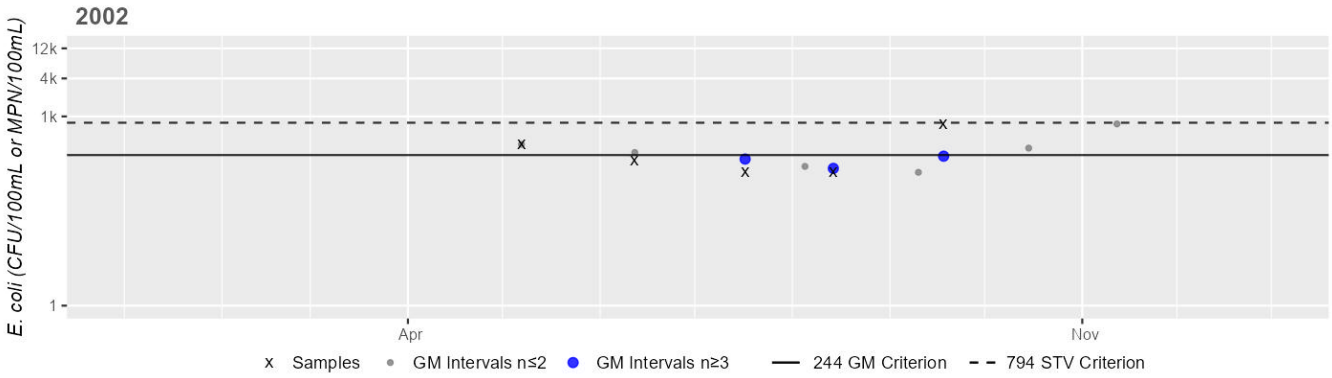
Variable*	Result
Samples	2
SeasGM	44
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W1126 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



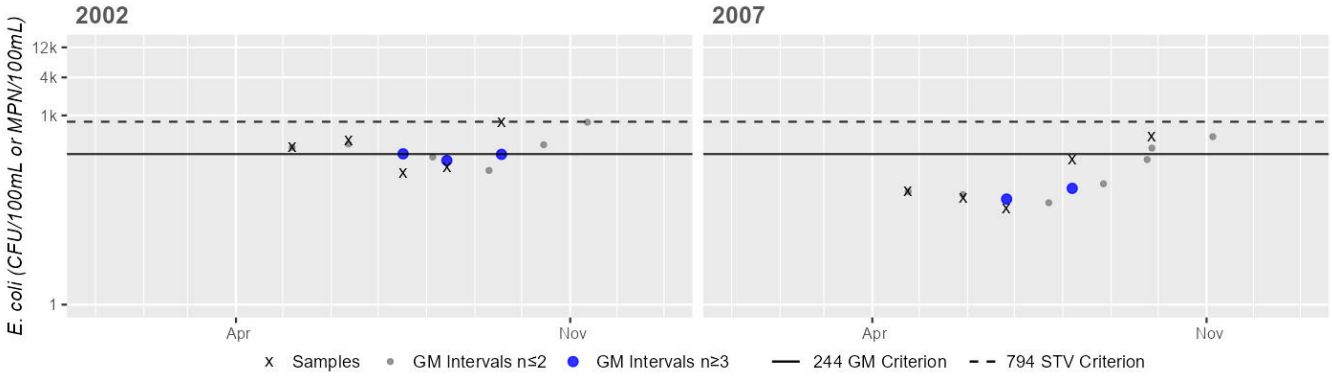
Variable*	Result
Samples	5
SeasGM	247
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W1127 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	280
#GMI	3
#GMI Ex	1
%GMI Ex	33%
n>STV	0
%n>STV	0%

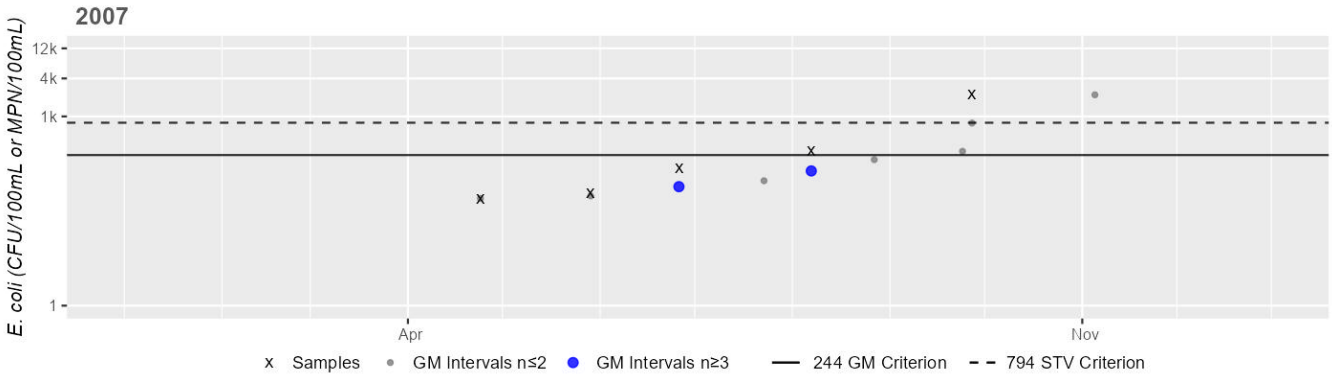
Variable*	Result
Samples	5
SeasGM	99
#GMI	2
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
20%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W1551 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



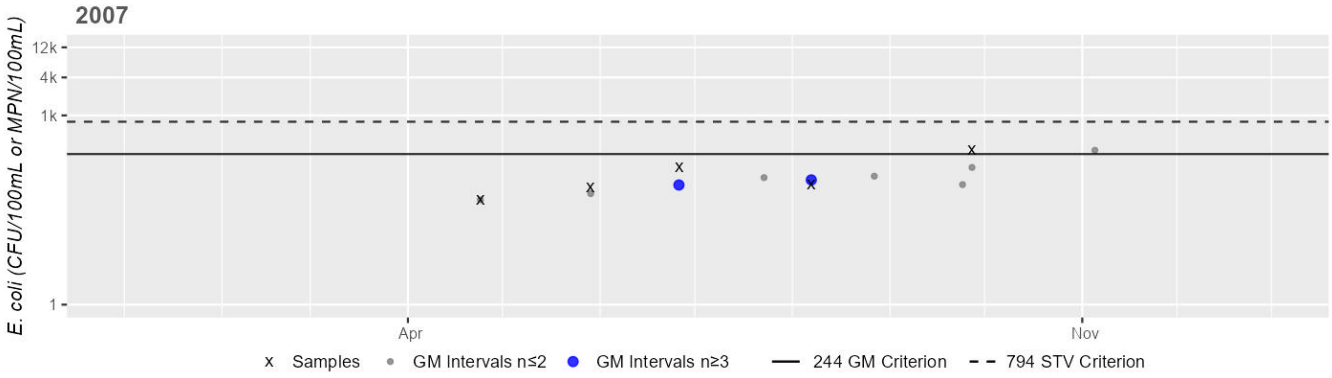
Variable*	Result
Samples	5
SeasGM	194
#GMI	2
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	20%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W1593 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	101
#GMI	2
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

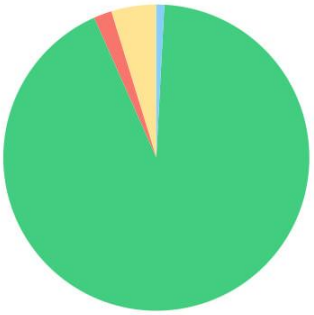
**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Hopper Brook (MA11-28)

Location:	Headwaters, perennial portion, east of Sperry Road, Williamstown to mouth at confluence with the Green River, Williamstown.
AU Type:	RIVER
AU Size:	4 MILES
Classification/Qualifier:	B: CWF

Hopper Brook (MA11-28)

Watershed Area: 6.71 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	6.71	5.92	1.18	1.09
Agriculture	4.8%	5.4%	1.6%	1.7%
Developed	1.9%	1.9%	4.3%	4.7%
Natural	92.5%	91.8%	92.8%	92.2%
Wetland	0.8%	0.9%	1.2%	1.4%
Impervious	0.8%	0.7%	1.6%	1.7%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted in Hopper Brook (MA11-28), so the Fish Consumption Use is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Hopper Brook (MA11-28) is assessed as Fully Supporting. MassDEP staff recorded aesthetics observations at one station halfway down this Hopper Brook AU ~6025 feet upstream of the Hopper Rd crossing nearest Bressett Rd, Williamstown (W2278) in summer 2012 (n=5). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2278	MassDEP	Water Quality	Hopper Brook	[approximately 6025 feet upstream of the Hopper Road crossing nearest Bressett Road, Williamstown]	42.657895	-73.201668

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 4)
[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2278	2012	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2278 on Hopper Brook (MA11-28) during 5 site visits between May 2012 and Oct 2012. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 6) (MassDEP Undated 4)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2278	2012	5	5	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 6)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2278	Hopper Brook	2012	Aquatic Plant Density, Overall	None	5	5
W2278	Hopper Brook	2012	Color	None	4	5
W2278	Hopper Brook	2012	Color	NR	1	5
W2278	Hopper Brook	2012	Objectionable Deposits	No	5	5

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2278	Hopper Brook	2012	Odor	None	5	5
W2278	Hopper Brook	2012	Periphyton Density, Filamentous	None	5	5
W2278	Hopper Brook	2012	Periphyton Density, Film	None	5	5
W2278	Hopper Brook	2012	Scum	No	5	5
W2278	Hopper Brook	2012	Turbidity	None	4	5
W2278	Hopper Brook	2012	Turbidity	Slightly Turbid	1	5

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Hopper Brook (MA11-28) is assessed as having Insufficient Information since available bacteria data were extremely limited and aesthetics observations for this AU did not result in any impairment. MassDEP staff collected only one *E. coli* bacteria sample in Hopper Brook (MA11-28) at W2278 (~6025 ft upstream of the Hopper Rd crossing nearest Bressett Rd, Williamstown) in May 2012. The available *E. coli* data from W2278 are too limited to assess according to the 2024 CALM (the concentration was good at 9 CFU/100mL).

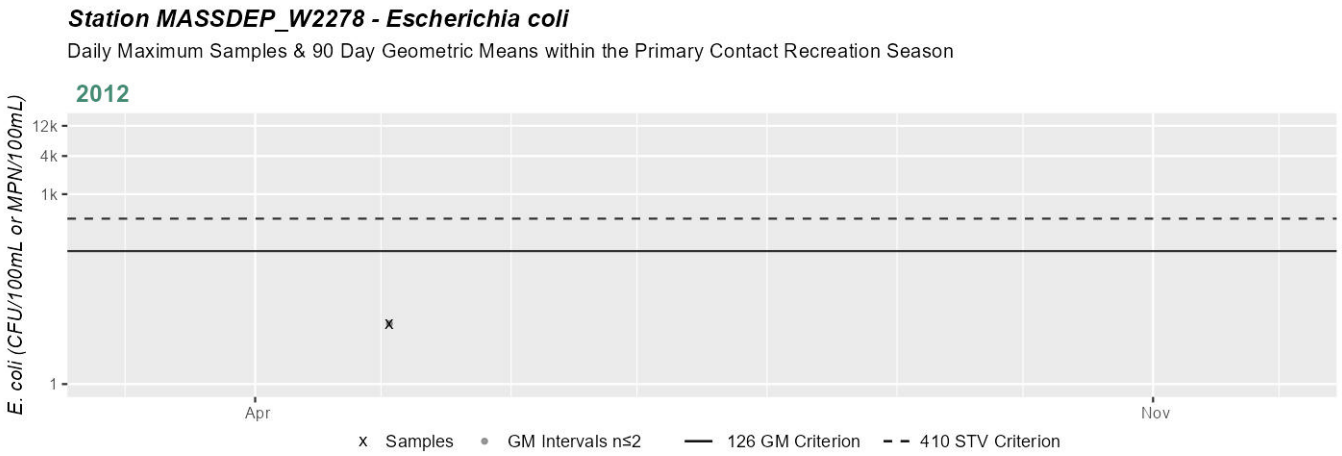
Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2278	MassDEP	Water Quality	Hopper Brook	[approximately 6025 feet upstream of the Hopper Road crossing nearest Bressett Road, Williamstown]	42.657895	-73.201668

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)
(MassDEP Undated 6) **(**MassDEP Undated 4)
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2278	Massachusetts Department of Environmental Protection	E. coli	05/02/12	05/02/12	1	9	9	9



Variable*	Result
Samples	1
SeasGM	9
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Hopper Brook (MA11-28) is assessed as having Insufficient Information since available bacteria data from the current IR window (2011-2022) were extremely limited and aesthetics observations for this AU did not result in any impairment. MassDEP staff collected only one *E. coli* bacteria sample in Hopper Brook (MA11-28) in roughly the middle part of the AU at W2278 (~6025 ft upstream of the Hopper Rd crossing nearest Bressett Rd, Williamstown) in May 2012. The available *E. coli* data from W2278 are too limited to assess according to the 2024 CALM (the concentration was good at 9 CFU/100mL). DEP staff also collected historical *E. coli* data near the downstream end of Hopper Brook at W1556 (~100 ft upstream from the confluence with the Green River, Williamstown) from Apr-Sep 2007 (n=5). While these data were indicative of good water quality conditions (no GMs were >244 CFU/100mL and no samples exceeded the 794 CFU/100mL STV), since they were collected prior to the current IR window, they cannot be used to positively assess the Secondary Contact Recreation Use.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1556	MassDEP	Water Quality	Hopper Brook	[approximatley 100 feet upstream from the confluence with the Green River, Williamstown]	42.677863	-73.210369
W2278	MassDEP	Water Quality	Hopper Brook	[approximately 6025 feet upstream of the Hopper Road crossing nearest Bressett Road, Williamstown]	42.657895	-73.201668

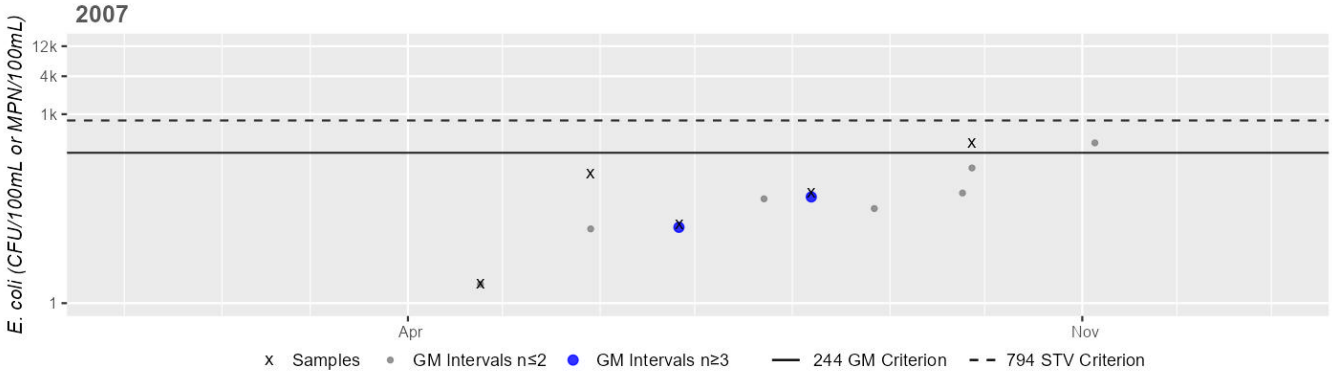
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(MassDEP Undated 6) (MassDEP Undated 3)
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1556	Massachusetts Department of Environmental Protection	E. coli	04/24/07	09/27/07	5	2	350	38
W2278	Massachusetts Department of Environmental Protection	E. coli	05/02/12	05/02/12	1	9	9	9

Station MASSDEP_W1556 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



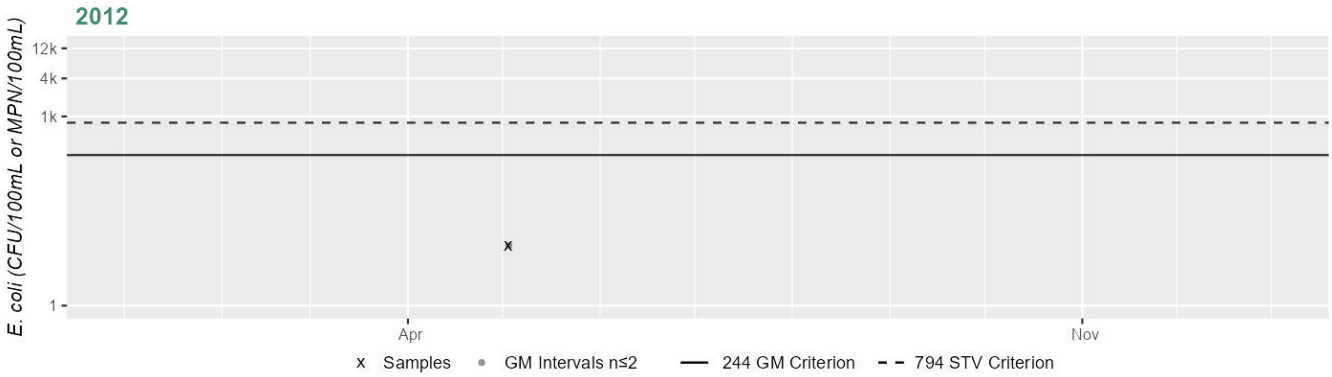
Variable*	Result
Samples	5
SeasGM	38
#GMI	2
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W2278 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	1
SeasGM	9
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Hoxie Brook (MA11-32)

Location:	Headwaters, perennial portion of this isolated urban stream, southeast of Thiel Road, Adams to northwest of Forest Park Avenue, Adams.
AU Type:	RIVER
AU Size:	1.2 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Hoxie Brook (MA11-32) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Hunterfield Brook (MA11-33)

Location:	Headwaters, perennial portion of this isolated urban stream, south of Welch Road, Clarksburg to south of Owens Avenue, North Adams.
AU Type:	RIVER
AU Size:	0.6 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Hunterfield Brook (MA11-33) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

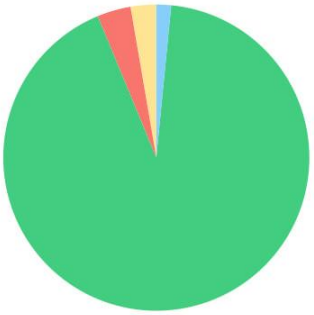
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Kitchen Brook (MA11-24)

Location:	From the outlet of the unnamed reservoir (Kitchen Brook Reservoir), Cheshire to mouth at confluence with the Hoosic River, Cheshire.
AU Type:	RIVER
AU Size:	1.4 MILES
Classification/Qualifier:	B: CWF

Kitchen Brook (MA11-24)

Watershed Area: 4.86 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	4.86	3.88	2.45	1.86
Agriculture	2.7%	3.4%	1.7%	2.2%
Developed	3.5%	4.4%	2.8%	3.6%
Natural	92.2%	90.4%	92.9%	91.1%
Wetland	1.6%	1.8%	2.5%	3.1%
Impervious	1.1%	1.3%	0.9%	1.2%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted in this Kitchen Brook AU (MA11-24), so the Fish Consumption Use is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No recent data are available to assess the status of the Aesthetics Use for this Kitchen Brook AU (MA11-24), so it is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data are available to assess the Primary Contact Recreation Use for this Kitchen Brook AU (MA11-24), so it is Not Assessed.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
While *E. coli* concentrations for the samples collected at W1119 in 2002 were indicative of good water quality, these data were collected prior to the current IR window (2011-2022) and consequently the Secondary Contact Recreation Use for this Kitchen Brook AU (MA11-24) is Not Assessed. *E. coli* bacteria samples were collected historically in this AU by MassDEP staff at W1119 (W Mountain Rd, Cheshire) from May-Sep 2002 (n=5). Analysis of this limited frequency dataset indicated no intervals had GMs >244 CFU/100mL, no samples exceeded the 794 CFU/100mL STV, and the overall GM was 13 CFU/100mL.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1119	MassDEP	Water Quality	Kitchen Brook	[West Mountain Road, Cheshire]	42.564531	-73.173649

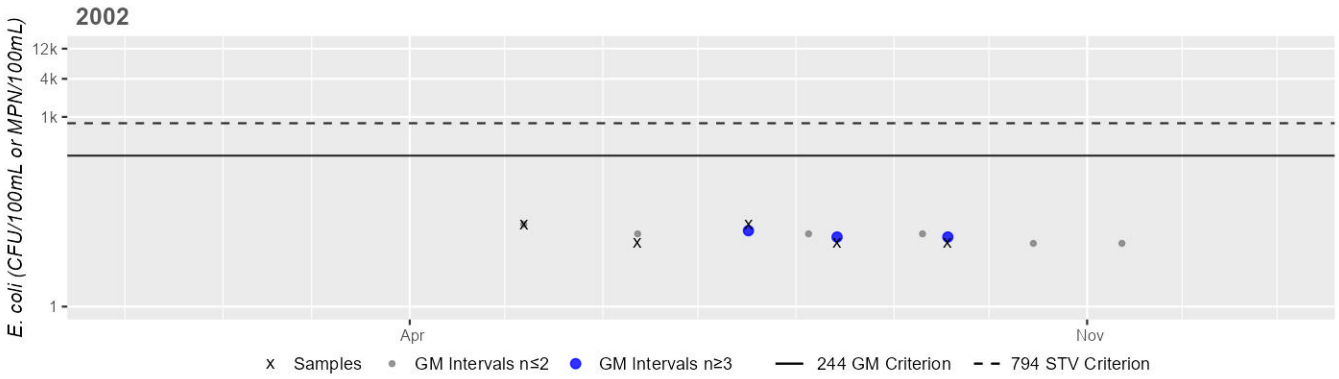
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(MassDEP Undated 6) (MassDEP Undated 3)
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1119	Massachusetts Department of Environmental Protection	E. coli	05/07/02	09/18/02	5	10	20	13

Station MASSDEP_W1119 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	13
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Kitchen Brook (MA11-34)

Location:	Headwaters, perennial portion east of Greylock Road, Cheshire to inlet of unnamed reservoir (Kitchen Brook Reservoir), Cheshire.
AU Type:	RIVER
AU Size:	2.4 MILES
Classification/Qualifier:	A: PWS, ORW, CWF (Tributary)

No usable data were available for Kitchen Brook (MA11-34) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Mauserts Pond (MA11009)

Location:	Clarksburg.
AU Type:	FRESHWATER LAKE
AU Size:	51 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Recommendations

2024/26 Recommendations
2024/26IR [Bacteria, Low] High frequency follow-up monitoring should be conducted in Mauserts Pond (MA11009), to confirm if Enterococcus bacteria are impairing the Recreational uses. MDPH indicated that Mauserts Pond DCR Beach (Beach ID: 4600) in Clarksburg was posted for >10% of the swimming season in 2021.

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted in Mauserts Pond (MA11009), so the Fish Consumption Use is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Mauserts Pond (MA11009) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	YES

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Mauserts Pond (MA11009) continues to be assessed as Fully Supporting and the prior Alert for Enterococcus (based on beach posting data) is being carried forward. Between 2018 and 2022, the Mauserts Pond DCR Beach (Beach ID: 4600) in Clarksburg was rarely, if at all, posted for swimming advisories, with the exception of 2021 when advisories exceeded 10% of the swimming season (28%). This is indicative of an Alert for Enterococcus.

Beach Postings

MA DPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 1)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
4600	Mausert Pond (DCR)/ Clarksburg	42.73588, -73.07480	42.73630, -73.07490	0%	0%	0%	32%	0%	0%	3%	28%	0%	2

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

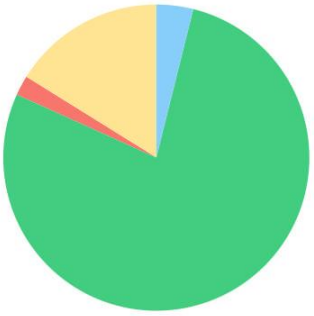
2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Mauserts Pond (MA11009) continues to be assessed as Fully Supporting based on beach closure data. Between 2018 and 2022, the Mauserts Pond DCR Beach (Beach ID: 4600) in Clarksburg was rarely, if at all, posted for swimming advisories, with the exception of 2021. These data indicate that Secondary Contact Recreation Use can be assessed as Fully Supporting.

Mcdonald Brook (MA11-16)

Location:	Source, southeast of Woodchuck Hill, Windsor to mouth at confluence with South Brook, Cheshire (includes former 1998 segment: McDonald Brook MA11-12).
AU Type:	RIVER
AU Size:	3 MILES
Classification/Qualifier:	B: CWF

Mcdonald Brook (MA11-16)

Watershed Area: 2.40 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	2.40	2.40	0.85	0.85
Agriculture	16.2%	16.2%	6.6%	6.6%
Developed	2.1%	2.1%	1%	1%
Natural	77.9%	77.9%	86.2%	86.2%
Wetland	3.9%	3.9%	6.3%	6.3%
Impervious	0.8%	0.8%	0.4%	0.4%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted in Mcdonald Brook (MA11-16), so the Fish Consumption Use is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
There are no data available to assess the status of the Aesthetics Use for Mcdonald Brook (MA11-16), so it is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
There are no bacteria or other indicator data available to assess the status of the Primary Contact Recreation Use for Mcdonald Brook (MA11-16), so it is Not Assessed.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
There are no bacteria data available for Mcdonald Brook (MA11-16) in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected historic *E. coli* bacteria samples in Mcdonald Brook at W1701 (just upstream of the confluence with South Brook, E of Notch Rd, Cheshire) from Jul-Aug 2006 (n=2). These data are too limited to assess according to the 2024 CALM.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1701	MassDEP	Water Quality	McDonald Brook	[just upstream of confluence with South Brook, east of Notch Road, Cheshire]	42.554317	-73.140074

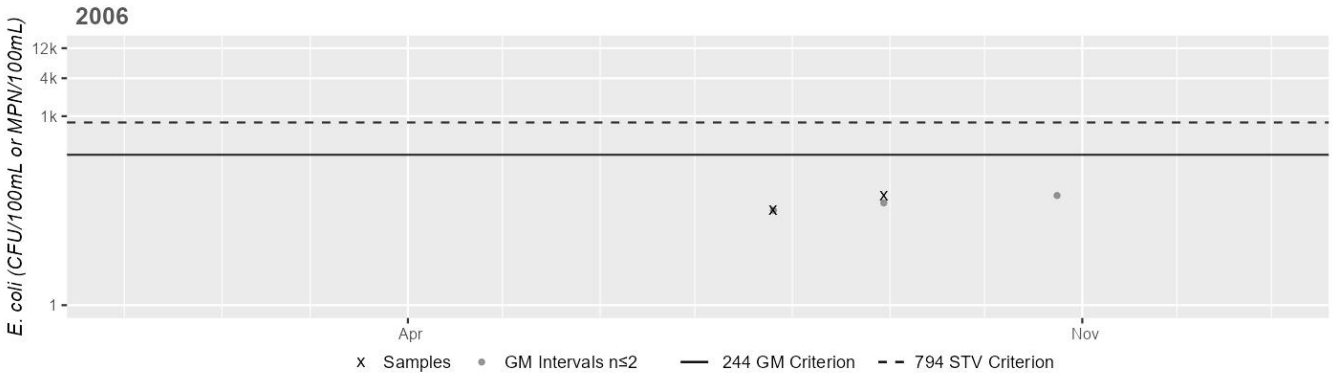
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(MassDEP Undated 6) (MassDEP Undated 3)
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1701	Massachusetts Department of Environmental Protection	E. coli	07/26/06	08/30/06	2	32	55	41

Station MASSDEP_W1701 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	41
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

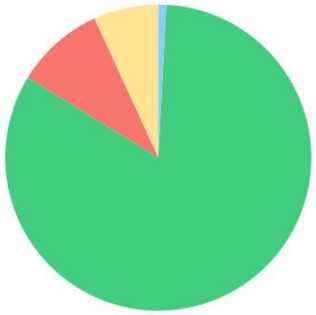
**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Miller Brook (MA11-27)

Location:	Headwaters, west and south of East Hoosac Street, Adams to mouth at confluence with Tophet Brook, Adams.
AU Type:	RIVER
AU Size:	2.4 MILES
Classification/Qualifier:	B: CWF

Miller Brook (MA11-27)

Watershed Area: 1.38 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	1.38	1.38	0.43	0.43
Agriculture	6.9%	6.9%	2.9%	2.9%
Developed	9.4%	9.4%	18.5%	18.5%
Natural	82.9%	82.9%	78.4%	78.4%
Wetland	0.8%	0.8%	0.3%	0.3%
Impervious	4%	4%	9.6%	9.6%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted in Miller Brook (MA11-27), so the Fish Consumption Use is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
There are no data available to assess the status of the Aesthetics Use for Miller Brook (MA11-27), so it is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
There are no bacteria or other indicator data available to assess the status of the Primary Contact Recreation Use for Miller Brook (MA11-27), so it is Not Assessed.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Miller Brook (MA11-27) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected historical *E. coli* bacteria samples in Miller Brook at W1548 (~160 ft downstream from East Rd, Adams) from Apr-Sep 2007 (n=5). Analysis of this limited frequency dataset indicated none of the intervals had GMs >244 CFU/100mL, no samples exceeded the 794 CFU/100mL STV, and the overall GM was 27 CFU/100mL. While these data were indicative of good water quality conditions, since they were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1548	MassDEP	Water Quality	Miller Brook	[approximately 160 feet downstream from East Road, Adams]	42.623528	-73.103815

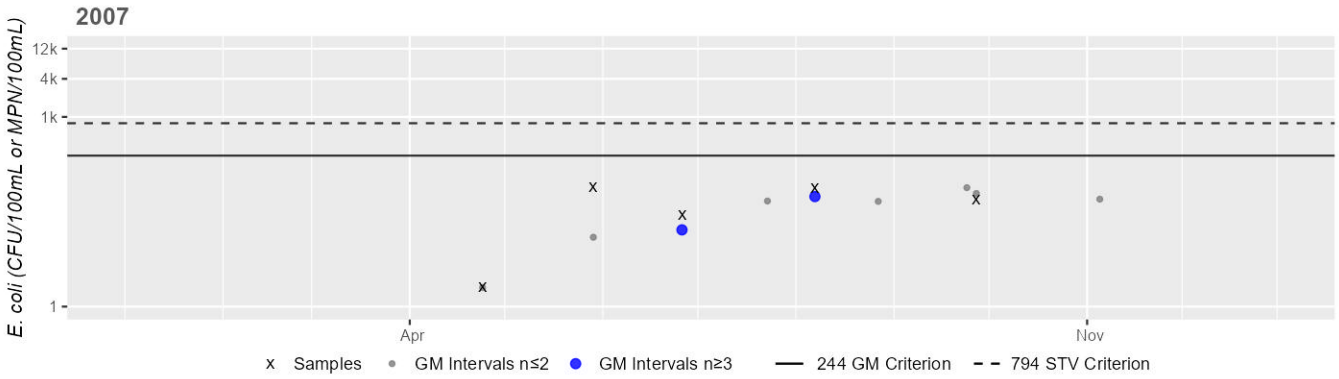
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(MassDEP Undated 6) (MassDEP Undated 3)
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1548	Massachusetts Department of Environmental Protection	E. coli	04/24/07	09/27/07	5	2	78	27

Station MASSDEP_W1548 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	27
#GMI	2
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Mitchell Brook (MA11-35)

Location:	Headwaters, west of Greylock Road, New Ashford to mouth at confluence with East Branch Green River, New Ashford.
AU Type:	RIVER
AU Size:	1.1 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Mitchell Brook (MA11-35) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Money Brook (MA11-36)

Location:	Headwaters, east of Mt. Prospect, Williamstown to mouth at confluence with Hopper Brook, Williamstown.
AU Type:	RIVER
AU Size:	1.1 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Money Brook (MA11-36) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Mt. Williams Reservoir (MA11010)

Location:	North Adams.
AU Type:	FRESHWATER LAKE
AU Size:	46 ACRES
Classification/Qualifier:	A: PWS, ORW

No usable data were available for Mt. Williams Reservoir (MA11010) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

North Branch Hoosic River (MA11-01)

Location:	Vermont State line, Clarksburg to USGS Gage (# 01332000), North Adams.
AU Type:	RIVER
AU Size:	4.3 MILES
Classification/Qualifier:	B: CWF, HQW

North Branch Hoosic River (MA11-01)

Watershed Area: 41.14 square miles

Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area* (square miles)	11.18	9.70	3.61	3.30
Agriculture	3.8%	4.4%	3.8%	4.1%
Developed	8.1%	9.3%	9.8%	10.7%
Natural	83.3%	81.3%	79.2%	78.2%
Wetland	4.9%	5%	7.2%	7%
Impervious	2.6%	3%	3.6%	3.9%

**Land cover analysis only includes watershed area within Massachusetts.*

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Temperature	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Temperature	Loss of Riparian Habitat (N)	X	--	--	--	--
Temperature	Source Unknown (N)	X	--	--	--	--

Recommendations

2024/26 Recommendations
2024/2026 IR [Turbidity, Medium Priority] Conduct follow-up monitoring for turbidity in North Branch Hoosic River (MA11-01) confirm observations of moderate turbidity in 2007 at Station W1123 downstream/west of the most westerly Beaver St. (Rt. 8) bridge crossing in North Adams and at Station W1124 off Henderson Road in Clarksburg. {W1123, W1124}

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently in this North Branch Hoosic River AU (MA11-01), so the Fish Consumption Use is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	YES

2024/26 Use Attainment Summary
There are no data available to assess the status of the Aesthetics Use for this North Branch Hoosic River AU (MA11-01), so it is Not Assessed. The Alert identified for Turbidity based on data collected in 2007 at a station ~550 feet downstream/west of the most westerly Beaver St. (Rt. 8) bridge crossing in North Adams (W1123) and at a station off Henderson Road, Clarksburg (W1124) is being carried forward. Since the prior Total Phosphorus Alert was redundantly duplicated across multiple uses for this waterbody, the Total Phosphorus Alert is being removed from the Aesthetics Use but will continue to be maintained under the Aquatic Life Use.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data are available for this North Branch Hoosic River AU (MA11-01), so the Primary Contact Recreation Use is Not Assessed. Since the prior Turbidity and Total Phosphorus Alerts were redundantly duplicated across multiple uses for this waterbody, these Alerts are being removed from the Primary Contact Recreation Use but will continue to be maintained under the Aesthetics and Aquatic Life uses, respectively.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data are available in the current IR window (2011-2022) for this North Branch Hoosic River AU (MA11-01), so the Secondary Contact Recreation Use is Not Assessed. Since the prior Turbidity and Total Phosphorus Alerts were redundantly duplicated across multiple uses for this waterbody, the Alerts are being removed from the Secondary Contact Recreation Use but will continue to be maintained under the Aesthetics and Aquatic Life uses, respectively. MassDEP staff collected historic *E. coli* bacteria samples in the North Branch Hoosic River (MA11-01) from 1997-2007 at 4 stations. Samples were collected from the following stations/sample years from upstream to downstream: W1124 (Henderson Rd, Clarksburg) in 2002 and 2007 (n=5/yr), W0428 (~20 ft upstream/N of Hudson Brook confluence with N Branch Hoosic River, North Adams) from Jul-Sep 1997 (n=2), W1132 (~400 ft upstream/E of the most westerly Beaver St (Rt. 8) bridge crossing in North Adams) from Aug-Sep 2002 (n=2), and W1123 (~550 ft downstream/W of the most westerly Beaver St (Rt. 8) bridge crossing in North Adams) in 2002 and 2007 (n= 3 & 5/yr, respectively). There were no exceedances of the 244 CFU/100mL threshold for GM intervals nor the 794 CFU/100mL STV threshold (note that the data from W0428 and W1132 were too limited according to the 2024 CALM to calculate GMs), however the data from these 4 stations cannot be used to positively assess the Secondary Contact Recreation Use since they were collected prior to the current IR window (2011-2022).

Monitoring Stations

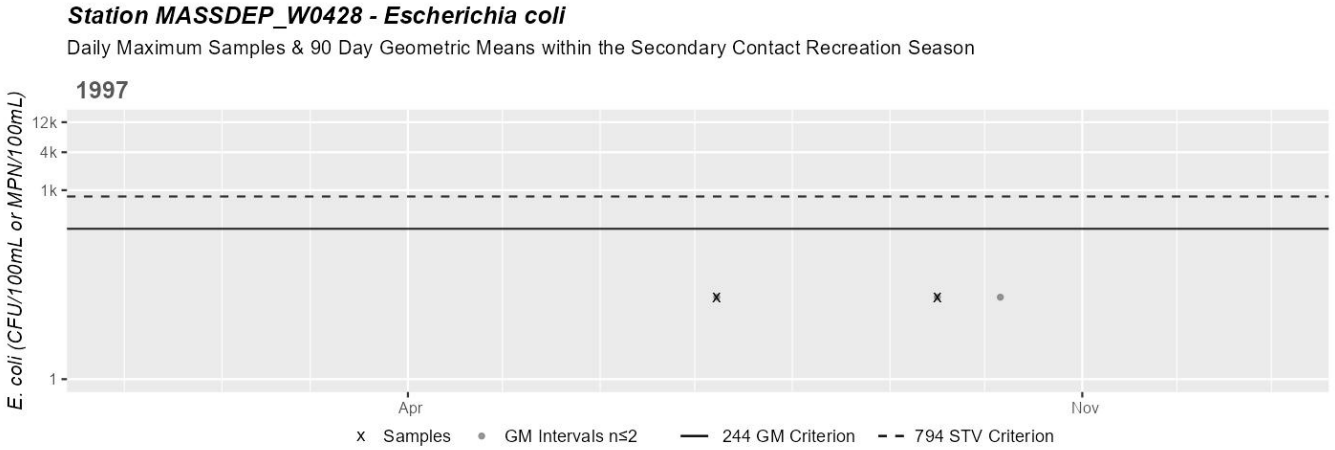
Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0428	MassDEP	Water Quality	North Branch Hoosic River	[approximately 20 feet upstream/north of Hudson Brook confluence with North Branch Hoosic River, North Adams.]	42.705713	-73.089029
W1123	MassDEP	Water Quality	North Branch Hoosic River	[approximately 550 feet downstream/west of the most westerly Beaver Street (Route 8) bridge crossing in North Adams]	42.702829	-73.092659
W1124	MassDEP	Water Quality	North Branch Hoosic River	[Henderson Road, Clarksburg]	42.734582	-73.070872
W1132	MassDEP	Water Quality	North Branch Hoosic River	[approximately 400 feet upstream/east of the most westerly Beaver Street (Route 8) bridge crossing in North Adams]	42.702932	-73.089111

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis) **(**MassDEP Undated 6) (MassDEP Undated 3)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0428	MassDEP	E. coli	07/08/97	09/16/97	2	20	20	19
W1123	MassDEP	E. coli	05/07/02	07/17/02	3	40	80	57
W1123	MassDEP	E. coli	04/24/07	09/27/07	5	2	60	10
W1124	MassDEP	E. coli	05/07/02	09/18/02	5	30	330	109
W1124	MassDEP	E. coli	04/24/07	09/27/07	5	2	48	9
W1132	MassDEP	E. coli	08/14/02	09/18/02	2	150	150	149



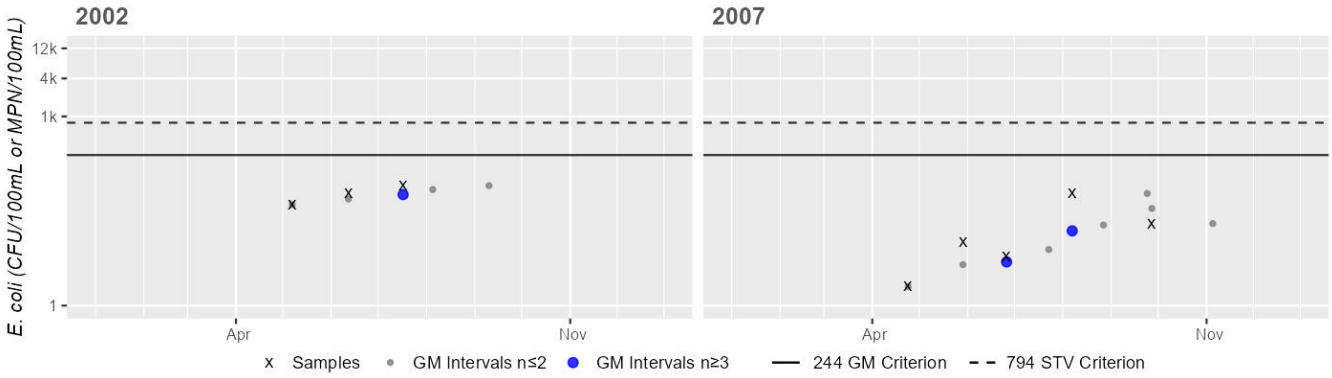
Variable*	Result
Samples	2
SeasGM	20
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W1123 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	3
SeasGM	57
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

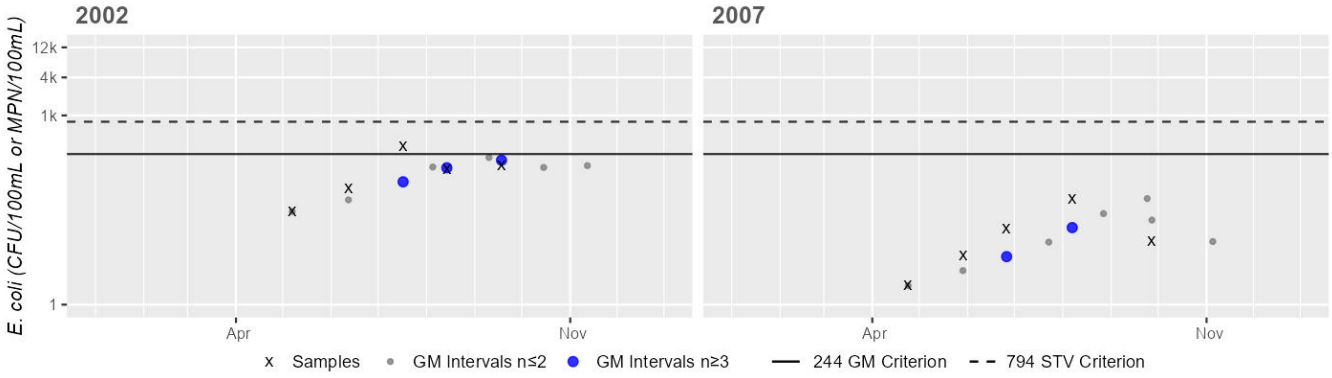
Variable*	Result
Samples	5
SeasGM	10
#GMI	2
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W1124 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	109
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

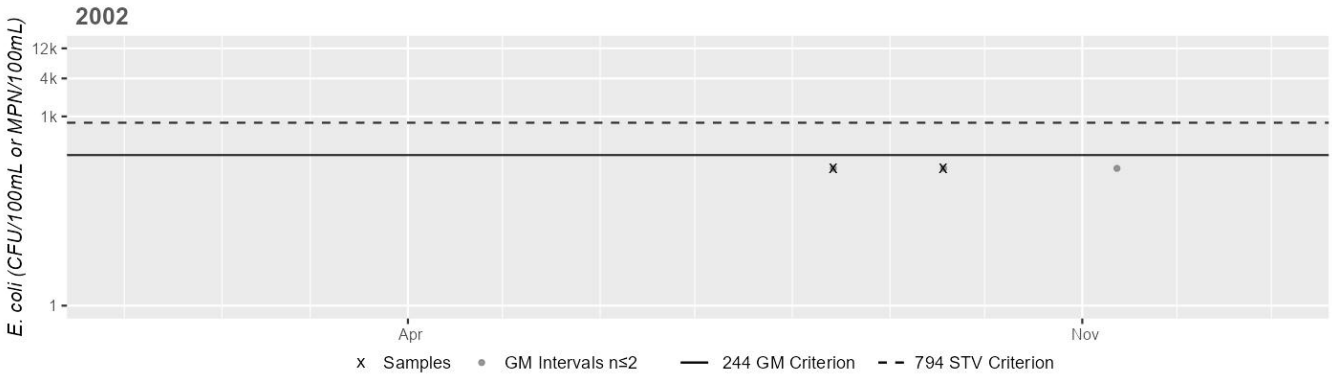
Variable*	Result
Samples	5
SeasGM	9
#GMI	2
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W1132 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	150
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

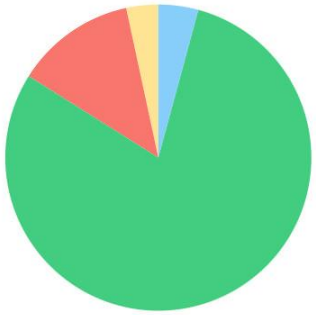
**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

North Branch Hoosic River (MA11-02)

Location:	From USGS Gage (# 01332000), North Adams to mouth at confluence with Hoosic River, North Adams.
AU Type:	RIVER
AU Size:	1.5 MILES
Classification/Qualifier:	B: CWF, HQW

North Branch Hoosic River (MA11-02)

Watershed Area: 43.67 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area* (square miles)	13.71	10.76	4.14	3.06
Agriculture	3.4%	3.6%	3.8%	3.9%
Developed	12.7%	15.4%	13.6%	16.7%
Natural	79.7%	76.5%	76.4%	73.1%
Wetland	4.2%	4.5%	6.3%	6.3%
Impervious	5.4%	6.7%	6.6%	8.4%

**Land cover analysis only includes watershed area within Massachusetts.*

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Alteration in Stream-side or Littoral Vegetative Covers*)	--	Unchanged
5	5	(Flow Regime Modification*)	--	Unchanged
5	5	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed
5	5	Fecal Coliform	R1_MA_2024_04	Changed
5	5	Polychlorinated Biphenyls (PCBs)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Alteration in Stream-side or Littoral Vegetative Covers*)	Channelization (Y)	X	--	--	--	--
(Alteration in Stream-side or Littoral Vegetative Covers*)	Streambank Modifications/Destabilization (Y)	X	--	--	--	--
(Flow Regime Modification*)	Channelization (Y)	X	--	--	--	--
(Flow Regime Modification*)	Streambank Modifications/Destabilization (Y)	X	--	--	--	--
Escherichia Coli (E. Coli)	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	--	--	--	X	--
Escherichia Coli (E. Coli)	Illicit Connections/Hook-ups to Storm Sewers (N)	--	--	--	X	--
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	--
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	--	--	--	X	--
Fecal Coliform	Illicit Connections/Hook-ups to Storm Sewers (N)	--	--	--	X	--
Fecal Coliform	Source Unknown (N)	--	--	--	X	--
Polychlorinated Biphenyls (PCBs)	Source Unknown (N)	X	--	--	--	--

Supporting Information for Removed Impairments

2022 Removed Impairment	Removal Reason	Removal Comment
Escherichia Coli (E. Coli)	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: Massachusetts Statewide TMDL for Pathogen-Impaired Waterbodies (Report CN 515.1, approved 2/13/2024, ATTAINS Action ID: R1_MA_2024_04)

2022 Removed Impairment	Removal Reason	Removal Comment
Fecal Coliform	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: Massachusetts Statewide TMDL for Pathogen-Impaired Waterbodies (Report CN 515.1, approved 2/13/2024, ATTAINS Action ID: R1_MA_2024_04)

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted in this North Branch Hoosic River AU (MA11-02), so the Fish Consumption Use is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
There are no data available to assess the status of the Aesthetics Use for this North Branch Hoosic River AU (MA11-02), so it is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
No new bacteria data are available for this North Branch Hoosic River AU (MA11-02), so the Primary Contact Recreation Use continues to be assessed as Not Supporting. The prior Fecal Coliform and Escherichia Coli (E. Coli) impairments are being carried forward.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary

No bacteria or other indicator data are available in the current IR window (2011-2022) for this North Branch Hoosic River AU (MA11-02), so the Secondary Contact Recreation Use is Not Assessed.
MassDEP staff collected historic *E. coli* bacteria samples in the North Branch Hoosic River (MA11-02) at W1597 (~360 ft W of Marshall St, North Adams (~1000 ft upstream from confluence with Hoosic River)) from May-Sep 2007 (n=5). While 75% of intervals had GMs >244 CFU/100mL, no samples exceeded the 794 CFU/100mL STV (the overall GM was 259 CFU/100mL), so an impairment of the Secondary Contact Recreation Use is not warranted. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be assessed positively using these bacteria data.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1597	MassDEP	Water Quality	North Branch Hoosic River	[approximately 360 feet west of Marshall Street, North Adams (approximately 1000 feet upstream from confluence with Hoosic River)]	42.702392	-73.115148

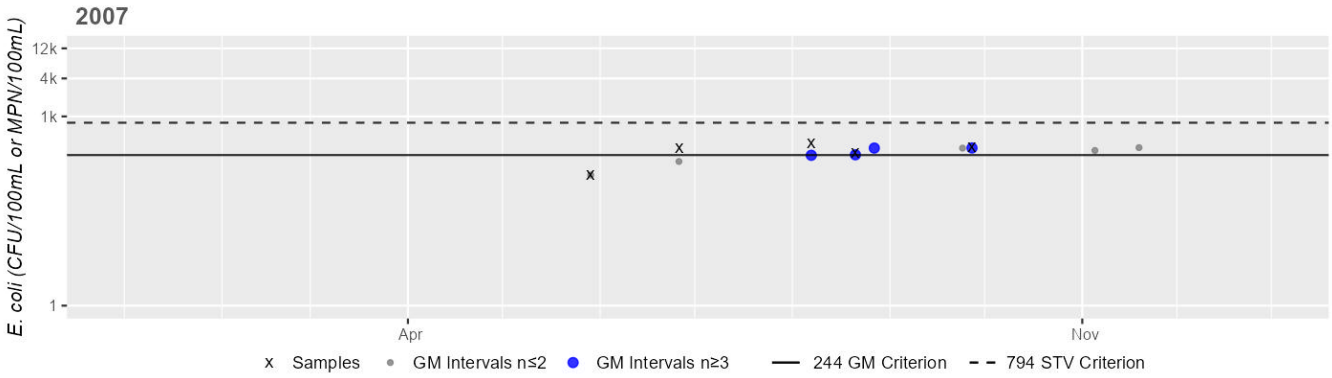
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(MassDEP Undated 6) (MassDEP Undated 3)
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1597	Massachusetts Department of Environmental Protection	E. coli	05/29/07	09/27/07	5	118	380	259

Station MASSDEP_W1597 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	259
#GMI	4
#GMI Ex	3
%GMI Ex	75%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
75%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Notch Brook (MA11-37)

Location:	Headwaters, perennial portion west of Ragged Mountain, Adams to inlet of Notch Reservoir, North Adams.
AU Type:	RIVER
AU Size:	1.2 MILES
Classification/Qualifier:	A: PWS, ORW, CWF (Tributary)

No usable data were available for Notch Brook (MA11-37) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

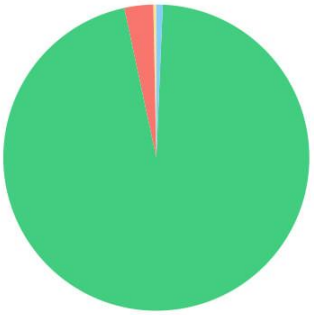
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Notch Brook (MA11-38)

Location:	From outlet of Notch Reservoir, North Adams to mouth at confluence with the Hoosic River, North Adams.
AU Type:	RIVER
AU Size:	2.1 MILES
Classification/Qualifier:	B: CWF

Notch Brook (MA11-38)

Watershed Area: 3.61 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	3.61	2.93	1.81	1.54
Agriculture	0.3%	0.4%	0.3%	0.3%
Developed	3.1%	3.8%	3%	3.6%
Natural	96%	95.1%	95.6%	95%
Wetland	0.7%	0.7%	1.1%	1.1%
Impervious	1.1%	1.3%	1.3%	1.5%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted in this Notch Brook AU (MA11-38), so the Fish Consumption Use is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for this Notch Brook AU (MA11-38) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for this Notch Brook AU (MA11-38) is assessed as Fully Supporting based on 2022 HVA bacteria data from HVA_NBHR20. HVA staff/volunteers collected *E. coli* bacteria samples in Notch Brook (MA11-38) at HVA_NBHR200 (Brook located on the S side of Rt. 2 E of the driveway to the YMCA in North Adams, just upstream of the culvert prior to the confluence with the Hoosic River) from Jun-Sep 2022 (n=8). Analysis of this moderate frequency *E. coli* dataset indicated 45% of intervals had GMs >126 CFU/100mL and 1 sample exceeded the 410 CFU/100mL STV. *E. coli* data from HVA_NBHR200 were not indicative of an impaired condition.

Monitoring Stations

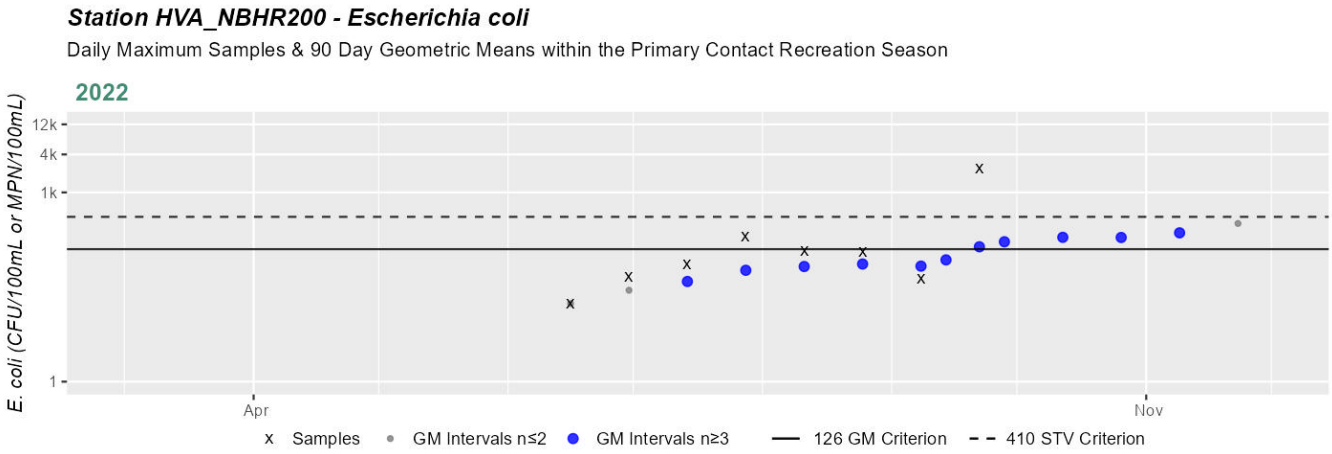
Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
HVA_NBHR200	Housatonic Valley Association	Water Quality	Notch Brook, Hoosic River Main Stem	Brook located on the south side of Rt. 2 east of the driveway to the YMCA in North Adams, just upstream of the culvert prior to the confluence with the Hoosic River.	42.698332	-73.136461

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (HVA 2022) (MassDEP Undated 2)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
HVA_NBHR200	Housatonic Valley Association	E. coli	06/16/22	09/22/22	8	17	2419	106



Variable*	Result
Samples	8
SeasGM	106
#GMI	11
#GMI Ex	5
%GMI Ex	45%
n>STV	1
%n>STV	12%

Cumulative %GMI Exceedance
Current (2011-2022)
45%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for this Notch Brook AU (MA11-38) is assessed as Fully Supporting based on 2022 HVA bacteria data from HVA_NBHR20. HVA staff/volunteers collected *E. coli* bacteria samples in Notch Brook (MA11-38) at HVA_NBHR200 (Brook located on the S side of Rt. 2 E of the driveway to the YMCA in North Adams, just upstream of the culvert prior to the confluence with the Hoosic River) from Jun-Sep 2022 (n=8). Analysis of this moderate frequency *E. coli* dataset indicated none of the intervals had GMs >244 CFU/100mL and 1 sample exceeded the 794 CFU/100mL STV. *E. coli* data from HVA_NBHR200 were indicative of good water quality conditions.

Monitoring Stations

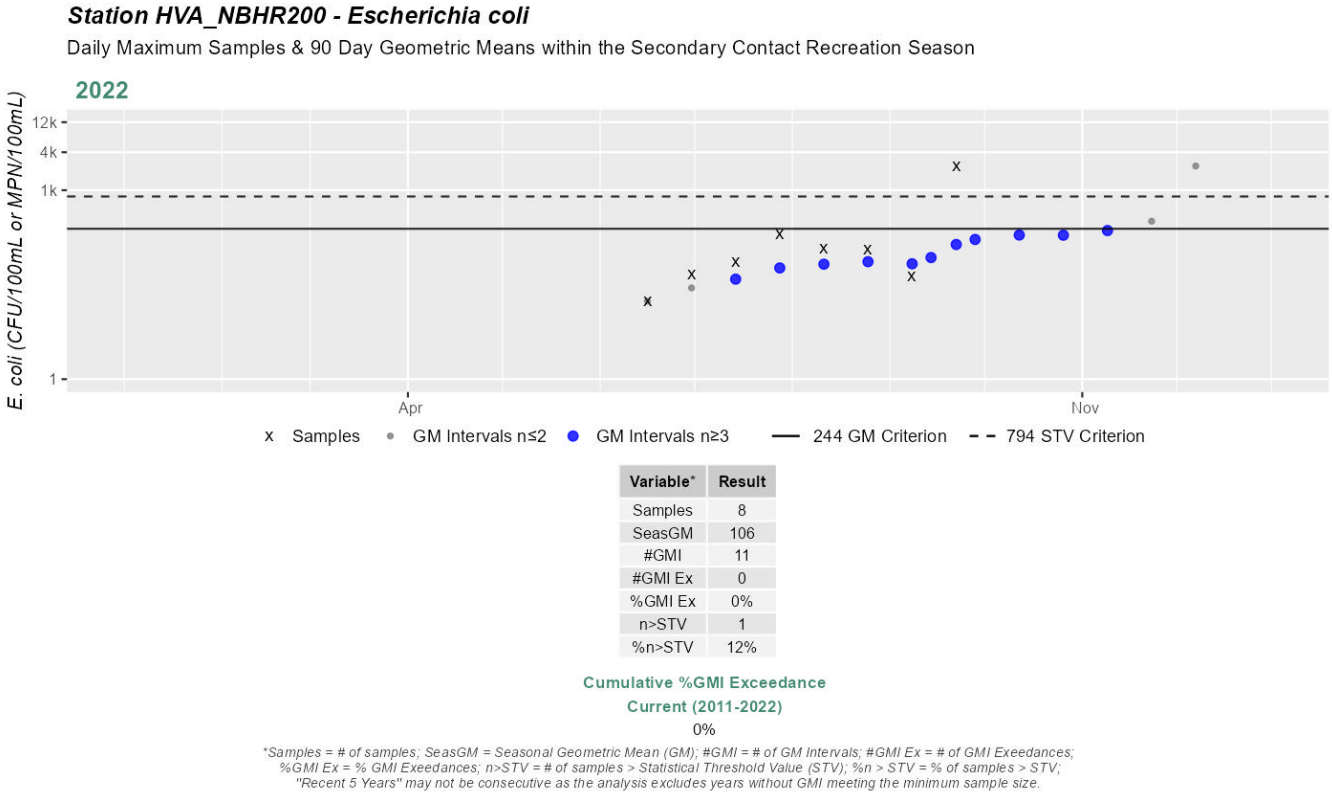
Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
HVA_NBHR200	Housatonic Valley Association	Water Quality	Notch Brook, Hoosic River Main Stem	Brook located on the south side of Rt. 2 east of the driveway to the YMCA in North Adams, just upstream of the culvert prior to the confluence with the Hoosic River.	42.698332	-73.136461

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis) (HVA 2022) (MassDEP Undated 1) **(**MassDEP Undated 6) (MassDEP Undated 3)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
HVA_NBHR200	Housatonic Valley Association	E. coli	06/16/22	09/22/22	8	17	2419	106



Notch Reservoir (MA11011)

Location:	North Adams.
AU Type:	FRESHWATER LAKE
AU Size:	12 ACRES
Classification/Qualifier:	A: PWS, ORW

No usable data were available for Notch Reservoir (MA11011) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Patton Brook (MA11-39)

Location:	Headwaters, north of Main Road, Savoy to mouth at confluence with Tophet Brook, Adams.
AU Type:	RIVER
AU Size:	1.4 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Patton Brook (MA11-39) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

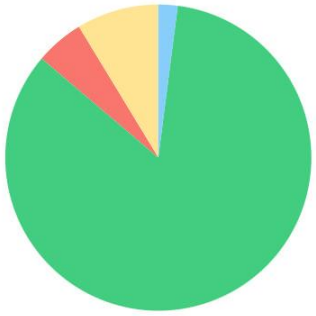
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Paull Brook (MA11-20)

Location:	Headwaters, outlet of Mt. Williams Reservoir, North Adams to mouth at confluence with unnamed tributary, Williamstown (includes former 1998 segment: Paull Brook MA11-14).
AU Type:	RIVER
AU Size:	2.1 MILES
Classification/Qualifier:	B

Paull Brook (MA11-20)

Watershed Area: 2.17 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	2.17	2.17	0.99	0.99
Agriculture	8.7%	8.7%	7.5%	7.5%
Developed	5.1%	5.1%	7.6%	7.6%
Natural	84.2%	84.2%	81.8%	81.8%
Wetland	2%	2%	3.1%	3.1%
Impervious	2%	2%	2.8%	2.8%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Dewatering*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Dewatering*)	Baseflow Depletion from Groundwater Withdrawals (N)	X	--	--	--	--
(Dewatering*)	Dam or Impoundment (Y)	X	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted in Paull Brook (MA11-20), so the Fish Consumption Use is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Paull Brook (MA11-20) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data are available for Paull Brook (MA11-20), so the Primary Contact Recreation Use is Not Assessed.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Paull Brook (MA11-20) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected historical *E. coli* bacteria samples in Paull Brook (MA11-20) from 2002-2007 at 2 stations. Limited samples were collected from the following stations/sample years from upstream to downstream: W1133 (Rt. 2, North Adams) in 2002 and 2007 (n=1-2/yr) and W1125 (Galvin Rd, North Adams) in 2002 and 2007 (n=3-4/yr). Data from W1133 are too limited to assess according to the 2024 CALM (note the one sample collected in Aug 2002 was elevated at 1300 CFU/100mL). Historic *E. coli* data from W1125 were indicative of good water quality conditions (GMs were never >244 CFU/100mL, and neither year had ≥2 samples exceed the 794 CFU/100mL STV), however since they were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1125	MassDEP	Water Quality	Paull Brook	[Galvin Road, North Adams]	42.702471	-73.174158
W1133	MassDEP	Water Quality	Paull Brook	[Route 2, North Adams]	42.700907	-73.170031

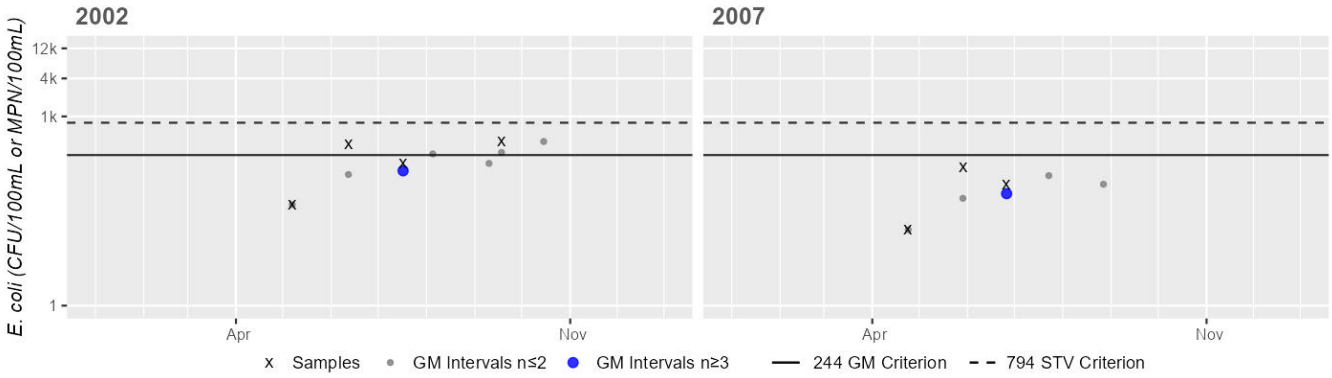
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(MassDEP Undated 6) (MassDEP Undated 3)
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1125	Massachusetts Department of Environmental Protection	E. coli	05/07/02	09/18/02	4	40	400	179
W1125	Massachusetts Department of Environmental Protection	E. coli	04/24/07	06/26/07	3	16	158	59
W1133	Massachusetts Department of Environmental Protection	E. coli	08/14/02	08/14/02	1	1300	1300	1300
W1133	Massachusetts Department of Environmental Protection	E. coli	08/07/07	09/27/07	2	20	108	46

Station MASSDEP_W1125 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	4
SeasGM	179
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

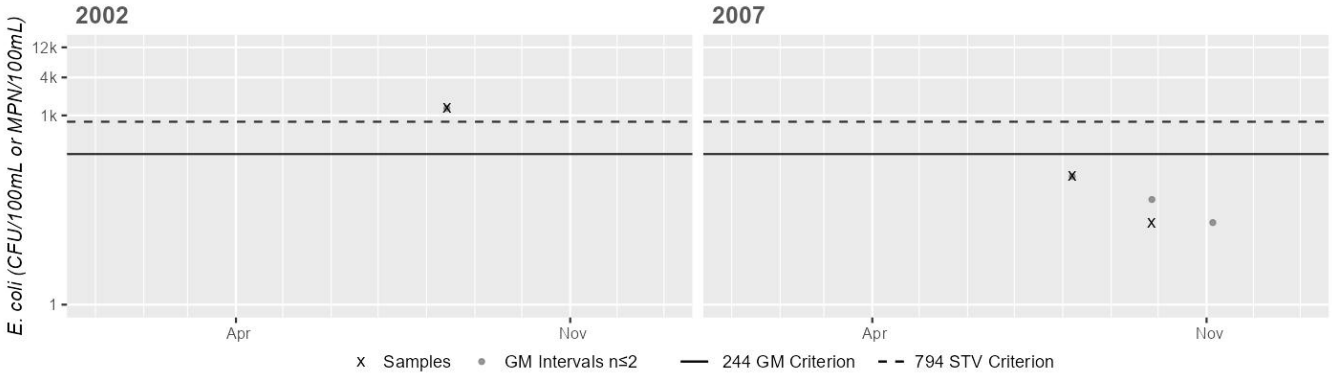
Variable*	Result
Samples	3
SeasGM	59
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W1133 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	1
SeasGM	1300
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	100%

Variable*	Result
Samples	2
SeasGM	46
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Pecks Brook (MA11-18)

Location:	Headwaters, perennial portion, west of West Mountatin Road, Adams to mouth at confluence with the Hoosic River, Adams.
AU Type:	RIVER
AU Size:	2.7 MILES
Classification/Qualifier:	B

Pecks Brook (MA11-18)

Watershed Area: 3.30 square miles

Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	3.30	3.30	1.22	1.22
Agriculture	1.8%	1.8%	1%	1%
Developed	6%	6%	7.2%	7.2%
Natural	90.5%	90.5%	89.2%	89.2%
Wetland	1.7%	1.7%	2.5%	2.5%
Impervious	2.2%	2.2%	3%	3%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted in Pecks Brook (MA11-18), so the Fish Consumption Use for is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
There are no data available to assess the status of the Aesthetics Use for Pecks Brook (MA11-18), so it is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
There are no bacteria data available to assess the status of the Primary Contact Recreation Use for Pecks Brook (MA11-18), so it is Not Assessed.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Pecks Brook (MA11-18) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected historic *E. coli* bacteria samples in Pecks Brook at W1121 (West Rd, Adams) from May-Sep 2002 (n=5). Analysis of this limited frequency dataset indicated no intervals had GMs >244 CFU/100mL, no samples exceeded the 794 CFU/100mL STV, and the overall GM was 19 CFU/100mL. While these data were indicative of good water quality conditions, since they were collected prior to the current IR window (2011-2022), the Secondary Contact Recreation Use cannot be positively assessed.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1121	MassDEP	Water Quality	Pecks Brook	[West Road, Adams]	42.621905	-73.134641

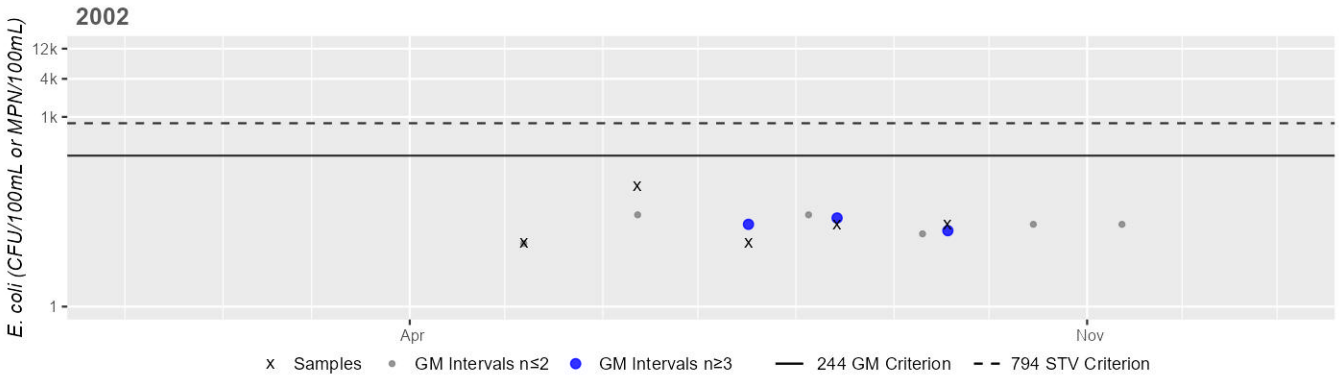
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(MassDEP Undated 6) (MassDEP Undated 3)
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1121	Massachusetts Department of Environmental Protection	E. coli	05/07/02	09/18/02	5	10	80	19

Station MASSDEP_W1121 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	20
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Penniman Brook (MA11-40)

Location:	Headwaters, perennial portion west of Route 8 (North State Road), Cheshire to mouth at confluence with the Hoosic River, Cheshire.
AU Type:	RIVER
AU Size:	0.7 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Penniman Brook (MA11-40) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Pettibone Brook (MA11-41)

Location:	Headwaters, perennial portion west of Curran Road, Cheshire to mouth at inlet Cheshire Reservoir, Middle Basin, Cheshire.
AU Type:	RIVER
AU Size:	2.4 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Pettibone Brook (MA11-41) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Sherman Brook (MA11-42)

Location:	Headwaters, perennial portion north of Massachusetts Avenue, North Adams to mouth at confluence with the Hoosic River, North Adams.
AU Type:	RIVER
AU Size:	0.9 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Sherman Brook (MA11-42) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

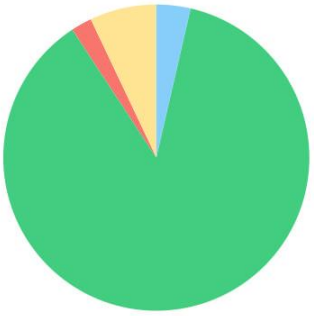
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

South Brook (MA11-15)

Location:	Headwaters, west of Weston Mountain, Dalton to mouth at confluence with the Hoosic River, Cheshire (includes former 1998 segment: South Brook MA11-11).
AU Type:	RIVER
AU Size:	4.1 MILES
Classification/Qualifier:	B: CWF

South Brook (MA11-15)

Watershed Area: 7.15 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	7.15	5.79	2.75	2.15
Agriculture	7.1%	8.7%	4%	5.1%
Developed	2.2%	2.4%	2.7%	3.2%
Natural	87.1%	86.2%	87.1%	87.8%
Wetland	3.6%	2.6%	6.3%	3.9%
Impervious	0.7%	0.8%	0.9%	1.1%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Recommendations

2024/26 Recommendations
2024/2026 IR [Algae, Low] Additional monitoring should be performed on South Brook (MA11-15) to confirm the presence of dense filamentous that was observed by MassDEP in 2007 near Wells Road, Cheshire. {W1118}

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert

Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted in South Brook (MA11-15), so the Fish Consumption Use is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	YES

2024/26 Use Attainment Summary
There are no data available to assess the status of the Aesthetics Use for South Brook (MA11-15), so it is Not Assessed. The prior Alert identified for filamentous algae noted by MassDEP biologists in the brook near Wells Road, Cheshire (W1118) in May and October 2007 is being carried forward.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
There are no bacteria data available to assess the status of the Primary Contact Recreation Use for South Brook (MA11-15), so it is Not Assessed. The prior Alert for filamentous algae is being removed from the recreational uses but continues to be maintained under the Aesthetics Use.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary

No bacteria or other indicator data for South Brook (MA11-15) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. The prior Alert for filamentous algae is being removed from the recreational uses but continues to be maintained under the Aesthetics Use.

MassDEP staff collected historic *E. coli* bacteria samples in South Brook from 2002-2007 at 7 stations. Samples were collected from the following stations/sample years from upstream to downstream: W1675 (W off Notch Rd, ~20 ft upstream of the mixing zone of the unnamed tributary that is ~2300 ft upstream from the McDonald Brook confluence, Cheshire) from Jul-Aug 2006 (n=2), W1676 (the Notch Rd crossing just upstream of the McDonald Brook confluence, Cheshire) from Jul-Aug 2006 (n=2), W1674 (the Notch Rd crossing nearest Windsor Rd, Cheshire) from Jul-Aug 2006 (n=2), W1677 (~200 ft upstream from Windsor Rd (in 'swimming hole'), Cheshire) from Aug 2006 (n=2), W1661 (E Main St/Windsor Rd, Cheshire) from Jul-Aug 2006 (n=3), W1118 (Wells Rd, Cheshire) in 2002 and 2006-2007 (n=3-5/yr), W1678 (~20 ft upstream from the confluence with the Hoosic River, Cheshire) from Jul-Aug 2006 (n=2). Historic data from W1675, W1676, W1674, W1677, and W1678 are too limited to assess according to the 2024 CALM. Historic *E. coli* data from W1661 and W1118 were generally indicative of good conditions but were collected prior to the current IR window (2011-2022)- consequently the Secondary Contact Recreation Use for this AU is Not Assessed.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1118	MassDEP	Water Quality	South Brook	[Wells Road, Cheshire]	42.562974	-73.151359
W1661	MassDEP	Water Quality	South Brook	[East Main Street/Windsor Road, Cheshire]	42.560958	-73.151119
W1674	MassDEP	Water Quality	South Brook	[the Notch Road crossing nearest Windsor Road, Cheshire]	42.556269	-73.144816
W1675	MassDEP	Water Quality	South Brook	[west off Notch Road, approximately 20 feet upstream of the mixing zone of the unnamed tributary that is approximately 2300 feet upstream from the McDonald Brook confluence, Cheshire]	42.549016	-73.135916
W1676	MassDEP	Water Quality	South Brook	[the Notch Road crossing just upstream of the McDonald Brook confluence, Cheshire]	42.553683	-73.139806
W1677	MassDEP	Water Quality	South Brook	[approximately 200 feet upstream from Windsor Road (in 'swimming hole'), Cheshire]	42.560557	-73.150631
W1678	MassDEP	Water Quality	South Brook	[approximately 20 feet upstream from the confluence with the Hoosic River, Cheshire]	42.565384	-73.152881

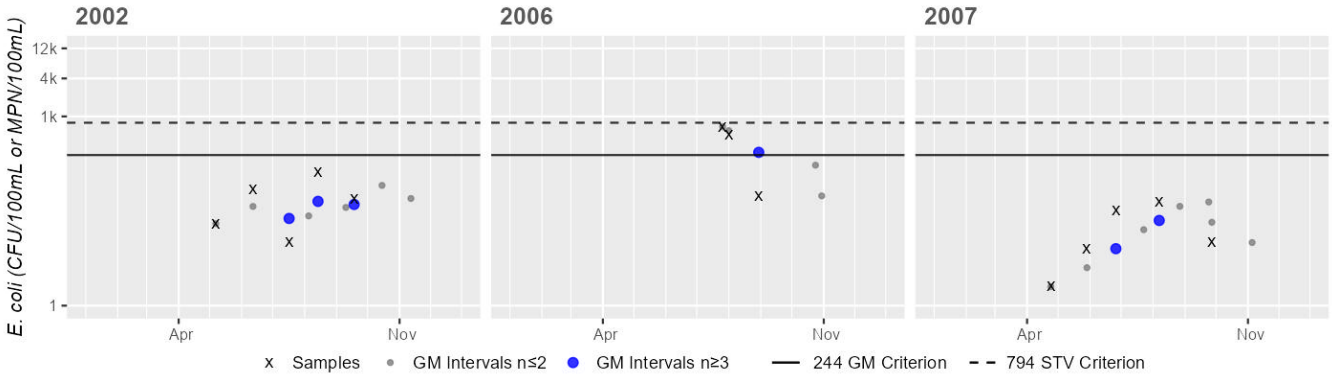
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(MassDEP Undated 6) (MassDEP Undated 3)
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1118	Massachusetts Department of Environmental Protection	E. coli	05/07/02	09/18/02	5	10	130	39
W1118	Massachusetts Department of Environmental Protection	E. coli	07/26/06	08/30/06	3	55	687	269
W1118	Massachusetts Department of Environmental Protection	E. coli	04/24/07	09/27/07	5	2	44	11
W1661	Massachusetts Department of Environmental Protection	E. coli	07/26/06	08/30/06	3	42	921	141
W1674	Massachusetts Department of Environmental Protection	E. coli	07/26/06	08/30/06	2	54	73	62
W1675	Massachusetts Department of Environmental Protection	E. coli	07/26/06	08/30/06	2	21	46	31
W1676	Massachusetts Department of Environmental Protection	E. coli	07/26/06	08/30/06	2	48	166	89
W1677	Massachusetts Department of Environmental Protection	E. coli	08/01/06	08/30/06	2	59	61	59
W1678	Massachusetts Department of Environmental Protection	E. coli	07/26/06	08/30/06	2	71	140	99

Station MASSDEP_W1118 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	39
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	3
SeasGM	269
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	0
%n>STV	0%

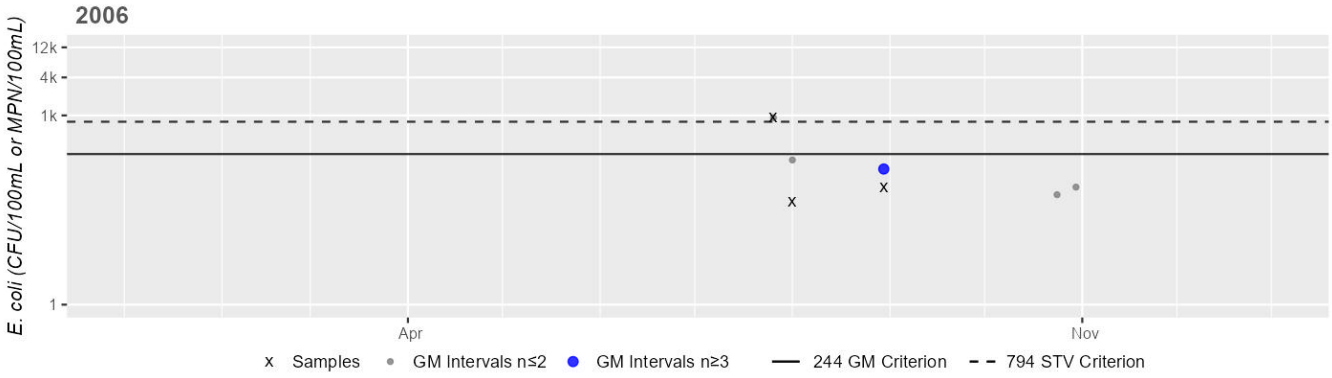
Variable*	Result
Samples	5
SeasGM	11
#GMI	2
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
16%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W1661 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



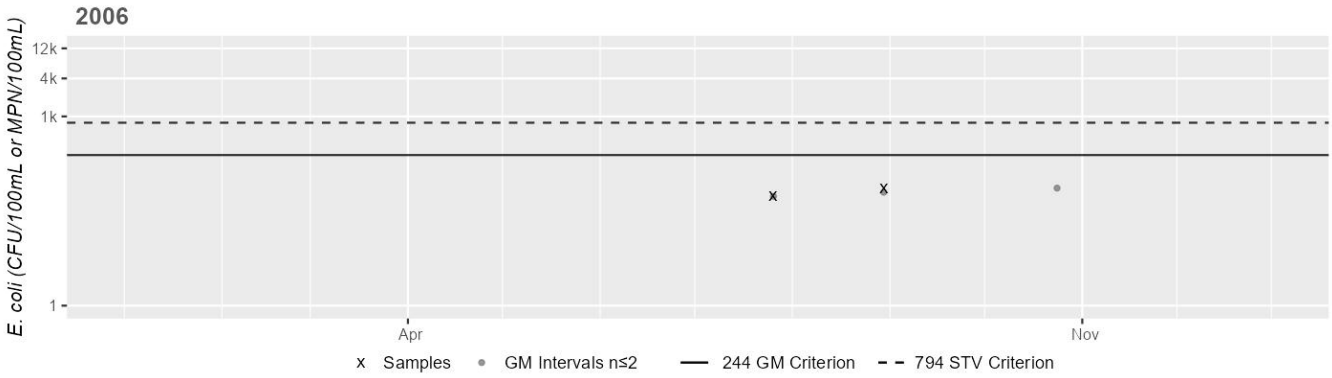
Variable*	Result
Samples	3
SeasGM	141
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	33%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W1674 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



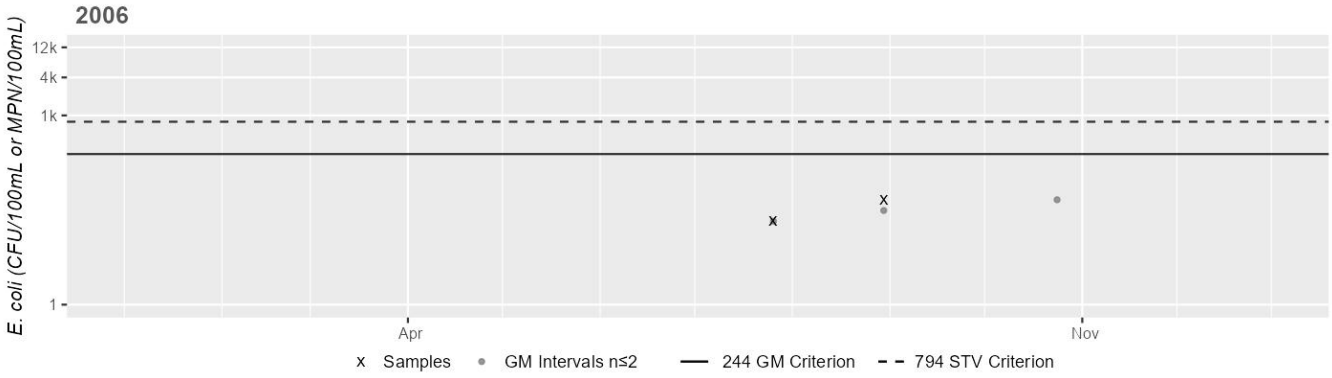
Variable*	Result
Samples	2
SeasGM	62
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W1675 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



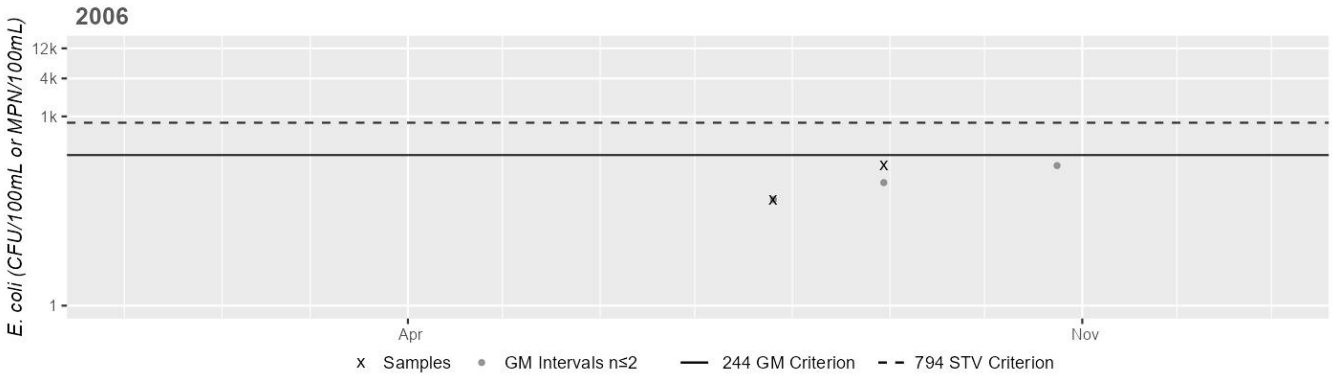
Variable*	Result
Samples	2
SeasGM	31
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W1676 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



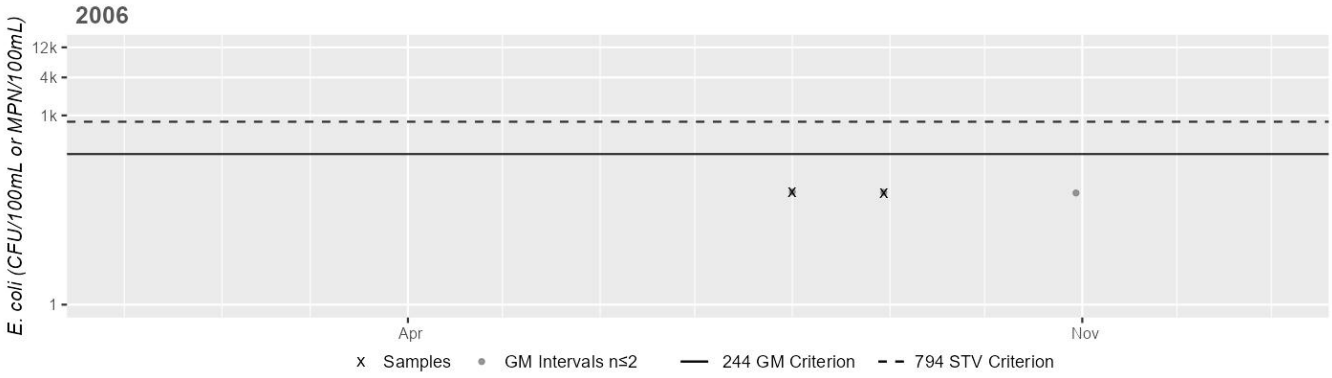
Variable*	Result
Samples	2
SeasGM	89
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W1677 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



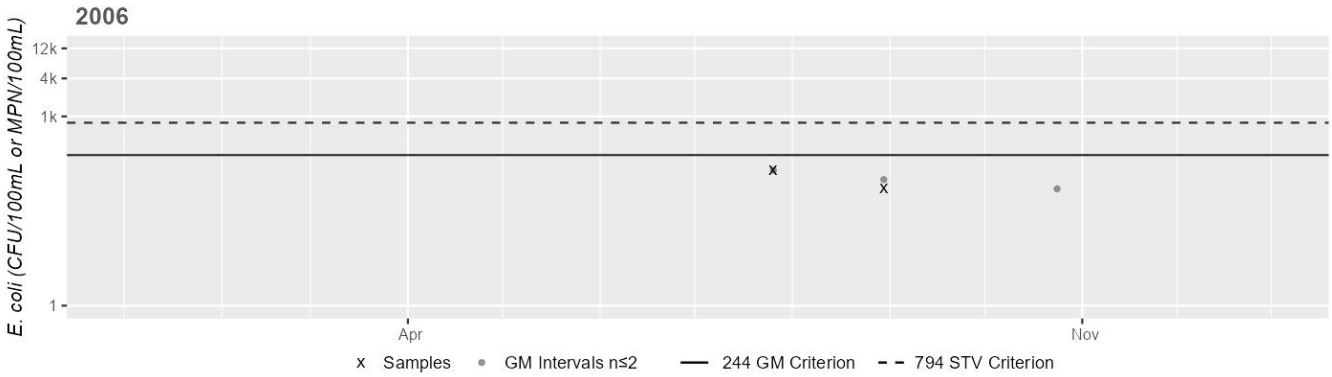
Variable*	Result
Samples	2
SeasGM	59
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Station MASSDEP_W1678 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	99
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Sweet Brook (MA11-43)

Location:	Headwaters, perennial portion west of Oblong Road, Williamstown to mouth at confluence with Hemlock Brook, Williamstown.
AU Type:	RIVER
AU Size:	2.9 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Sweet Brook (MA11-43) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Thunder Brook (MA11-10)

Location:	Headwaters, perennial portion, Cheshire to mouth at confluence with Kitchen Brook, Cheshire.
AU Type:	RIVER
AU Size:	1.5 MILES
Classification/Qualifier:	A: PWS, ORW

No usable data were available for Thunder Brook (MA11-10) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

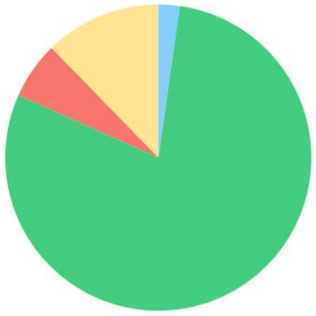
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Tophet Brook (MA11-19)

Location:	Source west of Burnett Road, Savoy (in the Savoy Mountain State Forest) to mouth at confluence with the Hoosic River, Adams (includes former 1998 segment: Tophet Brook MA11-08).
AU Type:	RIVER
AU Size:	6.2 MILES
Classification/Qualifier:	B

Tophet Brook (MA11-19)

Watershed Area: 7.31 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	7.31	6.20	2.06	1.90
Agriculture	12.3%	13.8%	7.8%	8.3%
Developed	6%	7.1%	9.6%	10.4%
Natural	79.4%	77%	79.5%	78.3%
Wetland	2.2%	2.1%	3.1%	3%
Impervious	2.3%	2.7%	4.6%	5%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Alteration in Stream-side or Littoral Vegetative Covers*)	--	Unchanged
4c	4c	(Flow Regime Modification*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Alteration in Stream-side or Littoral Vegetative Covers*)	Channelization (Y)	X	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Alteration in Stream-side or Littoral Vegetative Covers*)	Streambank Modifications/Destabilization (Y)	X	--	--	--	--
(Flow Regime Modification*)	Channelization (Y)	X	--	--	--	--
(Flow Regime Modification*)	Streambank Modifications/Destabilization (Y)	X	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently in Tophet Brook (MA11-19), so the Fish Consumption Use is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
There are no data available to assess the status of the Aesthetics Use for Tophet Brook (MA11-19), so it is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
There are no bacteria or other indicator data available to assess the status of the Primary Contact Recreation Use for Tophet Brook (MA11-19), so it is Not Assessed.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Tophet Brook (MA11-19) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected historic *E. coli* bacteria samples in Tophet Brook at W1122 (E St, Adams) in 2002 and 2007 (n=5/yr). Analysis of this multi-year, limited frequency dataset indicated none of the data years had intervals where >20% of the GMs were >244 CFU/100mL, none of the years had ≥2 samples exceed the 794 CFU/100mL STV, and cumulatively across years none of the intervals had GMs >244 CFU/100mL. While historic *E. coli* data from W1122 were indicative of good water quality conditions, since they were collected prior to the current IR window (2011-2022), the Secondary Contact Recreation Use cannot be positively assessed.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1122	MassDEP	Water Quality	Tophet Brook	[East Street, Adams]	42.615550	-73.104016

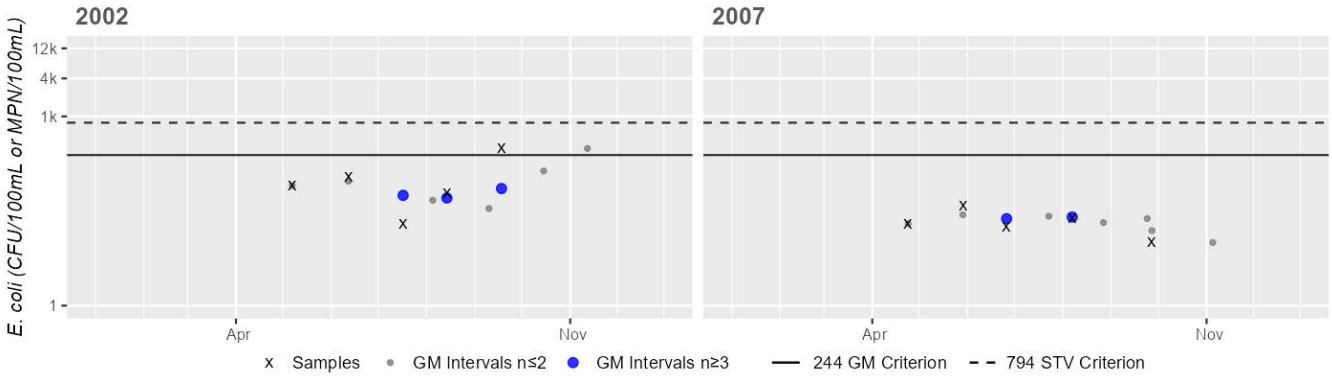
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(MassDEP Undated 6) (MassDEP Undated 3)
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1122	Massachusetts Department of Environmental Protection	E. coli	05/07/02	09/18/02	5	20	310	79
W1122	Massachusetts Department of Environmental Protection	E. coli	04/24/07	09/27/07	5	10	38	20

Station MASSDEP_W1122 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	79
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	5
SeasGM	20
#GMI	2
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Tunnel Brook (MA11-26)

Location:	Headwaters, outlet small unnamed pond east of West Shaft Road, North Adams to mouth at confluence with Phillips Creek, North Adams.
AU Type:	RIVER
AU Size:	1.7 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Tunnel Brook (MA11-26) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

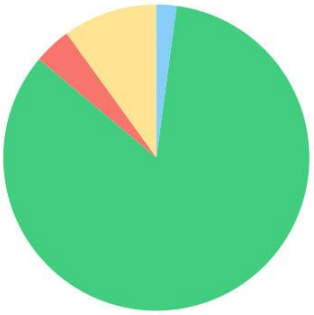
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

West Branch Green River (MA11-22)

Location:	Headwaters, perennial portion, west of Route 43, Hancock (near New York border) to mouth at confluence with Green River, Williamstown.
AU Type:	RIVER
AU Size:	7.9 MILES
Classification/Qualifier:	B

West Branch Green River (MA11-22)

Watershed Area: 14.80 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area* (square miles)	14.20	7.97	4.26	2.56
Agriculture	10%	14%	12.4%	13.4%
Developed	3.9%	5.4%	6.5%	8.7%
Natural	84%	77.7%	76%	71.1%
Wetland	2.1%	2.9%	5.1%	6.7%
Impervious	1.1%	1.4%	1.9%	2.3%

**Land cover analysis only includes watershed area within Massachusetts.*

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted in the West Branch Green River (MA11-22), so the Fish Consumption Use is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for the West Branch Green River (MA11-22) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for the West Branch Green River (MA11-22) is assessed as Fully Supporting based on 2022 data collected by HVA at HVA_WBGR700. HVA staff/volunteers collected *E. coli* bacteria samples in the West Branch Green River (MA11-22) at HVA_WBGR700 (Bloedel Park – Stream access to the west of the picnic area in south Williamstown near the corner of New Ashford Rd & Rt 7) from Jun-Sep 2022 (n=8). Analysis of the moderate frequency dataset indicated 18% of intervals had GMs >126 CFU/100mL and 1 sample exceeded the 410 CFU/100mL STV. *E. coli* data from HVA_WBGR700 were indicative of good water quality conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
HVA_WBGR700	Housatonic Valley Association	Water Quality	West Branch Green River	Bloedel Park - Stream access to the west of the picnic area in South Williamstown near corner of New Ashford Rd & Rt 7	42.66001	-73.24174

Bacteria Data

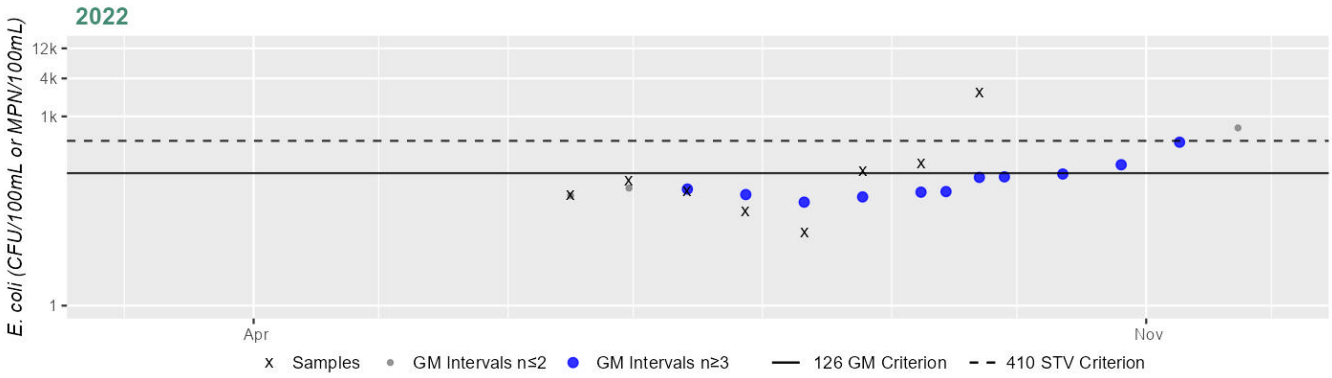
Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (HVA 2022) (MassDEP Undated 2)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
HVA_WBGR700	Housatonic Valley Association	E. coli	06/16/22	09/22/22	8	14	2419	99

Station HVA_WBGR700 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	8
SeasGM	99
#GMI	11
#GMI Ex	2
%GMI Ex	18%
n>STV	1
%n>STV	12%

Cumulative %GMI Exceedance

Current (2011-2022)

18%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for the West Branch Green River (MA11-22) is assessed as Fully Supporting based on 2022 data collected by HVA at HVA_WBGR700. HVA staff/volunteers collected *E. coli* bacteria samples in the West Branch Green River (MA11-22) at HVA_WBGR700 (Bloedel Park – Stream access to the W of the picnic area in S Williamstown near the corner of New Ashford Rd & Rt 7) from Jun-Sep 2022 (n=8). Analysis of the moderate frequency dataset indicated 9% of intervals had GMs >244 CFU/100mL and 1 sample exceeded the 794 CFU/100mL STV. *E. coli* data from HVA_WBGR700 were indicative of good water quality conditions.

Monitoring Stations

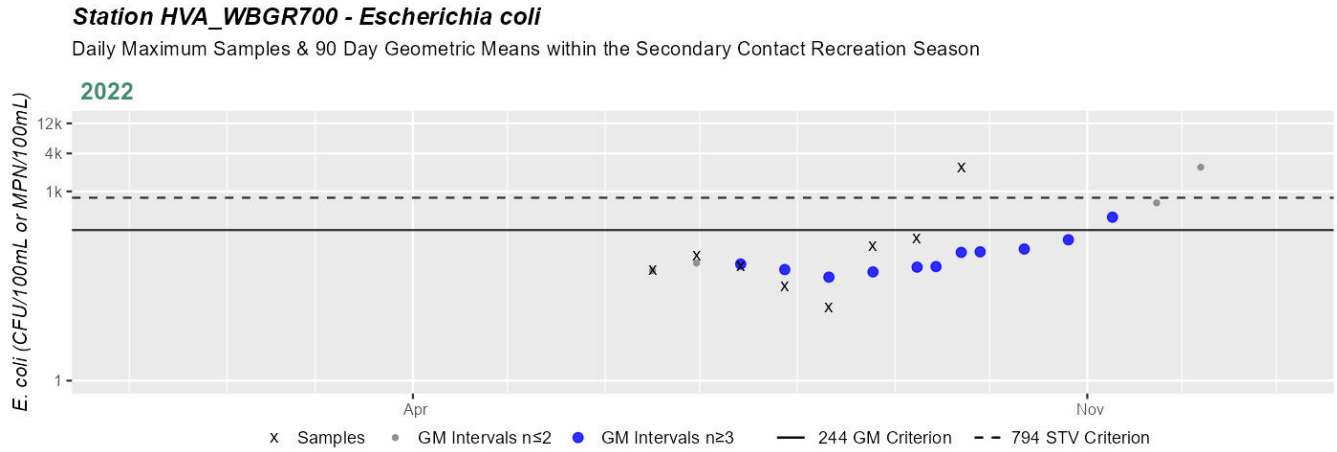
Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
HVA_WBGR700	Housatonic Valley Association	Water Quality	West Branch Green River	Bloedel Park - Stream access to the west of the picnic area in South Williamstown near corner of New Ashford Rd & Rt 7	42.66001	-73.24174

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis) (HVA 2022) (MassDEP Undated 1)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
HVA_WBGR700	Housatonic Valley Association	E. coli	06/16/22	09/22/22	8	14	2419	99



Variable*	Result
Samples	8
SeasGM	99
#GMI	11
#GMI Ex	1
%GMI Ex	9%
n>STV	1
%n>STV	12%

Cumulative %GMI Exceedance
Current (2011-2022)
9%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Windsor Lake (MA11016)

Location:	North Adams.
AU Type:	FRESHWATER LAKE
AU Size:	24 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Curly-leaf Pondweed*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Curly-leaf Pondweed*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Recommendations

2024/26 Recommendations
REC: Follow-up monitoring should be conducted in Windsor Lake (MA11016) to determine if Harmful Algal Blooms may be impairing the Recreational and Aesthetic uses. Monitoring may include observational data and collection of cyanobacteria cell count data, as well as tracking of any Harmful Algal Blooms reported to MA DPH.

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary

Fish toxics sampling has not been conducted in Windsor Lake (MA11016) recently, so the Fish Consumption Use is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	YES

2024/26 Use Attainment Summary
The Aesthetics Use for Windsor Lake (MA11016) is assessed as Fully Supporting based on observations made by MassDEP staff in 2016, but an Alert is being identified for Harmful Algal Blooms. Follow-up monitoring of this waterbody is warranted. MassDEP staff recorded aesthetics observations as part of the MAP2 monitoring project in summer 2016 at two stations in this Windsor Lake AU in North Adams, at the beach at the southwestern edge of the lake, east off Windsor Lake Road (W2613/MAP2L-034S, n=5) and at the deep hole index station (W2632/MAP2L-034, n=3). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, or littoral zone duckweed recorded in ten shoreline plots at W2613 (n=1), though staff noted green water on one occasion on Sep 7th at W2632 (field sheet notes indicated a dense algal bloom with 50-75% coverage was occurring at this station on this date (MassDEP Undated 6)). This information together with the data presented in the Primary Contact Recreation Use summary describing an elevated cyanobacteria cell count measured in the Sep 26th shoreline station sample indicate the need for a Harmful Algal Blooms Alert of the Aesthetics Use. During the MAP2 macrophyte mapping survey (n=1) in Jul 2016, less than 25% (6.5%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2613	MassDEP	Water Quality	Windsor Lake	[beach at southwestern edge of lake, east off Windsor Lake Road, North Adams]	42.686085	-73.094239
W2632	MassDEP	Water Quality	Windsor Lake	[index site, North Adams]	42.686336	-73.093192

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 4)
[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2613	2016	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2613 (MAP2L-034S) on Windsor Lake (MA11016) during 5 site visits between May 2016 and Sep 2016. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. During the MAP2 littoral survey (n=1), duckweed was not noted in any of the 10 shoreline plots.
W2632	2016	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2632 (MAP2L-034) on Windsor Lake (MA11016) during 3 site visits between Jun 2016 and Sep 2016. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted green water color (n=1). During the MAP2 macrophyte mapping survey (n=1) in Jul 2016, less than 25% (6.5%) of the waterbody was determined to have an aquatic macrophyte biovolume >50% and the survey also noted an aesthetics impairment flag due to excessive algal growth.

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 6)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2613	Windsor Lake	2016	Aesthetics Impaired?	No	5	5
W2613	Windsor Lake	2016	Color	None	5	5
W2613	Windsor Lake	2016	Objectionable Deposits	No	5	5
W2613	Windsor Lake	2016	Odor	None	5	5
W2613	Windsor Lake	2016	Scum	No	5	5
W2613	Windsor Lake	2016	Turbidity	None	4	5
W2613	Windsor Lake	2016	Turbidity	Slightly Turbid	1	5
W2632	Windsor Lake	2016	Aesthetics Impaired?	No	3	3
W2632	Windsor Lake	2016	Aquatic Plant Density, Overall	None	2	3
W2632	Windsor Lake	2016	Aquatic Plant Density, Overall	Unobservable	1	3
W2632	Windsor Lake	2016	Aquatic Plant Density, Whole Lake	NR	1	1
W2632	Windsor Lake	2016	Color	Greenish	1	3
W2632	Windsor Lake	2016	Color	Light Yellow/Tan	1	3
W2632	Windsor Lake	2016	Color	None	1	3
W2632	Windsor Lake	2016	Duckweed Density, Whole Lake	None	1	1
W2632	Windsor Lake	2016	Objectionable Deposits	No	3	3
W2632	Windsor Lake	2016	Odor	None	3	3
W2632	Windsor Lake	2016	Scum	No	2	3
W2632	Windsor Lake	2016	Scum	Yes	1	3
W2632	Windsor Lake	2016	Turbidity	None	1	3
W2632	Windsor Lake	2016	Turbidity	Slightly Turbid	2	3

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	YES

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Windsor Lake (MA11016) is assessed as Fully Supporting based on *E. coli* bacteria data collected at W2613 in 2016, however an Alert is being identified for Harmful Algal Blooms and additional sampling is recommended for this AU. MassDEP staff collected *E. coli* bacteria samples in Windsor Lake at W2613 (MAP2L-034S, beach at SW edge of lake, E off Windsor Lake Rd, N Adams) from May-Sep 2016 (n=5). Analysis of this limited frequency dataset indicated no intervals had GMs >126 CFU/100mL and no samples exceeded the 410 CFU/100mL STV (the seasonal GM was 1 CFU/100mL). MassDEP staff also collected Secchi and cyanobacteria cell count data in Windsor Lake at W2632 [MAP2L-034, Index-deep hole] in 2016, and cyanobacteria cell count and cyanotoxin data at W2613 (the shoreline station) in 2016. At station W2632 (station depth=5.7 m) the Secchi depth measurements ranged from 1.86-4.4 m (n=3) indicating water clarity meeting the 1.2 m (4 ft) threshold. The cyanobacteria cell count exceeded 70,000 cells/mL for a single sample on Sep 26, 2016 (n=6). The elevated cyanobacteria cell count measurement is indicative of a Harmful Algal Blooms Alert. Analysis of microcystins samples from the shoreline station, W2613 (n=3), indicated that the concentrations did not exceed the threshold of 8 µg/L.

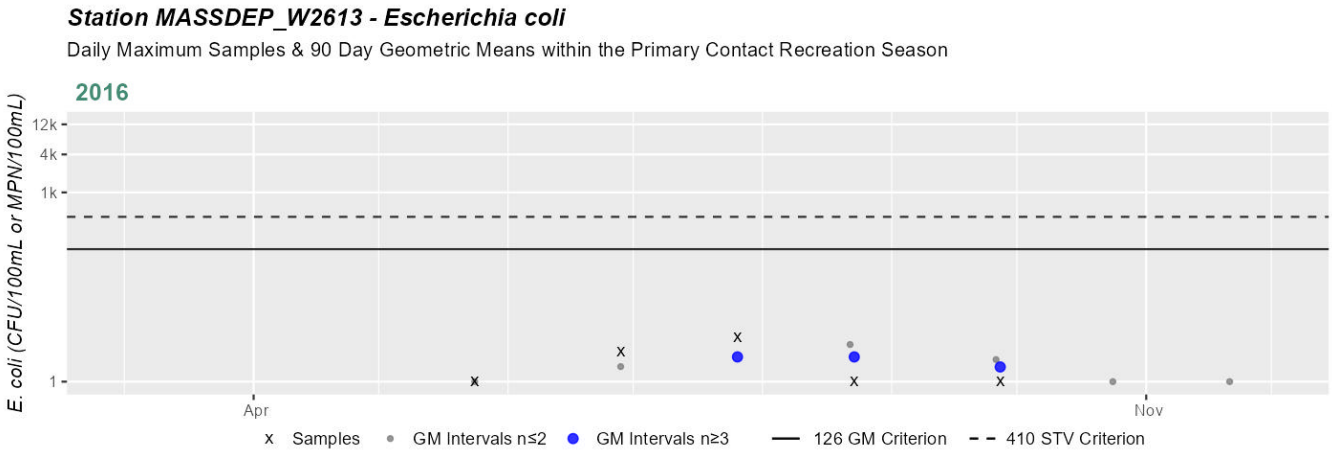
Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2613	MassDEP	Water Quality	Windsor Lake	[beach at south western edge of lake, east off Windsor Lake Road, North Adams]	42.686085	-73.094239
W2632	MassDEP	Water Quality	Windsor Lake	[index site, North Adams]	42.686336	-73.093192

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)
(MassDEP Undated 6) **(**MassDEP Undated 4)
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2613	Massachusetts Department of Environmental Protection	E. coli	05/23/16	09/26/16	5	1	5	1



Variable*	Result
Samples	5
SeasGM	1
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Other Indicators

Summary Statement for 2011-2022 Cyanobacteria Cell Count and Cyanotoxin Data, and Secchi Depth Data (MassDEP Undated 6) (MassDEP Undated 4)

Data Year	Summary
2016	In Windsor Lake (MA11016), MassDEP collected Secchi and cyanobacteria cell count data at W2632 [MAP2L-034, Index-deep hole] (2016) and cyanobacteria cell count and cyanotoxin data at W2613 [MAP2L-034S, Shoreline] (2016). In 2016 at station W2632 (station depth=5.7 m) the Secchi depth measurements ranged from 1.86-4.4 m (n=3) indicating water clarity meeting the 1.2 m (4 ft) threshold. The cyanobacteria cell count exceeded 70,000 cells/mL for a single sample on Sep 26, 2016 in 2016 (n=6). The elevated cyanobacteria cell count measurement is indicative of a Harmful Algal Blooms Alert. Analysis of microcystins samples from W2613 in 2016 (n=3) indicated that the concentrations did not exceed the threshold of 8 µg/L.

MassDEP Cyanobacteria Cell Count Data Collected at Lakes and Impoundments (2016-2018) (MassDEP Undated 6) (MassDEP Undated 4)

Station Code	Waterbody	Station Type	Data Year	Sample Count	Count >70,000 cells/mL	Exceedance Date(s)
W2613	Windsor Lake	Shoreline	2016	3	1	9/26/2016
W2632	Windsor Lake	Index	2016	3	0	NA

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	YES

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Windsor Lake (MA11016) is assessed as Fully Supporting based on *E. coli* bacteria data collected in 2016, however an Alert is being identified for Harmful Algal Blooms and additional sampling is recommended for this AU. MassDEP staff collected *E. coli* bacteria samples in Windsor Lake at W2613 (beach at SW edge of lake, E off Windsor Lake Rd, N Adams) from May-Sep 2016 (n=5). Analysis of this limited frequency dataset indicated no intervals had GMs >244 CFU/100mL and no samples exceeded the 794 CFU/100mL STV (the overall GM was 1 CFU/100mL). Cyanobacteria were sampled at station W2632 (the deep hole index station) in 2016 (n=6). The cyanobacteria cell count exceeded 70,000 cells/mL for a single sample on Sep 26, indicating the need for a Harmful Algal Blooms Alert. Cyanotoxins (microcystins and cylindrospermopsin) were sampled at station W2613 (the beach station) in 2016. Analysis of shoreline samples (n=3) for microcystins and cylindrospermopsin indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2613	MassDEP	Water Quality	Windsor Lake	[beach at south western edge of lake, east off Windsor Lake Road, North Adams]	42.686085	-73.094239

Bacteria Data

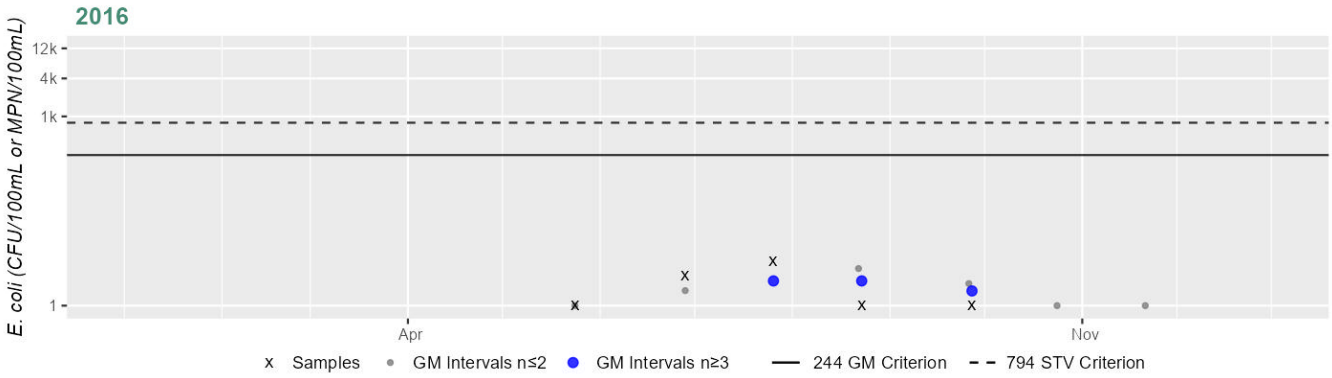
Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis) **(**MassDEP Undated 6) (MassDEP Undated 3)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2613	Massachusetts Department of Environmental Protection	E. coli	05/23/16	09/26/16	5	1	5	1

Station MASSDEP_W2613 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	1
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Data Sources

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Bailey, Logan. Feb. 2, 2021. "RE: Beaches Bill reporting data." Email to Dan Davis (MassDEP Watershed Planning Program) providing an Excel file (DEP_BeachDataRequest) with 2014-2019 data for marine and DCR freshwater beaches, Environmental Toxicology Program, Bureau of Environmental Health, Massachusetts Department of Public Health, Boston, MA.

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MassDEP. Undated 2. "Open file analysis of external water quality data (potential date range 2011-2022) using 2024 CALM guidance." Watershed Planning Program, Massachusetts Department of Environmental Protection, Worcester, MA.

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MassDEP. Undated 4. "Open file analysis of MassDEP WPP water quality data collected between 2011 and 2020 using 2024 CALM guidance." Watershed Planning Program, Massachusetts Department of Environmental Protection, Worcester, MA.

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MassDEP. Undated 6. "Open files of unpublished, validated water quality monitoring data, field sheet data, and GIS datalayers in development." Watershed Planning Program, Massachusetts Department of Environmental Protection, Worcester, MA.

MassDEP. 2023. "PFAS Concentrations in Surface Water and Fish Tissue at Selected Rivers and Lakes in Massachusetts." Watershed Planning Program, Division of Watershed Management, Bureau of Water Resources, Massachusetts Department of Environmental Protection. Worcester, MA. In cooperation with Eastern Research Group, Inc. December. Accessed January 2024. https://www.mass.gov/doc/massdep-final-report-on-pfas-concentrations-in-surface-water-and-fish-tissue-at-selected-rivers-and-lakes-in-massachusetts/download.

Savoie, Jennifer G, and Denise M Argue. 2023. "Concentrations of Per- and Polyfluoroalkyl Substances (PFAS) in Selected Rivers and Streams in Massachusetts, 2020." U.S. Geological Survey data report 1160 version 2.0 and accompanying data prepared in cooperation with the Massachusetts Department of Environmental Protection. October. Accessed January 2024. https://doi.org/10.5066/P967NOOZ.