

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

**Appendix 17
Deerfield River Basin
Assessment and Listing Decision Summary**

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December 2025

CN 625.0



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

The 2024/2026 Integrated Report (IR) could not have been produced without the dedicated efforts of program staff and input from other Executive Office of Energy and Environmental Affairs (EEA) staff, EPA colleagues, and stakeholder groups. Many thanks to WPP staff who worked directly on the assessments and supporting tasks (e.g., GIS support, data reviews, data analyses, ATTAINS and reports), including Mason Saleeba, Jenny Peet, Jenny Sheppard, Kari Winfield, Stephanie Figary, Bob Smith, Tim Gardner, Anna Mayor, Shervon De Leon, Matt Reardon, Richard Chase, and Richard Carey. Many thanks to WPP field sampling crews, WPP interns, laboratory staff at the Wall Experiment Station, and external data providers who all played important roles in generating the water quality data used to inform decisions.

Disclaimer

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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 ATAINS impairment code is provided within square brackets [].

2024/26 Cycle Impairment Changes

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Albee Brook	MA33-33	2	2	None	--	Unchanged
Allen Brook	MA33-34	2	2	None	--	Unchanged
Ashfield Pond	MA33001	4a	4a	(Water Chestnut*)	--	Unchanged
Ashfield Pond	MA33001	4a	4a	Mercury in Fish Tissue	42397	Unchanged
Avery Brook	MA33-35	2	2	None	--	Unchanged
Basin Brook	MA33-36	2	2	None	--	Unchanged
Bear River	MA33-17	5	5	Temperature	--	Unchanged
Black Brook	MA33-37	2	2	None	--	Unchanged
Bog Pond	MA33003	3	3	None	--	Unchanged
Borden Brook	MA33-38	2	2	None	--	Unchanged
Bozrah Brook	MA33-13	2	2	None	--	Unchanged
Brandy Brook	MA33-117	2	2	None	--	Unchanged
Brown Brook	MA33-39	2	2	None	--	Unchanged
Burnett Pond	MA33005	3	3	None	--	Unchanged
Burrington Brook	MA33-40	2	2	None	--	Unchanged
Burton Brook	MA33-41	2	2	None	--	Unchanged
Cary Brook	MA33-42	2	2	None	--	Unchanged
Cascade Brook	MA33-43	2	2	None	--	Unchanged
Chapel Brook	MA33-44	2	2	None	--	Unchanged
Cherry Rum Brook	MA33-97	5	5	Benthic Macroinvertebrates	--	Unchanged
Chickley River	MA33-11	5	2	Escherichia Coli (E. Coli)	--	Removed
Clark Brook	MA33-16	2	2	None	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Clesson Brook	MA33-15	2	5	Escherichia Coli (E. Coli)	--	Added
Cold River	MA33-05	2	2	None	--	Unchanged
Cooley Brook	MA33-45	2	2	None	--	Unchanged
Creamery Brook	MA33-46	2	2	None	--	Unchanged
Davenport Brook	MA33-111	2	2	None	--	Unchanged
Davis Mine Brook	MA33-18	5	5	Fish Bioassessments	--	Unchanged
Davis Mine Brook	MA33-18	5	5	pH, Low	--	Unchanged
Deerfield River	MA33-01	4c	4c	(Flow Regime Modification*)	--	Unchanged
Deerfield River	MA33-02	2	2	None	--	Unchanged
Deerfield River	MA33-03	2	2	None	--	Unchanged
Deerfield River	MA33-04	5	4a	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed
Dickenson Brook	MA33-120	2	2	None	--	Unchanged
Dragon Brook	MA33-20	5	5	Temperature	--	Unchanged
Drakes Brook	MA33-23	2	2	None	--	Unchanged
Dunbar Brook	MA33-48	2	2	None	--	Unchanged
East Branch North River	MA33-19	5	5	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed
East Branch North River	MA33-19	5	5	Temperature	--	Unchanged
East Glen Brook	MA33-49	2	2	None	--	Unchanged
East Oxbow Brook	MA33-72	2	2	None	--	Unchanged
Fife Brook	MA33-50	2	2	None	--	Unchanged
Foundry Brook	MA33-25	2	2	None	--	Unchanged
Fox Brook	MA33-51	2	2	None	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Fox Brook Upper Reservoir	MA33006	3	3	None	--	Unchanged
Fuller Brook	MA33-118	2	2	None	--	Unchanged
Glen Brook	MA33-52	2	2	None	--	Unchanged
Glen Brook	MA33-96	2	2	None	--	Unchanged
Goodnow Road Pond	MA33007	3	3	None	--	Unchanged
Granger Brook	MA33-53	2	2	None	--	Unchanged
Great Brook	MA33-54	2	2	None	--	Unchanged
Green River	MA33-28	5	5	Temperature	--	Unchanged
Green River	MA33-29	2	2	None	--	Unchanged
Green River	MA33-30	5	5	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed
Green River	MA33-30	5	5	Fecal Coliform	R1_MA_2024_04	Changed
Green River	MA33-30	5	5	Lack of a Coldwater Assemblage	--	Unchanged
Green River	MA33-30	5	5	Temperature	--	Unchanged
Green River	MA33-30	5	5	Turbidity	--	Unchanged
Green River	MA33-55	2	2	None	--	Unchanged
Gulf Brook	MA33-56	2	2	None	--	Unchanged
Haley Brook	MA33-57	2	2	None	--	Unchanged
Hallockville Pond	MA33009	3	2	None	--	Unchanged
Hartwell Brook	MA33-58	2	2	None	--	Unchanged
Hawkes Brook	MA33-112	2	2	None	--	Unchanged
Heath Brook	MA33-59	2	2	None	--	Unchanged
Hibbard Brook	MA33-60	2	2	None	--	Unchanged
Highland Pond	MA33032	3	3	None	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Hinsdale Brook	MA33-21	5	5	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed
Hinsdale Brook	MA33-21	5	5	Temperature	--	Unchanged
Horsefords Brook	MA33-62	2	2	None	--	Unchanged
Houghton Brook	MA33-135	3	3	None	--	Unchanged
Johnny Bean Brook	MA33-63	2	2	None	--	Unchanged
Johnson Brook	MA33-131	4c	4c	(Dewatering*)	--	Unchanged
Katley Brook	MA33-99	2	2	None	--	Unchanged
King Brook	MA33-64	2	2	None	--	Unchanged
Kinsman Brook	MA33-124	3	3	None	--	Unchanged
Legate Hill Brook	MA33-65	2	2	None	--	Unchanged
Manning Brook	MA33-66	2	2	None	--	Unchanged
Maxwell Brook	MA33-67	2	2	None	--	Unchanged
Maynard Pond	MA33011	3	3	None	--	Unchanged
Mccard Brook	MA33-68	2	2	None	--	Unchanged
Mcleod Pond	MA33012	3	3	None	--	Unchanged
Meadow Brook	MA33-130	2	2	None	--	Unchanged
Mill Brook	MA33-14	2	2	None	--	Unchanged
Mill Brook	MA33-69	2	2	None	--	Unchanged
Mill Brook	MA33-70	5	5	Benthic Macroinvertebrates	--	Unchanged
Mt. Brook Reservoir	MA33024	3	3	None	--	Unchanged
Newell Pond	MA33013	3	3	None	--	Unchanged
North Brook	MA33-126	3	3	None	--	Unchanged
North Pond	MA33014	2	2	None	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
North River	MA33-06	5	5	Lack of a Coldwater Assemblage	--	Unchanged
North River	MA33-06	5	5	Temperature	--	Unchanged
Nye Brook	MA33-71	2	2	None	--	Unchanged
Papoose Lake	MA33023	3	3	None	--	Unchanged
Parsonage Brook	MA33-123	2	2	None	--	Unchanged
Pelham Brook	MA33-12	2	2	None	--	Unchanged
Pelham Lake	MA33016	5	5	Mercury in Fish Tissue	--	Unchanged
Pelham Lake	MA33016	5	5	PFAS in Fish Tissue	--	Added
Phelps Brook	MA33-73	2	2	None	--	Unchanged
Phelps Brook Reservoir	MA33030	3	3	None	--	Unchanged
Plainfield Pond	MA33017	4a	4a	Mercury in Fish Tissue	33880	Unchanged
Poland Brook	MA33-74	2	2	None	--	Unchanged
Potash Brook	MA33-75	2	2	None	--	Unchanged
Pumpkin Hollow Brook	MA33-32	2	2	None	--	Unchanged
Punch Brook	MA33-100	2	2	None	--	Unchanged
Rice Brook	MA33-125	3	3	None	--	Unchanged
Rice Brook	MA33-76	2	2	None	--	Unchanged
Roberts Brook	MA33-77	2	2	None	--	Unchanged
Ross Brook	MA33-78	2	2	None	--	Unchanged
Ruddock Brook	MA33-79	2	2	None	--	Unchanged
Sanders Brook	MA33-80	2	2	None	--	Unchanged
Schneck Brook	MA33-113	2	2	None	--	Unchanged
Sheldon Brook	MA33-81	2	2	None	--	Unchanged
Sherman Reservoir	MA33018	5	5	Mercury in Fish Tissue	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Shingle Brook	MA33-22	2	2	None	--	Unchanged
Sids Brook	MA33-82	2	2	None	--	Unchanged
Sluice Brook	MA33-83	2	2	None	--	Unchanged
Smead Brook	MA33-84	2	2	None	--	Unchanged
Smith Brook	MA33-26	2	2	None	--	Unchanged
South Pond	MA33019	2	3	None	--	Unchanged
South River	MA33-07	5	5	Temperature	--	Unchanged
South River	MA33-101	5	4a	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed
South River	MA33-101	5	4a	Fecal Coliform	R1_MA_2024_04	Changed
South River	MA33-102	5	5	(Physical Substrate Habitat Alterations*)	--	Unchanged
South River	MA33-102	5	5	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed
South River	MA33-102	5	5	Fecal Coliform	R1_MA_2024_04	Changed
South River	MA33-102	5	5	Temperature	--	Unchanged
Spur Brook	MA33-106	2	2	None	--	Unchanged
Stafford Brook	MA33-98	2	2	None	--	Unchanged
Staples Brook	MA33-121	2	2	None	--	Unchanged
Steele Brook	MA33-85	2	2	None	--	Unchanged
Stewart Brook	MA33-132	2	2	None	--	Unchanged
Tannery Brook	MA33-86	2	2	None	--	Unchanged
Tannery Pond	MA33020	3	3	None	--	Unchanged
Taylor Brook	MA33-31	2	2	None	--	Unchanged
Tilton Brook	MA33-119	2	2	None	--	Unchanged
Tissdell Brook	MA33-24	2	2	None	--	Unchanged
Todd Brook	MA33-127	3	3	None	--	Unchanged
Tower Brook	MA33-87	2	2	None	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Trout Brook	MA33-88	2	2	None	--	Unchanged
Tuttle Brook	MA33-129	2	2	None	--	Unchanged
Unnamed Tributary	MA33-103	2	2	None	--	Unchanged
Unnamed Tributary	MA33-104	2	2	None	--	Unchanged
Unnamed Tributary	MA33-105	2	2	None	--	Unchanged
Unnamed Tributary	MA33-107	2	2	None	--	Unchanged
Unnamed Tributary	MA33-108	2	2	None	--	Unchanged
Unnamed Tributary	MA33-109	2	2	None	--	Unchanged
Unnamed Tributary	MA33-110	2	2	None	--	Unchanged
Unnamed Tributary	MA33-114	2	2	None	--	Unchanged
Unnamed Tributary	MA33-115	2	2	None	--	Unchanged
Unnamed Tributary	MA33-116	2	2	None	--	Unchanged
Unnamed Tributary	MA33-128	3	3	None	--	Unchanged
Unnamed Tributary	MA33-133	2	2	None	--	Unchanged
Unnamed Tributary	MA33-134	2	2	None	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Unnamed Tributary	MA33-137	5	5	Escherichia Coli (E. Coli)	--	Unchanged
Unnamed Tributary	MA33-137	5	5	Temperature	--	Unchanged
Unnamed Tributary	MA33-61	2	2	None	--	Unchanged
Upper Greenfield Reservoir	MA33021	3	3	None	--	Unchanged
Upper Highland Springs Reservoir	MA33025	3	3	None	--	Unchanged
Upper Reservoir Bear Swamp	MA33026	3	3	None	--	Unchanged
Vincent Brook	MA33-89	2	2	None	--	Unchanged
West Branch Brook	MA33-90	2	2	None	--	Unchanged
West Branch North River	MA33-27	5	5	Temperature	--	Unchanged
Wheeler Brook	MA33-136	3	3	None	--	Unchanged
Wheeler Brook	MA33-95	2	2	None	--	Unchanged
Whitcomb Brook	MA33-91	2	2	None	--	Unchanged
White Brook	MA33-122	2	2	None	--	Unchanged
Wilder Brook	MA33-92	2	2	None	--	Unchanged
Willis Brook	MA33-93	2	2	None	--	Unchanged
Workman Brook	MA33-94	2	2	None	--	Unchanged

Albee Brook (MA33-33)

Location:	Headwaters, north of Dodge Corner Road, Hawley to confluence with Deerfield River, Charlemont.
AU Type:	RIVER
AU Size:	1 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Albee Brook (MA33-33) 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
2	2	None	--	Unchanged

Allen Brook (MA33-34)

Location:	Headwaters, east of the Shelburne Colrain Road and Route 2 intersection, Shelburne to confluence with Green River, Greenfield.
AU Type:	RIVER
AU Size:	3.6 MILES
Classification/Qualifier:	B

No usable data were available for Allen Brook (MA33-34) 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
2	2	None	--	Unchanged

Ashfield Pond (MA33001)

Location:	Ashfield.
AU Type:	FRESHWATER LAKE
AU Size:	38 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	(Water Chestnut*)	--	Unchanged
4a	4a	Mercury in Fish Tissue	42397	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Water Chestnut*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
Mercury in Fish Tissue	Atmospheric Deposition (Y)	--	X	--	--	--
Mercury in Fish Tissue	Source Unknown (N)	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	No
2024/26 Use Attainment Summary	

The Fish Consumption Use for Ashfield Pond (MA33001) continues to be assessed as Not Supporting and the prior Mercury in Fish Tissue impairment is being carried forward. DPH included a site-specific advisory for Ashfield Pond in their January 2025 Fish Consumption Advisory List. 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.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No data are available, so the Aesthetics Use for Ashfield Pond (MA33001) 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 Ashfield Pond (MA33001) 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 Ashfield Pond (MA33001) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.	

Avery Brook (MA33-35)

Location:	Headwaters, perennial portion south of Colrain Brook Road, Heath to confluence with Deerfield River, Charlemont.
AU Type:	RIVER
AU Size:	3.7 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Avery Brook (MA33-35) 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
2	2	None	--	Unchanged

Basin Brook (MA33-36)

Location:	Headwaters, Kenneth M. Dubuque Memorial State Forest, Hawley to confluence with King Brook, Hawley.
AU Type:	RIVER
AU Size:	2.2 MILES
Classification/Qualifier:	B

No usable data were available for Basin Brook (MA33-36) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

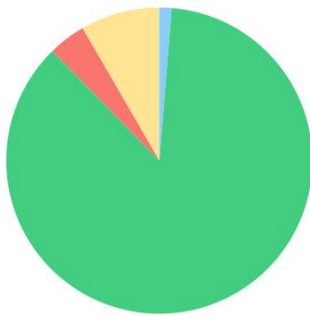
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Bear River (MA33-17)

Location:	Headwaters, perennial portion west of Barnes Road, Ashfield to confluence with Deerfield River, Conway.
AU Type:	RIVER
AU Size:	6.9 MILES
Classification/Qualifier:	B: CWF

Bear River (MA33-17)

Watershed Area: 11.77 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	11.77	6.37	2.91	1.54
Agriculture	8.4%	6.9%	7.6%	4.8%
Developed	4%	2.8%	6%	2.9%
Natural	86.4%	88.7%	83%	88%
Wetland	1.3%	1.6%	3.5%	4.2%
Impervious	1.3%	1.2%	1.7%	1.4%

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	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, so the Fish Consumption Use for Bear River (MA33-17) 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 Bear River (MA33-17) 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 the Bear River (MA33-17) 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 the Bear River (MA33-17) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in the Bear River (MA33-17) at W0017 [~250 ft upstream of Shelburne Falls Rd (above unnamed tributary), Conway] from May-Sep 2005 (n=5). Historic <i>E. coli</i> data from W0017 are inconclusive according to the 2024 CALM to assess the Secondary Contact Recreation Use because this single year, limited frequency dataset included both GMs below the threshold and an STV exceedance of the threshold. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0017	MassDEP	Water Quality	Bear River	[approximately 250 feet upstream of Shelburne Falls Road (above unnamed tributary), Conway]	42.545748	-72.721036

Bacteria Data

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

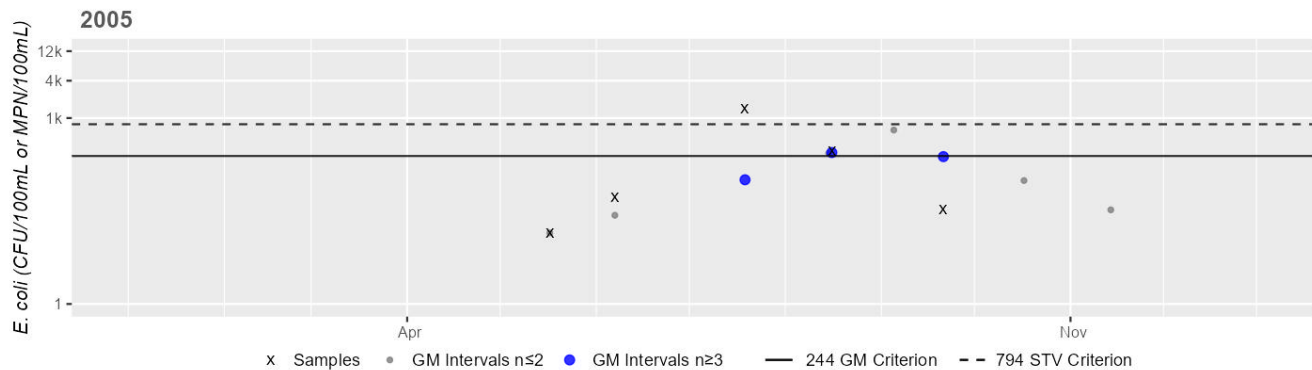
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W0017	MassDEP	E. coli	05/17/05	09/21/05	5	14	1410	99

Station MASSDEP_W0017 - 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	1
%GMI Ex	33%
n>STV	1
%n>STV	20%

Cumulative %GMI Exceedance

Historic (1997-2010)

33%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; 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.

Black Brook (MA33-37)

Location:	Headwaters, west of Chapel Road, Savoy to confluence with Cold River, Savoy.
AU Type:	RIVER
AU Size:	3.3 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Black Brook (MA33-37) 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
2	2	None	--	Unchanged

Bog Pond (MA33003)

Location:	Savoy.
AU Type:	FRESHWATER LAKE
AU Size:	35 ACRES
Classification/Qualifier:	B

No usable data were available for Bog Pond (MA33003) 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

Borden Brook (MA33-38)

Location:	Vermont-Massachusetts stateline, Colrain to confluence with Green River, Colrain.
AU Type:	RIVER
AU Size:	0.6 MILES
Classification/Qualifier:	A: PWS, ORW, HQW, CWF (Tributary)

No usable data were available for Borden Brook (MA33-38) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

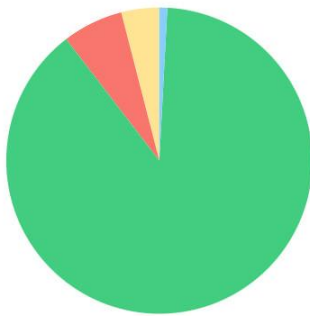
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Bozrah Brook (MA33-13)

Location:	Headwaters, located west of East Hawley Road, Hawley (drains wetland) to confluence with Deerfield River, Charlemont.
AU Type:	RIVER
AU Size:	3 MILES
Classification/Qualifier:	B: CWF

Bozrah Brook (MA33-13)

Watershed Area: 4.14 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	4.14	4.14	0.90	0.90
Agriculture	4%	4%	8.1%	8.1%
Developed	6.4%	6.4%	8.1%	8.1%
Natural	88.7%	88.7%	81.9%	81.9%
Wetland	0.8%	0.8%	1.9%	1.9%
Impervious	1.3%	1.3%	2.6%	2.6%

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 recently, so the Fish Consumption Use for Bozrah Brook (MA33-13) 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 Bozrah Brook AU (MA33-13), 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 for Bozrah Brook (MA33-13) 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 Bozrah Brook (MA33-13) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in Bozrah Brook (MA33-13) at W0035 [upstream at S River Rd (upstream from pipe/swale discharge), Charlemont] from May-Sep 2005 (n=5). Historic <i>E. coli</i> data from W0035 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0035	MassDEP	Water Quality	Bozrah Brook	[upstream at South River Road (upstream from pipe/swale discharge), Charlemont]	42.624553	-72.880794

Bacteria Data

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

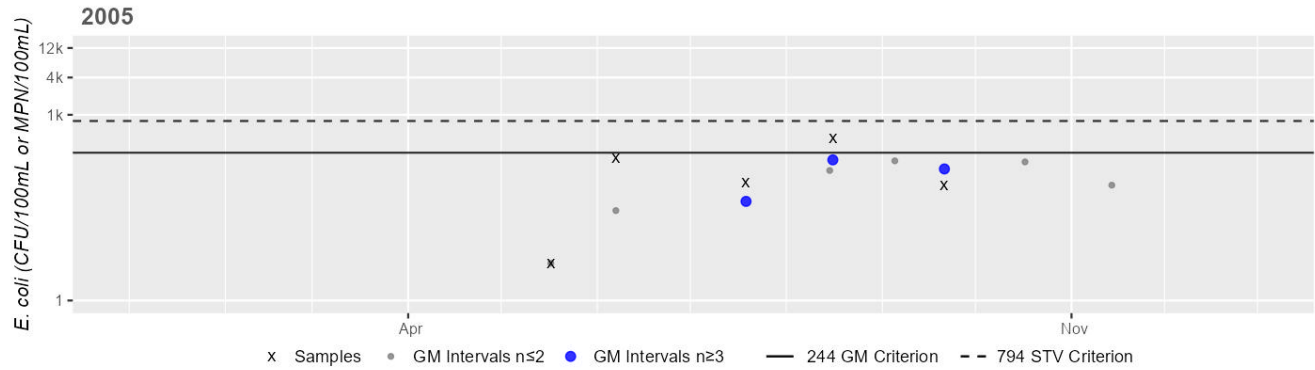
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W0035	MassDEP	E. coli	05/17/05	09/21/05	5	4	411	71

Station MASSDEP_W0035 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	71
#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 Exceedances;
%GMI Ex = % GMI Exceedances; 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.

Brandy Brook (MA33-117)

Location:	Headwaters east of North County Road, Leyden to confluence with Glen Brook, Leyden.
AU Type:	RIVER
AU Size:	1.6 MILES
Classification/Qualifier:	A: PWS, ORW (Tributary)

No usable data were available for Brandy Brook (MA33-117) 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

Brown Brook (MA33-39)

Location:	Headwaters, perennial portion east of Scott Road, Savoy to confluence with Chickley River, Savoy.
AU Type:	RIVER
AU Size:	0.5 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Brown Brook (MA33-39) 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
2	2	None	--	Unchanged

Burnett Pond (MA33005)

Location:	Savoy.
AU Type:	FRESHWATER LAKE
AU Size:	18 ACRES
Classification/Qualifier:	B

No usable data were available for Burnett Pond (MA33005) 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

Burrington Brook (MA33-40)

Location:	Headwaters, east of Sadoga Road, Heath to confluence with West Branch Brook (forming headwaters West Branch North River), Heath.
AU Type:	RIVER
AU Size:	2 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Burrington Brook (MA33-40) 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
2	2	None	--	Unchanged

Burton Brook (MA33-41)

Location:	Vermont-Massachusetts stateline, Rowe to confluence with West Branch Brook, Heath.
AU Type:	RIVER
AU Size:	1.3 MILES
Classification/Qualifier:	B

No usable data were available for Burton Brook (MA33-41) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

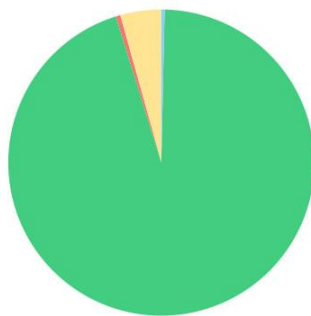
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Cary Brook (MA33-42)

Location:	Perennial portion north of East Catamount Hill Road, Colrain to confluence with West Branch North River, Colrain.
AU Type:	RIVER
AU Size:	0.5 MILES
Classification/Qualifier:	B: CWF

Cary Brook (MA33-42)

Watershed Area: 0.57 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	0.57	0.57	0.24	0.24
Agriculture	4.3%	4.3%	5.9%	5.9%
Developed	0.5%	0.5%	0.8%	0.8%
Natural	94.8%	94.8%	92.6%	92.6%
Wetland	0.3%	0.3%	0.8%	0.8%
Impervious	0.3%	0.3%	0.4%	0.4%

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, so the Fish Consumption Use for Cary Brook (MA33-42) 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 Cary Brook (MA33-42) 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 Cary Brook (MA33-42) 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 Cary Brook (MA33-42) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in Cary Brook (MA33-42) at W1413 [~10 ft from confluence with W Branch N River, near Adamsville Rd, Colrain] from Jun 2005 (n=1). Historic <i>E. coli</i> data from W1413 are too limited according to the 2024 CALM to assess the Secondary Contact Recreation Use. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1413	MassDEP	Water Quality	Cary Brook	[approximately 10 feet from confluence with West Branch North River, near Adamsville Road, Colrain]	42.666177	-72.723385

Bacteria Data

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

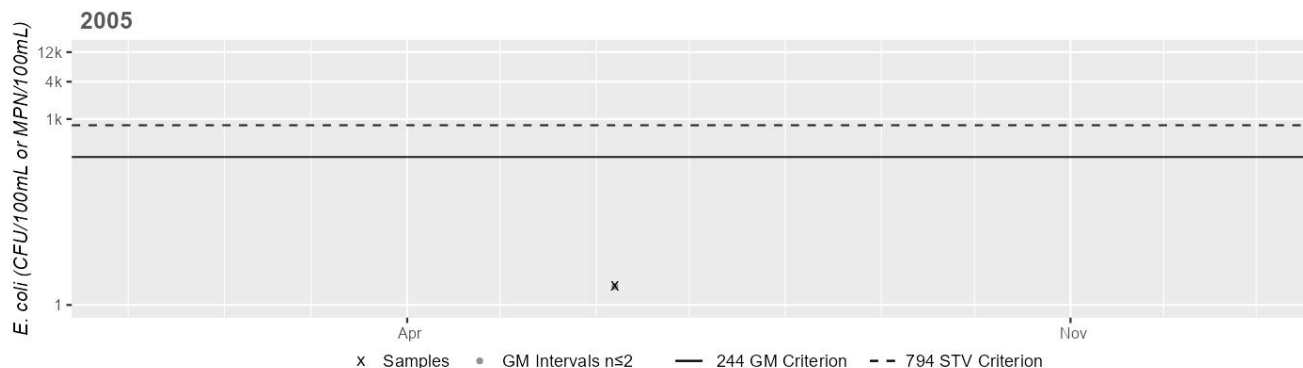
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1413	MassDEP	E. coli	06/07/05	06/07/05	1	2	2	2

Station MASSDEP_W1413 - Escherichia coli

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



Variable*	Result
Samples	1
SeasGM	2
#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 Exceedances;
 %GMI Ex = % GMI Exceedances; 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.

Cascade Brook (MA33-43)

Location:	Headwaters, perennial portion southeast of Moore Road, Florida to confluence with Deerfield River, Florida.
AU Type:	RIVER
AU Size:	1.8 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Cascade Brook (MA33-43) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

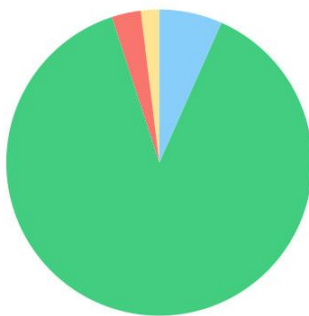
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Chapel Brook (MA33-44)

Location:	Outlet of unnamed pond, Ashfield to confluence with Poland Brook, Conway.
AU Type:	RIVER
AU Size:	3.4 MILES
Classification/Qualifier:	B: CWF

Chapel Brook (MA33-44)

Watershed Area: 3.40 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	3.40	3.40	0.90	0.90
Agriculture	1.9%	1.9%	0.3%	0.3%
Developed	3.1%	3.1%	3%	3%
Natural	88.3%	88.3%	82.7%	82.7%
Wetland	6.7%	6.7%	14%	14%
Impervious	1.3%	1.3%	1.6%	1.6%

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 recently, so the Fish Consumption Use for Chapel Brook (MA33-44) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Chapel Brook (MA33-44) is assessed as Fully Supporting based on the general lack of any objectionable conditions documented by MassDEP staff during the summers of 2013, 2014, and 2015. MassDEP staff recorded aesthetics observations at one station at the downstream end of this Chapel Brook AU upstream of Main Poland Road in Conway (W1362) during the summers of 2013, 2014, and 2015 (n=4-5/yr) as part of the Reference Site Network monitoring project. There were generally no persistent objectionable conditions (i.e., odors, deposits, growths, or turbidity) observed during the surveys.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1362	MassDEP	Water Quality	Chapel Brook	[approximately 300 feet upstream of Main Poland Road, Conway]	42.484172	-72.754212

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
W1362	2013	5	Aesthetic observations were made by MassDEP field sampling crews at Station W1362 on Chapel Brook (MA33-44) during 5 site visits between May 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W1362	2014	4	Aesthetic observations were made by MassDEP field sampling crews at Station W1362 on Chapel Brook (MA33-44) during 4 site visits between May 2014 and Aug 2014. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W1362	2015	4	Aesthetic observations were made by MassDEP field sampling crews at Station W1362 on Chapel Brook (MA33-44) during 4 site visits between May 2015 and Aug 2015. 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
W1362	2013	5	5	0

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W1362	2014	4	4	0
W1362	2015	4	4	0

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

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W1362	Chapel Brook	2013	Aesthetics Impaired?	No	5	5
W1362	Chapel Brook	2013	Aquatic Plant Density, Overall	None	5	5
W1362	Chapel Brook	2013	Color	Light Yellow/Tan	2	5
W1362	Chapel Brook	2013	Color	None	3	5
W1362	Chapel Brook	2013	Objectionable Deposits	No	5	5
W1362	Chapel Brook	2013	Odor	None	5	5
W1362	Chapel Brook	2013	Periphyton Density, Filamentous	None	4	5
W1362	Chapel Brook	2013	Periphyton Density, Filamentous	NR	1	5
W1362	Chapel Brook	2013	Periphyton Density, Film	None	3	5
W1362	Chapel Brook	2013	Periphyton Density, Film	Sparse	2	5
W1362	Chapel Brook	2013	Scum	No	5	5
W1362	Chapel Brook	2013	Turbidity	None	5	5
W1362	Chapel Brook	2014	Aesthetics Impaired?	No	4	4
W1362	Chapel Brook	2014	Aquatic Plant Density, Overall	None	4	4
W1362	Chapel Brook	2014	Color	Light Yellow/Tan	1	4
W1362	Chapel Brook	2014	Color	None	3	4
W1362	Chapel Brook	2014	Objectionable Deposits	No	4	4
W1362	Chapel Brook	2014	Odor	None	4	4
W1362	Chapel Brook	2014	Periphyton Density, Filamentous	None	4	4
W1362	Chapel Brook	2014	Periphyton Density, Film	None	3	4
W1362	Chapel Brook	2014	Periphyton Density, Film	Sparse	1	4
W1362	Chapel Brook	2014	Scum	No	2	4
W1362	Chapel Brook	2014	Scum	Yes	2	4
W1362	Chapel Brook	2014	Turbidity	None	4	4
W1362	Chapel Brook	2015	Aesthetics Impaired?	No	4	4
W1362	Chapel Brook	2015	Aquatic Plant Density, Overall	None	4	4
W1362	Chapel Brook	2015	Color	Light Yellow/Tan	2	4
W1362	Chapel Brook	2015	Color	None	2	4
W1362	Chapel Brook	2015	Objectionable Deposits	No	4	4
W1362	Chapel Brook	2015	Odor	None	4	4
W1362	Chapel Brook	2015	Periphyton Density, Filamentous	None	4	4
W1362	Chapel Brook	2015	Periphyton Density, Film	Moderate	1	4
W1362	Chapel Brook	2015	Periphyton Density, Film	None	3	4

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W1362	Chapel Brook	2015	Scum	No	4	4
W1362	Chapel Brook	2015	Turbidity	None	4	4

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO
2024/26 Use Attainment Summary	
No bacteria data are available to assess the Primary Contact Recreation Use for Chapel Brook (MA33-44) 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 bacteria data are available to assess the Secondary Contact Recreation Use for Chapel Brook (MA33-44) and available aesthetics observations for this waterbody did not result in any impairment, so it is assessed as having Insufficient Information. MassDEP staff collected <i>E. coli</i> bacteria samples in Chapel Brook (MA33-44) at W1362 [~300 ft upstream of Main Poland Rd, Conway] from May-Sep 2005 (n=5). Historic <i>E. coli</i> data from W1362 are inconclusive according to the 2024 CALM to assess the Secondary Contact Recreation Use because this single year, limited frequency dataset included both GMs below the threshold and an STV exceedance of the threshold. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1362	MassDEP	Water Quality	Chapel Brook	[approximately 300 feet upstream of Main Poland Road, Conway]	42.484172	-72.754212

Bacteria Data

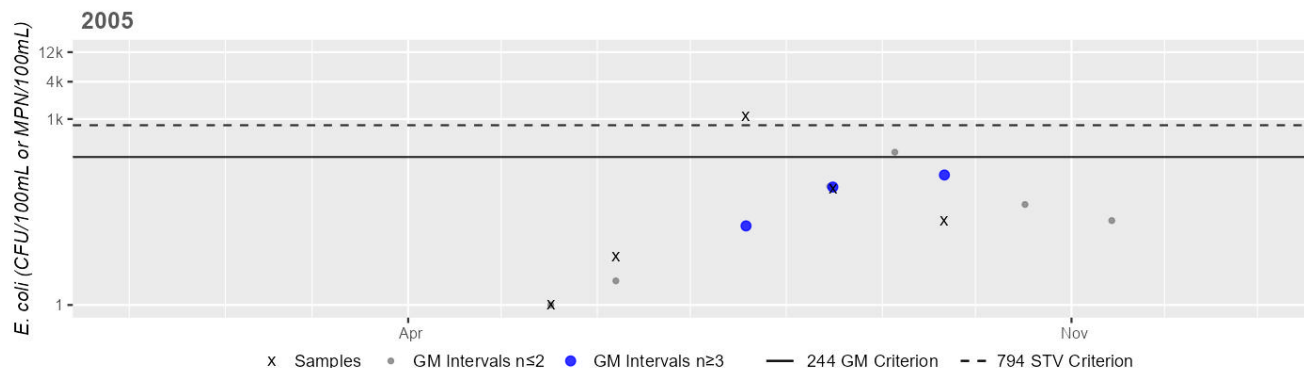
Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1362	MassDEP	E. coli	05/17/05	09/21/05	5	1	1120	25

Station MASSDEP_W1362 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	25
#GMI	3
#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 Exceedances;
%GMI Ex = % GMI Exceedances; 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.

Cherry Rum Brook (MA33-97)

Location:	Headwaters, northeast of Stoneleigh Burnham Drive, Greenfield to confluence with Green River, Greenfield.
AU Type:	RIVER
AU Size:	2.1 MILES
Classification/Qualifier:	B

No usable data were available for Cherry Rum Brook (MA33-97) 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
5	5	Benthic Macroinvertebrates	--	Unchanged

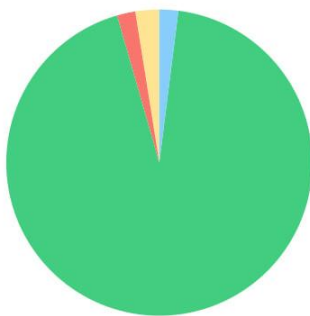
Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Benthic Macroinvertebrates	Source Unknown (N)	X	--	--	--	--

Chickley River (MA33-11)

Location:	Headwaters Savoy Mountain State Forest, Savoy to confluence with Deerfield River, Charlemont.
AU Type:	RIVER
AU Size:	11.1 MILES
Classification/Qualifier:	B: CWF

Chickley River (MA33-11)

Watershed Area: 27.48 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	27.48	6.59	7.11	1.72
Agriculture	2.5%	5%	2.5%	8%
Developed	1.9%	2.5%	3.3%	6.5%
Natural	93.6%	92%	89.8%	84.2%
Wetland	2%	0.5%	4.3%	1.3%
Impervious	0.9%	1%	1.6%	2.6%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	2	Escherichia Coli (E. Coli)	--	Removed

Supporting Information for Removed Impairments

2022 Removed Impairment	Removal Reason	Removal Comment
Escherichia Coli (E. Coli)	Applicable WQS attained; original basis for listing was incorrect	Chickley River (MA33-11) is being delisted for <i>Escherichia coli</i> (<i>E. coli</i>). The waterbody was errantly listed last cycle due to a data reporting error. Data collected at station CRC_MA-CHI_00.1 in 2019 were incorrectly reported and analyzed as exceeding standards for both the primary contact and secondary contact uses in the 2022 Integrated Report. Reevaluation of the data found that, when assessed correctly, the data do not indicate an impairment of either recreational use. As a result, the waterbody is meeting surface water quality standards and the <i>Escherichia coli</i> (<i>E. coli</i>) impairment is being delisted to reflect accurate water quality conditions in Chickley River.

Escherichia coli (E. coli)

See Removal Comment above.

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, so the Fish Consumption Use for Chickley River (MA33-11) 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 Chickley River (MA33-11) is Not Assessed.	

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
<p>The Primary Contact Recreation Use for the Chickley River (MA33-11) is assessed as Fully Supporting. The <i>Escherichia coli</i> (<i>E. coli</i>) impairment is being removed (see removal comment). CRC staff/volunteers collected <i>E. coli</i> bacteria samples in the Chickley River (MA33-11) at CRC_MA-CHI_00.1 [Tower Rd, Charlemont] from Jun-Sep 2019 (n=6). Analysis of the single year limited frequency <i>E. coli</i> dataset from CRC_MA-CHI_00.1 indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 50 CFU/100ml. <i>E. coli</i> data from CRC_MA-CHI_00.1 meet 2024 CALM guidance.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CRC_MA-CHI_00.1	Connecticut River Conservancy	Water Quality	Chickley River	Tower Rd, Charlemont	42.630050	-72.901620

Bacteria Data

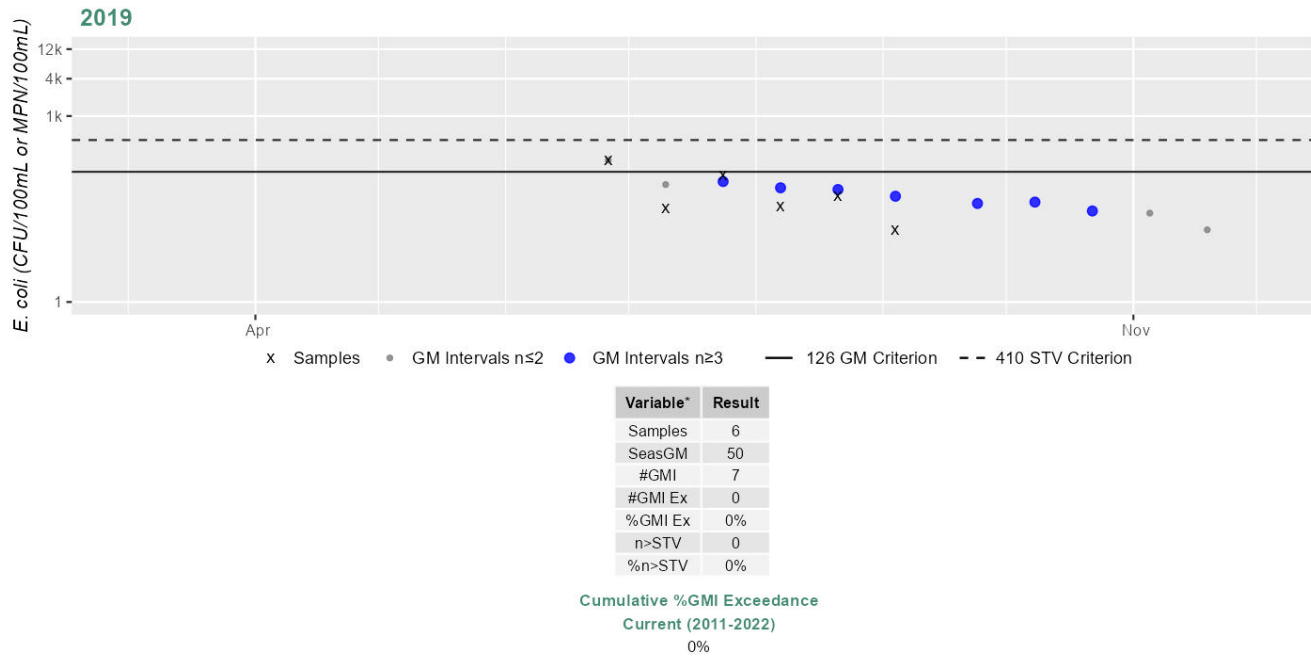
Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (CRC 2023) (MassDEP Undated 2)

[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
CRC_MA-CHI_00.1	Connecticut River Conservancy	E. coli	06/26/19	09/04/19	6	14	193	50

Station CRC_MA-CHI_00.1 & MASSDEP_W0040 - *Escherichia coli*

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



*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; 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
<p>The Secondary Contact Recreation Use for the Chickley River (MA33-11) is assessed as Fully Supporting. The <i>Escherichia coli</i> (<i>E. coli</i>) impairment is being removed (see removal comment). CRC and MassDEP staff/volunteers collected <i>E. coli</i> bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in the Chickley River (MA33-11) from 2005-2019 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: W1355 [most downstream crossing of Savoy Rd, Hawley] from May-Sep 2005 (n=5), CRC_MA-CHI_00.1 & W0040 [Tower Rd, Charlemont & Tower Rd, Charlemont] from May-Sep 2005 (historic n=5) and Jun-Sep 2019 (current n=6). Analysis of the single year limited frequency <i>E. coli</i> dataset from CRC_MA-CHI_00.1 & W0040 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 50 CFU/100ml. <i>E. coli</i> data from CRC_MA-CHI_00.1 & W0040 meet 2024 CALM guidance.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CRC_MA-CHI_00.1	Connecticut River Conservancy	Water Quality	Chickley River	Tower Rd, Charlemont	42.630050	-72.901620
W0040	MassDEP	Water Quality	Chickley River	[Tower Road, Charlemont]	42.630100	-72.901427
W1355	MassDEP	Water Quality	Chickley River	[most downstream crossing of Savoy Road, Hawley]	42.575398	-72.953609

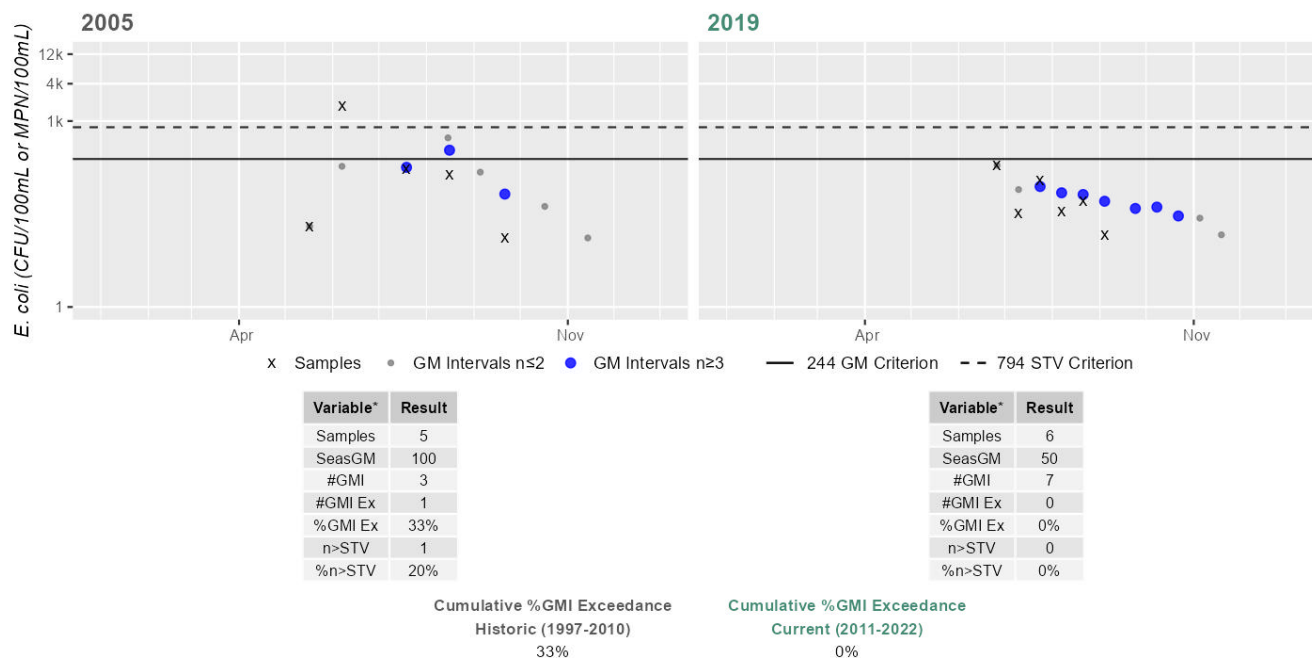
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis) (CRC 2023) (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
CRC_MA-CHI_00.1	Connecticut River Conservancy	E. coli	06/26/19	09/04/19	6	14	193	50
W0040	MassDEP	E. coli	05/17/05	09/21/05	5	13	1730	100
W1355	MassDEP	E. coli	05/17/05	09/21/05	5	1	65	11

Station CRC_MA-CHI_00.1 & MASSDEP_W0040 - Escherichia coli

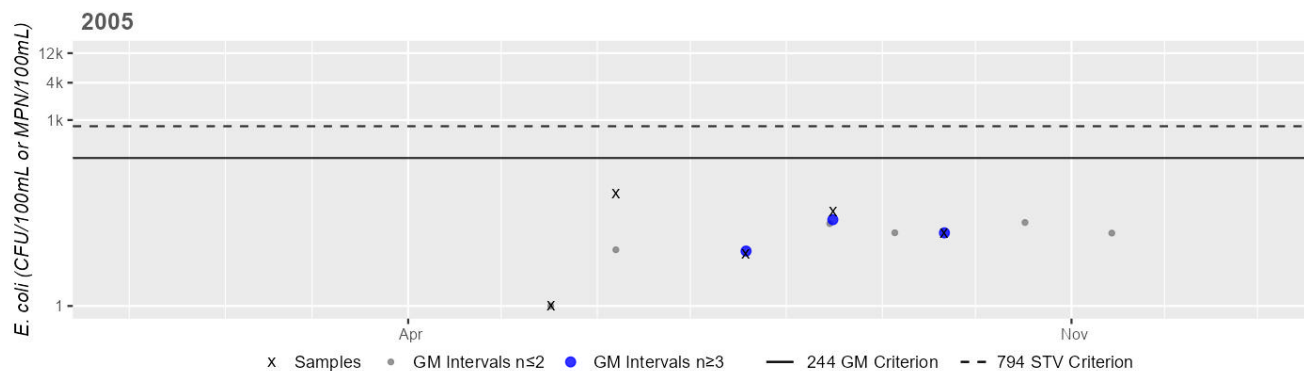
Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; 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_W1355 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	11
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Historic (1997-2010)

0%

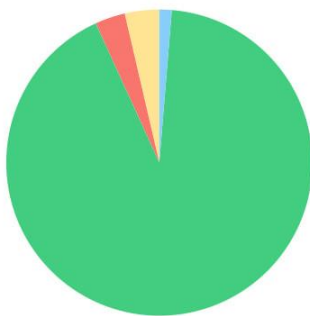
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes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

Clark Brook (MA33-16)

Location:	Headwaters, near Moonshine Road (Howes Road)/East Buckland Road, Buckland to confluence with Clesson Brook, Buckland.
AU Type:	RIVER
AU Size:	3.8 MILES
Classification/Qualifier:	B

Clark Brook (MA33-16)

Watershed Area: 2.87 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	2.87	2.71	0.74	0.74
Agriculture	3.6%	3.9%	6.7%	6.7%
Developed	3.2%	3.3%	6.1%	6.1%
Natural	91.9%	91.6%	83.3%	83.3%
Wetland	1.3%	1.3%	3.9%	3.9%
Impervious	1.3%	1.3%	2.5%	2.5%

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 recently, so the Fish Consumption Use for Clark Brook (MA33-16) 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 Clark Brook AU (MA33-16), 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 for Clark Brook (MA33-16) 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 Clark Brook (MA33-16) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in Clark Brook (MA33-16) at W0029 [Rt. 112, Buckland] from May-Sep 2005 (n=5). Analysis of this historic single year limited frequency <i>E. coli</i> dataset from W0029 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 20 CFU/100ml. Historic <i>E. coli</i> data from W0029 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0029	MassDEP	Water Quality	Clark Brook	[Route 112, Buckland]	42.613428	-72.767461

Bacteria Data

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

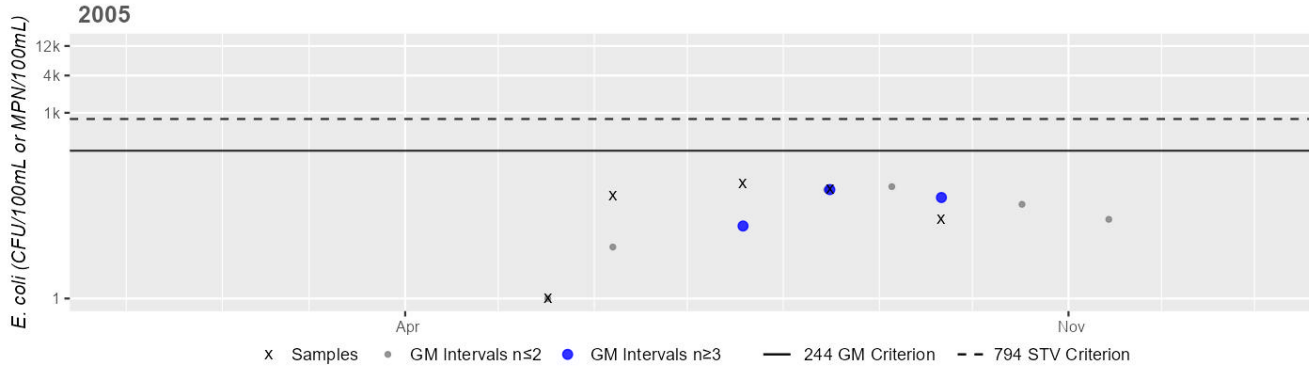
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W0029	MassDEP	E. coli	05/17/05	09/21/05	5	1	71	20

Station MASSDEP_W0029 - 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%

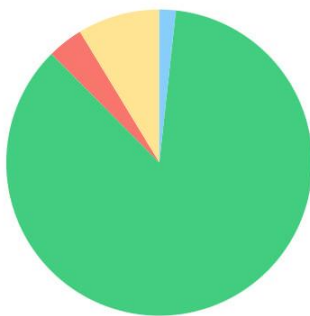
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes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

Clesson Brook (MA33-15)

Location:	Outlet of unnamed pond south of Forget Road, Hawley through Cox Pond to confluence with Deerfield River, Buckland.
AU Type:	RIVER
AU Size:	10.3 MILES
Classification/Qualifier:	B: CWF

Clesson Brook (MA33-15)

Watershed Area: 21.28 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	21.28	6.38	5.66	1.56
Agriculture	8.7%	9.3%	10%	14.8%
Developed	3.8%	5%	6.7%	9.4%
Natural	85.8%	84.2%	79.2%	71%
Wetland	1.7%	1.5%	4.2%	4.8%
Impervious	1.6%	2%	3.2%	4%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	5	Escherichia Coli (E. Coli)	--	Added

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Escherichia Coli (E. Coli)	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, so the Fish Consumption Use for Clesson Brook (MA33-15) 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 Clesson Brook (MA33-15) is Not Assessed.	

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO
2024/26 Use Attainment Summary	
<p>The Primary Contact Recreation Use for Clesson Brook (MA33-15) is assessed as Not Supporting. An <i>Escherichia coli</i> (<i>E. coli</i>) impairment is being added due to bacteria data not meeting the threshold at CRC_MA-CLS_00.3. CRC staff/volunteers collected <i>E. coli</i> bacteria samples in Clesson Brook (MA33-15) at CRC_MA-CLS_00.3 [Behind Buckland Rec, Buckland] in 2019-2022 (n=4-6/yr). Analysis of the multi-year limited frequency <i>E. coli</i> dataset from CRC_MA-CLS_00.3 indicated 3 out of 4 sufficient data yrs had intervals where >20% of the GMs were >126 CFU/100ml (2019 and 2021-2022, 57-100%), 1 yr had ≥2 samples exceed the 410 CFU/100ml STV (2019, n=2), and cumulatively across years 70% of intervals had GMs >126 CFU/100ml. <i>E. coli</i> data from CRC_MA-CLS_00.3 are indicative of an <i>E. coli</i> impairment.</p>	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CRC_MA-CLS_00.3	Connecticut River Conservancy	Water Quality	Clesson Brook	Behind Buckland Rec, Buckland	42.615533	-72.766982

Bacteria Data

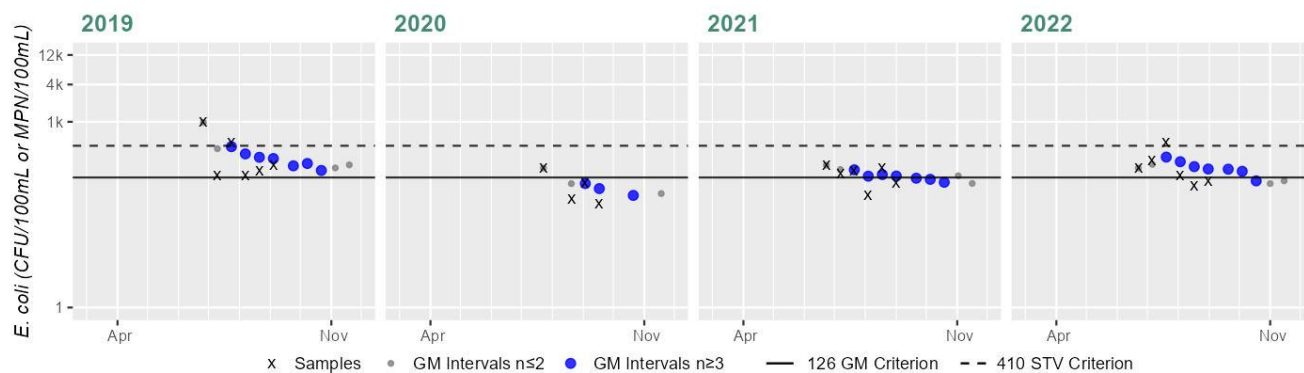
Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (CRC 2023) (MassDEP Undated 2)

[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
CRC_MA-CLS_00.3	Connecticut River Conservancy	E. coli	06/26/19	09/04/19	6	135	980	254
CRC_MA-CLS_00.3	Connecticut River Conservancy	E. coli	07/22/20	09/16/20	4	47	178	83
CRC_MA-CLS_00.3	Connecticut River Conservancy	E. coli	06/23/21	09/01/21	6	65	198	132
CRC_MA-CLS_00.3	Connecticut River Conservancy	E. coli	06/22/22	08/31/22	6	90	461	172

Station CRC_MA-CLS_00.3 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	254
#GMI	7
#GMI Ex	7
%GMI Ex	100%
n>STV	2
%n>STV	33%

Variable*	Result
Samples	4
SeasGM	83
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	132
#GMI	7
#GMI Ex	4
%GMI Ex	57%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	172
#GMI	7
#GMI Ex	6
%GMI Ex	85%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance

Current (2011-2022)

70%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; 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 Clesson Brook (MA33-15) continues to be assessed as Fully Supporting. CRC and MassDEP staff/volunteers collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in Clesson Brook (MA33-15) from 2005-2022 at 3 stations. Samples were collected from the following stations/sample years from upstream to downstream: W1359 [Upper St, Buckland] from May-Sep 2005 (n=5), W0026 [Rt. 112, Buckland] from May-Sep 2005 (n=5), CRC_MA-CLS_00.3 [Behind Buckland Rec, Buckland] in 2019-2022 (n=4-6/yr). Analysis of the multi-year limited frequency *E. coli* dataset from CRC_MA-CLS_00.3 indicated 1 out of 4 sufficient data yrs had intervals where >20% of the GMs were >244 CFU/100ml (2019, 57%), 0 yrs had ≥2 samples exceed the 794 CFU/100ml STV, and cumulatively across years 20% of intervals had GMs >244 CFU/100ml. *E. coli* data from CRC_MA-CLS_00.3 meet 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CRC_MA-CLS_00.3	Connecticut River Conservancy	Water Quality	Clesson Brook	Behind Buckland Rec, Buckland	42.615533	-72.766982
W0026	MassDEP	Water Quality	Clesson Brook	[Route 112, Buckland]	42.613186	-72.768753
W1359	MassDEP	Water Quality	Clesson Brook	[Upper Street, Buckland]	42.579951	-72.799994

Bacteria Data

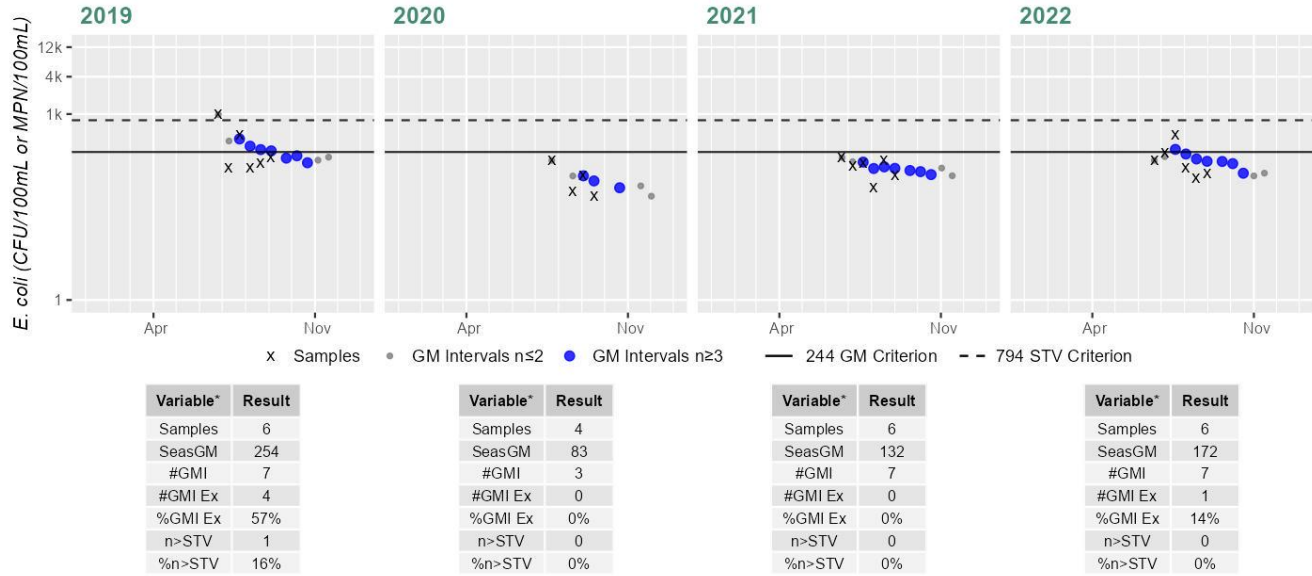
Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis) (CRC 2023) (MassDEP Undated 1) (MassDEP Undated 6) (MassDEP Undated 3)

[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
CRC_MA-CLS_00.3	Connecticut River Conservancy	<i>E. coli</i>	06/26/19	09/04/19	6	135	980	254
CRC_MA-CLS_00.3	Connecticut River Conservancy	<i>E. coli</i>	07/22/20	09/16/20	4	47	178	83
CRC_MA-CLS_00.3	Connecticut River Conservancy	<i>E. coli</i>	06/23/21	09/01/21	6	65	198	132
CRC_MA-CLS_00.3	Connecticut River Conservancy	<i>E. coli</i>	06/22/22	08/31/22	6	90	461	172
W0026	MassDEP	<i>E. coli</i>	05/17/05	09/21/05	5	5	201	52
W1359	MassDEP	<i>E. coli</i>	05/17/05	09/21/05	5	6	119	45

Station CRC_MA-CLS_00.3 - Escherichia coli

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



Cumulative %GMI Exceedance

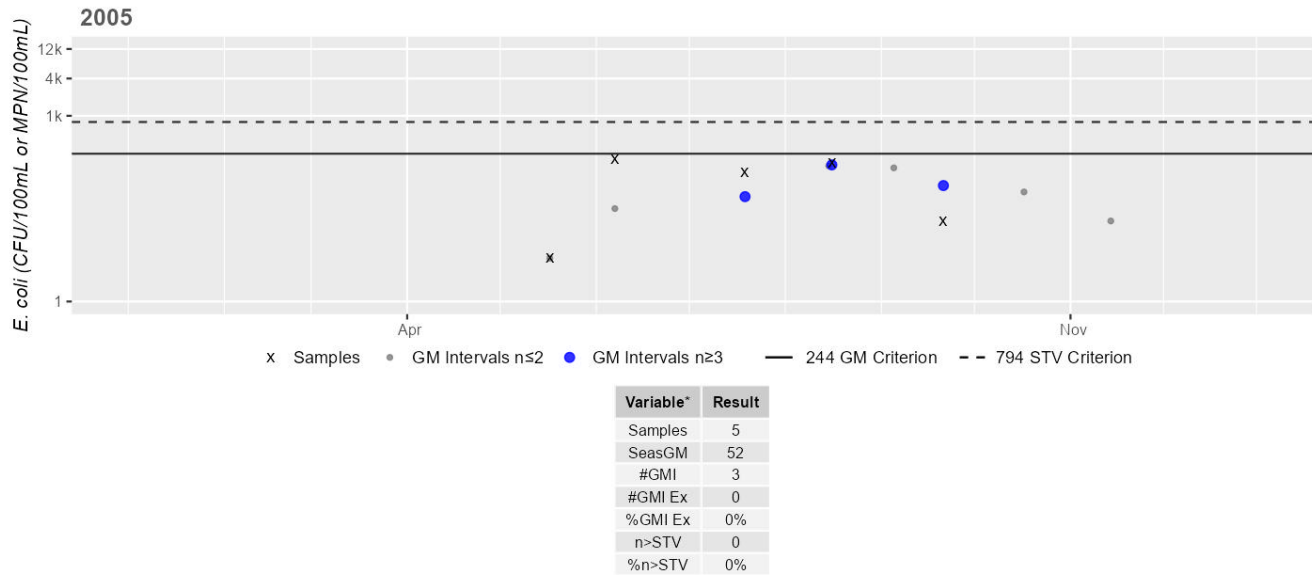
Current (2011-2022)

20%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; 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_W0026 - Escherichia coli

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



Cumulative %GMI Exceedance

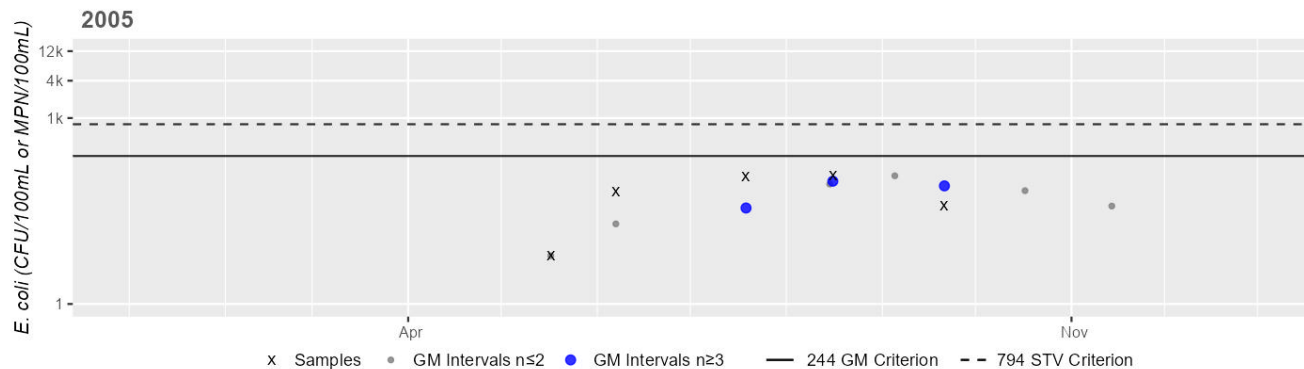
Historic (1997-2010)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; 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_W1359 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	45
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Historic (1997-2010)

0%

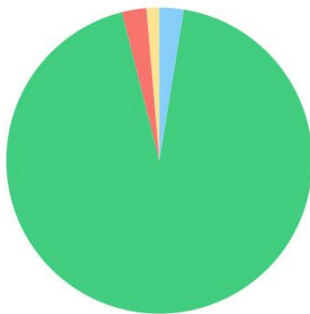
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes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

Cold River (MA33-05)

Location:	Source in Florida to confluence with Deerfield River, Charlemont.
AU Type:	RIVER
AU Size:	13.7 MILES
Classification/Qualifier:	B: CWF

Cold River (MA33-05)

Watershed Area: 31.70 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	31.70	6.34	7.79	1.40
Agriculture	1.3%	0.3%	1.1%	0.4%
Developed	2.6%	1.4%	3.9%	6%
Natural	93.5%	97.9%	90.1%	92.1%
Wetland	2.6%	0.3%	4.8%	1.5%
Impervious	1.1%	0.7%	1.9%	3.2%

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 recently, so the Fish Consumption Use for Cold River (MA33-05) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
<p>The Aesthetics Use for the Cold River (MA33-05) is assessed as Fully Supporting based on the lack of any objectionable conditions documented by MassDEP staff during the summers of 2011, 2012, 2013, 2014, 2015, and 2017. MassDEP staff recorded aesthetics observations at two stations in the downstream half of this Cold River AU ~325 feet upstream of Mohawk Trail (Rt. 2), Florida/Savoy (upstream of Black Brook confluence) (W2222) during the summers of 2011, 2012, 2013, 2014, 2015, and 2017 (n=3-5/yr) as part of the Reference Site Network monitoring project and further downstream near the Mohawk Trail State Forest/Campground ~1150 feet upstream of Cold River Road, Charlemont (W2251) as part of the MAP2 monitoring project, in the summer of 2012 (n=6). No objectionable conditions (i.e., odors, deposits, growths, or turbidity) were observed during any of the surveys.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2222	MassDEP	Water Quality	Cold River	[approximately 325 feet upstream of Mohawk Trail (Route 2), Florida/Savoy (upstream of Black Brook confluence)]	42.632569	-72.974395
W2251	MassDEP	Water Quality	Cold River	[approximately 1150 feet upstream of Cold River Road, Charlemont]	42.639199	-72.938084

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
W2222	2011	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2222 on Cold River (MA33-05) during 3 site visits between Jun 2011 and Aug 2011. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2222	2012	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2222 on Cold River (MA33-05) during 4 site visits between Jul 2012 and Oct 2012. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2222	2013	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2222 on Cold River (MA33-05) during 5 site visits between May 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2222	2014	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2222 on Cold River (MA33-05) during 4 site visits between May 2014 and Aug 2014. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2222	2015	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2222 on Cold River (MA33-05) during 4 site visits between May 2015 and Aug 2015. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2222	2017	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2222 on Cold River (MA33-05) during 5 site visits between May 2017 and Sep 2017. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2251	2012	6	Aesthetic observations were made by MassDEP field sampling crews at Station W2251 on Cold River (MA33-05) during 6 site visits between May 2012 and Sep 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
W2222	2011	3	3	0
W2222	2012	4	4	0
W2222	2013	5	5	0
W2222	2014	4	4	0
W2222	2015	4	4	0
W2222	2017	5	5	0
W2251	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
W2222	Cold River	2011	Aquatic Plant Density, Overall	None	3	3
W2222	Cold River	2011	Color	None	3	3
W2222	Cold River	2011	Objectionable Deposits	No	3	3
W2222	Cold River	2011	Odor	None	3	3
W2222	Cold River	2011	Periphyton Density, Filamentous	None	3	3
W2222	Cold River	2011	Periphyton Density, Film	None	3	3
W2222	Cold River	2011	Scum	No	3	3
W2222	Cold River	2011	Turbidity	None	3	3

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2222	Cold River	2012	Aquatic Plant Density, Overall	None	4	4
W2222	Cold River	2012	Color	Light Yellow/Tan	1	4
W2222	Cold River	2012	Color	None	3	4
W2222	Cold River	2012	Objectionable Deposits	No	4	4
W2222	Cold River	2012	Odor	None	4	4
W2222	Cold River	2012	Periphyton Density, Filamentous	None	4	4
W2222	Cold River	2012	Periphyton Density, Film	None	1	4
W2222	Cold River	2012	Periphyton Density, Film	Sparse	3	4
W2222	Cold River	2012	Scum	No	4	4
W2222	Cold River	2012	Turbidity	None	2	4
W2222	Cold River	2012	Turbidity	Slightly Turbid	2	4
W2222	Cold River	2013	Aesthetics Impaired?	No	4	5
W2222	Cold River	2013	Aesthetics Impaired?	NR	1	5
W2222	Cold River	2013	Aquatic Plant Density, Overall	None	4	5
W2222	Cold River	2013	Aquatic Plant Density, Overall	NR	1	5
W2222	Cold River	2013	Color	Light Yellow/Tan	1	5
W2222	Cold River	2013	Color	None	3	5
W2222	Cold River	2013	Color	NR	1	5
W2222	Cold River	2013	Objectionable Deposits	No	5	5
W2222	Cold River	2013	Odor	None	4	5
W2222	Cold River	2013	Odor	NR	1	5
W2222	Cold River	2013	Periphyton Density, Filamentous	None	3	5
W2222	Cold River	2013	Periphyton Density, Filamentous	NR	1	5
W2222	Cold River	2013	Periphyton Density, Filamentous	Sparse	1	5
W2222	Cold River	2013	Periphyton Density, Film	None	1	5
W2222	Cold River	2013	Periphyton Density, Film	NR	1	5
W2222	Cold River	2013	Periphyton Density, Film	Sparse	3	5
W2222	Cold River	2013	Scum	No	5	5
W2222	Cold River	2013	Turbidity	None	4	5
W2222	Cold River	2013	Turbidity	Slightly Turbid	1	5
W2222	Cold River	2014	Aesthetics Impaired?	No	4	4
W2222	Cold River	2014	Aquatic Plant Density, Overall	None	4	4
W2222	Cold River	2014	Color	None	4	4
W2222	Cold River	2014	Objectionable Deposits	No	4	4
W2222	Cold River	2014	Odor	None	4	4

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2222	Cold River	2014	Periphyton Density, Filamentous	None	4	4
W2222	Cold River	2014	Periphyton Density, Film	None	4	4
W2222	Cold River	2014	Scum	No	4	4
W2222	Cold River	2014	Turbidity	Moderately Turbid	1	4
W2222	Cold River	2014	Turbidity	None	3	4
W2222	Cold River	2015	Aesthetics Impaired?	No	4	4
W2222	Cold River	2015	Aquatic Plant Density, Overall	None	4	4
W2222	Cold River	2015	Color	Light Yellow/Tan	1	4
W2222	Cold River	2015	Color	None	3	4
W2222	Cold River	2015	Objectionable Deposits	No	4	4
W2222	Cold River	2015	Odor	None	4	4
W2222	Cold River	2015	Periphyton Density, Filamentous	Moderate	1	4
W2222	Cold River	2015	Periphyton Density, Filamentous	None	2	4
W2222	Cold River	2015	Periphyton Density, Filamentous	Sparse	1	4
W2222	Cold River	2015	Periphyton Density, Film	Moderate	2	4
W2222	Cold River	2015	Periphyton Density, Film	None	1	4
W2222	Cold River	2015	Periphyton Density, Film	Sparse	1	4
W2222	Cold River	2015	Scum	No	4	4
W2222	Cold River	2015	Turbidity	None	4	4
W2222	Cold River	2017	Aesthetics Impaired?	No	5	5
W2222	Cold River	2017	Aquatic Plant Density, Overall	None	5	5
W2222	Cold River	2017	Color	Light Yellow/Tan	1	5
W2222	Cold River	2017	Color	None	4	5
W2222	Cold River	2017	Objectionable Deposits	No	4	5
W2222	Cold River	2017	Objectionable Deposits	Yes	1	5
W2222	Cold River	2017	Odor	None	5	5
W2222	Cold River	2017	Periphyton Density, Filamentous	None	5	5
W2222	Cold River	2017	Periphyton Density, Film	Moderate	1	5
W2222	Cold River	2017	Periphyton Density, Film	None	3	5
W2222	Cold River	2017	Periphyton Density, Film	Sparse	1	5
W2222	Cold River	2017	Scum	No	5	5
W2222	Cold River	2017	Turbidity	None	4	5
W2222	Cold River	2017	Turbidity	Slightly Turbid	1	5
W2251	Cold River	2012	Aquatic Plant Density, Overall	None	6	6
W2251	Cold River	2012	Color	None	6	6
W2251	Cold River	2012	Objectionable Deposits	No	6	6

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2251	Cold River	2012	Odor	None	6	6
W2251	Cold River	2012	Periphyton Density, Filamentous	Moderate	1	6
W2251	Cold River	2012	Periphyton Density, Filamentous	None	5	6
W2251	Cold River	2012	Periphyton Density, Film	None	5	6
W2251	Cold River	2012	Periphyton Density, Film	Sparse	1	6
W2251	Cold River	2012	Scum	No	5	6
W2251	Cold River	2012	Scum	Yes	1	6
W2251	Cold River	2012	Turbidity	None	5	6
W2251	Cold River	2012	Turbidity	Slightly Turbid	1	6

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
<p>The Primary Contact Recreation Use for the Cold River (MA33-05) continues to be assessed as Fully Supporting.</p> <p>MassDEP staff collected <i>E. coli</i> bacteria samples in the Cold River (MA33-05) at W2251 [~1150 ft upstream of Cold River Rd, Charlemont] from May-Sep 2012 (n=6). Analysis of the single year limited frequency <i>E. coli</i> dataset from W2251 indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 11 CFU/100ml. <i>E. coli</i> data from W2251 meet 2024 CALM guidance. Additionally, surface water sampling was conducted by the USGS on the Cold River (MA33-05) at station USGS_01168305 near Charlemont, 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).</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2251	MassDEP	Water Quality	Cold River	[approximately 1150 feet upstream of Cold River Road, Charlemont]	42.639199	-72.938084
USGS-01168305	USGS Massachusetts Water Science Center	Water Quality	Cold River	COLD RIVER NEAR CHARLEMONT, MA; no WWTF	42.636000	-72.934000

Bacteria Data

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

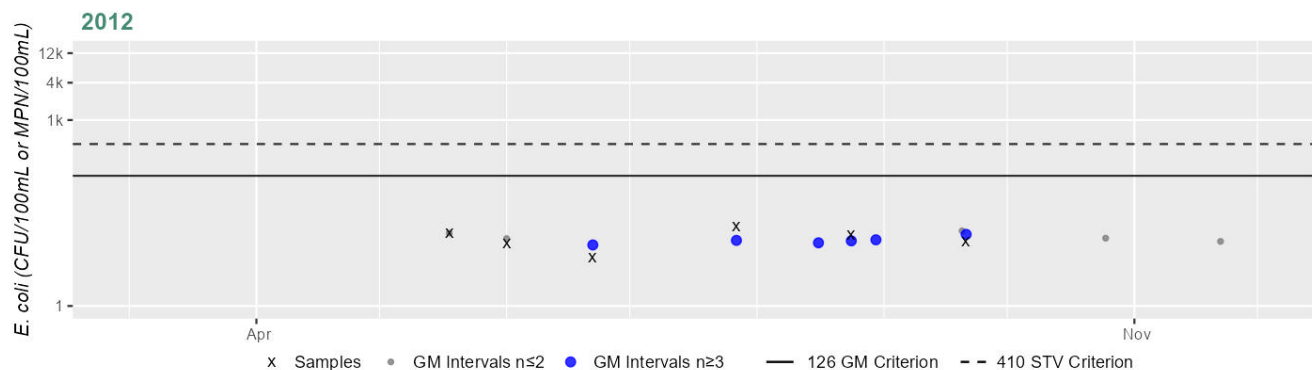
(MassDEP Undated 6) (MassDEP Undated 4)

[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
W2251	MassDEP	E. coli	05/17/12	09/20/12	6	6	19	11

Station MASSDEP_W2251 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	11
#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 Exceedances; %GMI Ex = % GMI Exceedances; 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 USGS 2020 PFAS in Water Column Data (Savoie and Argue 2023) (MassDEP Undated 2)

Summary

Surface water sampling was conducted by the USGS on the Cold River (MA33-05) at station USGS_01168305 near Charlemont, 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 2)

[The Σ PFAS6 equals the sum of PFOA, PFOS, PFNA, PFHxS, PFDA, PFHpA (not all shown individually here). * indicates the Σ 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 Σ PFAS6. 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	Σ PFAS6 ng/L
USGS-01168305	8/25/2020	E0.512	<1.84	<1.84	<1.84	<1.84	<1.84	9.7*
USGS-01168305	9/16/2020	E0.352	E0.516	<1.82	<1.82	<1.82	<1.82	8.1*
USGS-01168305	10/22/2020	E0.535	<1.94	<1.94	<1.94	<1.94	<1.94	10.2*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for the Cold River (MA33-05) continues to be assessed as Fully Supporting. MassDEP staff collected <i>E. coli</i> bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in the Cold River (MA33-05) from 2005-2012 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: W2251 [~1150 ft upstream of Cold River Rd, Charlemont] from May-Sep 2012 (n=6), W1354 [~300 ft downstream of Cold River Rd (Mohawk State Forest entrance Rd), Charlemont] from May-Sep 2005 (n=5). Analysis of the single year limited frequency <i>E. coli</i> dataset from W2251 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 11 CFU/100ml. <i>E. coli</i> data from W2251 meet 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1354	MassDEP	Water Quality	Cold River	[approximately 300 feet downstream of Cold River Road (Mohawk State Forest entrance road), Charlemont]	42.636255	-72.934384
W2251	MassDEP	Water Quality	Cold River	[approximately 1150 feet upstream of Cold River Road, Charlemont]	42.639199	-72.938084

Bacteria Data

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

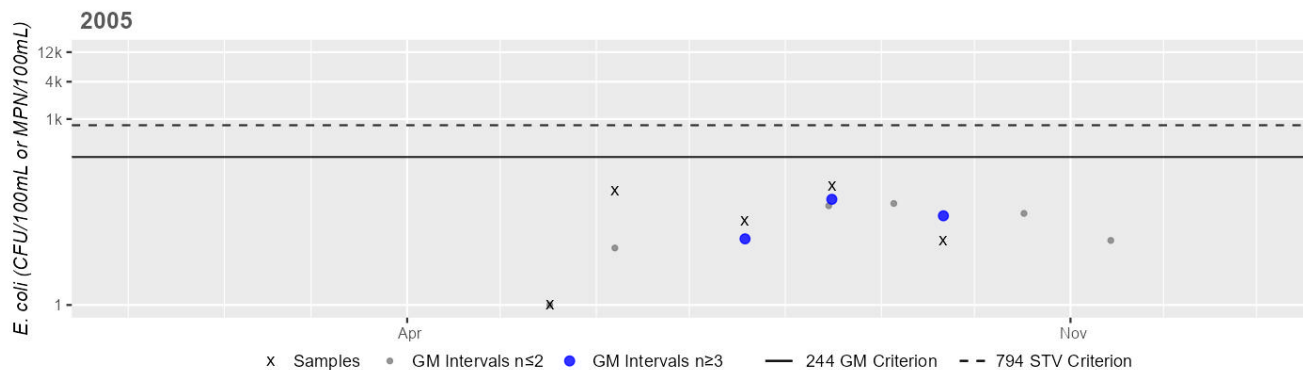
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1354	MassDEP	<i>E. coli</i>	05/17/05	09/21/05	5	1	82	17
W2251	MassDEP	<i>E. coli</i>	05/17/12	09/20/12	6	6	19	11

Station MASSDEP_W1354 - *Escherichia coli*

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



Variable*	Result
Samples	5
SeasGM	17
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

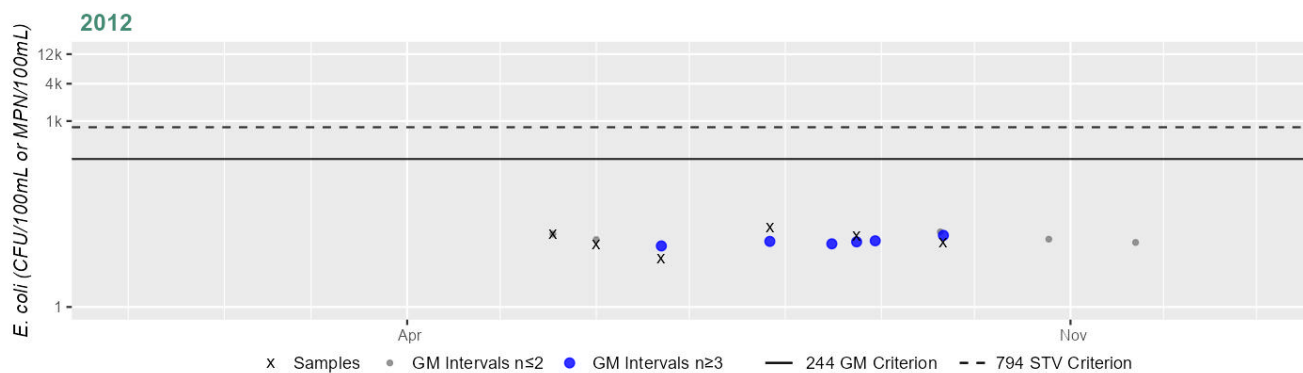
Historic (1997-2010)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; 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_W2251 - *Escherichia coli*

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



Variable*	Result
Samples	6
SeasGM	11
#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 Exceedances; %GMI Ex = % GMI Exceedances; 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.

Cooley Brook (MA33-45)

Location:	Headwaters, north of La Belle Road, Hawley to confluence with Clesson Brook, Buckland.
AU Type:	RIVER
AU Size:	1.5 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Cooley Brook (MA33-45) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

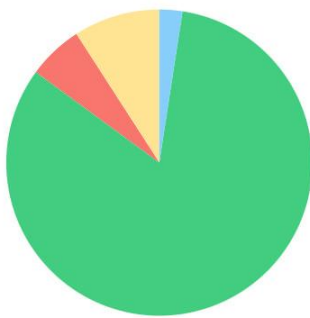
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Creamery Brook (MA33-46)

Location:	Headwaters, perennial portion west of Steady Lane Road, Ashfield to confluence with South River, Ashfield.
AU Type:	RIVER
AU Size:	2.4 MILES
Classification/Qualifier:	B: CWF

Creamery Brook (MA33-46)

Watershed Area: 3.87 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	3.87	3.87	0.93	0.93
Agriculture	9.1%	9.1%	12.1%	12.1%
Developed	5.8%	5.8%	7.4%	7.4%
Natural	82.6%	82.6%	76.8%	76.8%
Wetland	2.4%	2.4%	3.7%	3.7%
Impervious	2.7%	2.7%	3.3%	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 recently, so the Fish Consumption Use for Creamery Brook (MA33-46) 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 Creamery Brook AU (MA33-46), 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 for Creamery Brook (MA33-46) 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 Creamery Brook (MA33-46) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in Creamery Brook (MA33-46) at W1325 [Williamsburg Rd, Ashfield] from May-Sep 2005 (n=5). Historic <i>E. coli</i> data from W1325 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1325	MassDEP	Water Quality	Creamery Brook	[Williamsburg Road, Ashfield]	42.508467	-72.775848

Bacteria Data

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

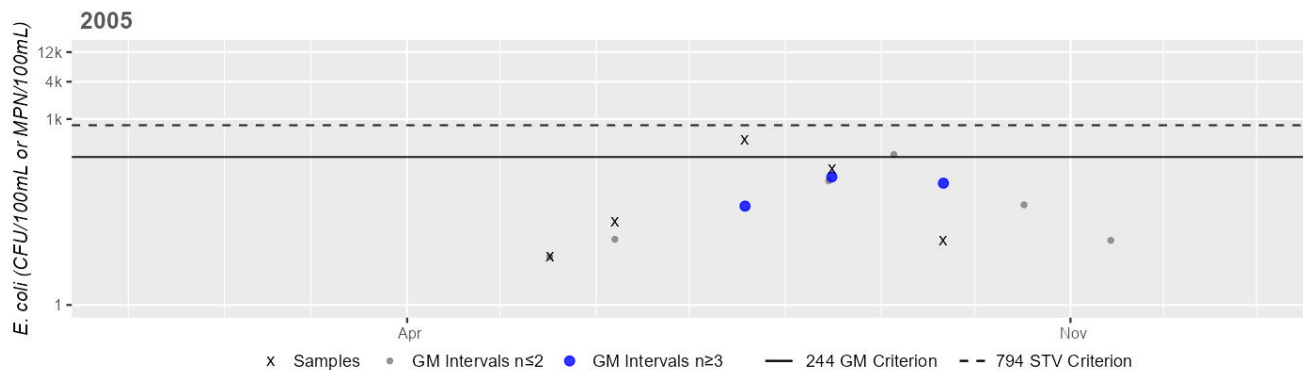
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1325	MassDEP	E. coli	05/17/05	09/21/05	5	6	461	40

Station MASSDEP_W1325 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	40
#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 Exceedances;
 %GMI Ex = % GMI Exceedances; 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.

Davenport Brook (MA33-111)

Location:	Headwaters outlet Papoose Lake, Heath to confluence with Kinsman Brook forming headwaters Taylor Brook, Heath.
AU Type:	RIVER
AU Size:	0.9 MILES
Classification/Qualifier:	B

No usable data were available for Davenport Brook (MA33-111) 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

Davis Mine Brook (MA33-18)

Location:	Headwaters, south of Dell Road, Rowe to confluence with Mill Brook, Charlemont.
AU Type:	RIVER
AU Size:	3.3 MILES
Classification/Qualifier:	B

No usable data were available for Davis Mine Brook (MA33-18) 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
5	5	Fish Bioassessments	--	Unchanged
5	5	pH, Low	--	Unchanged

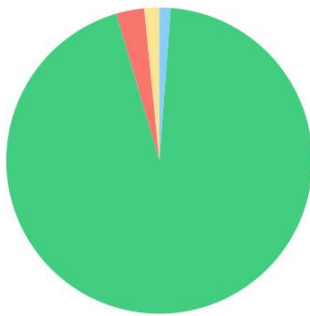
Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Fish Bioassessments	Acid Mine Drainage (Y)	X	--	--	--	--
pH, Low	Acid Mine Drainage (Y)	X	--	--	--	--

Deerfield River (MA33-01)

Location:	Outlet Sherman Reservoir Monroe/Rowe, to confluence with Cold River, Charlemont (through former 2008 segment: Lower Reservoir MA33028).
AU Type:	RIVER
AU Size:	13.1 MILES
Classification/Qualifier:	B: CWF

Deerfield River (MA33-01)

Watershed Area: 135.00 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area* (square miles)	43.38	8.04	12.70	2.03
Agriculture	1.6%	1%	0.9%	0.5%
Developed	3%	2.4%	5.2%	6.7%
Natural	94.3%	95.7%	91.4%	89.9%
Wetland	1.2%	0.9%	2.5%	2.8%
Impervious	1.2%	0.9%	2%	2.5%

*Land cover analysis only includes watershed area within Massachusetts.

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

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Flow Regime Modification*)	Dam or Impoundment (Y)	X	--	--	--	--
(Flow Regime Modification*)	Impacts from Hydrostructure Flow Regulation/Modification (Y)	X	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Insufficient Information	No

2024/26 Use Attainment Summary
There is Insufficient Information to assess the Fish Consumption Use for this Deerfield River AU (MA33-01). Fish toxics sampling was conducted in this Deerfield River AU (MA33-01) at station F0487 (PFAS Study ID 45) [east of River Road, upstream of Florida Bridge, Florida] on 10/24/2022 as part of a MassDEP-funded project evaluating 40 PFAS analytes in selected fresh waters. However, no site-specific fish consumption advisory was issued by MDPH in their 2025 Freshwater Fish Consumption Advisory List.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
F0487	MassDEP	Fish Toxics	Deerfield River	[east of River Road, upstream of Florida Bridge, Florida]	42.654489	-72.955562

Fish Tissue Data

Summary of Fish Tissue Data and Resulting Fish Consumption Advisories (MA DPH 2025) (MassDEP 2023) (MassDEP Undated 5)

Summary
Fish toxics sampling was conducted in this Deerfield River AU (MA33-01) at station F0487 (PFAS Study ID 45) [east of River Road, upstream of Florida Bridge, Florida] on 10/24/2022 as part of a MassDEP-funded project evaluating 40 PFAS analytes in selected fresh waters. No site-specific fish consumption advisory was issued by MDPH in their 2025 Freshwater Fish Consumption Advisory List.

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 MDPH's 2023 Technical Support Document for the evaluation of PFAS in recreational waterbodies.]

[Species List: RT = rainbow 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
F0487	45	10/24/2022	RT	ND	ND	ND	0.20	PFOS

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Deerfield River (MA33-01) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
No bacteria data are available to assess the Primary Contact Recreation Use for Deerfield River (MA33-01) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information. Surface water sampling was conducted in Deerfield River (MA33-01) at station W3310 (PFAS Study ID 45) on 10/24/2022 as part of a 2022 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.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W3310	MassDEP	Water Quality	Deerfield River	[the default location representing co-located water/fish PFAS sampling, east of Bridge Road, upstream of Florida Bridge, Florida]	42.654489	-72.955562

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 Deerfield River (MA33-01) at station W3310 (PFAS Study ID 45) on 10/24/2022 as part of a 2022 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 Σ PFAS6 equals the sum of PFOA, PFOS, PFNA, PFHxS, PFDA, PFHpA (not all shown individually here); * indicates the Σ 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	ΣPFAS6 ng/L
W3310	45	10/24/2022	1.3j	0.97bdj	<0.5	<0.57	<2	0.44j	<2	4.4*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
No bacteria data are available to assess the Secondary Contact Recreation Use for Deerfield River (MA33-01) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information. MassDEP staff collected <i>E. coli</i> bacteria samples in the Deerfield River (MA33-01) at W1353 [~850 ft downstream of River Rd/Zoar Rd (the Florida Bridge), Florida/Charlemont] from May-Sep 2005 (n=5). Historic <i>E. coli</i> data from W1353 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1353	MassDEP	Water Quality	Deerfield River	[approximately 850 feet downstream of River Road/Zoar Road (the Florida Bridge), Florida/Charlemont]	42.650989	-72.953187

Bacteria Data

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

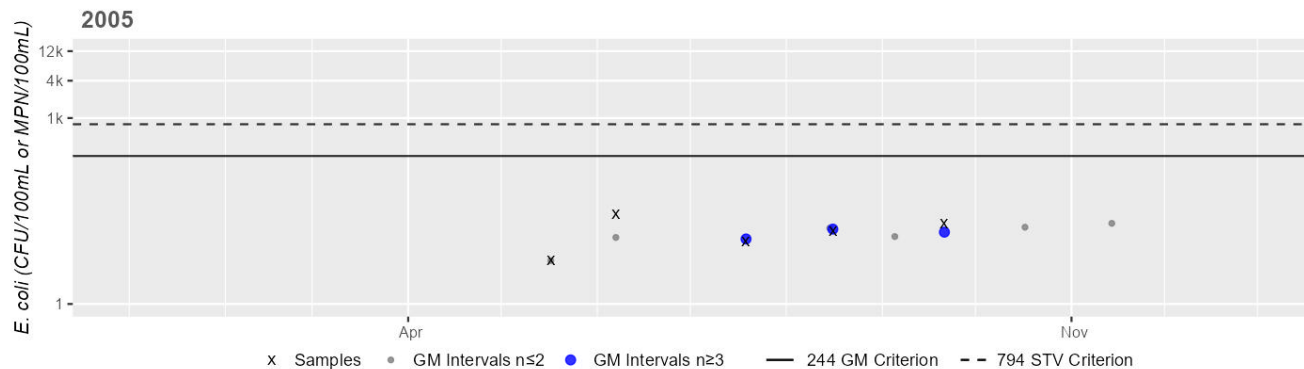
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1353	MassDEP	E. coli	05/17/05	09/21/05	5	5	28	13

Station MASSDEP_W1353 - *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%

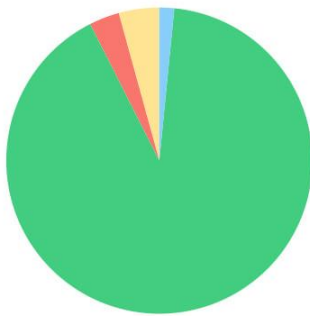
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes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

Deerfield River (MA33-02)

Location:	Confluence with Cold River, Charlemont to confluence with North River, Charlemont/Shelburne.
AU Type:	RIVER
AU Size:	11.4 MILES
Classification/Qualifier:	B: CWF

Deerfield River (MA33-02)

Watershed Area: 354.06 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area* (square miles)	218.02	19.81	56.89	5.81
Agriculture	4.3%	5.6%	4.3%	7.3%
Developed	3.2%	4.7%	5.4%	8.2%
Natural	91%	88.5%	87%	81.9%
Wetland	1.6%	1.2%	3.3%	2.5%
Impervious	1.3%	1.7%	2.3%	3.1%

*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 recently, so the Fish Consumption Use for Deerfield River (MA33-02) 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 Deerfield River (MA33-02) 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 Deerfield River (MA33-02) continues to be assessed as Fully Supporting. CRC staff/volunteers collected <i>E. coli</i> bacteria samples in the Deerfield River (MA33-02) from 2019-2022 at 4 stations. Samples were collected from the following stations/sample years from upstream to downstream: CRC_MA-DFR_28.9 [Shunpike Rest Area, Rte 2, Charlemont] in 2019-2022 (n=5-6/yr), CRC_MA-DFR_27.6 [Zoar Ramp, Rte 2, Charlemont] from Jun-Sep 2019 (n=6), CRC_MA-DFR_24.0 [Near Academy at Charlemont] in 2019-2022 (n=5-6/yr), CRC_MA-DFR_18.9 [Above confluence with N River, Charlemont] from Jul-Sep 2020 (n=5). <i>E. coli</i> data from CRC_MA-DFR_28.9, CRC_MA-DFR_27.6, CRC_MA-DFR_24.0, and CRC_MA-DFR_18.9 meet 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CRC_MA-DFR_18.9	Connecticut River Conservancy	Water Quality	Deerfield River	Above confluence with North River, Charlemont	42.627166	-72.737652
CRC_MA-DFR_24.0	Connecticut River Conservancy	Water Quality	Deerfield River	Near Academy at Charlemont	42.618872	-72.822136
CRC_MA-DFR_27.6	Connecticut River Conservancy	Water Quality	Deerfield River	Zoar Ramp, Rte 2, Charlemont	42.627224	-72.885597
CRC_MA-DFR_28.9	Connecticut River Conservancy	Water Quality	Deerfield River	Shunpike Rest Area, Rte 2, Charlemont	42.635740	-72.906380

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (30-day Interval Analysis) (CRC 2023) (MassDEP Undated 2)

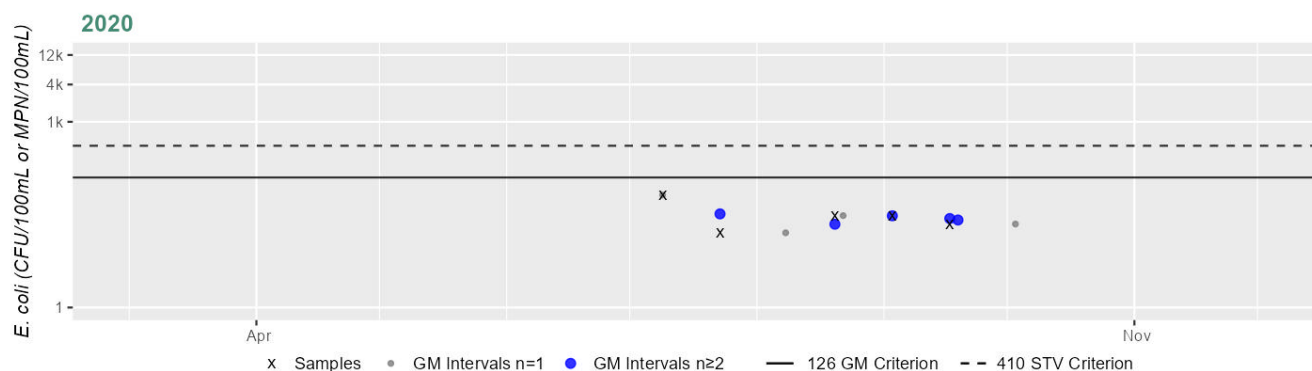
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
CRC_MA-DFR_18.9	Connecticut River Conservancy	E. coli	07/08/20	09/16/20	5	16	65	29
CRC_MA-DFR_24.0	Connecticut River Conservancy	E. coli	06/26/19	09/04/19	6	40	111	63

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
CRC_MA-DFR_24.0	Connecticut River Conservancy	E. coli	07/08/20	09/16/20	5	20	78	39
CRC_MA-DFR_24.0	Connecticut River Conservancy	E. coli	06/23/21	09/01/21	6	32	99	53
CRC_MA-DFR_24.0	Connecticut River Conservancy	E. coli	06/22/22	08/31/22	6	53	148	89
CRC_MA-DFR_27.6	Connecticut River Conservancy	E. coli	06/26/19	09/04/19	6	16	69	35
CRC_MA-DFR_28.9	Connecticut River Conservancy	E. coli	06/26/19	09/04/19	6	15	51	29
CRC_MA-DFR_28.9	Connecticut River Conservancy	E. coli	07/08/20	09/16/20	5	13	105	39
CRC_MA-DFR_28.9	Connecticut River Conservancy	E. coli	06/23/21	09/01/21	6	17	101	37
CRC_MA-DFR_28.9	Connecticut River Conservancy	E. coli	06/22/22	08/31/22	6	20	69	38

Station CRC_MA-DFR_18.9 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	29
#GMI	5
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

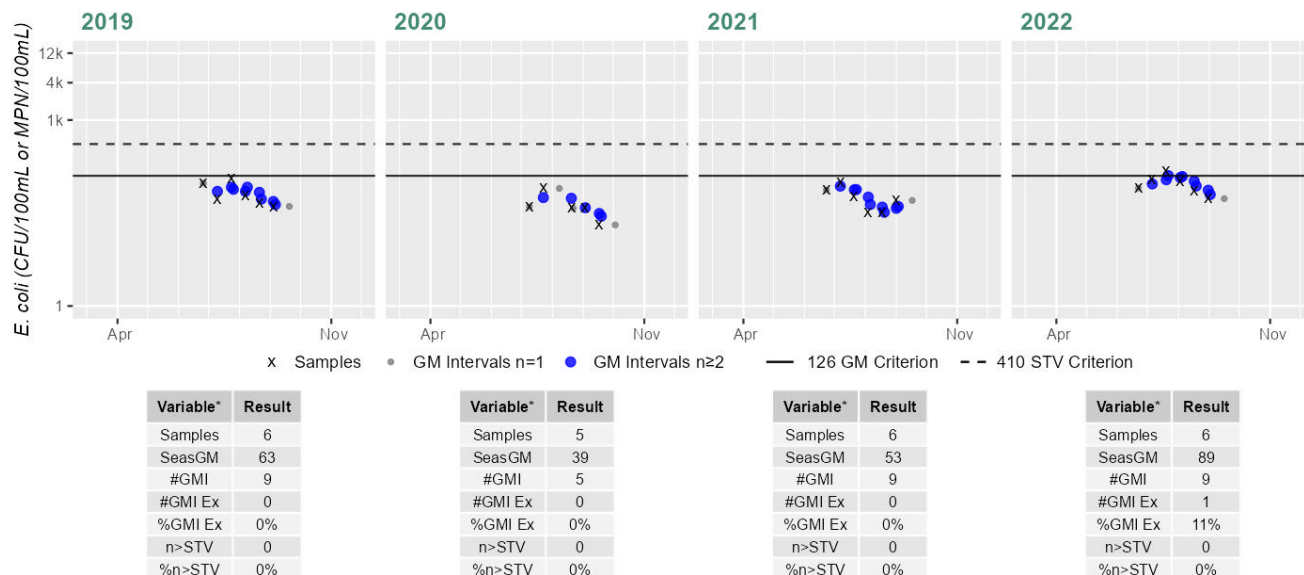
Current (2011-2022)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; 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 CRC_MA-DFR_24.0 - Escherichia coli

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



Cumulative %GMI Exceedance

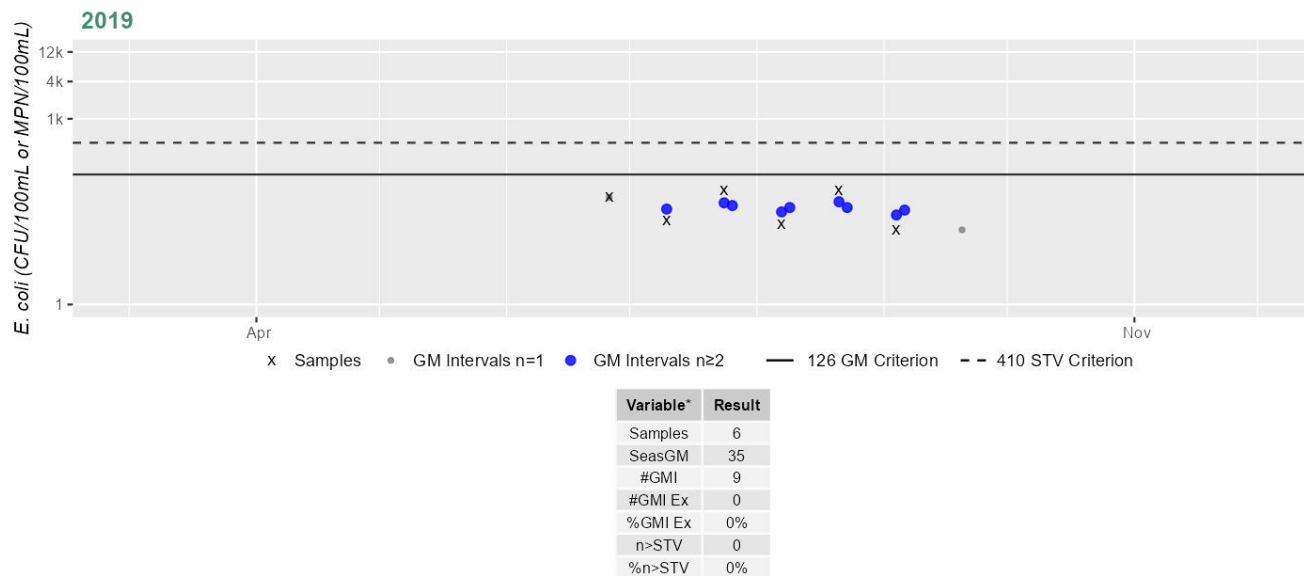
Current (2011-2022)

3%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; 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 CRC_MA-DFR_27.6 - Escherichia coli

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



Cumulative %GMI Exceedance

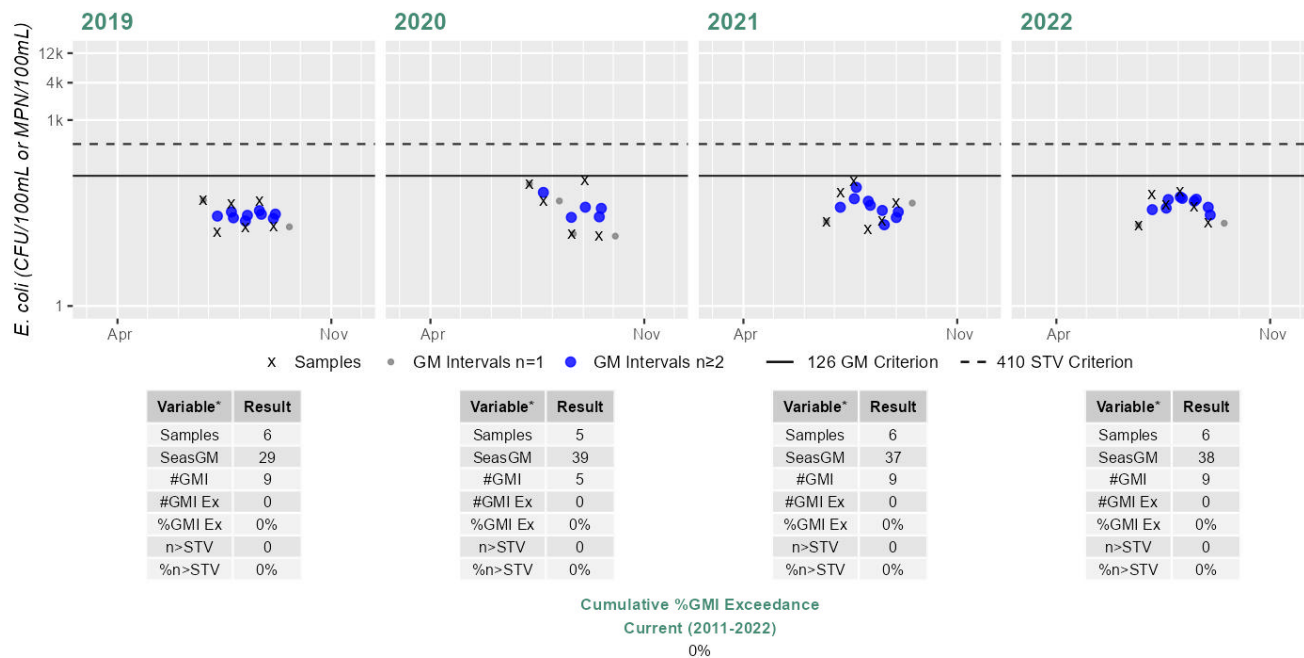
Current (2011-2022)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; 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 CRC_MA-DFR_28.9 - *Escherichia coli*

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



*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; 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
<p>The Secondary Contact Recreation Use for the Deerfield River (MA33-02) continues to be assessed as Fully Supporting. CRC and MassDEP staff/volunteers collected <i>E. coli</i> bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in the Deerfield River (MA33-02) from 2005-2022 at 5 stations. Samples were collected from the following stations/sample years from upstream to downstream: CRC_MA-DFR_28.9 [Shunpike Rest Area, Rte 2, Charlemont] in 2019-2022 (n=5-6/yr), CRC_MA-DFR_27.6 [Zoar Ramp, Rte 2, Charlemont] from Jun-Sep 2019 (n=6), W0761 [at USGS gage #01168500, S of Mohawk Trail (Rt. 2) between Heath Rd and Burrington Rd, Charlemont] from May-Sep 2005 (n=5), CRC_MA-DFR_24.0 [Near Academy at Charlemont] in 2019-2022 (n=5-6/yr), CRC_MA-DFR_18.9 [Above confluence with N River, Charlemont] from Jul-Sep 2020 (n=5). <i>E. coli</i> data from CRC_MA-DFR_28.9, CRC_MA-DFR_27.6, CRC_MA-DFR_24.0, and CRC_MA-DFR_18.9 meet 2024 CALM guidance.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CRC_MA-DFR_18.9	Connecticut River Conservancy	Water Quality	Deerfield River	Above confluence with North River, Charlemont	42.627166	-72.737652
CRC_MA-DFR_24.0	Connecticut River Conservancy	Water Quality	Deerfield River	Near Academy at Charlemont	42.618872	-72.822136
CRC_MA-DFR_27.6	Connecticut River Conservancy	Water Quality	Deerfield River	Zoar Ramp, Rte 2, Charlemont	42.627224	-72.885597
CRC_MA-DFR_28.9	Connecticut River Conservancy	Water Quality	Deerfield River	Shunpike Rest Area, Rte 2, Charlemont	42.635740	-72.906380
W0761	MassDEP	Water Quality	Deerfield River	[at USGS gage #01168500, south of Mohawk Trail (Route 2) between Heath Road and Burrington Road, Charlemont]	42.625738	-72.854044

Bacteria Data

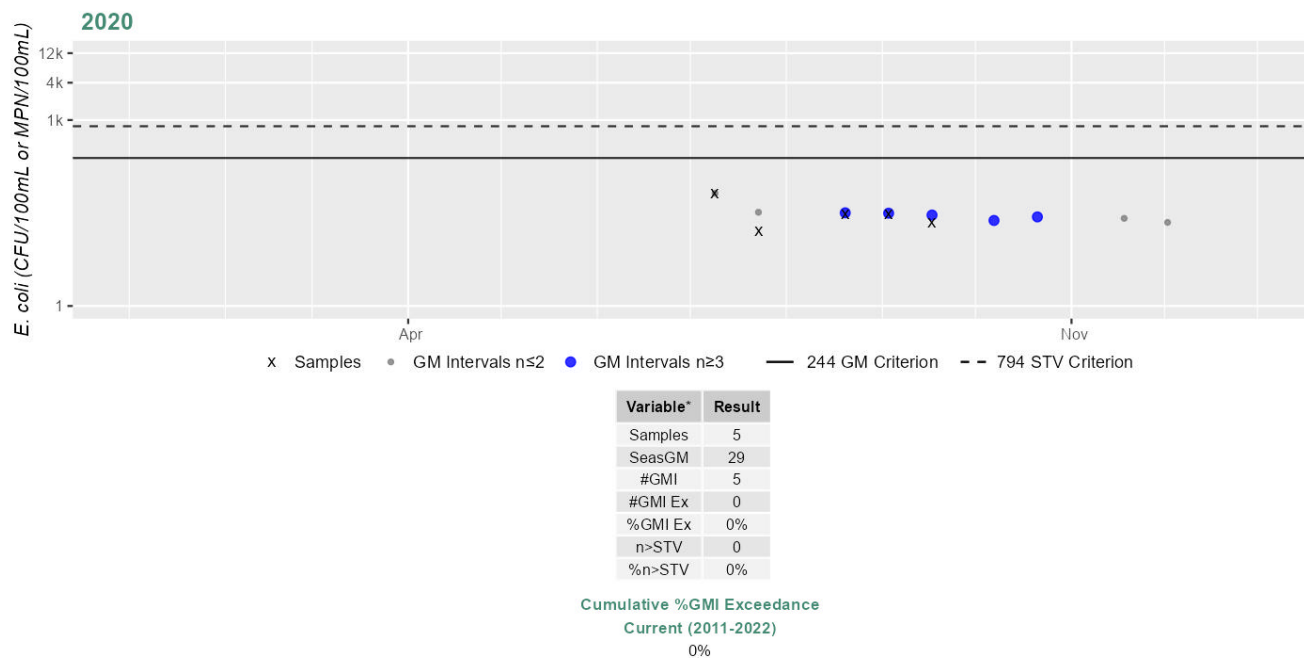
Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis) (CRC 2023) (MassDEP Undated 1) (MassDEP Undated 6) (MassDEP Undated 3)

[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
CRC_MA-DFR_18.9	Connecticut River Conservancy	E. coli	07/08/20	09/16/20	5	16	65	29
CRC_MA-DFR_24.0	Connecticut River Conservancy	E. coli	06/26/19	09/04/19	6	40	111	63
CRC_MA-DFR_24.0	Connecticut River Conservancy	E. coli	07/08/20	09/16/20	5	20	78	39
CRC_MA-DFR_24.0	Connecticut River Conservancy	E. coli	06/23/21	09/01/21	6	32	99	53
CRC_MA-DFR_24.0	Connecticut River Conservancy	E. coli	06/22/22	08/31/22	6	53	148	89
CRC_MA-DFR_27.6	Connecticut River Conservancy	E. coli	06/26/19	09/04/19	6	16	69	35
CRC_MA-DFR_28.9	Connecticut River Conservancy	E. coli	06/26/19	09/04/19	6	15	51	29
CRC_MA-DFR_28.9	Connecticut River Conservancy	E. coli	07/08/20	09/16/20	5	13	105	39
CRC_MA-DFR_28.9	Connecticut River Conservancy	E. coli	06/23/21	09/01/21	6	17	101	37
CRC_MA-DFR_28.9	Connecticut River Conservancy	E. coli	06/22/22	08/31/22	6	20	69	38
W0761	MassDEP	E. coli	05/17/05	09/21/05	5	2	272	37

Station CRC_MA-DFR_18.9 - Escherichia coli

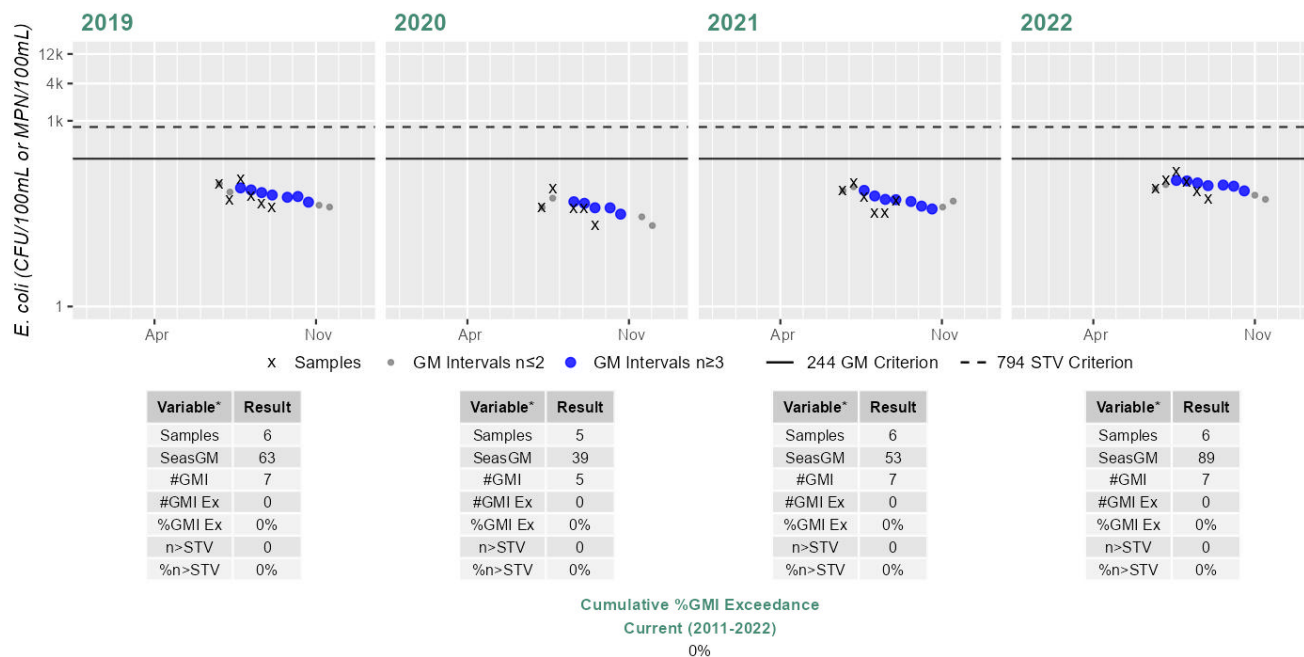
Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; 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 CRC_MA-DFR_24.0 - Escherichia coli

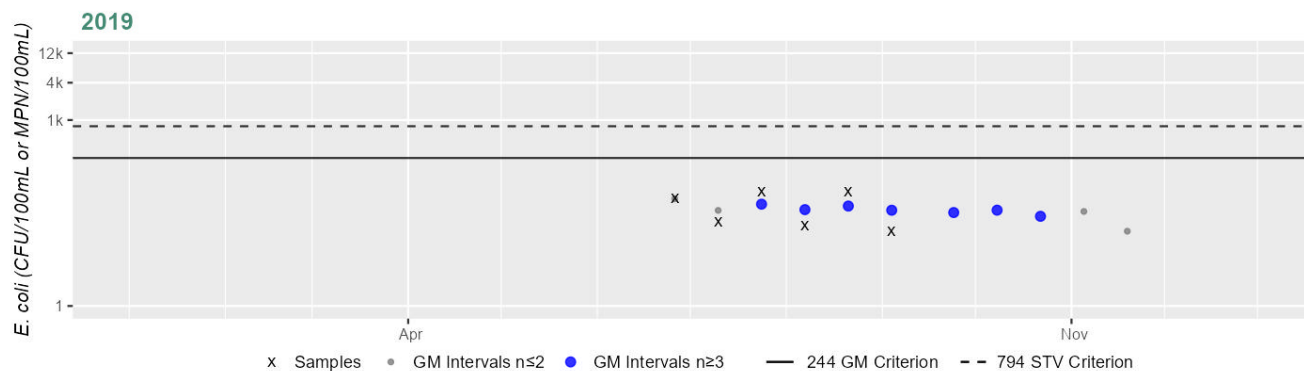
Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; 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 CRC_MA-DFR_27.6 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	35
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

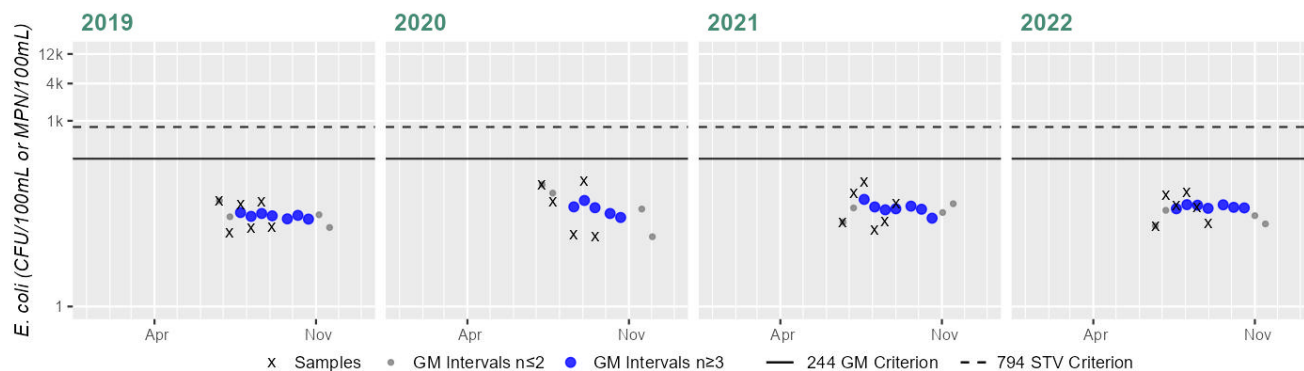
Current (2011-2022)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; 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 CRC_MA-DFR_28.9 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	29
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

Variable*	Result
Samples	6
SeasGM	37
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	38
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

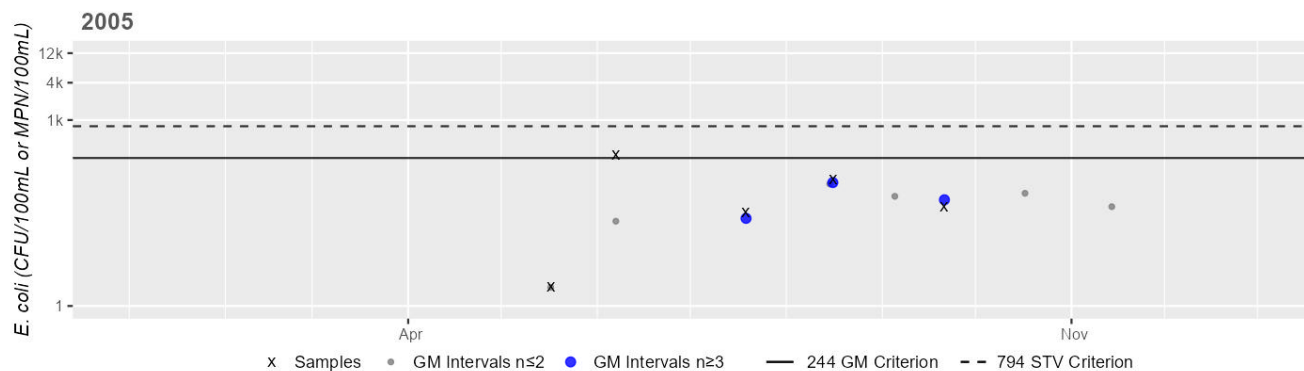
Current (2011-2022)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; 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_W0761 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	37
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Historic (1997-2010)

0%

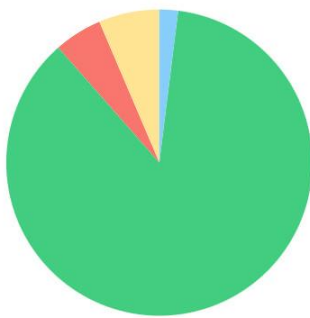
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes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

Deerfield River (MA33-03)

Location:	Confluence with North River, Charlemont/Shelburne to confluence with Green River, Greenfield.
AU Type:	RIVER
AU Size:	16.9 MILES
Classification/Qualifier:	B: WWF

Deerfield River (MA33-03)

Watershed Area: 516.90 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area* (square miles)	343.60	18.67	94.13	4.96
Agriculture	6.4%	11.3%	6.5%	14.9%
Developed	5.1%	22.4%	6.3%	15%
Natural	86.5%	61.5%	82.8%	57%
Wetland	2%	4.9%	4.4%	13%
Impervious	2.2%	11.4%	2.8%	7.2%

*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, so the Fish Consumption Use for Deerfield River (MA33-03) 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 Deerfield River (MA33-03) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
<p>The Primary Contact Recreation Use for the Deerfield River (MA33-03) continues to be assessed as Fully Supporting.</p> <p>CRC and USGS staff/volunteers collected <i>E. coli</i> bacteria samples in the Deerfield River (MA33-03) from 2019-2022 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: CRC_MA-DFR_08.0 & USGS-01170006 [Stillwater Bridge, Deerfield & DEERFIELD R, STILLWATER BR, AT W DEERFIELD, MA] in 2019-2022 (n=5-12/yr), CRC_MA-DFR_05.1 [Near Deerfield Academy, Deerfield] in 2020-2022 (n=5-6/yr). <i>E. coli</i> data from CRC_MA-DFR_08.0 & USGS-01170006 and CRC_MA-DFR_05.1 meet 2024 CALM guidance. Additionally, surface water sampling was conducted by the USGS on the Deerfield River (MA33-03) at station USGS_01170006 at the Stillwater Bridge at West Deerfield, MA on three dates during August to October 2020. 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).</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CRC_MA-DFR_05.1	Connecticut River Conservancy	Water Quality	Deerfield River	Near Deerfield Academy, Deerfield	42.544224	-72.614002
CRC_MA-DFR_08.0	Connecticut River Conservancy	Water Quality	Deerfield River	Stillwater Bridge, Deerfield	42.526715	-72.632576
USGS-01170006	USGS Massachusetts Water Science Center	Water Quality	Deerfield River	DEERFIELD R, STILLWATER BR, AT WEST DEERFIELD, MA; no WWTF	42.526753	-72.632590

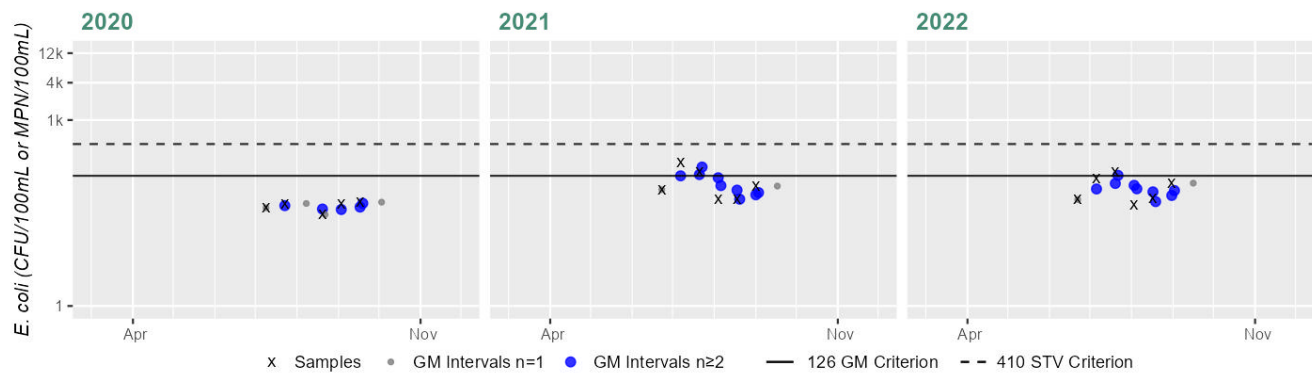
Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (30-day Interval Analysis) (CRC 2023) (MassDEP Undated 2) (USGS 2024) (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
CRC_MA-DFR_05.1	Connecticut River Conservancy	E. coli	07/08/20	09/16/20	5	29	47	40
CRC_MA-DFR_05.1	Connecticut River Conservancy	E. coli	06/23/21	09/01/21	6	52	209	90
CRC_MA-DFR_05.1	Connecticut River Conservancy	E. coli	06/22/22	08/31/22	6	42	143	75
CRC_MA-DFR_08.0	Connecticut River Conservancy	E. coli	07/08/20	09/16/20	5	19	95	35
CRC_MA-DFR_08.0	Connecticut River Conservancy	E. coli	06/23/21	09/01/21	5	21	238	95
CRC_MA-DFR_08.0	Connecticut River Conservancy	E. coli	06/22/22	08/31/22	6	19	45	31
USGS-01170006	USGS Massachusetts Water Science Center	E. coli	04/18/19	10/16/19	5	0	15	5
USGS-01170006	USGS Massachusetts Water Science Center	E. coli	05/11/20	10/26/20	4	10	50	20
USGS-01170006	USGS Massachusetts Water Science Center	E. coli	04/19/21	10/19/21	7	5	70	21

Station CRC_MA-DFR_05.1 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	40
#GMI	5
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	90
#GMI	9
#GMI Ex	2
%GMI Ex	22%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	75
#GMI	9
#GMI Ex	1
%GMI Ex	11%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

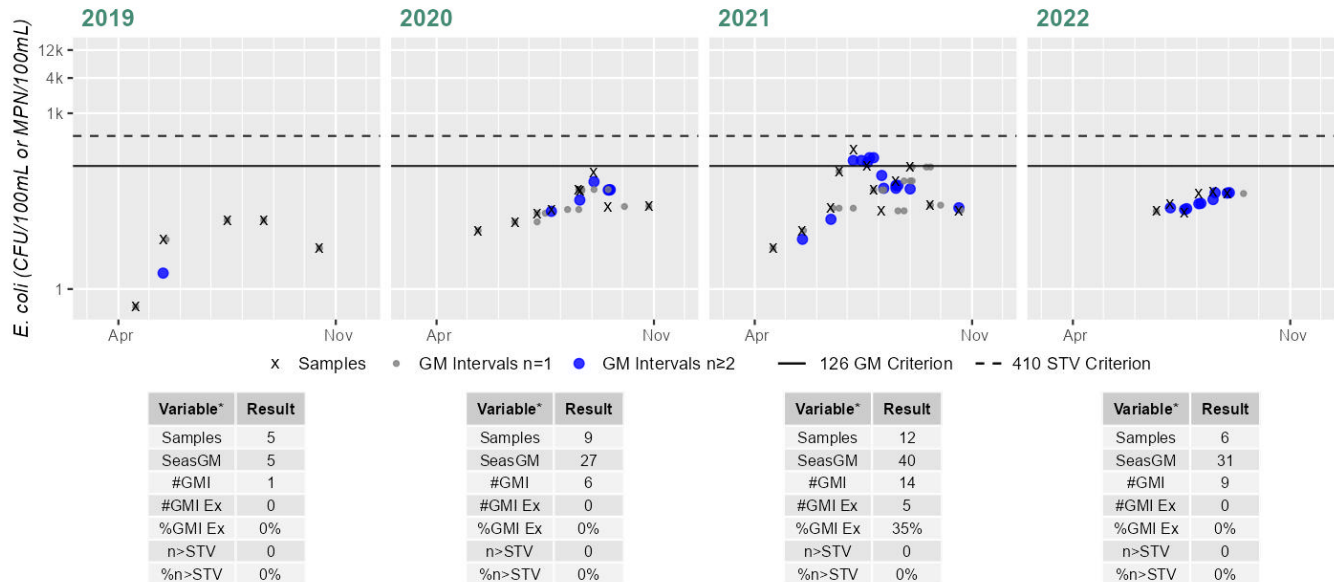
Current (2011-2022)

13%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; 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 CRC_MA-DFR_08.0 & USGS-01170006 - Escherichia coli

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



Cumulative %GMI Exceedance

Current (2011-2022)

16%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; 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 USGS 2020 PFAS in Water Column Data (Savoie and Argue 2023) (MassDEP Undated 2)

Summary

Surface water sampling was conducted by the USGS on the Deerfield River (MA33-03) at station USGS_01170006 at the Stillwater Bridge at West Deerfield, 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 2)

[The ΣPFAS6 equals the sum of PFOA, PFOS, PFNA, PFHxS, PFDA, PFHpA (not all shown individually here). * indicates the ΣPFAS6 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-01170006	8/18/2020	E1.32	E1.04	<1.84	<1.84	E0.558	<1.84	8.3*
USGS-01170006	9/16/2020	E0.851	E0.869	<1.84	<1.84	<1.84	<1.84	7.7*
USGS-01170006	10/22/2020	E0.759	E0.645	<1.97	<1.97	E0.432	<1.97	7.6*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for the Deerfield River (MA33-03) continues to be assessed as Fully Supporting. CRC, MassDEP, and USGS staff/volunteers collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in the Deerfield River (MA33-03) from 2005-2022 at 3 stations. Samples were collected from the following stations/sample years from upstream to downstream: CRC_MA-DFR_08.0 & USGS-01170006 [Stillwater Bridge, Deerfield & DEERFIELD R, STILLWATER BR, AT W DEERFIELD, MA] in 2019-2022 (n=6-15/yr), W0002 [~200 ft upstream of the S bound lane of Rt. 91, Deerfield] from May-Sep 2005 (n=5), CRC_MA-DFR_05.1 [Near Deerfield Academy, Deerfield] in 2020-2022 (n=5-6/yr). *E. coli* data from CRC_MA-DFR_08.0 & USGS-01170006 and CRC_MA-DFR_05.1 meet 2024 CALM guidance. Additionally, surface water sampling was conducted by the USGS on the Deerfield River (MA33-03) at station USGS_01170006 at the Stillwater Bridge at West Deerfield, MA on three dates during August to October 2020. 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
CRC_MA-DFR_05.1	Connecticut River Conservancy	Water Quality	Deerfield River	Near Deerfield Academy, Deerfield	42.544224	-72.614002
CRC_MA-DFR_08.0	Connecticut River Conservancy	Water Quality	Deerfield River	Stillwater Bridge, Deerfield	42.526715	-72.632576
W0002	MassDEP	Water Quality	Deerfield River	[approximately 200 feet upstream of the south bound lane of Route 91, Deerfield]	42.522811	-72.626625
USGS-01170006	USGS Massachusetts Water Science Center	Water Quality	Deerfield River	DEERFIELD R, STILLWATER BR, AT WEST DEERFIELD, MA; no WWTF	42.526753	-72.632590

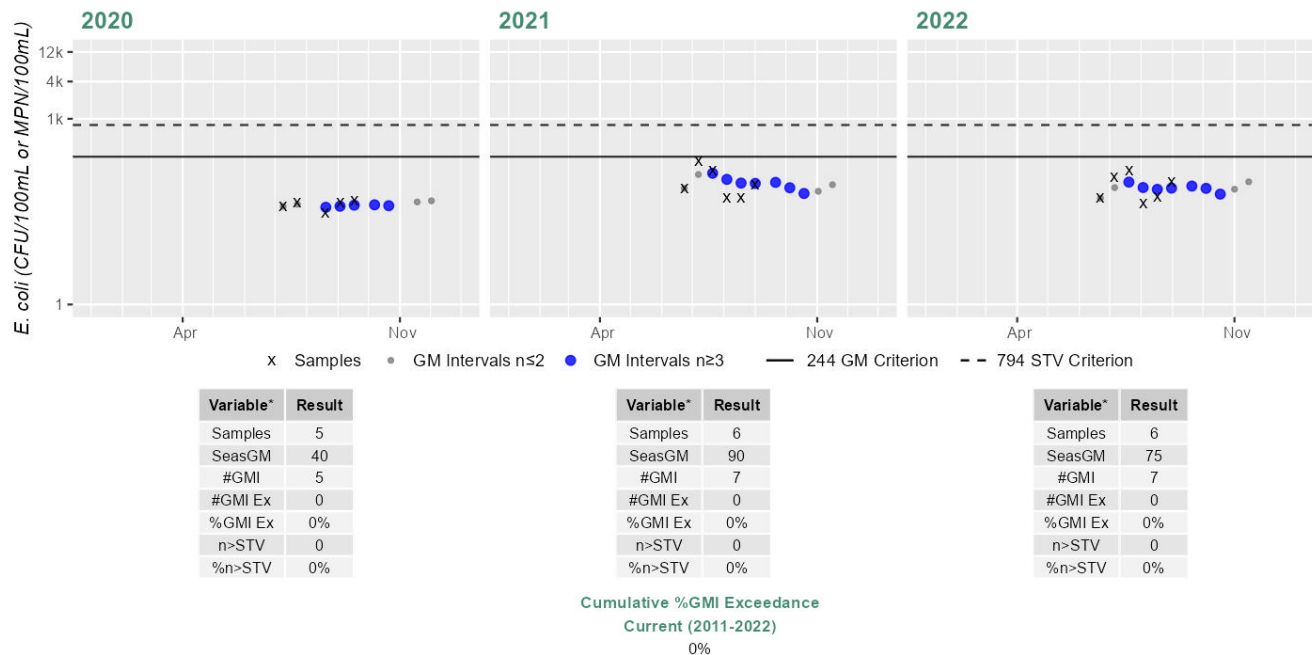
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis) (CRC 2023) (MassDEP Undated 1) (MassDEP Undated 6) (MassDEP Undated 3) (USGS 2024) (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
CRC_MA-DFR_05.1	Connecticut River Conservancy	E. coli	07/08/20	09/16/20	5	29	47	40
CRC_MA-DFR_05.1	Connecticut River Conservancy	E. coli	06/23/21	09/01/21	6	52	209	90
CRC_MA-DFR_05.1	Connecticut River Conservancy	E. coli	06/22/22	08/31/22	6	42	143	75
CRC_MA-DFR_08.0	Connecticut River Conservancy	E. coli	07/08/20	09/16/20	5	19	95	35
CRC_MA-DFR_08.0	Connecticut River Conservancy	E. coli	06/23/21	09/01/21	5	21	238	95
CRC_MA-DFR_08.0	Connecticut River Conservancy	E. coli	06/22/22	08/31/22	6	19	45	31
W0002	MassDEP	E. coli	05/17/05	09/21/05	5	9	2050	186
USGS-01170006	USGS Massachusetts Water Science Center	E. coli	01/29/19	12/19/19	10	0	26	5
USGS-01170006	USGS Massachusetts Water Science Center	E. coli	01/23/20	12/10/20	9	2	50	11
USGS-01170006	USGS Massachusetts Water Science Center	E. coli	01/26/21	11/16/21	10	3	70	14

Station CRC_MA-DFR_05.1 - Escherichia coli

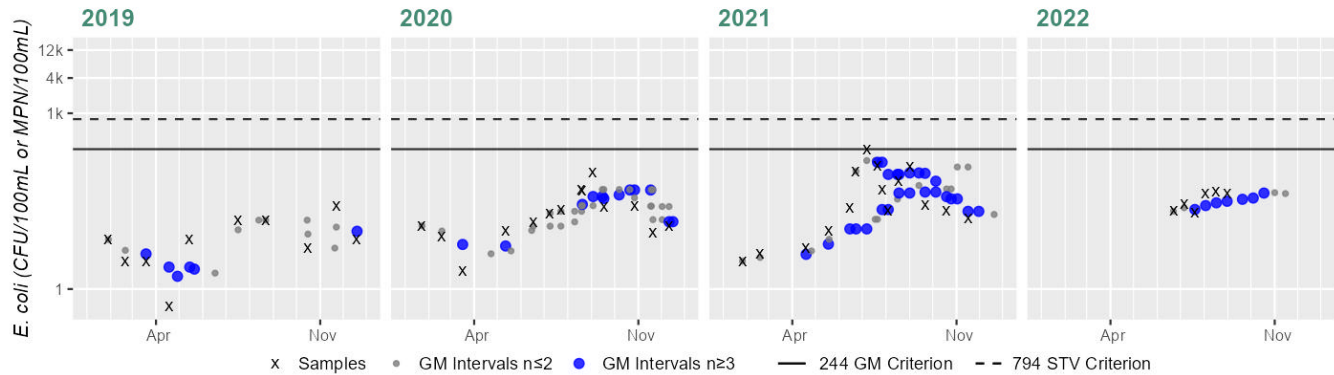
Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; 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 CRC_MA-DFR_08.0 & USGS-01170006 - *Escherichia coli*

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



Variable*	Result
Samples	10
SeasGM	5
#GMI	6
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	14
SeasGM	17
#GMI	12
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	15
SeasGM	27
#GMI	25
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	31
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

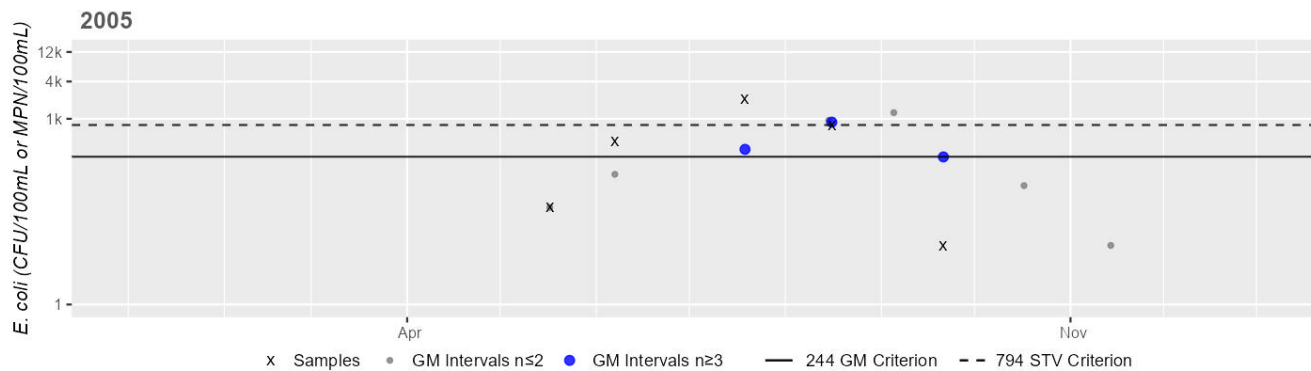
Current (2011-2022)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; 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_W0002 - *Escherichia coli*

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



Variable*	Result
Samples	5
SeasGM	186
#GMI	3
#GMI Ex	2
%GMI Ex	66%
n>STV	1
%n>STV	20%

Cumulative %GMI Exceedance

Historic (1997-2010)

66%

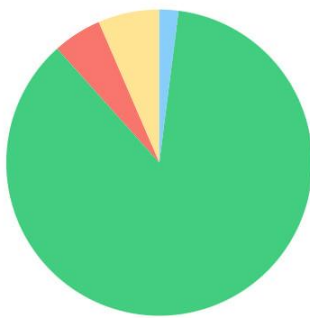
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes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

Deerfield River (MA33-04)

Location:	Confluence with Green River, Greenfield to confluence with Connecticut River, Greenfield/Deerfield.
AU Type:	RIVER
AU Size:	2 MILES
Classification/Qualifier:	B: WWF

Deerfield River (MA33-04)

Watershed Area: 663.31 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area* (square miles)	346.34	14.27	95.29	4.48
Agriculture	6.5%	10.1%	6.6%	12.8%
Developed	5.2%	31.4%	6.5%	19.3%
Natural	86.3%	52.7%	82.5%	54%
Wetland	2%	5.8%	4.5%	13.8%
Impervious	2.2%	15%	2.8%	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	4a	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	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)

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, so the Fish Consumption Use for Deerfield River (MA33-04) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	YES
2024/26 Use Attainment Summary	
No data are available, so the Aesthetics Use for Deerfield River (MA33-04) is Not Assessed. The former Alert due to historical observations of intermittent turbidity is also being carried forward.	

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO
2024/26 Use Attainment Summary	

The Primary Contact Recreation Use for the Deerfield River (MA33-04) 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 CRC_MA-DFR_01.1 and the prior Alert is being removed. CRC staff/volunteers collected *E. coli* bacteria samples in the Deerfield River (MA33-04) at CRC_MA-DFR_01.1 [5&10 Bridge, Greenfield] in 2019-2022 (n=5-7/yr). Analysis of the multi-year limited frequency *E. coli* dataset from CRC_MA-DFR_01.1 indicated 3 out of 4 sufficient data yrs had intervals where >20% of the GMs were >126 CFU/100ml (2019 and 2021-2022, 22-100%), 1 yr had ≥2 samples exceed the 410 CFU/100ml STV (2019, n=3), and cumulatively across years 50% of intervals had GMs >126 CFU/100ml. *E. coli* data from CRC_MA-DFR_01.1 are indicative of an *E. coli* impairment.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CRC_MA-DFR_01.1	Connecticut River Conservancy	Water Quality	Deerfield River	5&10 Bridge, Greenfield	42.569750	-72.592230

Bacteria Data

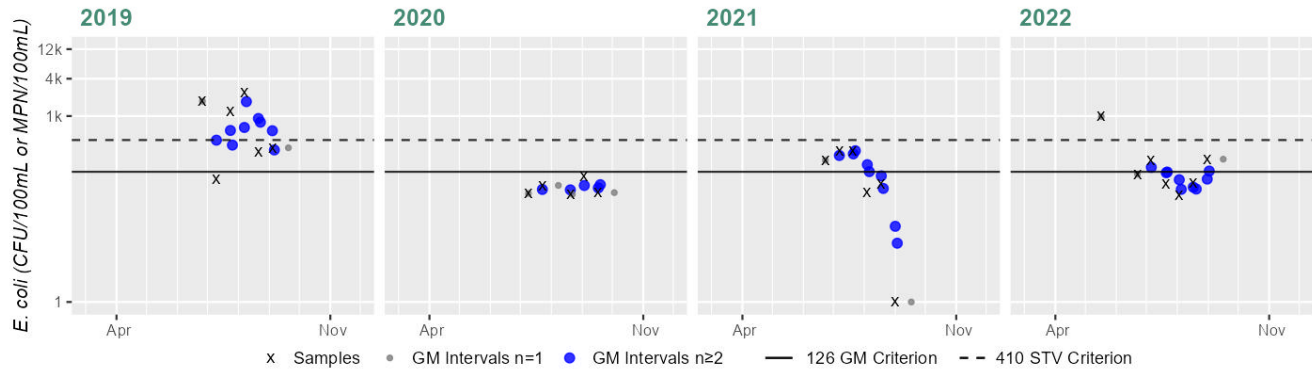
Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (30-day Interval Analysis) (CRC 2023) (MassDEP Undated 2)

[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
CRC_MA-DFR_01.1	Connecticut River Conservancy	E. coli	06/26/19	09/04/19	6	96	2419	582
CRC_MA-DFR_01.1	Connecticut River Conservancy	E. coli	07/08/20	09/16/20	5	54	105	67
CRC_MA-DFR_01.1	Connecticut River Conservancy	E. coli	06/23/21	09/01/21	6	1	275	63
CRC_MA-DFR_01.1	Connecticut River Conservancy	E. coli	05/17/22	08/31/22	7	52	980	148

Station CRC_MA-DFR_01.1 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	582
#GMI	9
#GMI Ex	9
%GMI Ex	100%
n>STV	3
%n>STV	50%

Variable*	Result
Samples	5
SeasGM	67
#GMI	5
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	63
#GMI	9
#GMI Ex	5
%GMI Ex	55%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	7
SeasGM	148
#GMI	9
#GMI Ex	2
%GMI Ex	22%
n>STV	1
%n>STV	14%

Cumulative %GMI Exceedance

Current (2011-2022)

50%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; 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 the Deerfield River (MA33-04) is assessed as Not Supporting. An *Escherichia coli* (*E. coli*) impairment is being added based on a re-evaluation of bacteria data not meeting the threshold at W0757 and the prior Alert is being removed. CRC and MassDEP staff/volunteers collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in the Deerfield River (MA33-04) from 2005-2022 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: W0757 [Rt. 5-10 bridge, Deerfield (southern side of river)] from May-Sep 2005 (n=5), CRC_MA-DFR_01.1 [5&10 Bridge, Greenfield] in 2019-2022 (n=5-7/yr). Analysis of the multi-year limited frequency *E. coli* dataset from CRC_MA-DFR_01.1 indicated 1 out of 4 sufficient data yrs had intervals where >20% of the GMs were >244 CFU/100ml (2019, 100%), 1 yr had ≥2 samples exceed the 794 CFU/100ml STV (2019, n=3), and cumulatively across years 32% of intervals had GMs >244 CFU/100ml. Analysis of this historic single year limited frequency *E. coli* dataset from W0757 indicated 100% of intervals had GMs >244 CFU/100ml, 1 sample exceeded the 794 CFU/100ml STV, and the overall GM was 341 CFU/100ml. *E. coli* data from CRC_MA-DFR_01.1 meet 2024 CALM guidance. Historic *E. coli* data from W0757 are indicative of an *E. coli* impairment. While recent data indicated generally good conditions, data from W0757 are indicative of an *Escherichia coli* impairment and poor water quality conditions in the historic window (1997-2010) and no recent data are available to assess the location in the current window (2011-2022).

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CRC_MA-DFR_01.1	Connecticut River Conservancy	Water Quality	Deerfield River	5&10 Bridge, Greenfield	42.569750	-72.592230
W0757	MassDEP	Water Quality	Deerfield River	[Route 5-10 bridge, Deerfield (southern side of river)]	42.569307	-72.591965

Bacteria Data

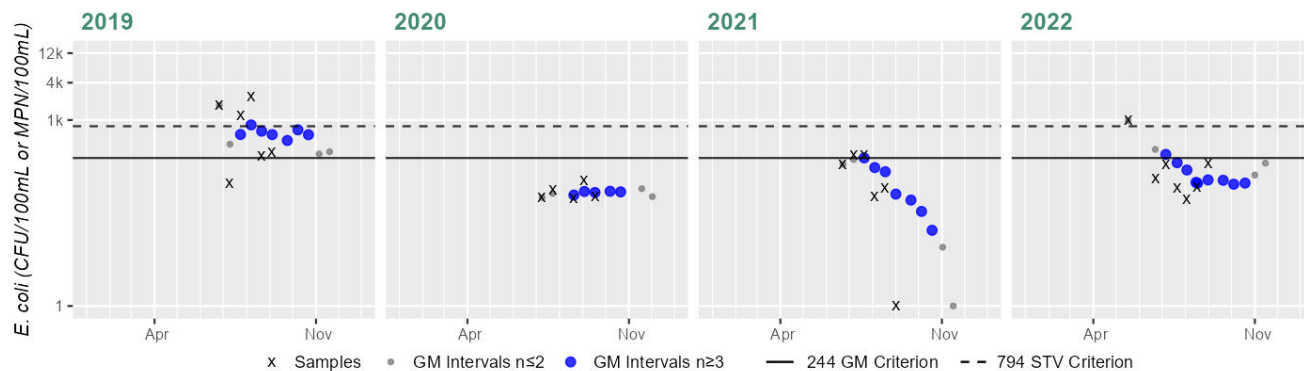
Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis) (CRC 2023) (MassDEP Undated 1) (MassDEP Undated 6) (MassDEP Undated 3)

[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
CRC_MA-DFR_01.1	Connecticut River Conservancy	E. coli	06/26/19	09/04/19	6	96	2419	582
CRC_MA-DFR_01.1	Connecticut River Conservancy	E. coli	07/08/20	09/16/20	5	54	105	67
CRC_MA-DFR_01.1	Connecticut River Conservancy	E. coli	06/23/21	09/01/21	6	1	275	63
CRC_MA-DFR_01.1	Connecticut River Conservancy	E. coli	05/17/22	08/31/22	7	52	980	148
W0757	MassDEP	E. coli	05/17/05	09/21/05	5	40	2910	341

Station CRC_MA-DFR_01.1 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	582
#GMI	7
#GMI Ex	7
%GMI Ex	100%
n>STV	3
%n>STV	50%

Variable*	Result
Samples	5
SeasGM	67
#GMI	5
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	63
#GMI	7
#GMI Ex	1
%GMI Ex	14%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	7
SeasGM	148
#GMI	9
#GMI Ex	1
%GMI Ex	11%
n>STV	1
%n>STV	14%

Cumulative %GMI Exceedance

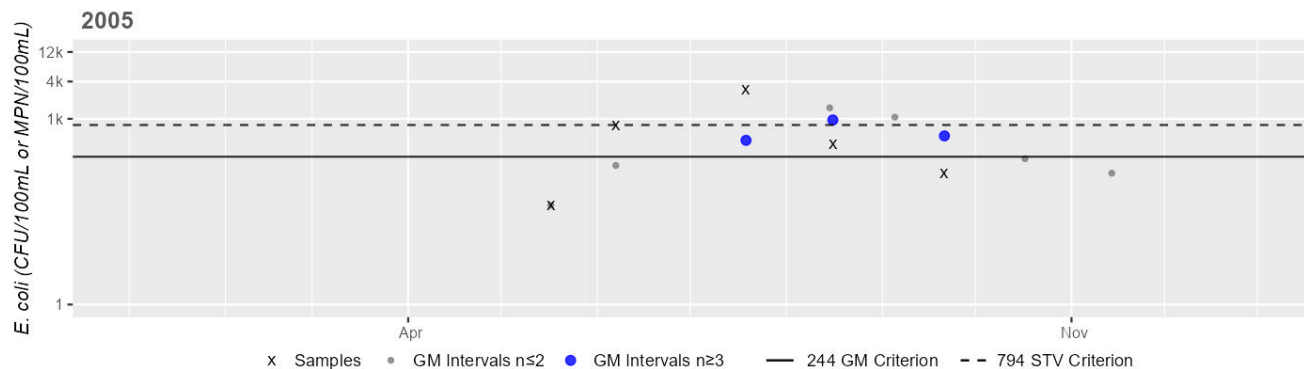
Current (2011-2022)

32%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; 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_W0757 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	341
#GMI	3
#GMI Ex	3
%GMI Ex	100%
n>STV	1
%n>STV	20%

Cumulative %GMI Exceedance

Historic (1997-2010)

100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; 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.

Dickenson Brook (MA33-120)

Location:	Headwaters west of Sumner Stetson Road, Heath to confluence with West Branch Brook, Heath.
AU Type:	RIVER
AU Size:	0.7 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Dickenson Brook (MA33-120) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

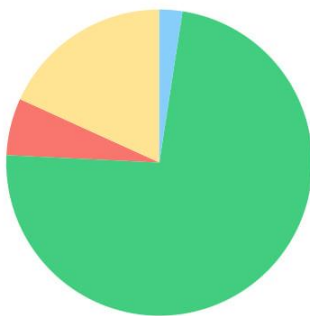
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Dragon Brook (MA33-20)

Location:	Headwaters, perennial portion north of Patten Road, Shelburne to confluence with the Deerfield River, Shelburne.
AU Type:	RIVER
AU Size:	4.4 MILES
Classification/Qualifier:	B

Dragon Brook (MA33-20)

Watershed Area: 6.25 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	6.25	4.83	1.77	1.34
Agriculture	18.2%	17.8%	13.3%	12.2%
Developed	6%	6.1%	7.2%	8.2%
Natural	73.3%	74.7%	74.6%	76.8%
Wetland	2.4%	1.4%	4.9%	2.8%
Impervious	2.8%	3%	3.7%	4.2%

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	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, so the Fish Consumption Use for Dragon Brook (MA33-20) 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 Dragon Brook AU (MA33-20), 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 for Dragon Brook (MA33-20) 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 Dragon Brook (MA33-20) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in Dragon Brook (MA33-20) at W1364 [Bassett Rd, Shelburne] from May-Sep 2005 (n=5). Historic <i>E. coli</i> data from W1364 are too limited according to the 2024 CALM to assess the Secondary Contact Recreation Use because this single year, limited frequency dataset included both GMs below the threshold and STV exceedance of the threshold. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1364	MassDEP	Water Quality	Dragon Brook	[Bassett Road, Shelburne]	42.575528	-72.682646

Bacteria Data

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

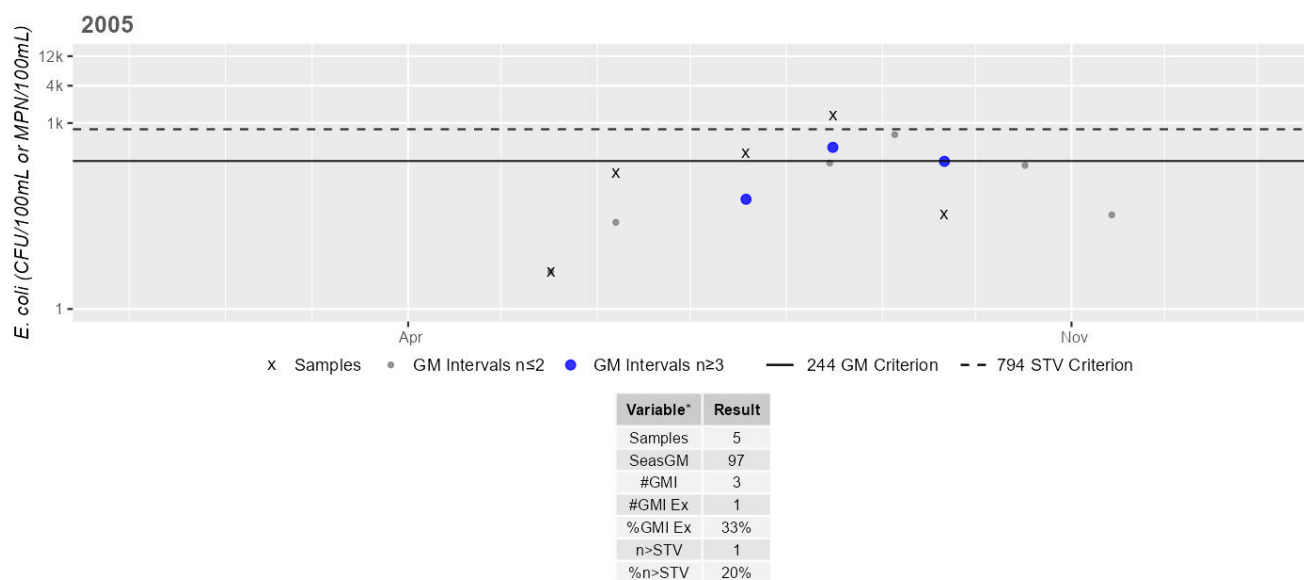
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1364	MassDEP	E. coli	05/17/05	09/21/05	5	4	1300	97

Station MASSDEP_W1364 - Escherichia coli

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



Cumulative %GMI Exceedance

Historic (1997-2010)

33%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; 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.

Drakes Brook (MA33-23)

Location:	Headwaters, (perennial portion) west of North Warger Road, Ashfield to confluence with Bear River, Conway.
AU Type:	RIVER
AU Size:	2.3 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Drakes Brook (MA33-23) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

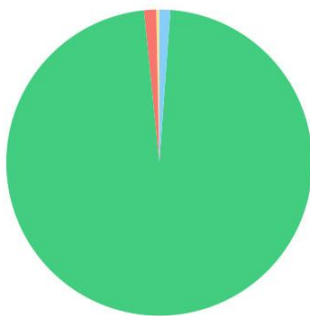
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Dunbar Brook (MA33-48)

Location:	Vermont-Massachusetts stateline, Monroe to confluence with Deerfield River, Monroe.
AU Type:	RIVER
AU Size:	5.6 MILES
Classification/Qualifier:	B: CWF

Dunbar Brook (MA33-48)

Watershed Area: 11.95 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area* (square miles)	9.88	6.37	3.36	2.60
Agriculture	0.3%	0%	0%	0%
Developed	1.3%	1.1%	1.6%	1.7%
Natural	97.2%	97.5%	96.2%	96.3%
Wetland	1.2%	1.4%	2.1%	2.1%
Impervious	0.6%	0.6%	0.8%	0.9%

*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, so the Fish Consumption Use for Dunbar Brook (MA33-48) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Dunbar Brook (MA33-48) is assessed as Fully Supporting based on the lack of any objectionable conditions documented by MassDEP staff during the summers of 2012, 2013, 2014, 2015 and 2019. MassDEP staff recorded aesthetics observations at one station at the downstream end of this Dunbar Brook AU west of River Road, ~1400 feet upstream from the Dunbar Brook Dam, Florida (W2286) during the summers of 2012, 2013, 2014, 2015 and 2019 (n=4-5/yr) as part of the Reference Site Network monitoring project. No objectionable conditions (i.e., odors, deposits, growths, or turbidity) were observed during any of the surveys.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2286	MassDEP	Water Quality	Dunbar Brook	[west of River Road, approximately 1400 feet upstream from the Dunbar Brook Dam (MA00222), Florida]	42.703472	-72.958880

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
W2286	2012	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2286 on Dunbar Brook (MA33-48) during 4 site visits between May 2012 and Oct 2012. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2286	2013	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2286 on Dunbar Brook (MA33-48) during 5 site visits between May 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2286	2014	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2286 on Dunbar Brook (MA33-48) during 4 site visits between May 2014 and Aug 2014. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2286	2015	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2286 on Dunbar Brook (MA33-48) during 4 site visits between May 2015 and Aug 2015. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2286	2019	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2286 on Dunbar Brook (MA33-48) during 4 site visits between Jun 2019 and Sep 2019. 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
W2286	2012	4	4	0
W2286	2013	5	5	0
W2286	2014	4	4	0
W2286	2015	4	4	0
W2286	2019	4	4	0

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

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2286	Dunbar Brook	2012	Aquatic Plant Density, Overall	None	4	4
W2286	Dunbar Brook	2012	Color	None	4	4
W2286	Dunbar Brook	2012	Objectionable Deposits	No	4	4
W2286	Dunbar Brook	2012	Odor	None	4	4
W2286	Dunbar Brook	2012	Periphyton Density, Filamentous	None	4	4
W2286	Dunbar Brook	2012	Periphyton Density, Film	None	4	4
W2286	Dunbar Brook	2012	Scum	No	4	4
W2286	Dunbar Brook	2012	Turbidity	None	4	4
W2286	Dunbar Brook	2013	Aesthetics Impaired?	No	4	5
W2286	Dunbar Brook	2013	Aesthetics Impaired?	NR	1	5
W2286	Dunbar Brook	2013	Aquatic Plant Density, Overall	None	4	5
W2286	Dunbar Brook	2013	Aquatic Plant Density, Overall	NR	1	5
W2286	Dunbar Brook	2013	Color	None	5	5
W2286	Dunbar Brook	2013	Objectionable Deposits	No	5	5
W2286	Dunbar Brook	2013	Odor	None	5	5
W2286	Dunbar Brook	2013	Periphyton Density, Filamentous	None	2	5
W2286	Dunbar Brook	2013	Periphyton Density, Filamentous	Sparse	3	5
W2286	Dunbar Brook	2013	Periphyton Density, Film	None	2	5
W2286	Dunbar Brook	2013	Periphyton Density, Film	NR	1	5
W2286	Dunbar Brook	2013	Periphyton Density, Film	Sparse	2	5
W2286	Dunbar Brook	2013	Scum	No	5	5

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2286	Dunbar Brook	2013	Turbidity	None	5	5
W2286	Dunbar Brook	2014	Aesthetics Impaired?	No	4	4
W2286	Dunbar Brook	2014	Aquatic Plant Density, Overall	None	4	4
W2286	Dunbar Brook	2014	Color	None	4	4
W2286	Dunbar Brook	2014	Objectionable Deposits	No	4	4
W2286	Dunbar Brook	2014	Odor	None	4	4
W2286	Dunbar Brook	2014	Periphyton Density, Filamentous	None	2	4
W2286	Dunbar Brook	2014	Periphyton Density, Filamentous	Sparse	2	4
W2286	Dunbar Brook	2014	Periphyton Density, Film	None	4	4
W2286	Dunbar Brook	2014	Scum	No	4	4
W2286	Dunbar Brook	2014	Turbidity	None	2	4
W2286	Dunbar Brook	2014	Turbidity	Slightly Turbid	2	4
W2286	Dunbar Brook	2015	Aesthetics Impaired?	No	4	4
W2286	Dunbar Brook	2015	Aquatic Plant Density, Overall	None	4	4
W2286	Dunbar Brook	2015	Color	Light Yellow/Tan	1	4
W2286	Dunbar Brook	2015	Color	None	3	4
W2286	Dunbar Brook	2015	Objectionable Deposits	No	4	4
W2286	Dunbar Brook	2015	Odor	None	4	4
W2286	Dunbar Brook	2015	Periphyton Density, Filamentous	None	4	4
W2286	Dunbar Brook	2015	Periphyton Density, Film	None	3	4
W2286	Dunbar Brook	2015	Periphyton Density, Film	Sparse	1	4
W2286	Dunbar Brook	2015	Scum	No	4	4
W2286	Dunbar Brook	2015	Turbidity	None	3	4
W2286	Dunbar Brook	2015	Turbidity	Slightly Turbid	1	4
W2286	Dunbar Brook	2019	Aesthetics Impaired?	No	4	4
W2286	Dunbar Brook	2019	Aquatic Plant Density, Overall	None	4	4
W2286	Dunbar Brook	2019	Color	None	4	4
W2286	Dunbar Brook	2019	Objectionable Deposits	No	4	4
W2286	Dunbar Brook	2019	Odor	None	4	4
W2286	Dunbar Brook	2019	Periphyton Density, Filamentous	None	4	4
W2286	Dunbar Brook	2019	Periphyton Density, Film	None	4	4
W2286	Dunbar Brook	2019	Scum	No	4	4
W2286	Dunbar Brook	2019	Turbidity	None	4	4

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
No bacteria data are available to assess the Primary Contact Recreation Use for Dunbar Brook (MA33-48) 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

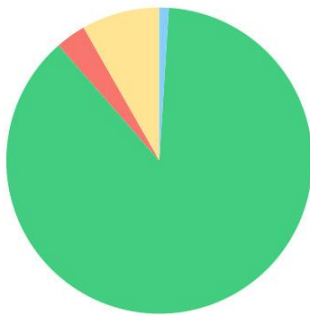
2024/26 Use Attainment Summary
No bacteria data are available to assess the Secondary Contact Recreation Use for Dunbar Brook (MA33-48) and available aesthetics observations for this waterbody did not result in any impairment, so it is assessed as having Insufficient Information.

East Branch North River (MA33-19)

Location:	Vermont line, Colrain to confluence with West Branch North River, Colrain.
AU Type:	RIVER
AU Size:	7.5 MILES
Classification/Qualifier:	B: CWF, HQW

East Branch North River (MA33-19)

Watershed Area: 54.16 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area* (square miles)	13.88	7.52	4.17	2.49
Agriculture	8.3%	9.2%	12.4%	13%
Developed	3.2%	3.5%	6.4%	7.1%
Natural	87.6%	86.3%	78.8%	77.3%
Wetland	1%	1.1%	2.5%	2.6%
Impervious	1.3%	1.5%	2.9%	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
5	5	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed
5	5	Temperature	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Escherichia Coli (E. Coli)	Agriculture (N)	--	--	--	X	--
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	--
Temperature	Agriculture (N)	X	--	--	--	--
Temperature	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)

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, so the Fish Consumption Use for East Branch North River (MA33-19) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO
2024/26 Use Attainment Summary	
The Aesthetics Use for East Branch North River (MA33-19) is assessed as Fully Supporting based on the general lack of objectionable conditions documented by MassDEP staff during the summer of 2012. MassDEP staff recorded aesthetics observations at one station at the upstream end of this East Branch North River AU ~2225 feet upstream of the Rt. 112 crossing nearest Jesse Wood Rd in Colrain (W2255) during the summer of 2012 (n=6) as part of the MAP2 Probabilistic Wadeable Streams monitoring project. There were generally no noted objectionable conditions (odors, deposits, growths, or turbidity) recorded.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2255	MassDEP	Water Quality	East Branch North River	[approximately 2225 feet upstream of the Route 112 crossing nearest Jesse Wood Road, Colrain]	42.732054	-72.719457

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
W2255	2012	6	Aesthetic observations were made by MassDEP field sampling crews at Station W2255 on East Branch North River (MA33-19) during 6 site visits between May 2012 and Sep 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
W2255	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
W2255	East Branch North River	2012	Aquatic Plant Density, Overall	None	6	6
W2255	East Branch North River	2012	Color	Brownish	1	6
W2255	East Branch North River	2012	Color	None	5	6
W2255	East Branch North River	2012	Objectionable Deposits	No	6	6
W2255	East Branch North River	2012	Odor	Musty (Basement)	1	6
W2255	East Branch North River	2012	Odor	None	5	6
W2255	East Branch North River	2012	Periphyton Density, Filamentous	Moderate	1	6
W2255	East Branch North River	2012	Periphyton Density, Filamentous	None	4	6
W2255	East Branch North River	2012	Periphyton Density, Filamentous	Sparse	1	6
W2255	East Branch North River	2012	Periphyton Density, Film	Dense	1	6
W2255	East Branch North River	2012	Periphyton Density, Film	Moderate	2	6
W2255	East Branch North River	2012	Periphyton Density, Film	None	3	6

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2255	East Branch North River	2012	Scum	No	6	6
W2255	East Branch North River	2012	Turbidity	None	4	6
W2255	East Branch North River	2012	Turbidity	Slightly Turbid	2	6

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
<p>The Primary Contact Recreation Use for the East Branch North River (MA33-19) continues to be assessed as Not Supporting. The prior <i>Escherichia coli</i> (<i>E. coli</i>) impairment is being carried forward based on bacteria data not meeting the threshold at CRC_MA-EBN_02.4. CRC and MassDEP staff/volunteers collected <i>E. coli</i> bacteria samples in the East Branch North River (MA33-19) from 2012-2022 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: W2255 [~2225 ft upstream of the Rt. 112 crossing nearest Jesse Wood Rd, Colrain] from May-Sep 2012 (n=6), CRC_MA-EBN_02.4 [Foundry Village Rd Ballfields, Colrain] in 2019-2022 (n=4-5/yr). Analysis of the single year limited frequency <i>E. coli</i> dataset from W2255 indicated 33% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 77 CFU/100ml. Analysis of the multi-year limited frequency <i>E. coli</i> dataset from CRC_MA-EBN_02.4 indicated 3 out of 4 sufficient data yrs had intervals where >20% of the GMs were >126 CFU/100ml (2019 and 2021-2022, 60-100%), 0 yrs had ≥2 samples exceed the 410 CFU/100ml STV, and cumulatively across years 50% of intervals had GMs >126 CFU/100ml. While <i>E. coli</i> data from W2255 meet 2024 CALM guidance, <i>E. coli</i> data from CRC_MA-EBN_02.4 are indicative of an <i>E. coli</i> impairment.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CRC_MA-EBN_02.4	Connecticut River Conservancy	Water Quality	North River; East Branch North River	Foundry Village Rd Ballfields, Colrain	42.674054	-72.714220
W2255	MassDEP	Water Quality	East Branch North River	[approximately 2225 feet upstream of the Route 112 crossing nearest Jesse Wood Road, Colrain]	42.732054	-72.719457

Bacteria Data

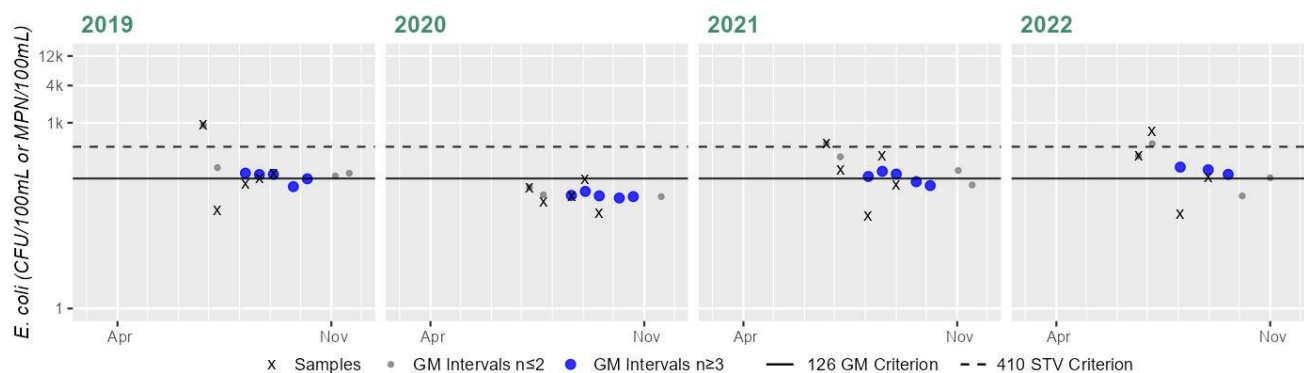
Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (CRC 2023) (MassDEP Undated 2) (MassDEP Undated 6) (MassDEP Undated 4)

[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
CRC_MA-EBN_02.4	Connecticut River Conservancy	E. coli	06/26/19	09/04/19	5	38	920	147
CRC_MA-EBN_02.4	Connecticut River Conservancy	E. coli	07/08/20	09/16/20	5	34	121	66
CRC_MA-EBN_02.4	Connecticut River Conservancy	E. coli	06/23/21	09/01/21	5	31	461	148
CRC_MA-EBN_02.4	Connecticut River Conservancy	E. coli	06/22/22	08/31/22	4	33	727	174
W2255	MassDEP	E. coli	05/23/12	09/27/12	6	21	345	77

Station CRC_MA-EBN_02.4 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	147
#GMI	5
#GMI Ex	3
%GMI Ex	60%
n>STV	1
%n>STV	20%

Variable*	Result
Samples	5
SeasGM	66
#GMI	5
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	5
SeasGM	148
#GMI	5
#GMI Ex	3
%GMI Ex	60%
n>STV	1
%n>STV	20%

Variable*	Result
Samples	4
SeasGM	174
#GMI	3
#GMI Ex	3
%GMI Ex	100%
n>STV	1
%n>STV	25%

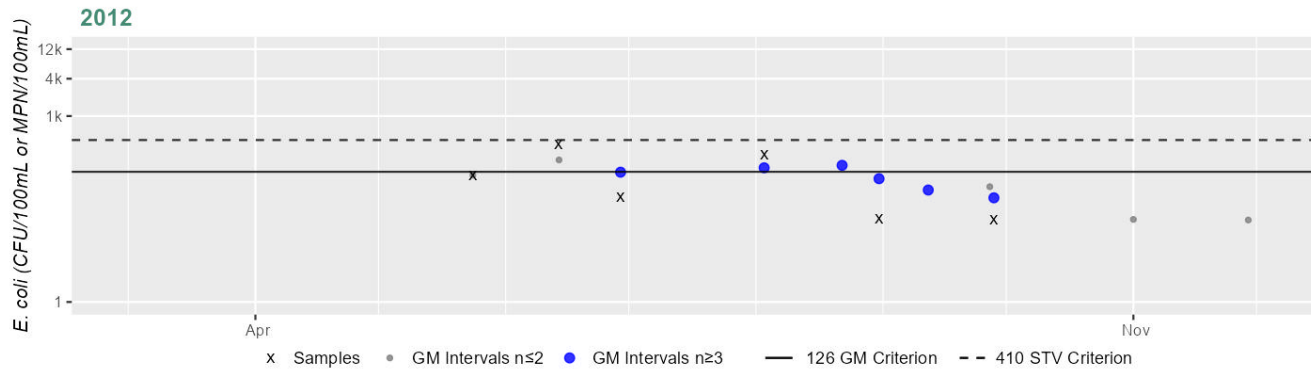
Cumulative %GMI Exceedance
Current (2011-2022)

50%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; 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_W2255 - *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	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 Exceedances;
 %GMI Ex = % GMI Exceedances; 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 East Branch North River (MA33-19) continues to be assessed as Fully Supporting. CRC and MassDEP staff/volunteers collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in the East Branch North River (MA33-19) from 2005-2022 at 3 stations. Samples were collected from the following stations/sample years from upstream to downstream: W2255 [~2225 ft upstream of the Rt. 112 crossing nearest Jesse Wood Rd, Colrain] from May-Sep 2012 (n=6), CRC_MA-EBN_02.4 [Foundry Village Rd Ballfields, Colrain] in 2019-2022 (n=4-5/yr), W1347 ["Lyonsville Rd", Colrain (site of old Arthur Smith Covered Bridge, taken out of service 1982, replaced in 2007, reopened to traffic in 2021)] from May-Sep 2005 (n=5). *E. coli* data from W2255 and CRC_MA-EBN_02.4 meet 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CRC_MA-EBN_02.4	Connecticut River Conservancy	Water Quality	North River; East Branch North River	Foundry Village Rd Ballfields, Colrain	42.674054	-72.714220
W1347	MassDEP	Water Quality	East Branch North River	["Lyonsville Road", Colrain (site of old Arthur Smith Covered Bridge, no road crossing here)]	42.669886	-72.718858
W2255	MassDEP	Water Quality	East Branch North River	[approximately 2225 feet upstream of the Route 112 crossing nearest Jesse Wood Road, Colrain]	42.732054	-72.719457

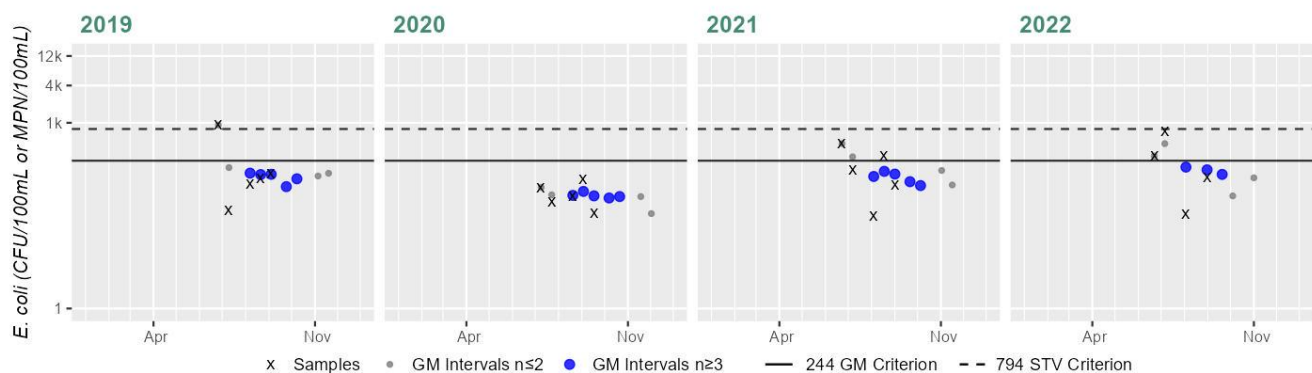
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis) (CRC 2023) (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
CRC_MA-EBN_02.4	Connecticut River Conservancy	E. coli	06/26/19	09/04/19	5	38	920	147
CRC_MA-EBN_02.4	Connecticut River Conservancy	E. coli	07/08/20	09/16/20	5	34	121	66
CRC_MA-EBN_02.4	Connecticut River Conservancy	E. coli	06/23/21	09/01/21	5	31	461	148
CRC_MA-EBN_02.4	Connecticut River Conservancy	E. coli	06/22/22	08/31/22	4	33	727	174
W1347	MassDEP	E. coli	05/17/05	09/21/05	5	28	548	184
W2255	MassDEP	E. coli	05/23/12	09/27/12	6	21	345	77

Station CRC_MA-EBN_02.4 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	147
#GMI	5
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	20%

Variable*	Result
Samples	5
SeasGM	66
#GMI	5
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	5
SeasGM	148
#GMI	5
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	4
SeasGM	174
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

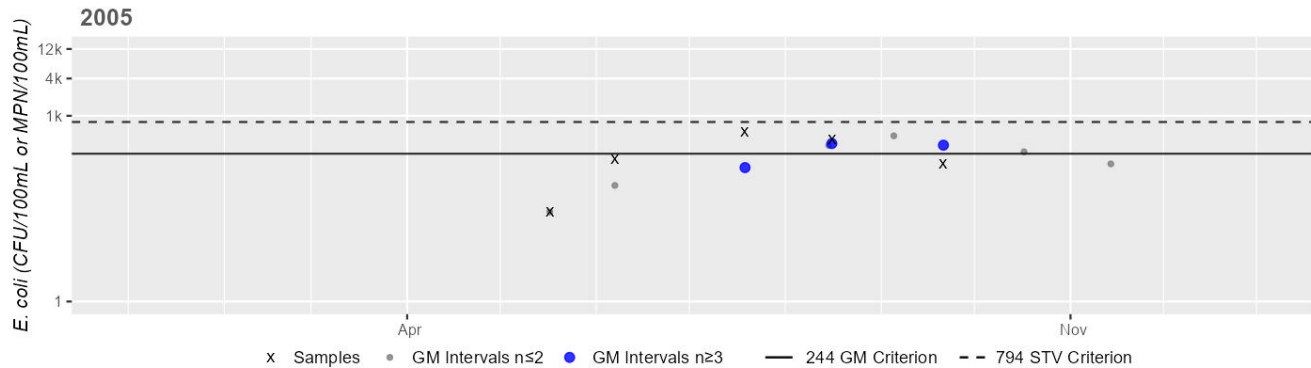
Current (2011-2022)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; 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_W1347 - *Escherichia coli*

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



Variable*	Result
Samples	5
SeasGM	184
#GMI	3
#GMI Ex	2
%GMI Ex	66%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

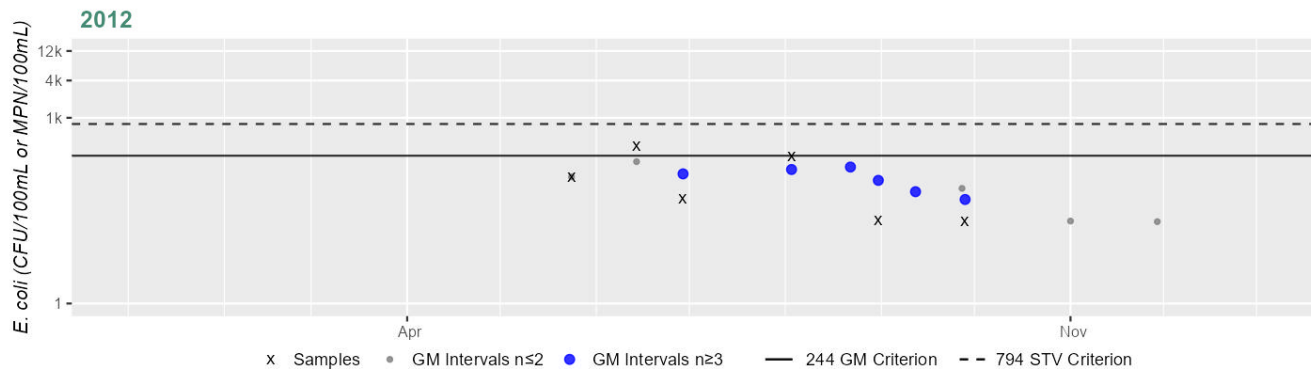
Historic (1997-2010)

66%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; 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_W2255 - *Escherichia coli*

Daily Maximum Samples & 90 Day Geometric Means within the Secondary 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%

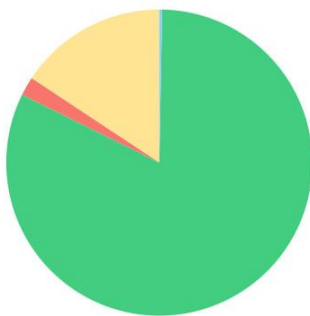
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes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

East Glen Brook (MA33-49)

Location:	Headwaters, perennial portion north of East Glen Road, Leyden to inlet of Upper Greenfield Reservoir (Glen Brook Upper Reservoir), Leyden.
AU Type:	RIVER
AU Size:	1.9 MILES
Classification/Qualifier:	A: PWS, ORW (Tributary)

East Glen Brook (MA33-49)

Watershed Area: 1.70 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	1.70	1.70	0.96	0.96
Agriculture	15.7%	15.7%	18.9%	18.9%
Developed	2%	2%	2.2%	2.2%
Natural	82%	82%	78.4%	78.4%
Wetland	0.3%	0.3%	0.5%	0.5%
Impervious	1.1%	1.1%	1.2%	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 recently, so the Fish Consumption Use for East Glen Brook (MA33-49) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for East Glen Brook (MA33-49) is assessed as Fully Supporting based on the lack of any objectionable conditions documented by MassDEP staff during the summer of 2012. MassDEP staff recorded aesthetics observations at one station halfway down this East Glen Brook AU east of East Glen Road, ~4225 feet upstream of the inlet of the Greenfield Reservoir, Leyden (W2263) during the summer of 2012 (n=6) as part of the MAP2 Probabilistic Wadeable Streams monitoring project. No objectionable conditions (i.e., odors, deposits, growths, or turbidity) were observed during any of the surveys.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2263	MassDEP	Water Quality	East Glen Brook	[east of East Glen Road, approximately 4225 feet upstream of the inlet of the Greenfield Reservoir, Leyden]	42.673276	-72.612642

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
W2263	2012	6	Aesthetic observations were made by MassDEP field sampling crews at Station W2263 on East Glen Brook (MA33-49) during 6 site visits between May 2012 and Sep 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
W2263	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
W2263	East Glen Brook	2012	Aquatic Plant Density, Overall	None	6	6

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2263	East Glen Brook	2012	Color	None	6	6
W2263	East Glen Brook	2012	Objectionable Deposits	No	6	6
W2263	East Glen Brook	2012	Odor	None	5	6
W2263	East Glen Brook	2012	Odor	NR	1	6
W2263	East Glen Brook	2012	Periphyton Density, Filamentous	None	6	6
W2263	East Glen Brook	2012	Periphyton Density, Film	None	6	6
W2263	East Glen Brook	2012	Scum	No	6	6
W2263	East Glen Brook	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 East Glen Brook (MA33-49) continues to be assessed as Fully Supporting. MassDEP staff collected <i>E. coli</i> bacteria samples in East Glen Brook (MA33-49) at W2263 [E of E Glen Rd, ~4225 ft upstream of the inlet of the Greenfield Reservoir, Leyden] from May-Sep 2012 (n=6). Analysis of the single year limited frequency <i>E. coli</i> dataset from W2263 indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 46 CFU/100ml. <i>E. coli</i> data from W2263 meet 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2263	MassDEP	Water Quality	East Glen Brook	[east of East Glen Road, approximately 4225 feet upstream of the inlet of the Greenfield Reservoir, Leyden]	42.673276	-72.612642

Bacteria Data

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

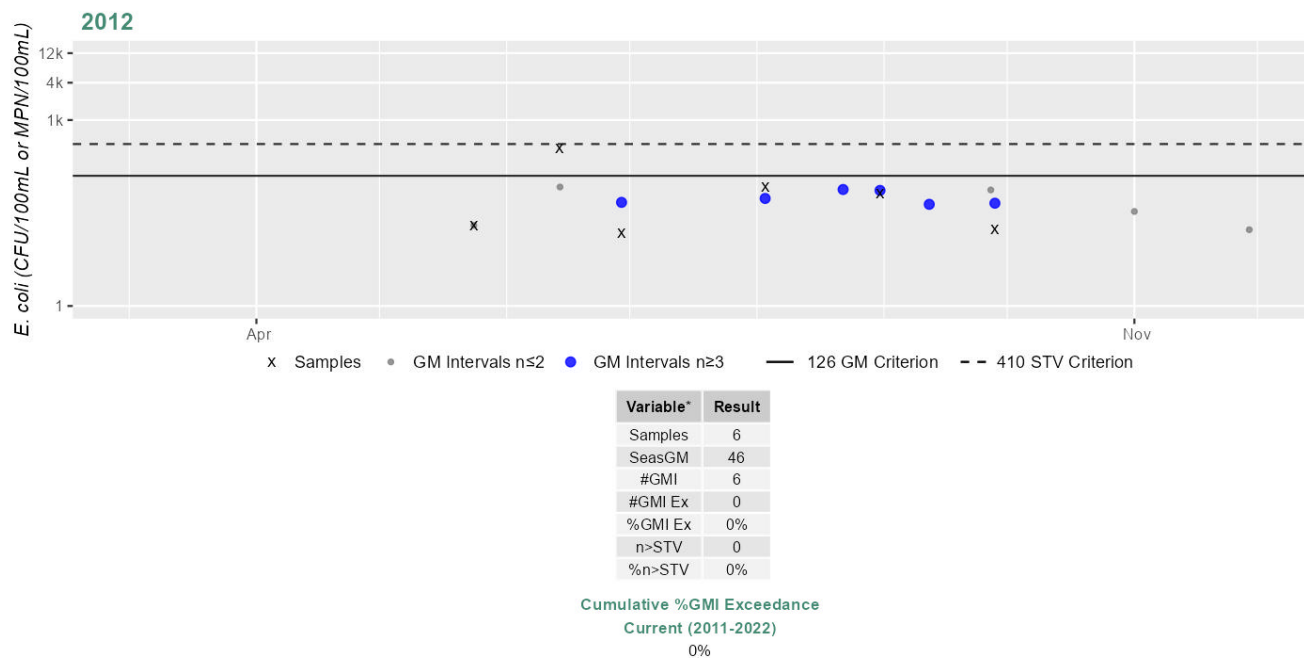
(MassDEP Undated 6) (MassDEP Undated 4)

[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
W2263	MassDEP	E. coli	05/23/12	09/27/12	6	15	345	46

Station MASSDEP_W2263 - *Escherichia coli*

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



*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; 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 East Glen Brook (MA33-49) continues to be assessed as Fully Supporting. MassDEP staff collected <i>E. coli</i> bacteria samples in East Glen Brook (MA33-49) at W2263 [E of E Glen Rd, ~4225 ft upstream of the inlet of the Greenfield Reservoir, Leyden] from May-Sep 2012 (n=6). Analysis of the single year limited frequency <i>E. coli</i> dataset from W2263 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 46 CFU/100ml. <i>E. coli</i> data from W2263 meet 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2263	MassDEP	Water Quality	East Glen Brook	[east of East Glen Road, approximately 4225 feet upstream of the inlet of the Greenfield Reservoir, Leyden]	42.673276	-72.612642

Bacteria Data

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

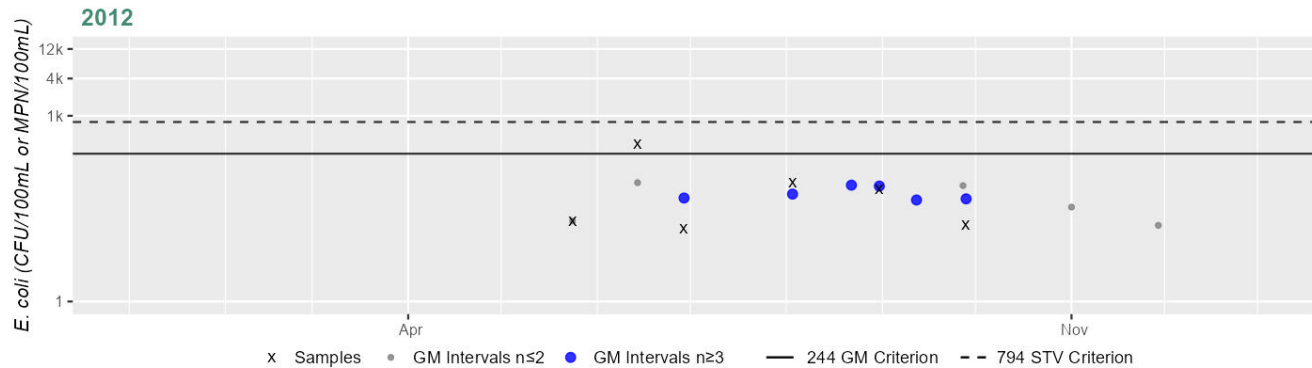
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W2263	MassDEP	E. coli	05/23/12	09/27/12	6	15	345	46

Station MASSDEP_W2263 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	46
#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 Exceedances; %GMI Ex = % GMI Exceedances; 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 Oxbow Brook (MA33-72)

Location:	Headwaters, perennial portion east of Deer Run Lane, Charlemont to confluence with Deerfield River, Charlemont.
AU Type:	RIVER
AU Size:	1.4 MILES
Classification/Qualifier:	B

No usable data were available for East Oxbow Brook (MA33-72) 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

Fife Brook (MA33-50)

Location:	Headwaters, perennial portion southwest of Spruce Mountain in the Monroe State Forest, Monroe to confluence with Deerfield River, Florida.
AU Type:	RIVER
AU Size:	2.6 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Fife Brook (MA33-50) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

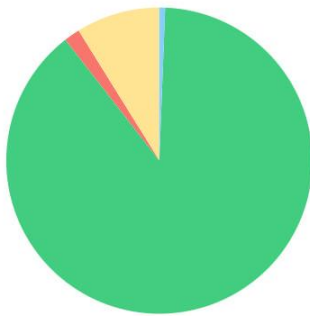
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Foundry Brook (MA33-25)

Location:	Headwaters north of Calvin Coombs Road, Colrain to confluence with East Branch North River, Colrain.
AU Type:	RIVER
AU Size:	2.8 MILES
Classification/Qualifier:	B: CWF

Foundry Brook (MA33-25)

Watershed Area: 2.27 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	2.27	2.18	0.72	0.69
Agriculture	8.9%	8.8%	6.7%	6.5%
Developed	1.7%	1.7%	2.4%	2.5%
Natural	88.9%	88.9%	89.8%	89.9%
Wetland	0.6%	0.6%	1%	1.1%
Impervious	0.7%	0.7%	1.1%	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 recently, so the Fish Consumption Use for Foundry Brook (MA33-25) 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 Foundry Brook AU (MA33-25), 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 for Foundry Brook (MA33-25) 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 Foundry Brook (MA33-25) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in Foundry Brook (MA33-25) at W1351 [Foundry Village Rd, Colrain] from May-Sep 2005 (n=5). Historic <i>E. coli</i> data from W1351 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1351	MassDEP	Water Quality	Foundry Brook	[Foundry Village Road, Colrain]	42.673713	-72.718826

Bacteria Data

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

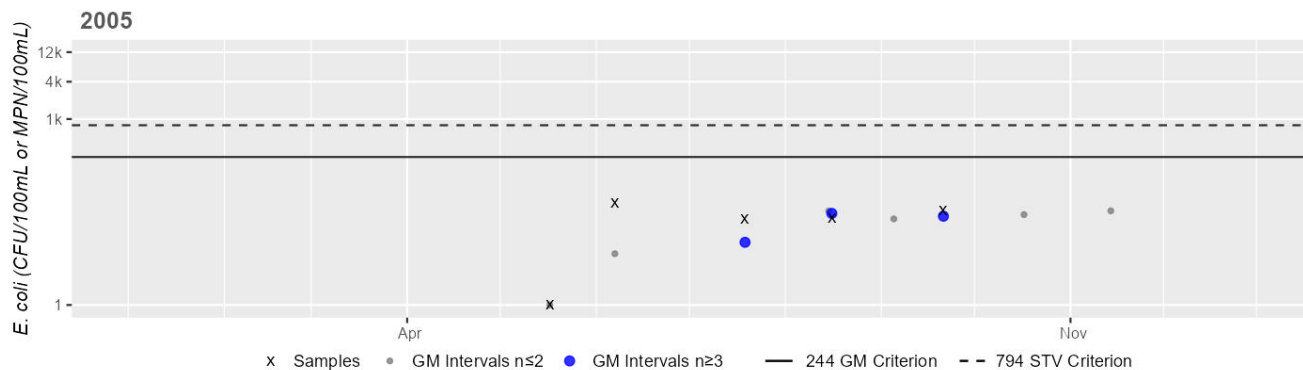
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1351	MassDEP	E. coli	05/17/05	09/21/05	5	1	45	15

Station MASSDEP_W1351 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	15
#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 Exceedances;
 %GMI Ex = % GMI Exceedances; 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.

Fox Brook (MA33-51)

Location:	From the outlet of Fox Brook Upper Reservoir, Colrain to confluence with North River, Colrain.
AU Type:	RIVER
AU Size:	0.7 MILES
Classification/Qualifier:	B

No usable data were available for Fox Brook (MA33-51) 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

Fox Brook Upper Reservoir (MA33006)

Location:	Colrain.
AU Type:	FRESHWATER LAKE
AU Size:	3 ACRES
Classification/Qualifier:	A: PWS, ORW

No usable data were available for Fox Brook Upper Reservoir (MA33006) 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

Fuller Brook (MA33-118)

Location:	Perennial portion in Dubuque State Forest, Hawley to confluence with Chickley River, Hawley.
AU Type:	RIVER
AU Size:	0.9 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Fuller Brook (MA33-118) 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

Glen Brook (MA33-52)

Location:	Headwaters, east of Brattleboro Road, Leyden to inlet of Upper Greenfield Reservoir (Glen Brook Upper Reservoir), Leyden.
AU Type:	RIVER
AU Size:	3.5 MILES
Classification/Qualifier:	A: PWS, ORW (Tributary)

No usable data were available for Glen Brook (MA33-52) 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

Glen Brook (MA33-96)

Location:	Outlet of Upper Greenfield Reservoir, Leyden to confluence with Green River, Greenfield.
AU Type:	RIVER
AU Size:	3.2 MILES
Classification/Qualifier:	B

No usable data were available for Glen Brook (MA33-96) 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

Goodnow Road Pond (MA33007)

Location:	Buckland.
AU Type:	FRESHWATER LAKE
AU Size:	11 ACRES
Classification/Qualifier:	B

No usable data were available for Goodnow Road Pond (MA33007) 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

Granger Brook (MA33-53)

Location:	Headwaters, west of Bliss Road, Florida to confluence with Dunbar Brook, Monroe.
AU Type:	RIVER
AU Size:	1.2 MILES
Classification/Qualifier:	B

No usable data were available for Granger Brook (MA33-53) 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

Great Brook (MA33-54)

Location:	Headwaters, perennial portion west at Zerah Fiske Road, Shelburne to confluence with Hawkes Brook, Shelburne.
AU Type:	RIVER
AU Size:	1.2 MILES
Classification/Qualifier:	B

No usable data were available for Great Brook (MA33-54) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

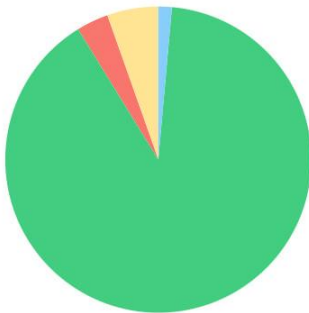
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Green River (MA33-28)

Location:	Vermont line, Colrain to water supply dam north of Eunice Williams Drive (Pumping Station Dam, NAT ID MA02291), Greenfield (formerly part of 2002 segment: Green River MA33-09).
AU Type:	RIVER
AU Size:	8.4 MILES
Classification/Qualifier:	A: PWS, ORW, HQW, CWF

Green River (MA33-28)

Watershed Area: 52.05 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area* (square miles)	14.77	5.74	6.46	2.56
Agriculture	5.4%	6%	4.9%	5%
Developed	3.4%	3.6%	3.7%	3%
Natural	89.8%	89.2%	88.7%	89.8%
Wetland	1.4%	1.2%	2.7%	2.2%
Impervious	1.3%	1.3%	1.6%	1.3%

*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	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, so the Fish Consumption Use for Green River (MA33-28) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Green River (MA33-28) is assessed as Fully Supporting based on the general lack of any objectionable conditions documented by MassDEP staff during the summers of 2013, 2014, and 2015. MassDEP staff recorded aesthetics observations at one station at the upstream end of this Green River AU, east of Green River Road in Colrain near the confluence of Thorne Brook (W2414) during the summers of 2013, 2014, and 2015 (n=4-5/yr) as part of the Reference Site Network monitoring project. Generally no persistent objectionable conditions (i.e., odors, deposits, growths, or turbidity) were observed during any of the surveys, though field staff once noted high turbidity in 2014.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2414	MassDEP	Water Quality	Green River	[east of Green River Road, Colrain approximately 50 feet upstream/north of the confluence of Thorne Brook, Leyden (lower portion of Thorne Brook inaccurate on USGS 1990 Colrain quadrangle)]	42.715003	-72.669722

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
W2414	2013	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2414 on Green River (MA33-28) during 5 site visits between May 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2414	2014	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2414 on Green River (MA33-28) during 4 site visits between May 2014 and Aug 2014. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted high turbidity (n=1).
W2414	2015	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2414 on Green River (MA33-28) during 4 site visits between May 2015 and Aug 2015. 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
W2414	2013	5	5	0
W2414	2014	4	3	0
W2414	2015	4	4	0

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

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2414	Green River	2013	Aesthetics Impaired?	No	4	5
W2414	Green River	2013	Aesthetics Impaired?	NR	1	5
W2414	Green River	2013	Aquatic Plant Density, Overall	None	5	5
W2414	Green River	2013	Color	None	5	5
W2414	Green River	2013	Objectionable Deposits	No	5	5
W2414	Green River	2013	Odor	None	5	5
W2414	Green River	2013	Periphyton Density, Filamentous	None	4	5
W2414	Green River	2013	Periphyton Density, Filamentous	NR	1	5
W2414	Green River	2013	Periphyton Density, Film	Moderate	2	5
W2414	Green River	2013	Periphyton Density, Film	Sparse	3	5
W2414	Green River	2013	Scum	No	5	5
W2414	Green River	2013	Turbidity	None	5	5
W2414	Green River	2014	Aesthetics Impaired?	No	4	4
W2414	Green River	2014	Aquatic Plant Density, Overall	None	2	4
W2414	Green River	2014	Aquatic Plant Density, Overall	Sparse	1	4
W2414	Green River	2014	Aquatic Plant Density, Overall	Unobservable	1	4

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2414	Green River	2014	Color	Brownish	1	4
W2414	Green River	2014	Color	None	3	4
W2414	Green River	2014	Objectionable Deposits	No	4	4
W2414	Green River	2014	Odor	None	4	4
W2414	Green River	2014	Periphyton Density, Filamentous	None	3	4
W2414	Green River	2014	Periphyton Density, Filamentous	Unobservable	1	4
W2414	Green River	2014	Periphyton Density, Film	Sparse	3	4
W2414	Green River	2014	Periphyton Density, Film	Unobservable	1	4
W2414	Green River	2014	Scum	No	4	4
W2414	Green River	2014	Turbidity	Highly Turbid	1	4
W2414	Green River	2014	Turbidity	None	2	4
W2414	Green River	2014	Turbidity	Slightly Turbid	1	4
W2414	Green River	2015	Aesthetics Impaired?	No	4	4
W2414	Green River	2015	Aquatic Plant Density, Overall	None	4	4
W2414	Green River	2015	Color	Light Yellow/Tan	1	4
W2414	Green River	2015	Color	None	3	4
W2414	Green River	2015	Objectionable Deposits	No	4	4
W2414	Green River	2015	Odor	None	4	4
W2414	Green River	2015	Periphyton Density, Filamentous	None	3	4
W2414	Green River	2015	Periphyton Density, Filamentous	Sparse	1	4
W2414	Green River	2015	Periphyton Density, Film	None	1	4
W2414	Green River	2015	Periphyton Density, Film	Sparse	3	4
W2414	Green River	2015	Scum	No	4	4
W2414	Green River	2015	Turbidity	None	4	4

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 (MA33-28) continues to be assessed as Fully Supporting. CRC staff/volunteers collected *E. coli* bacteria samples in the Green River (MA33-28) at CRC_MA-GRN_09.8 ["Bare Ass Beach", Colrain] in 2019-2022 (n=5-6/yr). Analysis of the multi-year limited frequency *E. coli* dataset from CRC_MA-GRN_09.8 indicated 0 out of 4 sufficient data yrs had intervals where >20% of the GMs were >126 CFU/100ml, 0 yrs had ≥2 samples exceed the 410 CFU/100ml STV, and cumulatively across years 4% of intervals had GMs >126 CFU/100ml. *E. coli* data from CRC_MA-GRN_09.8 meet 2024 CALM guidance. Additionally, surface water sampling was conducted by the USGS on the Green River (MA33-28) at station USGS_01170150 near Greenfield, MA on three dates during August to October 2020. 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
CRC_MA-GRN_09.8	Connecticut River Conservancy	Water Quality	Green River	"Bare Ass Beach", Colrain	42.651020	-72.623573
USGS-01170150	USGS Massachusetts Water Science Center	Water Quality	Green River	GREEN RIVER NEAR GREENFIELD, MA; no WWTF	42.647000	-72.620000

Bacteria Data

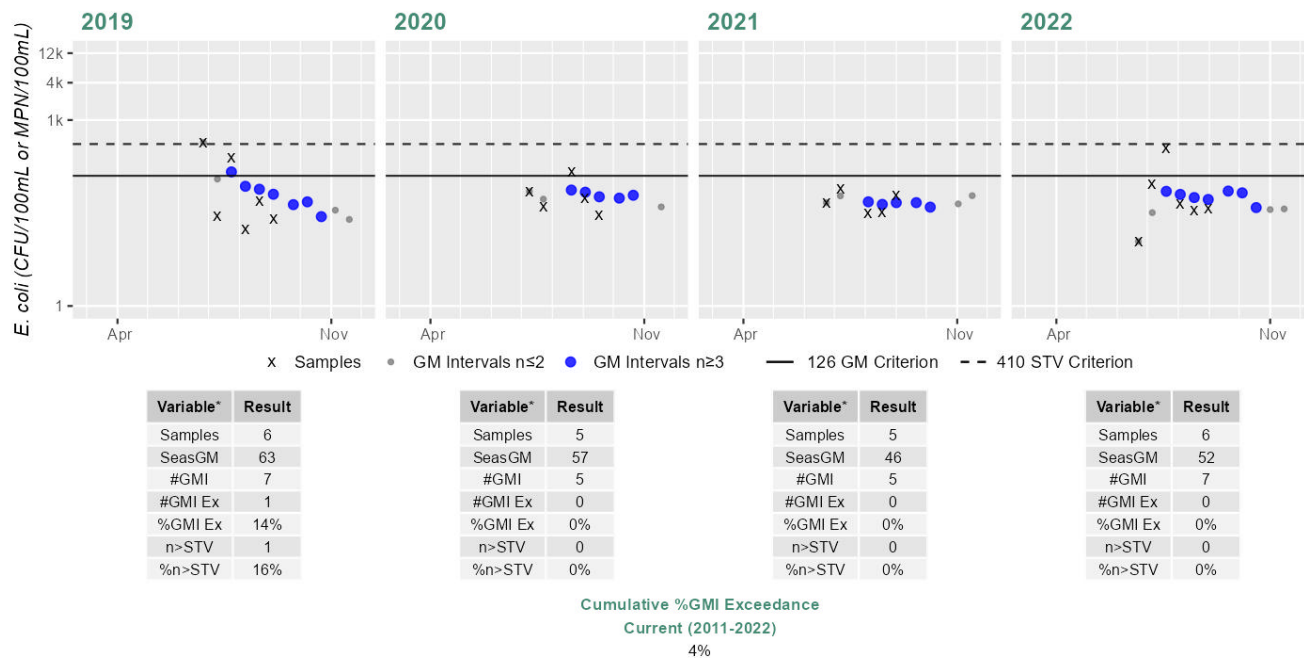
Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (CRC 2023) (MassDEP Undated 2)

[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
CRC_MA-GRN_09.8	Connecticut River Conservancy	E. coli	06/26/19	09/04/19	6	17	436	63
CRC_MA-GRN_09.8	Connecticut River Conservancy	E. coli	07/08/20	09/16/20	5	29	145	57
CRC_MA-GRN_09.8	Connecticut River Conservancy	E. coli	06/23/21	09/01/21	5	30	76	46
CRC_MA-GRN_09.8	Connecticut River Conservancy	E. coli	06/22/22	08/31/22	6	11	344	52

Station CRC_MA-GRN_09.8 - Escherichia coli

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



*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; 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 USGS 2020 PFAS in Water Column Data (Savoie and Argue 2023) (MassDEP Undated 2)

Summary
Surface water sampling was conducted by the USGS on the Green River (MA33-28) at station USGS_01170150 near Greenfield, 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 2)

[The ΣPFAS6 equals the sum of PFOA, PFOS, PFNA, PFHxS, PFDA, PFHpA (not all shown individually here). * indicates the ΣPFAS6 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-01170150	8/25/2020	E0.489	<1.85	<1.85	<1.85	<1.85	<1.85	9.7*
USGS-01170150	9/16/2020	E0.236	<1.84	<1.84	<1.84	<1.84	<1.84	9.4*
USGS-01170150	10/22/2020	E0.401	<1.89	<1.89	<1.89	<1.89	<1.89	9.9*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
<p>The Secondary Contact Recreation Use for the Green River (MA33-28) continues to be assessed as Fully Supporting. CRC and MassDEP staff/volunteers collected <i>E. coli</i> bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in the Green River (MA33-28) from 2005-2022 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: W0007 [at USGS Gage #01170100 ~1/2 mile upstream of W Leyden Rd, Colrain] from May-Sep 2005 (n=5), CRC_MA-GRN_09.8 [“Bare Ass Beach”, Colrain] in 2019-2022 (n=5-6/yr). Analysis of the multi-year limited frequency <i>E. coli</i> dataset from CRC_MA-GRN_09.8 indicated 0 out of 4 sufficient data yrs had intervals where >20% of the GMs were >244 CFU/100ml, 0 yrs had ≥2 samples exceed the 794 CFU/100ml STV, and cumulatively across years 0% of intervals had GMs >244 CFU/100ml. <i>E. coli</i> data from CRC_MA-GRN_09.8 meet 2024 CALM guidance.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CRC_MA-GRN_09.8	Connecticut River Conservancy	Water Quality	Green River	"Bare Ass Beach", Colrain	42.651020	-72.623573
W0007	MassDEP	Water Quality	Green River	[at USGS Gage #01170100 approximately 1/2 mile upstream of West Leyden Road, Colrain]	42.703414	-72.670626

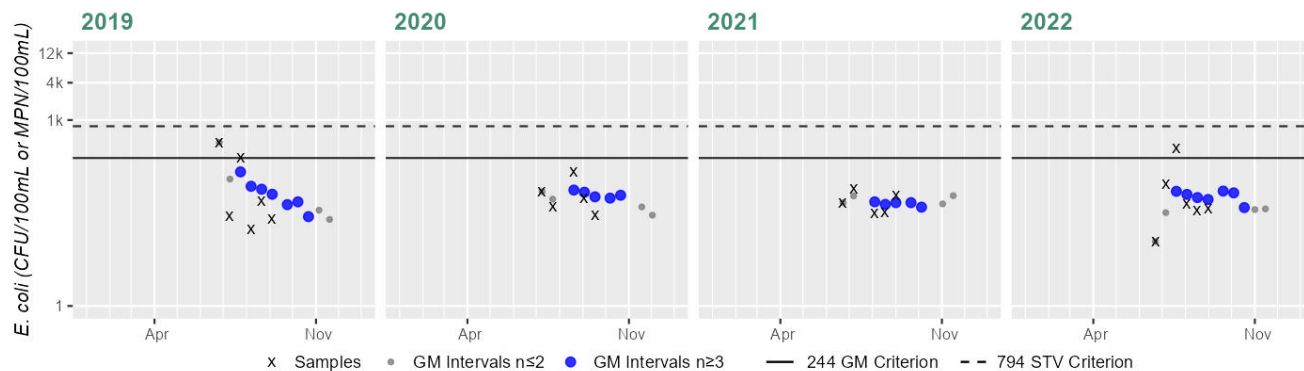
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis) (CRC 2023) (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
CRC_MA-GRN_09.8	Connecticut River Conservancy	E. coli	06/26/19	09/04/19	6	17	436	63
CRC_MA-GRN_09.8	Connecticut River Conservancy	E. coli	07/08/20	09/16/20	5	29	145	57
CRC_MA-GRN_09.8	Connecticut River Conservancy	E. coli	06/23/21	09/01/21	5	30	76	46
CRC_MA-GRN_09.8	Connecticut River Conservancy	E. coli	06/22/22	08/31/22	6	11	344	52
W0007	MassDEP	E. coli	05/17/05	09/21/05	5	2	157	18

Station CRC_MA-GRN_09.8 - *Escherichia coli*

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



Variable*	Result
Samples	6
SeasGM	63
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	5
SeasGM	57
#GMI	5
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	5
SeasGM	46
#GMI	5
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	52
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

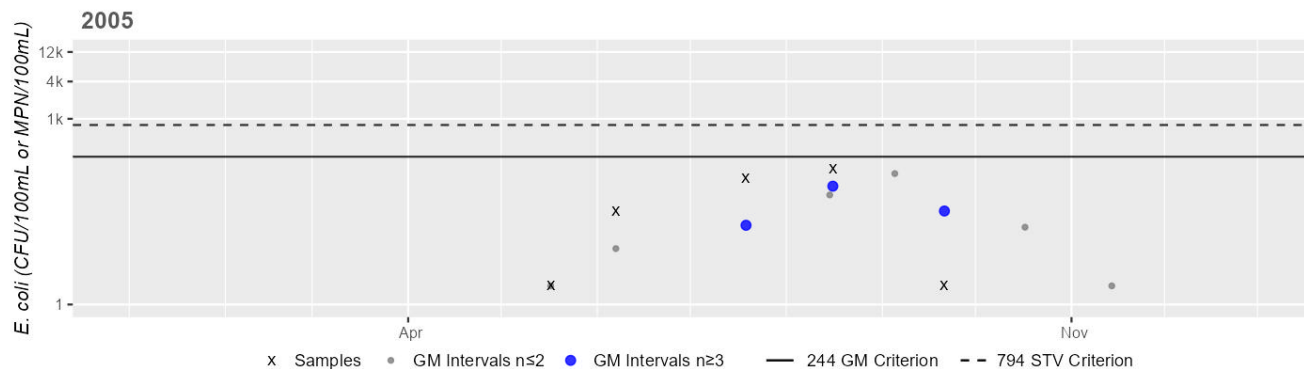
Current (2011-2022)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; 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_W0007 - *Escherichia coli*

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



Variable*	Result
Samples	5
SeasGM	18
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Historic (1997-2010)

0%

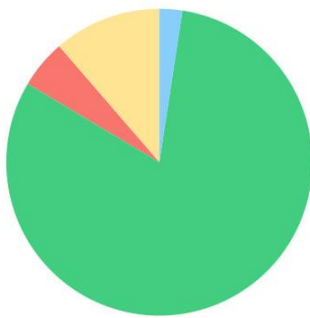
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes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

Green River (MA33-29)

Location:	From water supply dam north of Eunice Williams Drive (Pumping Station Dam, NATID MA02291), Greenfield to the Swimming Pool #2 Dam (NATID MA02321) northwest of Nashs Mill Road, Greenfield (formerly part of 2002 segment: Green River MA33-09).
AU Type:	RIVER
AU Size:	4.6 MILES
Classification/Qualifier:	B: CWF, HQW

Green River (MA33-29)

Watershed Area: 71.07 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area* (square miles)	33.80	8.85	13.70	2.63
Agriculture	11.4%	15.9%	9.6%	12.6%
Developed	5.1%	8.7%	5%	7.5%
Natural	81.1%	70%	80.8%	66.9%
Wetland	2.4%	5.4%	4.6%	13%
Impervious	2%	3.3%	2.2%	2.9%

*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, so the Fish Consumption Use for Green River (MA33-29) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
Too limited data are available to evaluate the Aesthetics Use of Green River (MA33-29) so it is assessed as having Insufficient Information. MassDEP staff recorded aesthetics observations at one station at the upstream end of this Green River AU ~150 feet downstream from covered bridge on Eunice Williams Drive, Greenfield (W2857) between Oct 2018 and Jun 2019 (n=2). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted high turbidity on one occasion.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2857	MassDEP	Water Quality	Green River	[approximately 150 feet downstream from covered bridge on Eunice Williams Drive, Greenfield]	42.646263	-72.619387

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
W2857	2019	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2857 on Green River (MA33-29) during 2 site visits between Oct 2018 and Jun 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted high turbidity (n=1). However, aesthetic observations are limited (n<3).

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
W2857	2019	2	1	1

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

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2857	Green River	2019	Aesthetics Impaired?	No	2	2
W2857	Green River	2019	Aquatic Plant Density, Overall	None	1	2
W2857	Green River	2019	Aquatic Plant Density, Overall	Unobservable	1	2
W2857	Green River	2019	Color	None	2	2
W2857	Green River	2019	Objectionable Deposits	No	2	2
W2857	Green River	2019	Odor	None	2	2
W2857	Green River	2019	Periphyton Density, Filamentous	Dense	1	2
W2857	Green River	2019	Periphyton Density, Filamentous	Unobservable	1	2
W2857	Green River	2019	Periphyton Density, Film	None	1	2
W2857	Green River	2019	Periphyton Density, Film	Unobservable	1	2
W2857	Green River	2019	Scum	No	2	2
W2857	Green River	2019	Turbidity	Highly Turbid	1	2
W2857	Green River	2019	Turbidity	None	1	2

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
No bacteria data are available to assess the Primary Contact Recreation Use for the Green River (MA33-29) 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

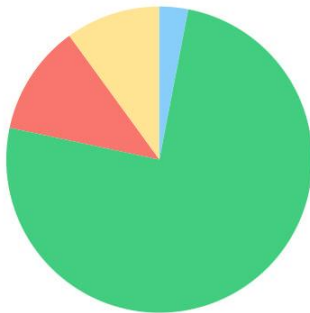
2024/26 Use Attainment Summary
No bacteria data are available to assess the Secondary Contact Recreation Use for the Green River (MA33-29) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information.

Green River (MA33-30)

Location:	From Swimming Pool #2 Dam (NATID MA02321) northwest of Nashs Mill Road, Greenfield to confluence with the Deerfield River, Greenfield (formerly reported as 2002 segment: Green River MA33-10 and part of 2002 segment: Green River MA33-09) (HQW applies upstream of former Greenfield WWTF discharge (NPDES# MA0101214), from approximately 0.5 mile upstream of mouth).
AU Type:	RIVER
AU Size:	3.7 MILES
Classification/Qualifier:	B: CWF, HQW* (*HQW applies to portion upstream former Greenfield discharge)

Green River (MA33-30)

Watershed Area: 89.36 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area* (square miles)	52.09	9.01	17.84	2.18
Agriculture	10%	6.6%	9%	8.6%
Developed	11.6%	36%	8%	23.1%
Natural	75.3%	53.3%	76.9%	56.7%
Wetland	3%	4.1%	6.2%	11.5%
Impervious	5.4%	19.2%	3.5%	11.7%

*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	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed
5	5	Fecal Coliform	R1_MA_2024_04	Changed
5	5	Lack of a Coldwater Assemblage	--	Unchanged
5	5	Temperature	--	Unchanged
5	5	Turbidity	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	X
Fecal Coliform	Source Unknown (N)	--	--	--	X	X
Lack of a Coldwater Assemblage	Dam or Impoundment (Y)	X	--	--	--	--
Temperature	Dam or Impoundment (Y)	X	--	--	--	--
Turbidity	Source Unknown (N)	--	--	X	X	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, so the Fish Consumption Use for Green River (MA33-30) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for Green River (MA33-30) continues to be assessed as Not Supporting with the Turbidity impairment being carried forward. MassDEP staff recorded aesthetics observations for two stations at the upstream end of this Green River AU, east of Rt. 91, ~3000 feet upstream of Colrain St, Greenfield (W2248) in summer 2012 (n=6) as part of the MAP2 Probabilistic Wadeable Streams monitoring project and ~300 feet upstream from Meridian St, Greenfield (upstream of Wiley & Russell Dam (NAT ID: MA02664) (W2858) between Oct 2018 and Jun 2019 (n=2) as part of the Chloride monitoring project. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted minor trash on two occasions and high turbidity on two occasions at W2248.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2248	MassDEP	Water Quality	Green River	[east of Route 91, approximately 3000 feet upstream of Colrain Street, Greenfield]	42.598248	-72.615920
W2858	MassDEP	Water Quality	Green River	[approximately 300 feet upstream from Meridian Street, Greenfield (upstream of Wiley & Russell Dam (NAT ID: MA02664))]	42.581067	-72.600233

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
W2248	2012	6	Aesthetic observations were made by MassDEP field sampling crews at Station W2248 on Green River (MA33-30) during 6 site visits between May 2012 and Sep 2012. There were some objectionable conditions recorded, including high turbidity (n=2). Field staff also noted objectionable deposits (n=2). These conditions are indicative of an Alert status.
W2858	2019	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2858 on Green River (MA33-30) during 2 site visits between Oct 2018 and Jun 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).

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
W2248	2012	6	5	0
W2858	2019	2	2	0

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

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2248	Green River	2012	Aquatic Plant Density, Overall	None	5	6
W2248	Green River	2012	Aquatic Plant Density, Overall	Unobservable	1	6
W2248	Green River	2012	Color	Brownish	2	6
W2248	Green River	2012	Color	None	4	6
W2248	Green River	2012	Objectionable Deposits	No	4	6
W2248	Green River	2012	Objectionable Deposits	Yes	2	6
W2248	Green River	2012	Odor	None	6	6
W2248	Green River	2012	Periphyton Density, Filamentous	None	5	6
W2248	Green River	2012	Periphyton Density, Filamentous	Unobservable	1	6
W2248	Green River	2012	Periphyton Density, Film	None	4	6
W2248	Green River	2012	Periphyton Density, Film	Sparse	1	6
W2248	Green River	2012	Periphyton Density, Film	Unobservable	1	6
W2248	Green River	2012	Scum	No	5	6
W2248	Green River	2012	Scum	Yes	1	6
W2248	Green River	2012	Turbidity	Highly Turbid	2	6
W2248	Green River	2012	Turbidity	None	4	6
W2858	Green River	2019	Aesthetics Impaired?	No	2	2
W2858	Green River	2019	Aquatic Plant Density, Overall	None	2	2
W2858	Green River	2019	Color	None	2	2
W2858	Green River	2019	Objectionable Deposits	No	2	2
W2858	Green River	2019	Odor	None	2	2
W2858	Green River	2019	Periphyton Density, Filamentous	Moderate	1	2
W2858	Green River	2019	Periphyton Density, Filamentous	None	1	2
W2858	Green River	2019	Periphyton Density, Film	Moderate	1	2
W2858	Green River	2019	Periphyton Density, Film	None	1	2
W2858	Green River	2019	Scum	No	1	2
W2858	Green River	2019	Scum	Yes	1	2
W2858	Green River	2019	Turbidity	None	2	2

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO
2024/26 Use Attainment Summary	

The Primary Contact Recreation Use for the Green River (MA33-30) 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 W2248, CRC_MA-GRN_02.2, CRC_MA-GRN_02.0, and CRC_MA-GRN_00.8. The prior Fecal Coliform impairment is being carried forward and the prior Turbidity impairment (from the Aesthetics Use) is being carried forward. CRC and MassDEP staff/volunteers collected *E. coli* bacteria samples in the Green River (MA33-30) from 2012-2022 at 4 stations. Samples were collected from the following stations/sample years from upstream to downstream: W2248 [E of Rt. 91, ~3000 ft upstream of Colrain St, Greenfield] from May-Sep 2012 (n=6), CRC_MA-GRN_02.2 [Green River, upstream of Maple Brook] in 2021-2022 (n=6/yr), CRC_MA-GRN_02.0 [Between MA-2A and RR Bridge, Greenfield] in 2019-2022 (n=5-6/yr), CRC_MA-GRN_00.8 [Green River, Petty Plain Rd, Greenfield] from Jun-Sep 2019 (n=6). Analysis of the single year limited frequency *E. coli* dataset from W2248 indicated 75% of intervals had GMs >126 CFU/100ml, 2 samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 156 CFU/100ml. Analysis of the multi-year limited frequency *E. coli* dataset from CRC_MA-GRN_02.2 indicated 2 out of 2 sufficient data yrs had intervals where >20% of the GMs were >126 CFU/100ml (2021 and 2022, 100 & 100%), 1 yr had ≥2 samples exceed the 410 CFU/100ml STV (2022, n=4), and cumulatively across years 100% of intervals had GMs >126 CFU/100ml. Analysis of the multi-year limited frequency *E. coli* dataset from CRC_MA-GRN_02.0 indicated 4 out of 4 sufficient data yrs had intervals where >20% of the GMs were >126 CFU/100ml (2019-2022, 100%), 3 yrs had ≥2 samples exceed the 410 CFU/100ml STV (2019 and 2021-2022, n=2-6), and cumulatively across years 100% of intervals had GMs >126 CFU/100ml. Analysis of the single year limited frequency *E. coli* dataset from CRC_MA-GRN_00.8 indicated 100% of intervals had GMs >126 CFU/100ml, 5 samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 1005 CFU/100ml. *E. coli* data from W2248, CRC_MA-GRN_02.2, CRC_MA-GRN_02.0, and CRC_MA-GRN_00.8 are indicative of an *E. coli* impairment.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CRC_MA-GRN_00.8	Connecticut River Conservancy	Water Quality	Green River	Green River, Petty Plain Rd, Greenfield	42.576360	-72.598410
CRC_MA-GRN_02.0	Connecticut River Conservancy	Water Quality	Green River	Between MA-2A and RR Bridge, Greenfield	42.585540	-72.611770
CRC_MA-GRN_02.2	Connecticut River Conservancy	Water Quality	Green River	Green River, Upstream of Maple Brook	42.587006	-72.613881
W2248	MassDEP	Water Quality	Green River	[east of Route 91, approximately 3000 feet upstream of Colrain Street, Greenfield]	42.598248	-72.615920

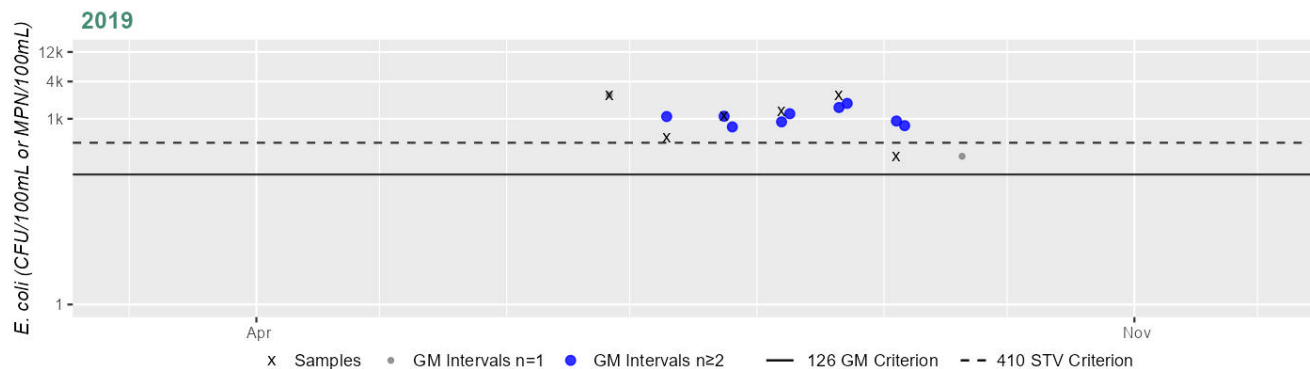
Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (30-day Interval Analysis) (CRC 2023) (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
CRC_MA-GRN_00.8	Connecticut River Conservancy	E. coli	06/26/19	09/04/19	6	248	2419	1005
CRC_MA-GRN_02.0	Connecticut River Conservancy	E. coli	06/26/19	09/04/19	6	95	2419	413
CRC_MA-GRN_02.0	Connecticut River Conservancy	E. coli	07/08/20	09/16/20	5	137	686	291
CRC_MA-GRN_02.0	Connecticut River Conservancy	E. coli	06/23/21	09/01/21	5	105	980	359
CRC_MA-GRN_02.0	Connecticut River Conservancy	E. coli	06/22/22	08/31/22	6	488	2419	1333
CRC_MA-GRN_02.2	Connecticut River Conservancy	E. coli	06/23/21	09/01/21	6	98	920	229
CRC_MA-GRN_02.2	Connecticut River Conservancy	E. coli	06/22/22	08/31/22	6	193	1119	534
W2248	MassDEP	E. coli	05/23/12	09/27/12	6	49	1730	156

Station CRC_MA-GRN_00.8 & MASSDEP_W0005 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	1005
#GMI	9
#GMI Ex	9
%GMI Ex	100%
n>STV	5
%n>STV	83%

Cumulative %GMI Exceedance

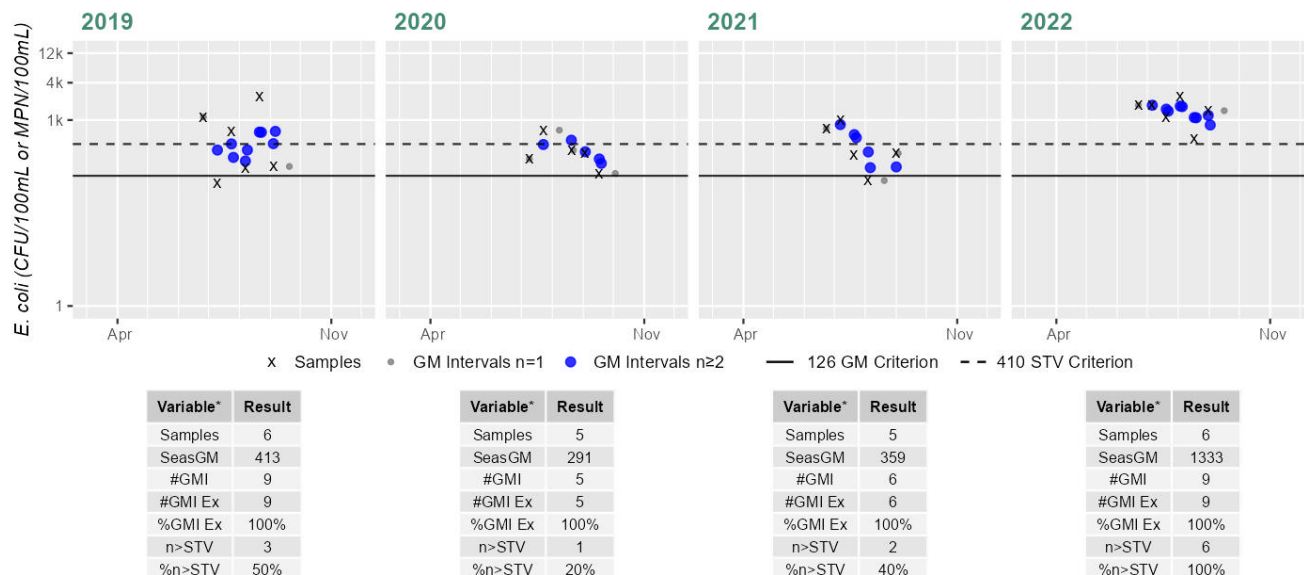
Current (2011-2022)

100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; 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 CRC_MA-GRN_02.0 - Escherichia coli

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



Cumulative %GMI Exceedance

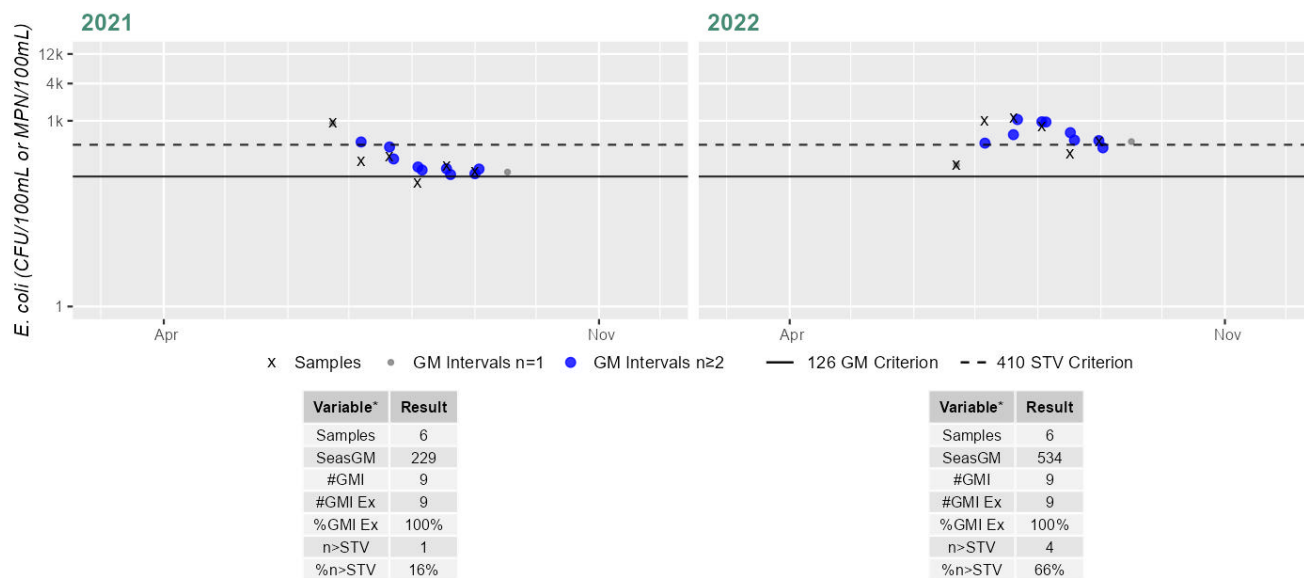
Current (2011-2022)

100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; 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 CRC_MA-GRN_02.2 - Escherichia coli

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



Cumulative %GMI Exceedance

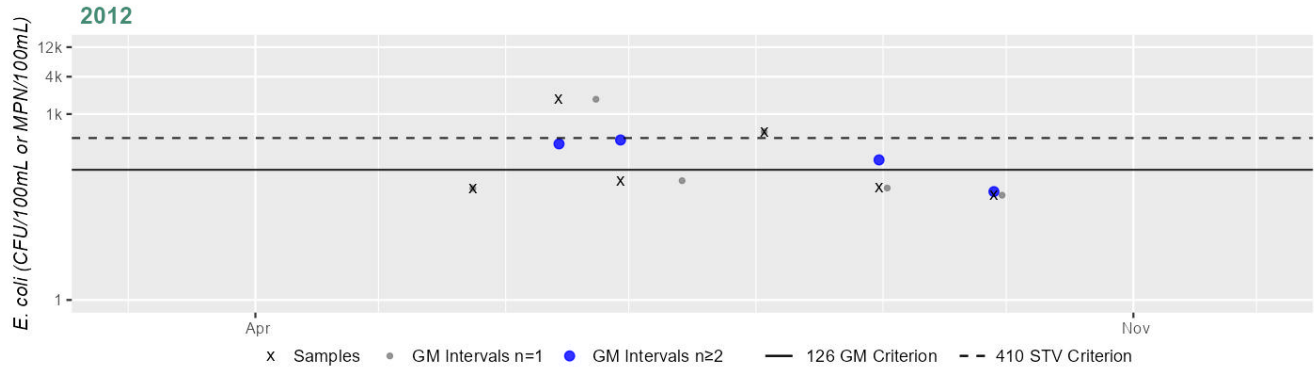
Current (2011-2022)

100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; 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_W2248 - *Escherichia coli*

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



Variable*	Result
Samples	6
SeasGM	156
#GMI	4
#GMI Ex	3
%GMI Ex	75%
n>STV	2
%n>STV	33%

Cumulative %GMI Exceedance

Current (2011-2022)

75%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; 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 the Green River (MA33-30) 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 CRC_MA-GRN_02.2, CRC_MA-GRN_02.0, and CRC_MA-GRN_00.8 & W0005. The prior Fecal Coliform impairment is being carried forward and the prior Turbidity impairment (from the Aesthetics Use) is being carried forward. CRC and MassDEP staff/volunteers collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in the Green River (MA33-30) from 2005-2022 at 4 stations. Samples were collected from the following stations/sample years from upstream to downstream: W2248 [E of Rt. 91, ~3000 ft upstream of Colrain St, Greenfield] from May-Sep 2012 (n=6), CRC_MA-GRN_02.2 [Green River, upstream of Maple Brook] in 2021-2022 (n=6/yr), CRC_MA-GRN_02.0 [Between MA-2A and RR Bridge, Greenfield] in 2019-2022 (n=5-6/yr), CRC_MA-GRN_00.8 & W0005 [footbridge E off Petty Plain Rd, Greenfield & Green River, Petty Plain Rd, Greenfield] from May-Sep 2005 (historic n=5) and Jun-Sep 2019 (current n=6). Analysis of the single year limited frequency *E. coli* dataset from W2248 indicated 50% of intervals had GMs >244 CFU/100ml, 1 sample exceeded the 794 CFU/100ml STV, and the overall GM was 156 CFU/100ml. Analysis of the multi-year limited frequency *E. coli* dataset from CRC_MA-GRN_02.2 indicated 2 out of 2 sufficient data yrs had intervals where >20% of the GMs were >244 CFU/100ml (2021 and 2022, 42 & 100%), 1 yr had ≥2 samples exceed the 794 CFU/100ml STV (2022, n=3), and cumulatively across years 71% of intervals had GMs >244 CFU/100ml. Analysis of the multi-year limited frequency *E. coli* dataset from CRC_MA-GRN_02.0 indicated 4 out of 4 sufficient data yrs had intervals where >20% of the GMs were >244 CFU/100ml (2019-2022, 80-100%), 2 yrs had ≥2 samples exceed the 794 CFU/100ml STV (2019 and 2022, n=2 & 5), and cumulatively across years 91% of intervals had GMs >244 CFU/100ml. Analysis of the single year limited frequency *E. coli* dataset from CRC_MA-GRN_00.8 & W0005 indicated 100% of intervals had GMs >244 CFU/100ml, 4 samples exceeded the 794 CFU/100ml STV, and the overall GM was 1005 CFU/100ml. *E. coli* data from W2248 are inconclusive according to the 2024 CALM to assess the Secondary Contact Recreation Use because this single year, limited frequency dataset included both GMs below the threshold and STV exceedance of the threshold. *E. coli* data from CRC_MA-GRN_02.2, CRC_MA-GRN_02.0, and CRC_MA-GRN_00.8 & W0005 are indicative of an *E. coli* impairment.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CRC_MA-GRN_00.8	Connecticut River Conservancy	Water Quality	Green River	Green River, Petty Plain Rd, Greenfield	42.576360	-72.598410
CRC_MA-GRN_02.0	Connecticut River Conservancy	Water Quality	Green River	Between MA-2A and RR Bridge, Greenfield	42.585540	-72.611770
CRC_MA-GRN_02.2	Connecticut River Conservancy	Water Quality	Green River	Green River, Upstream of Maple Brook	42.587006	-72.613881
W0005	MassDEP	Water Quality	Green River	[footbridge east off Petty Plain Road, Greenfield]	42.576258	-72.598378

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2248	MassDEP	Water Quality	Green River	[east of Route 91, approximately 3000 feet upstream of Colrain Street, Greenfield]	42.598248	-72.615920

Bacteria Data

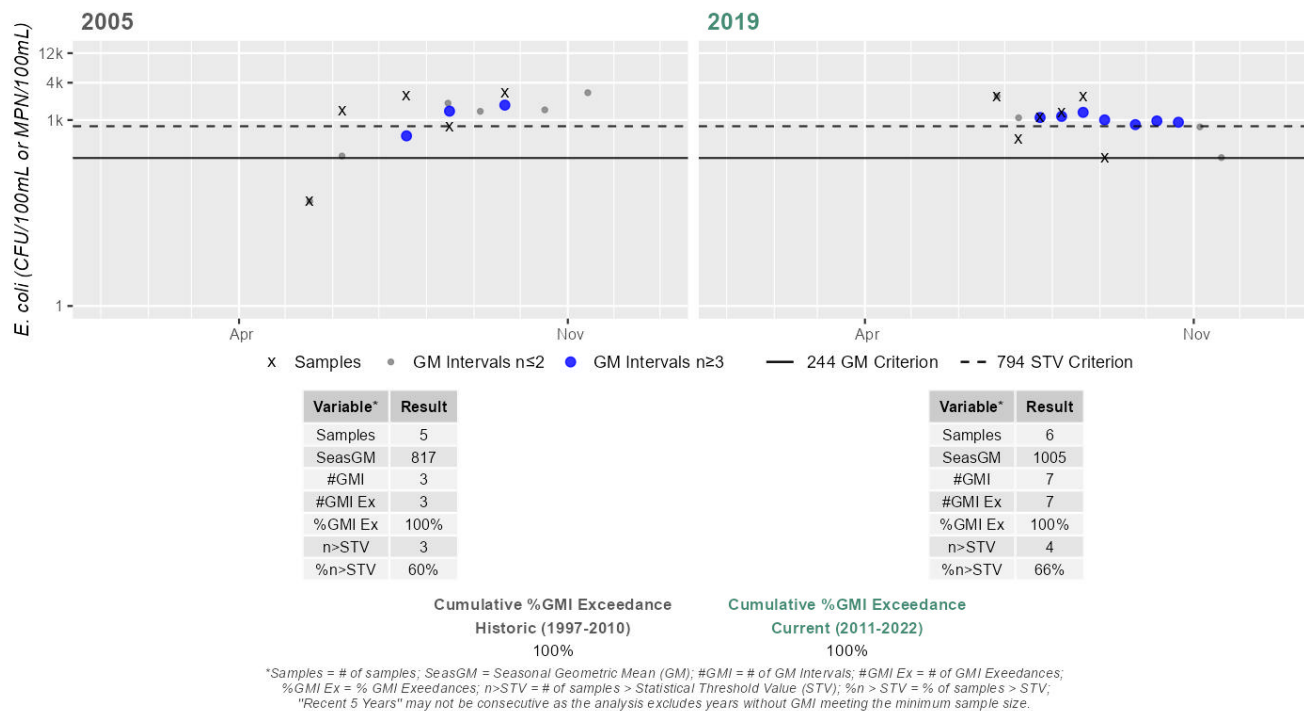
Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis) (CRC 2023) (MassDEP Undated 1) (MassDEP Undated 6) (MassDEP Undated 3)

[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
CRC_MA-GRN_00.8	Connecticut River Conservancy	E. coli	06/26/19	09/04/19	6	248	2419	1005
CRC_MA-GRN_02.0	Connecticut River Conservancy	E. coli	06/26/19	09/04/19	6	95	2419	413
CRC_MA-GRN_02.0	Connecticut River Conservancy	E. coli	07/08/20	09/16/20	5	137	686	291
CRC_MA-GRN_02.0	Connecticut River Conservancy	E. coli	06/23/21	09/01/21	5	105	980	359
CRC_MA-GRN_02.0	Connecticut River Conservancy	E. coli	06/22/22	08/31/22	6	488	2419	1333
CRC_MA-GRN_02.2	Connecticut River Conservancy	E. coli	06/23/21	09/01/21	6	98	920	229
CRC_MA-GRN_02.2	Connecticut River Conservancy	E. coli	06/22/22	08/31/22	6	193	1119	534
W0005	MassDEP	E. coli	05/17/05	09/21/05	5	49	2760	817
W2248	MassDEP	E. coli	05/23/12	09/27/12	6	49	1730	156

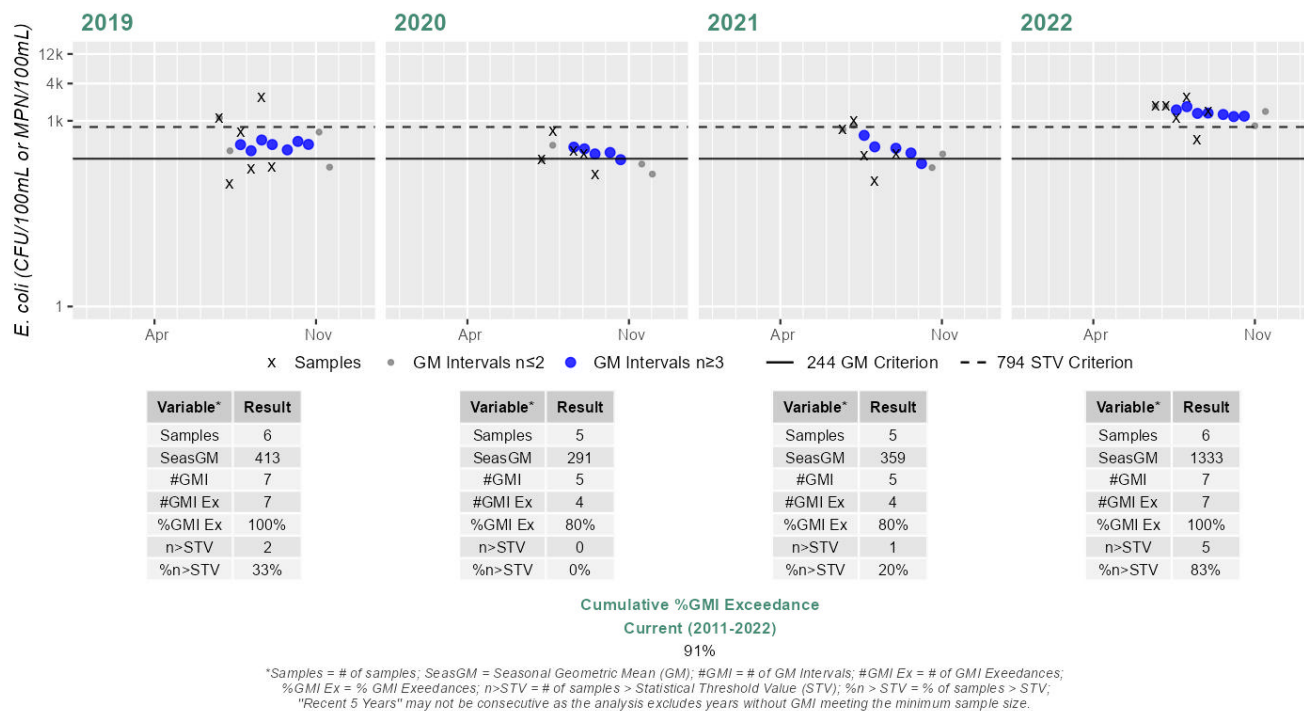
Station CRC_MA-GRN_00.8 & MASSDEP_W0005 - *Escherichia coli*

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



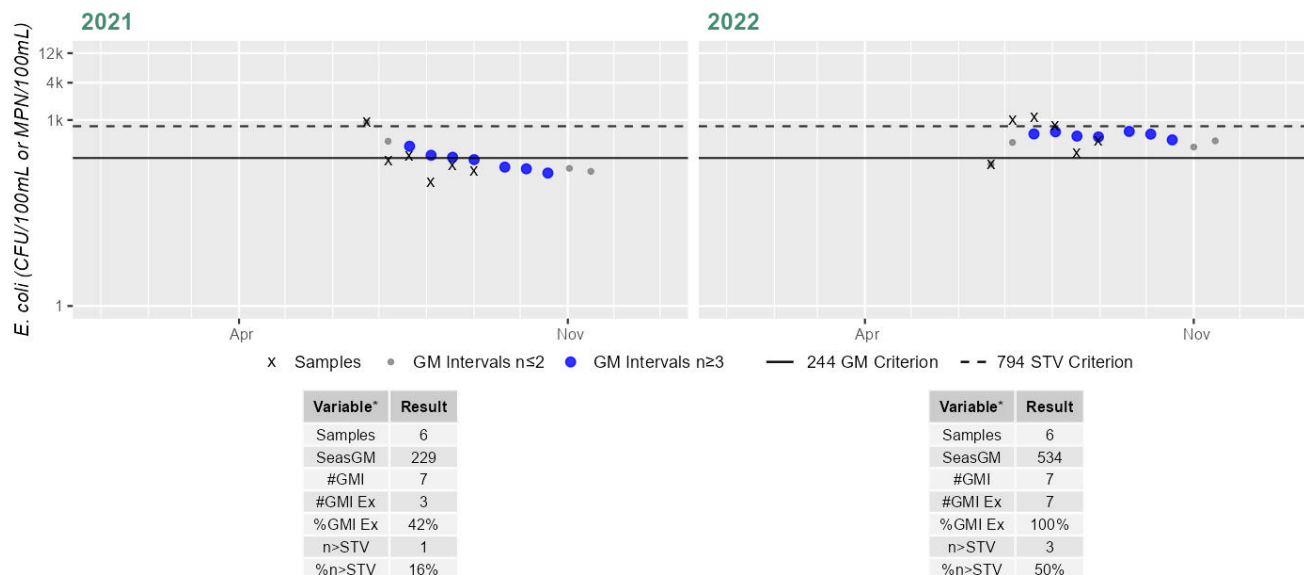
Station CRC_MA-GRN_02.0 - *Escherichia coli*

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



Station CRC_MA-GRN_02.2 - Escherichia coli

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



Cumulative %GMI Exceedance

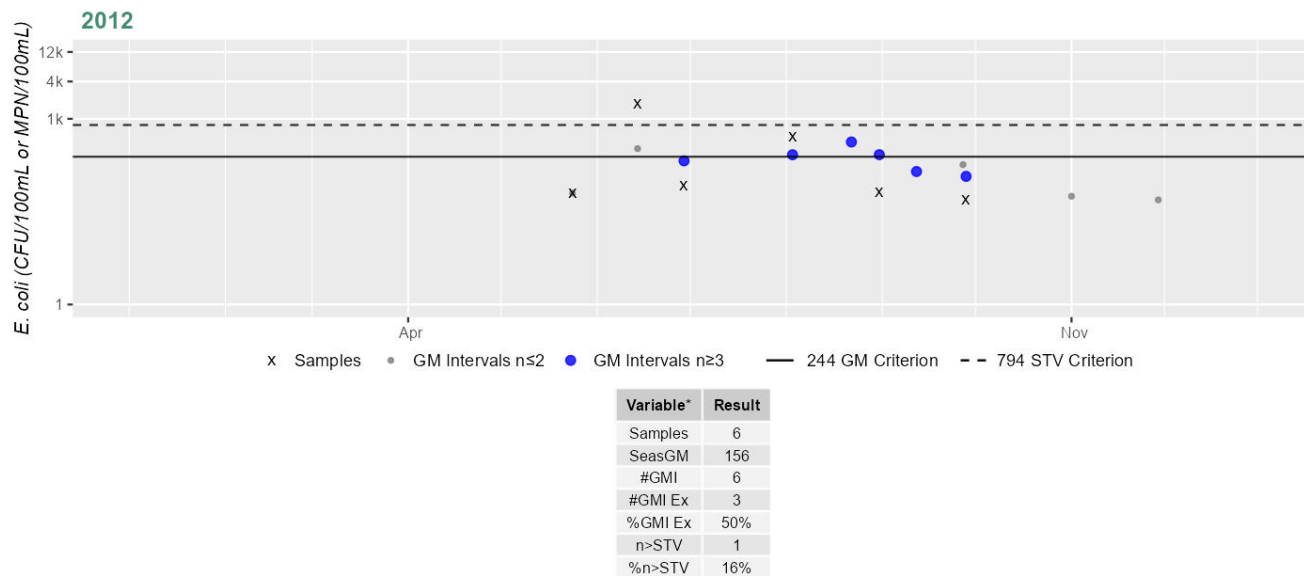
Current (2011-2022)

71%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; 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_W2248 - Escherichia coli

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



Cumulative %GMI Exceedance

Current (2011-2022)

50%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; 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.

Green River (MA33-55)

Location:	Headwaters, perennial portion in Florida State Forest west of Blackstone Road, Florida to confluence with Cold River, Florida.
AU Type:	RIVER
AU Size:	1.3 MILES
Classification/Qualifier:	B

No usable data were available for Green River (MA33-55) 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

Gulf Brook (MA33-56)

Location:	Outlet of Burnett Pond, Savoy to confluence with Cold River, Savoy.
AU Type:	RIVER
AU Size:	3.5 MILES
Classification/Qualifier:	B

No usable data were available for Gulf Brook (MA33-56) 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

Haley Brook (MA33-57)

Location:	Headwaters north of Main Street, Monroe to confluence with Dunbar Brook, Monroe.
AU Type:	RIVER
AU Size:	1.5 MILES
Classification/Qualifier:	B

No usable data were available for Haley Brook (MA33-57) 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

Hallockville Pond (MA33009)

Location:	Plainfield/Hawley.
AU Type:	FRESHWATER LAKE
AU Size:	18 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	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, so the Fish Consumption Use for Hallockville Pond (MA33009) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for Hallockville Pond (MA33009) is assessed as Fully Supporting based on the lack of any objectionable conditions documented by MassDEP staff during the summers of 2016. MassDEP staff recorded aesthetics observations as part of the MAP2 lake monitoring project during the summer of 2016, at two stations for this Hallockville Pond AU; at the deep hole index site, at the northeastern end of pond, Plainfield (W2634, MAP2L-036) n=3 and at the northern end of pond, west of Hallockville Pond Dam (NAT ID: MA00465), west of Rt. 8A (West Hawley Road), Hawley (W2610, MAP2L-036S) n=5. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded at either location. During the MAP2 littoral survey (n=1), duckweed was not noted in any of the 10 shoreline plots and during the MAP2 macrophyte mapping survey (n=1) in September 2016 less than 25% (1.4%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2610	MassDEP	Water Quality	Hallockville Pond	[northern end of pond, west of Hallockville Pond Dam (NAT ID: MA00465), west of Route 8A (West Hawley Road), Hawley]	42.551552	-72.942039
W2634	MassDEP	Water Quality	Hallockville Pond	[index site, northeastern end of pond, Plainfield]	42.551103	-72.942582

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
W2610	2016	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2610 (MAP2L-036S) on Hallockville Pond (MA33009) 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.
W2634	2016	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2634 (MAP2L-036) on Hallockville Pond (MA33009) during 3 site visits between Jun 2016 and Sep 2016. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. During the MAP2 macrophyte mapping survey (n=1) in Sep 2016, less than 25% (1.4%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%.

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

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2610	Hallockville Pond	2016	Aesthetics Impaired?	No	5	5
W2610	Hallockville Pond	2016	Color	None	5	5
W2610	Hallockville Pond	2016	Objectionable Deposits	No	5	5
W2610	Hallockville Pond	2016	Odor	None	5	5
W2610	Hallockville Pond	2016	Scum	No	3	5
W2610	Hallockville Pond	2016	Scum	Yes	2	5
W2610	Hallockville Pond	2016	Turbidity	None	5	5
W2634	Hallockville Pond	2016	Aesthetics Impaired?	No	2	3
W2634	Hallockville Pond	2016	Aesthetics Impaired?	NR	1	3
W2634	Hallockville Pond	2016	Aquatic Plant Density, Overall	None	1	3
W2634	Hallockville Pond	2016	Aquatic Plant Density, Overall	Sparse	2	3
W2634	Hallockville Pond	2016	Aquatic Plant Density, Whole Lake	Sparse	1	1
W2634	Hallockville Pond	2016	Color	Light Yellow/Tan	2	3
W2634	Hallockville Pond	2016	Color	None	1	3
W2634	Hallockville Pond	2016	Duckweed Density, Whole Lake	None	1	1
W2634	Hallockville Pond	2016	Objectionable Deposits	No	3	3
W2634	Hallockville Pond	2016	Odor	None	3	3
W2634	Hallockville Pond	2016	Scum	No	2	3
W2634	Hallockville Pond	2016	Scum	Yes	1	3
W2634	Hallockville Pond	2016	Turbidity	None	2	3
W2634	Hallockville Pond	2016	Turbidity	Slightly Turbid	1	3

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
<p>The Primary Contact Recreation Use for Hallockville Pond (MA33009) is assessed as Fully Supporting. In Hallockville Pond (MA33009), MassDEP collected Secchi and cyanobacteria cell count data at W2634 [MAP2L-036, Index-deep hole] (2016) and cyanobacteria cell count and cyanotoxins data at W2610 [MAP2L-036S, Shoreline] (2016). Secchi depth data indicated water clarity meeting the 1.2m (4ft) threshold at W2634 in 2016 (n=3, 1.74-1.86m). The cyanobacteria cell count did not exceed 70,000 cells/ml in any of the water samples in 2016 (n=6). Analysis of microcystins samples from W2610 in 2016 (n=3) indicated that the concentrations did not exceed the threshold of 8 µg/L. MassDEP staff collected <i>E. coli</i> bacteria samples in Hallockville Pond (MA33009) at W2610 [northern end of pond, W of Hallockville Pond Dam (T ID: MA00465), W of Rt. 8A (W Hawley Rd), Hawley] from May-Sep 2016 (n=5). <i>E. coli</i> data from W2610 meet 2024 CALM guidance.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2610	MassDEP	Water Quality	Hallockville Pond	[northern end of pond, west of Hallockville Pond Dam (NAT ID: MA00465), west of Route 8A (West Hawley Road), Hawley]	42.551552	-72.942039
W2634	MassDEP	Water Quality	Hallockville Pond	[index site, northeastern end of pond, Plainfield]	42.551103	-72.942582

Bacteria Data

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

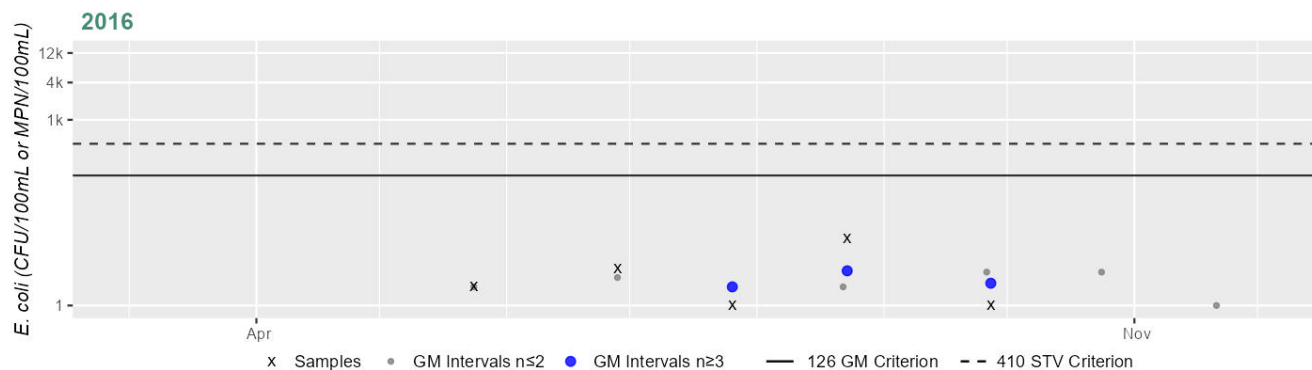
(MassDEP Undated 6) (MassDEP Undated 4)

[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
W2610	MassDEP	E. coli	05/23/16	09/26/16	5	1	12	2

Station MASSDEP_W2610 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	2
#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 Exceedances; %GMI Ex = % GMI Exceedances; 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(s)	Summary
2016	In Hallockville Pond (MA33009) in 2016, MassDEP collected Secchi and cyanobacteria cell count data at W2634 [MAP2L-036, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at W2610 [MAP2L-036S, Shoreline]. At station W2634 (station depth=1.7 m) the Secchi depth measurements ranged from 1.74-1.86 m (n=3) indicating water clarity meeting the 1.2 m (4 ft) threshold. The cyanobacteria cell count did not exceed 70,000 cells/mL in any of the water samples (n=6). Analysis of microcystins samples from the shoreline station W2610 (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)
W2610	Hallockville Pond	Shoreline	2016	3	0	NA
W2634	Hallockville Pond	Index	2016	3	0	NA

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Hallockville Pond (MA33009) is assessed as Fully Supporting. In Hallockville Pond (MA33009), MassDEP collected cyanobacteria cell count data at W2634 [MAP2L-036, Index-deep hole] (2016) and cyanobacteria cell count and cyanotoxins data at W2610 [MAP2L-036S, Shoreline] (2016). The cyanobacteria cell count did not exceed 70,000 cells/ml in any of the water samples in 2016 (n=6). Analysis of microcystins samples from W2610 in 2016 (n=3) indicated that the concentrations did not exceed the threshold of 8 µg/L. MassDEP staff collected <i>E. coli</i> bacteria samples in Hallockville Pond (MA33009) at W2610 [northern end of pond, W of Hallockville Pond Dam (T ID: MA00465), W of Rt. 8A (W Hawley Rd), Hawley] from May-Sep 2016 (n=5). <i>E. coli</i> data from W2610 meet 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2610	MassDEP	Water Quality	Hallockville Pond	[northern end of pond, west of Hallockville Pond Dam (NAT ID: MA00465), west of Route 8A (West Hawley Road), Hawley]	42.551552	-72.942039

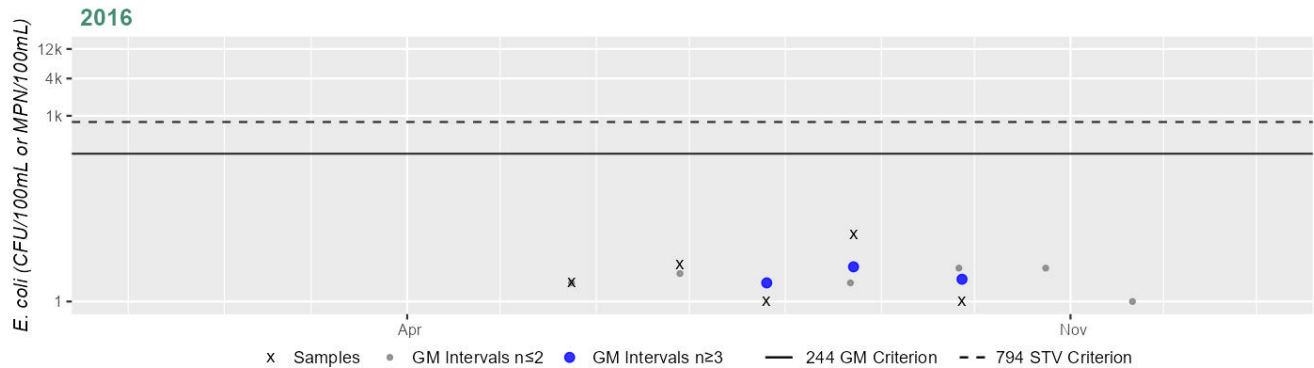
Bacteria Data

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
W2610	MassDEP	E. coli	05/23/16	09/26/16	5	1	12	2

Station MASSDEP_W2610 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	2
#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 Exceedances;
 %GMI Ex = % GMI Exceedances; 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.

Hartwell Brook (MA33-58)

Location:	Headwaters, south of South Heath Road, Charlemont to confluence with Deerfield River, Charlemont.
AU Type:	RIVER
AU Size:	2.1 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Hartwell Brook (MA33-58) 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

Hawkes Brook (MA33-112)

Location:	Headwaters east of Zerah Fiske Road, Shelburne to confluence with Dragon Brook, Shelburne.
AU Type:	RIVER
AU Size:	1.2 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Hawkes Brook (MA33-112) 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

Heath Brook (MA33-59)

Location:	Headwaters, south of West Main Street, Heath to confluence with Mill Brook, Heath.
AU Type:	RIVER
AU Size:	1 MILES
Classification/Qualifier:	B

No usable data were available for Heath Brook (MA33-59) 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

Hibbard Brook (MA33-60)

Location:	Headwaters, north of West Leyden Road, Leyden to confluence with Green River, Leyden.
AU Type:	RIVER
AU Size:	1.5 MILES
Classification/Qualifier:	A: PWS, ORW, HQW, CWF (Tributary)

No usable data were available for Hibbard Brook (MA33-60) 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

Highland Pond (MA33032)

Location:	Greenfield.
AU Type:	FRESHWATER LAKE
AU Size:	2 ACRES
Classification/Qualifier:	B

No usable data were available for Highland Pond (MA33032) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

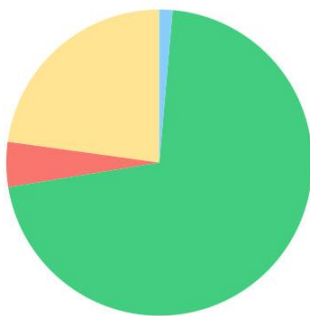
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Hinsdale Brook (MA33-21)

Location:	Headwaters east of Fiske Mill Road, Shelburne to confluence with Punch Brook, Greenfield.
AU Type:	RIVER
AU Size:	2.8 MILES
Classification/Qualifier:	B: CWF

Hinsdale Brook (MA33-21)

Watershed Area: 5.27 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	5.27	4.07	1.73	1.40
Agriculture	22.8%	19.6%	14.9%	14.1%
Developed	4.7%	4.7%	6.5%	5.9%
Natural	71%	74.2%	75.2%	76%
Wetland	1.4%	1.6%	3.4%	3.9%
Impervious	2.2%	2.2%	3.1%	3%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed
5	5	Temperature	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	--
Temperature	Agriculture (N)	X	--	--	--	--
Temperature	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)

Recommendations

2024/26 Recommendations
2024/2026 IR [Bacteria, Low] Monitor for <i>E. coli</i> in Hinsdale Brook (MA33-21) at Station W1346 (approximately 3550 feet upstream of Green River Road, Shelburne and approximately 700 feet downstream of the Stewart Brook confluence) to evaluate if a delisting of <i>E. coli</i> impairment is appropriate. {W1346}

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, so the Fish Consumption Use for Hinsdale Brook (MA33-21) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Hinsdale Brook (MA33-21) is assessed as Fully Supporting based on the lack of any objectionable conditions documented by MassDEP staff during the summer of 2012. MassDEP staff recorded aesthetics observations at one station halfway down this Hinsdale Brook AU upstream of Green River Rd, Shelburne (and ~700 feet downstream of the Stewart Brook confluence) (W2275) during the summer of 2012 (n=6) as part of the MAP2 Probabilistic Wadeable Streams monitoring project. There were generally no persistent objectionable conditions (i.e., odors, deposits, growths, or turbidity) observed during the surveys, though field staff noted grey water color on one occasion.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2275	MassDEP	Water Quality	Hinsdale Brook	[approximately 3550 feet upstream of Green River Road, Shelburne (and approximately 700 feet downstream of the Stewart Brook confluence)]	42.628268	-72.644858

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
W2275	2012	6	Aesthetic observations were made by MassDEP field sampling crews at Station W2275 on Hinsdale Brook (MA33-21) 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
W2275	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
W2275	Hinsdale Brook	2012	Aquatic Plant Density, Overall	None	6	6
W2275	Hinsdale Brook	2012	Color	Greyish	1	6
W2275	Hinsdale Brook	2012	Color	None	5	6
W2275	Hinsdale Brook	2012	Objectionable Deposits	No	6	6
W2275	Hinsdale Brook	2012	Odor	None	6	6
W2275	Hinsdale Brook	2012	Periphyton Density, Filamentous	None	6	6
W2275	Hinsdale Brook	2012	Periphyton Density, Film	None	6	6
W2275	Hinsdale Brook	2012	Scum	No	6	6
W2275	Hinsdale Brook	2012	Turbidity	None	5	6
W2275	Hinsdale Brook	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 Hinsdale Brook (MA33-21) is assessed as Not Supporting. The prior *Escherichia coli* (*E. coli*) impairment is being carried forward. MassDEP staff collected *E. coli* bacteria samples in Hinsdale Brook (MA33-21) at W2275 [~3550 ft upstream of Green River Rd, Shelburne (and ~700 ft downstream of the Stewart Brook confluence)] from May-Sep 2012 (n=6). Analysis of the single year limited frequency *E. coli* dataset from W2275 indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 23 CFU/100ml. *E. coli* data from W2275 meet 2024 CALM guidance. The impairment was first listed in the 2016 IR reporting cycle based on *E. coli* bacteria concentrations in Hinsdale Brook a little further downstream along Green River Road in Greenfield downstream of a stormwater swale and discharge pipes (W1346) during the summer 2005 (n=5 samples with overall geo mean 139cfu/100mls) so a recommendation will be made to sample that location again to evaluate if a delisting is appropriate.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2275	MassDEP	Water Quality	Hinsdale Brook	[approximately 3550 feet upstream of Green River Road, Shelburne (and approximately 700 feet downstream of the Stewart Brook confluence)]	42.628268	-72.644858

Bacteria Data

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

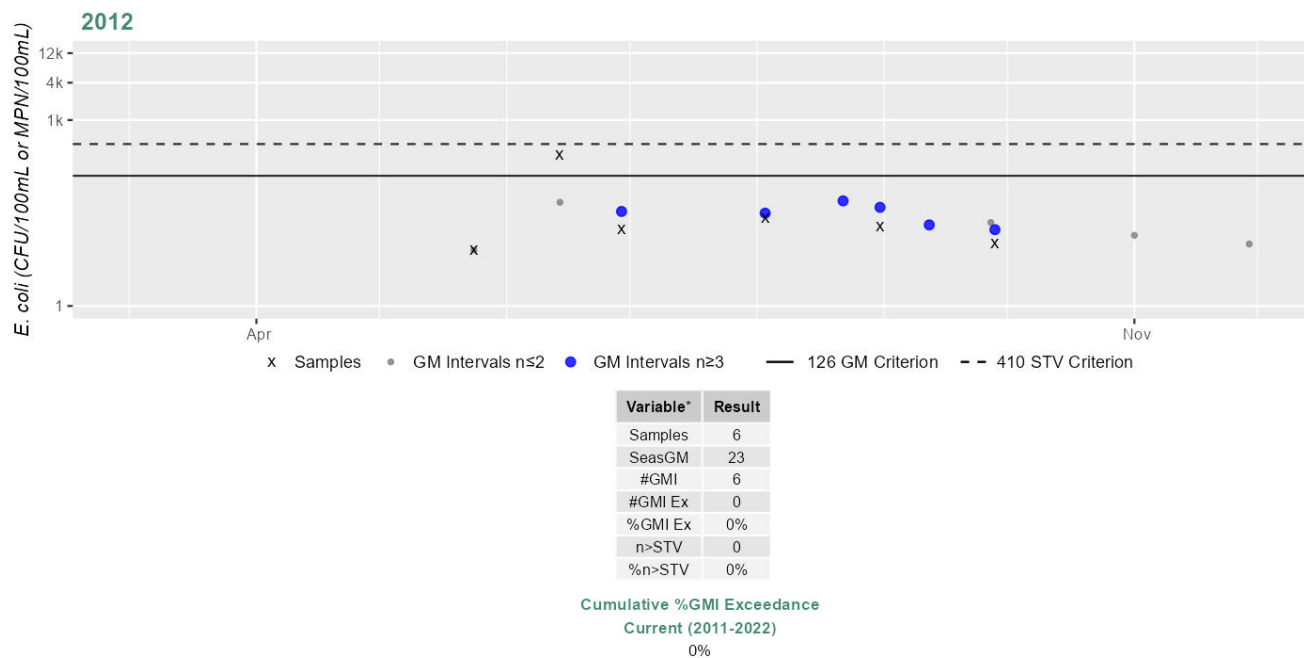
(MassDEP Undated 6) (MassDEP Undated 4)

[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
W2275	MassDEP	E. coli	05/23/12	09/27/12	6	8	276	23

Station MASSDEP_W2275 - *Escherichia coli*

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



*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; 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 Hinsdale Brook (MA33-21) continues to be assessed as Fully Supporting. MassDEP staff collected <i>E. coli</i> bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in Hinsdale Brook (MA33-21) from 2005-2012 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: W2275 [~3550 ft upstream of Green River Rd, Shelburne (and ~700 ft downstream of the Stewart Brook confluence)] from May-Sep 2012 (n=6), W1346 [Green River Rd, Greenfield (downstream of storm water swale and discharge pipes)] from May-Sep 2005 (n=5). <i>E. coli</i> data from W2275 meet 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1346	MassDEP	Water Quality	Hinsdale Brook	[Green River Road, Greenfield (downstream of storm water swale and discharge pipes)]	42.622779	-72.635375

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2275	MassDEP	Water Quality	Hinsdale Brook	[approximately 3550 feet upstream of Green River Road, Shelburne (and approximately 700 feet downstream of the Stewart Brook confluence)]	42.628268	-72.644858

Bacteria Data

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

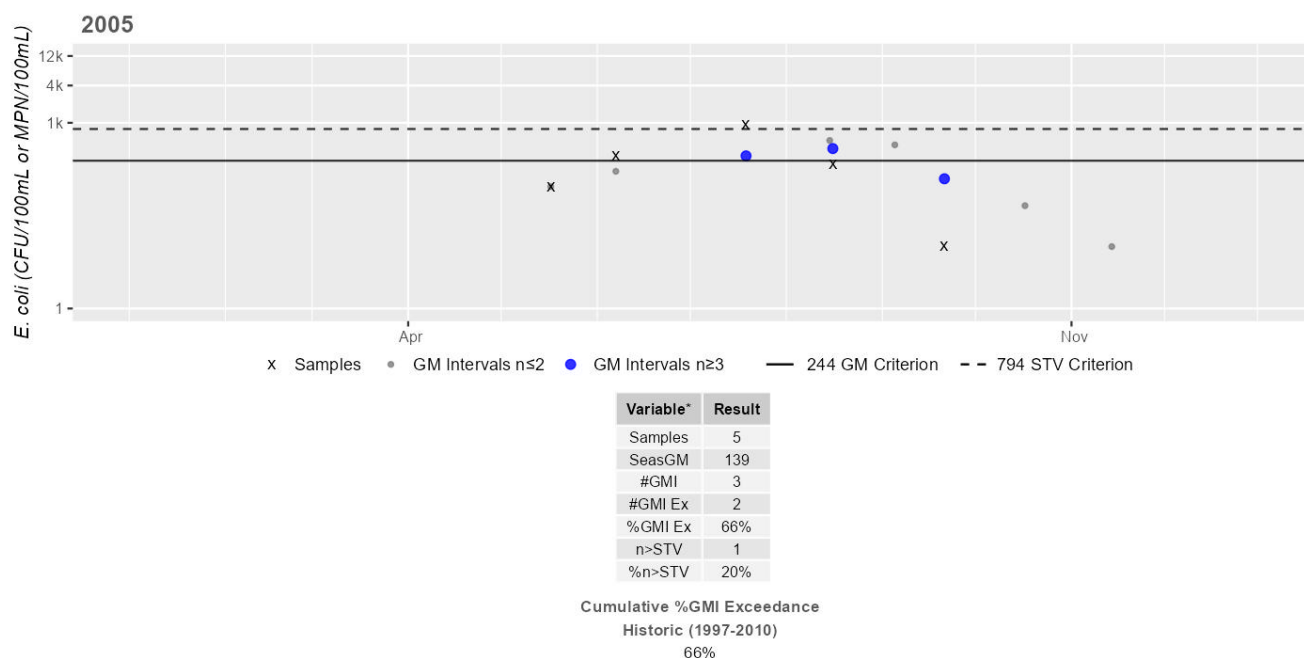
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1346	MassDEP	E. coli	05/17/05	09/21/05	5	10	921	139
W2275	MassDEP	E. coli	05/23/12	09/27/12	6	8	276	23

Station MASSDEP_W1346 - Escherichia coli

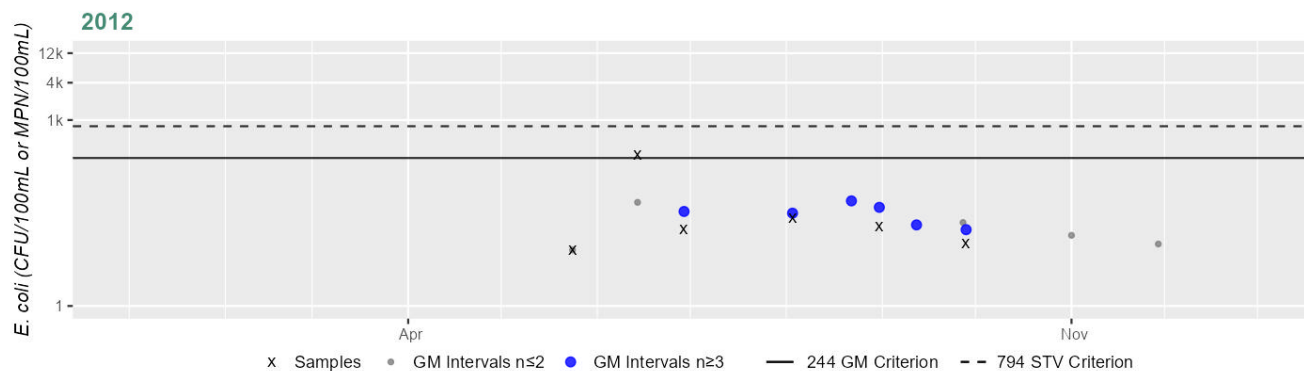
Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; 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_W2275 - *Escherichia coli*

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



Variable*	Result
Samples	6
SeasGM	23
#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 Exceedances;
 %GMI Ex = % GMI Exceedances; 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.

Horsefords Brook (MA33-62)

Location:	Headwaters, west of Bannis Road, Savoy to confluence with Chickley River, Savoy.
AU Type:	RIVER
AU Size:	1.9 MILES
Classification/Qualifier:	B

No usable data were available for Horsefords Brook (MA33-62) 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

Houghton Brook (MA33-135)

Location:	Headwaters, perennial portion south of Charlemont Road, Colrain to mouth at confluence with North River, Colrain.
AU Type:	RIVER
AU Size:	0.2 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Houghton Brook (MA33-135) 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

Johnny Bean Brook (MA33-63)

Location:	Headwaters, Poland Brook State Wildlife Management Area, Conway to confluence with South River, Conway.
AU Type:	RIVER
AU Size:	1.7 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Johnny Bean Brook (MA33-63) 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

Johnson Brook (MA33-131)

Location:	Headwaters, west of Route 112 (Main Road) and northeast at Houghton Hill, Colrain to the mouth at confluence with North River, Colrain.
AU Type:	RIVER
AU Size:	1.4 MILES
Classification/Qualifier:	B

No usable data were available for Johnson Brook (MA33-131) 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	(Dewatering*)	--	Unchanged

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

Katley Brook (MA33-99)

Location:	Headwaters, east of Katley Hill, Leyden to confluence with Green River, Leyden.
AU Type:	RIVER
AU Size:	1.3 MILES
Classification/Qualifier:	A: PWS, ORW, HQW, CWF (Tributary)

No usable data were available for Katley Brook (MA33-99) 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

King Brook (MA33-64)

Location:	Headwaters, outlet Hallockville Pond, Hawley to confluence with Chickley River, Hawley.
AU Type:	RIVER
AU Size:	2.1 MILES
Classification/Qualifier:	B

No usable data were available for King Brook (MA33-64) 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

Kinsman Brook (MA33-124)

Location:	Headwaters north of Colrain Stage Road, Heath to confluence with Davenport Brook forming headwaters Taylor Brook, Heath.
AU Type:	RIVER
AU Size:	1.8 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Kinsman Brook (MA33-124) 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

Legate Hill Brook (MA33-65)

Location:	Headwaters, perennial portion north of Blueberry Peak, Charlemont to confluence with Deerfield River, Charlemont.
AU Type:	RIVER
AU Size:	3.4 MILES
Classification/Qualifier:	B

No usable data were available for Legate Hill Brook (MA33-65) 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

Manning Brook (MA33-66)

Location:	Headwaters, north of South County Road, Florida to confluence with Cold River, Florida.
AU Type:	RIVER
AU Size:	1.4 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Manning Brook (MA33-66) 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

Maxwell Brook (MA33-67)

Location:	Headwaters, located north of Tatro Road, Rowe to confluence with Mill Brook, Charlemont.
AU Type:	RIVER
AU Size:	3.3 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Maxwell Brook (MA33-67) 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

Maynard Pond (MA33011)

Location:	Greenfield.
AU Type:	FRESHWATER LAKE
AU Size:	3 ACRES
Classification/Qualifier:	B

No usable data were available for Maynard Pond (MA33011) 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

Mccard Brook (MA33-68)

Location:	Headwaters, east of Oak Hill Road, Leyden to confluence with Mill Brook, Greenfield.
AU Type:	RIVER
AU Size:	2.1 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Mccard Brook (MA33-68) 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

Mcleod Pond (MA33012)

Location:	Colrain.
AU Type:	FRESHWATER LAKE
AU Size:	41 ACRES
Classification/Qualifier:	B

No usable data were available for Mcleod Pond (MA33012) 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

Meadow Brook (MA33-130)

Location:	Headwaters, outlet McLeod Pond, Colrain to mouth at confluence with North River, Colrain.
AU Type:	RIVER
AU Size:	1.2 MILES
Classification/Qualifier:	B

No usable data were available for Meadow Brook (MA33-130) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

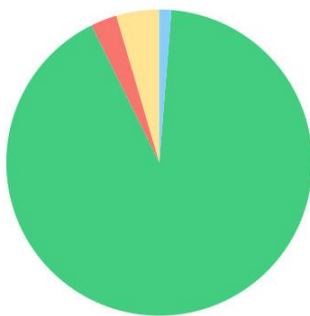
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Mill Brook (MA33-14)

Location:	Headwaters, originating north of Rowe Road, Heath to confluence with the Deerfield River, Charlemont.
AU Type:	RIVER
AU Size:	5.7 MILES
Classification/Qualifier:	B: CWF

Mill Brook (MA33-14)

Watershed Area: 11.95 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	11.95	4.10	2.74	1.05
Agriculture	4.5%	4.4%	2%	3%
Developed	2.8%	3.5%	4.2%	6.9%
Natural	91.4%	91.7%	90.6%	88.9%
Wetland	1.3%	0.4%	3.2%	1.2%
Impervious	1.3%	1.6%	2.2%	3.7%

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 recently, so the Fish Consumption Use for Mill Brook (MA33-14) 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 Mill Brook (MA33-14) 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 Mill Brook (MA33-14) continues to be assessed as Fully Supporting. CRC staff/volunteers collected <i>E. coli</i> bacteria samples in Mill Brook (MA33-14) at CRC_MA-MBK_00.1 [Mill Brook, Charlemont] from Jun-Sep 2019 (n=5). Analysis of the single year limited frequency <i>E. coli</i> dataset from CRC_MA-MBK_00.1 indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 42 CFU/100ml. <i>E. coli</i> data from CRC_MA-MBK_00.1 meet 2024 CALM guidance.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CRC_MA-MBK_00.1	Connecticut River Conservancy	Water Quality	Mill Brook	Mill Brook, Charlemont	42.626551	-72.872454

Bacteria Data

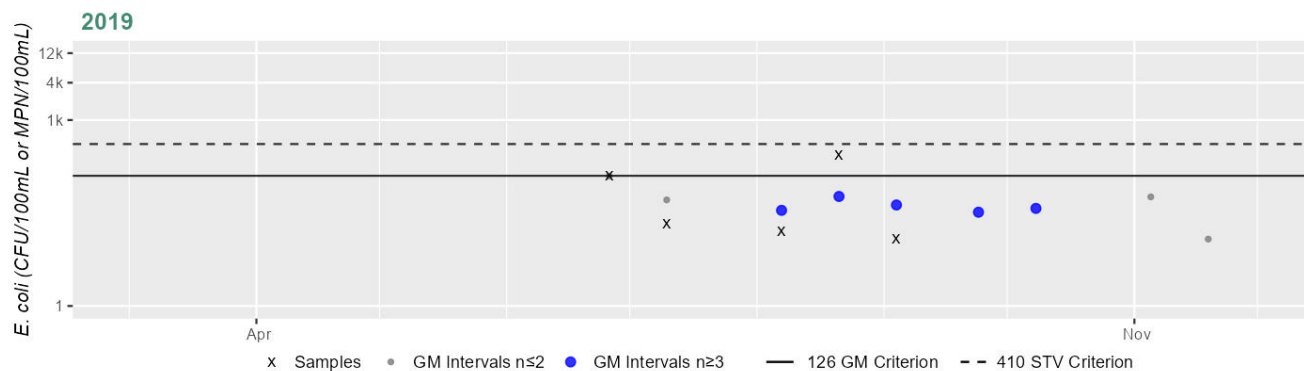
Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (CRC 2023) (MassDEP Undated 2)

[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
CRC_MA-MBK_00.1	Connecticut River Conservancy	E. coli	06/26/19	09/04/19	5	12	275	42

Station CRC_MA-MBK_00.1 - *Escherichia coli*

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



Variable*	Result
Samples	5
SeasGM	42
#GMI	5
#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 Exceedances;
 %GMI Ex = % GMI Exceedances; 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
<p>The Secondary Contact Recreation Use for Mill Brook (MA33-14) continues to be assessed as Fully Supporting. CRC and MassDEP staff/volunteers collected <i>E. coli</i> bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in Mill Brook (MA33-14) from 2005-2019 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: W1356 [~5/10 mile upstream of Rt. 8A and ~4/10 mile downstream of Mountain Rd, Charlemont] from May-Sep 2005 (n=5), CRC_MA-MBK_00.1 [Mill Brook, Charlemont] from Jun-Sep 2019 (n=5). Analysis of the single year limited frequency <i>E. coli</i> dataset from CRC_MA-MBK_00.1 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 42 CFU/100ml. <i>E. coli</i> data from CRC_MA-MBK_00.1 meet 2024 CALM guidance.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CRC_MA-MBK_00.1	Connecticut River Conservancy	Water Quality	Mill Brook	Mill Brook, Charlemont	42.626551	-72.872454
W1356	MassDEP	Water Quality	Mill Brook	[approximately 5/10 mile upstream of Route 8A and approximately 4/10 mile downstream of Mountain Road, Charlemont]	42.638156	-72.868314

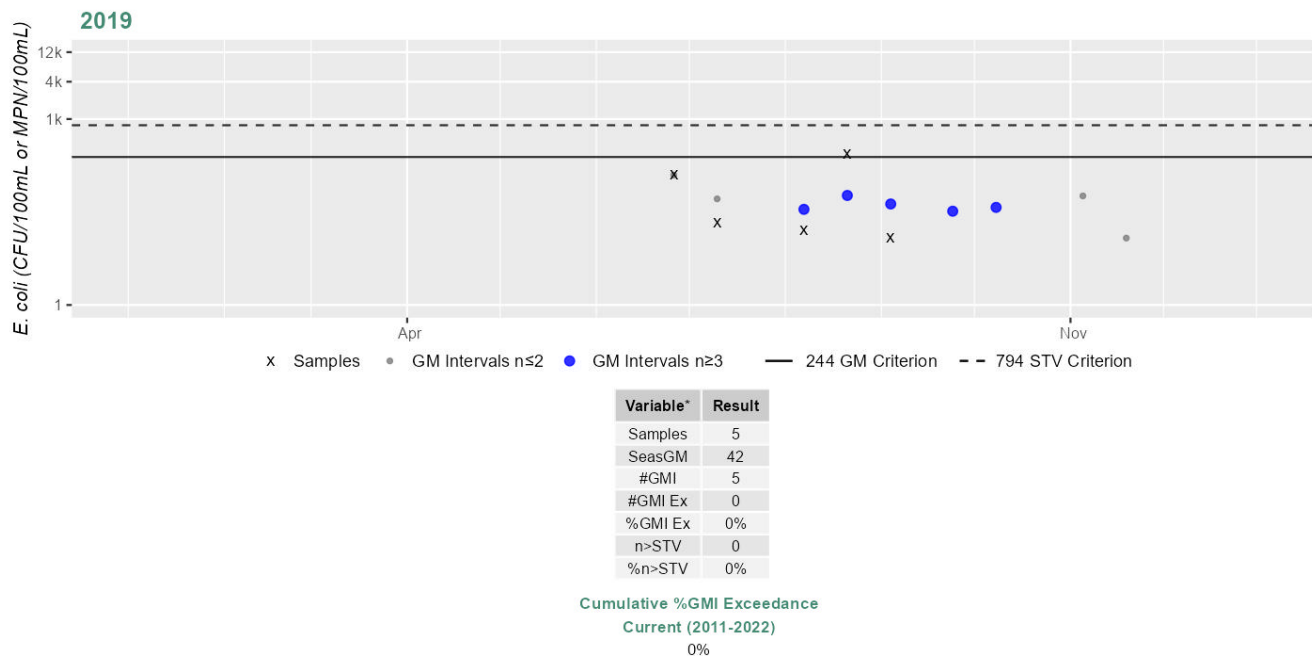
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis) (CRC 2023) (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
CRC_MA-MBK_00.1	Connecticut River Conservancy	E. coli	06/26/19	09/04/19	5	12	275	42
W1356	MassDEP	E. coli	05/17/05	09/21/05	5	1	113	19

Station CRC_MA-MBK_00.1 - Escherichia coli

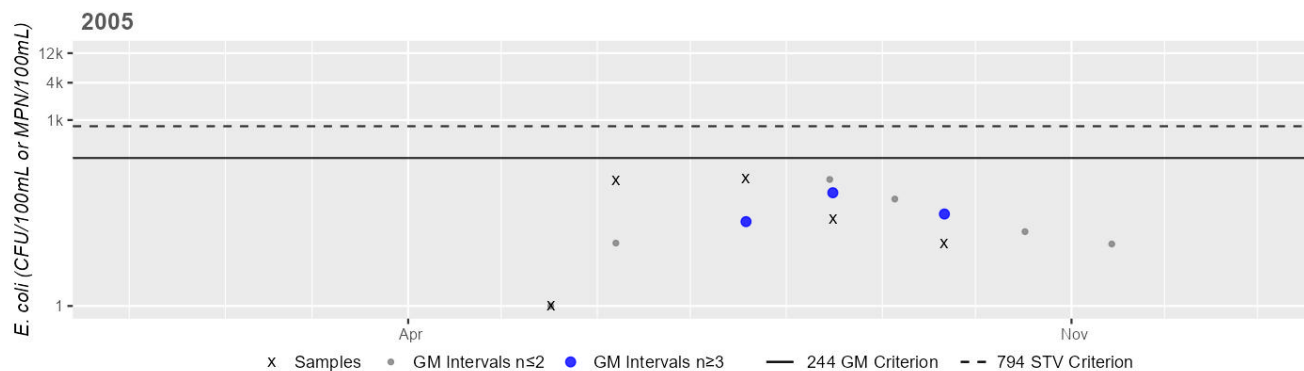
Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; 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_W1356 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	19
#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 Exceedances;
 %GMI Ex = % GMI Exceedances; 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.

Mill Brook (MA33-69)

Location:	Headwaters, outlet Beaver Pond, Hawley to confluence with Chickley River, Hawley.
AU Type:	RIVER
AU Size:	4.1 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Mill Brook (MA33-69) 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

Mill Brook (MA33-70)

Location:	Headwaters, north of West Mountain Road, Bernardston to confluence with Cherry Rum Brook, Greenfield.
AU Type:	RIVER
AU Size:	8.4 MILES
Classification/Qualifier:	B

No usable data were available for Mill Brook (MA33-70) 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
5	5	Benthic Macroinvertebrates	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Benthic Macroinvertebrates	Agriculture (N)	X	--	--	--	--
Benthic Macroinvertebrates	Golf Courses (N)	X	--	--	--	--
Benthic Macroinvertebrates	Highway/Road/Bridge Runoff (Non-construction Related) (N)	X	--	--	--	--
Benthic Macroinvertebrates	Residential Districts (N)	X	--	--	--	--
Benthic Macroinvertebrates	Source Unknown (N)	X	--	--	--	--

Mt. Brook Reservoir (MA33024)

Location:	Colrain.
AU Type:	FRESHWATER LAKE
AU Size:	1 ACRES
Classification/Qualifier:	B

No usable data were available for Mt. Brook Reservoir (MA33024) 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

Newell Pond (MA33013)

Location:	Greenfield.
AU Type:	FRESHWATER LAKE
AU Size:	0.9 ACRES
Classification/Qualifier:	B

No usable data were available for Newell Pond (MA33013) 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 Brook (MA33-126)

Location:	Perennial portion north of Harwood Road, Hawley to confluence with Chickley River, Hawley.
AU Type:	RIVER
AU Size:	1.2 MILES
Classification/Qualifier:	B: CWF

No usable data were available for North Brook (MA33-126) 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 Pond (MA33014)

Location:	Florida.
AU Type:	FRESHWATER LAKE
AU Size:	19 ACRES
Classification/Qualifier:	B

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, so the Fish Consumption Use for North Pond (MA33014) 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 North Pond (MA33014) 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 North Pond (MA33014) continues to be assessed as Fully Supporting. North Pond (MA33014) has a beach with DPH Beach Closure data: North Pond (DCR) [Beach ID: 4852] beach in Savoy. The beach was rarely, if at all, posted for swimming from 2018-2022.

Beach Postings

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

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
4852	North Pond Beach (DCR)/ Savoy	42.65320, -73.05320	42.65265, -73.05260	12%	4%	6%	0%	0%	0%	0%	0%	4%	1

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

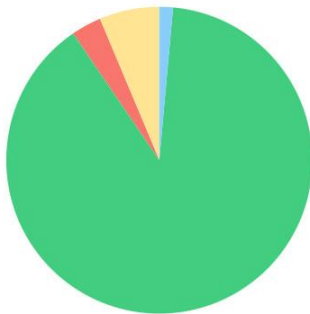
The Secondary Contact Recreation Use for North Pond (MA33014) continues to be assessed as Fully Supporting. North Pond (MA33014) has a beach with DPH Beach Closure data: North Pond (DCR) [Beach ID: 4852] beach in Savoy. The beach was rarely, if at all, posted for swimming from 2018-2022.

North River (MA33-06)

Location:	From confluence of East and West branches of the North River, Colrain to confluence with Deerfield River, Shelburne/Charlemont. (Segment changed 1997 - East Branch no longer included in length) (HQP applies upstream of Barnhardt discharge (NPDES# MA0003697)).
AU Type:	RIVER
AU Size:	3.3 MILES
Classification/Qualifier:	B: CWF, HQW* (*HQP applies to portion upstream MA0003697 Barnhardt discharge)

North River (MA33-06)

Watershed Area: 92.99 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area* (square miles)	48.58	10.51	13.01	3.20
Agriculture	6.4%	4.2%	7.1%	5.2%
Developed	3.2%	3.2%	5.2%	6.1%
Natural	89%	91.6%	84.8%	86.7%
Wetland	1.4%	0.9%	2.9%	2%
Impervious	1.3%	1.2%	2.3%	2.5%

*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	Lack of a Coldwater Assemblage	--	Unchanged
5	5	Temperature	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Lack of a Coldwater Assemblage	Source Unknown (N)	X	--	--	--	--
Temperature	Agriculture (N)	X	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Temperature	Dam or Impoundment (Y)	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, so the Fish Consumption Use for North River (MA33-06) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO
2024/26 Use Attainment Summary	
The Aesthetics Use for North River (MA33-06) is assessed as Fully Supporting based on the general lack of objectionable conditions documented by MassDEP staff during the summer of 2012. MassDEP staff recorded aesthetics observations at one station in the downstream half of this North River AU upstream of the Main Rd (Rt. 112) crossing nearest the Johnson Brook confluence (which is ~500 feet upstream of station) in Colrain (W2277) during the summer of 2012 (n=6), as part of the MAP2 Probabilistic Wadeable Streams monitoring project. There were generally no persistent objectionable conditions (i.e., odors, deposits, growths, or turbidity) observed during the surveys.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2277	MassDEP	Water Quality	North River	[approximately 2725 feet upstream of the Main Road (Route 112) crossing nearest the Johnson Brook confluence (which is approximately 500 feet upstream of station), Colrain]	42.639081	-72.724373

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
W2277	2012	6	Aesthetic observations were made by MassDEP field sampling crews at Station W2277 on North River (MA33-06) during 6 site visits between May 2012 and Sep 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
W2277	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
W2277	North River	2012	Aquatic Plant Density, Overall	None	6	6
W2277	North River	2012	Color	Brownish	1	6
W2277	North River	2012	Color	Light Yellow/Tan	2	6
W2277	North River	2012	Color	None	3	6
W2277	North River	2012	Objectionable Deposits	No	6	6
W2277	North River	2012	Odor	None	5	6
W2277	North River	2012	Odor	Rotting Vegetables	1	6
W2277	North River	2012	Periphyton Density, Filamentous	Moderate	1	6
W2277	North River	2012	Periphyton Density, Filamentous	None	3	6
W2277	North River	2012	Periphyton Density, Filamentous	Sparse	2	6
W2277	North River	2012	Periphyton Density, Film	Moderate	2	6
W2277	North River	2012	Periphyton Density, Film	None	3	6
W2277	North River	2012	Periphyton Density, Film	Very Dense	1	6
W2277	North River	2012	Scum	No	6	6
W2277	North River	2012	Turbidity	Moderately Turbid	1	6
W2277	North River	2012	Turbidity	None	3	6
W2277	North River	2012	Turbidity	Slightly Turbid	2	6

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
<p>The Primary Contact Recreation Use for the North River (MA33-06) continues to be assessed as Fully Supporting. CRC and MassDEP staff/volunteers collected <i>E. coli</i> bacteria samples in the North River (MA33-06) from 2012-2020 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: W2277 [~2725 ft upstream of the Main Rd (Rt. 112) crossing nearest the Johnson Brook confluence (which is ~500 ft upstream of station), Colrain] from May-Sep 2012 (n=6), CRC_MA-NOR_00.1 [“Sunburn Beach”, Charlemont] in 2019-2020 (n=5/yr). Analysis of the single year limited frequency <i>E. coli</i> dataset from W2277 indicated 66% of intervals had GMs >126 CFU/100ml, 1 sample exceeded the 410 CFU/100ml STV, and the seasonal GM was 118 CFU/100ml. Analysis of the multi-year limited frequency <i>E. coli</i> dataset from CRC_MA-NOR_00.1 indicated 1 out of 2 sufficient data yrs had intervals where >20% of the GMs were >126 CFU/100ml (2019, 60%), 0 yrs had ≥2 samples exceed the 410 CFU/100ml STV, and cumulatively across years 30% of intervals had GMs >126 CFU/100ml. <i>E. coli</i> data from W2277 are too limited according to the 2024 CALM to assess the Primary Contact Recreation Use because this single year, limited frequency dataset included both GMs below the threshold and STV exceedance of the threshold. <i>E. coli</i> data from CRC_MA-NOR_00.1 meet 2024 CALM guidance.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CRC_MA-NOR_00.1	Connecticut River Conservancy	Water Quality	North River	"Sunburn Beach", Charlemont	42.627706	-72.737089
W2277	MassDEP	Water Quality	North River	[approximately 2725 feet upstream of the Main Road (Route 112) crossing nearest the Johnson Brook confluence (which is approximately 500 feet upstream of station), Colrain]	42.639081	-72.724373

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (CRC 2023) (MassDEP Undated 2) (MassDEP Undated 6) (MassDEP Undated 4)

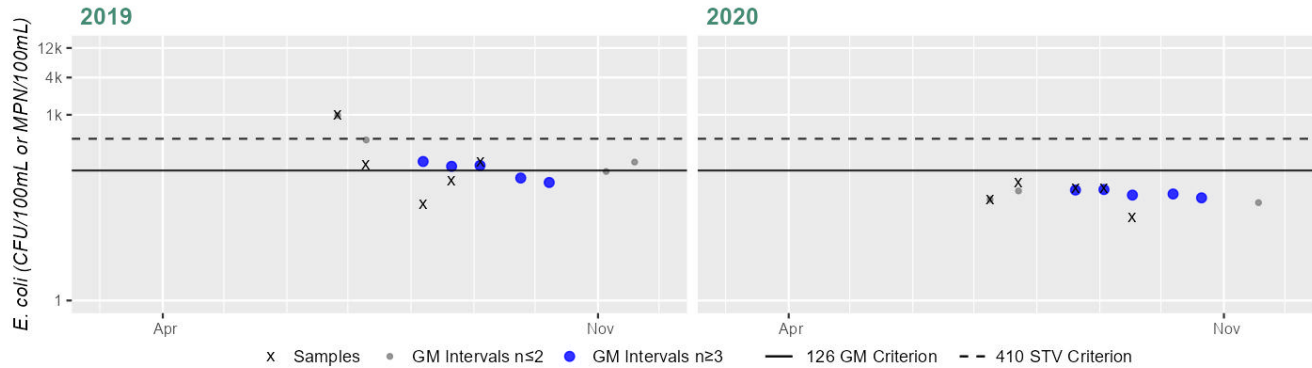
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
CRC_MA-NOR_00.1	Connecticut River Conservancy	E. coli	06/26/19	09/04/19	5	35	980	151
CRC_MA-NOR_00.1	Connecticut River Conservancy	E. coli	07/08/20	09/16/20	5	22	80	50

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2277	MassDEP	E. coli	05/23/12	09/27/12	6	40	816	118

Station CRC_MA-NOR_00.1 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	151
#GMI	5
#GMI Ex	3
%GMI Ex	60%
n>STV	1
%n>STV	20%

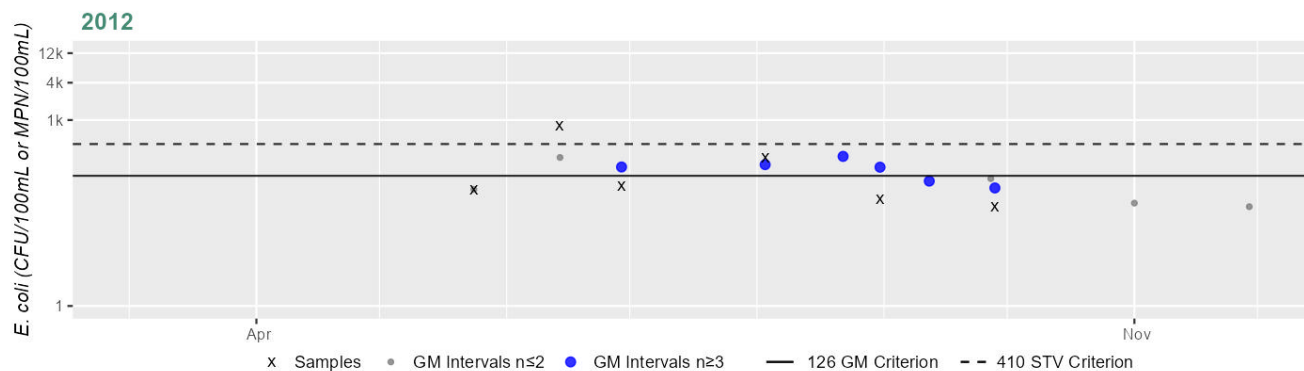
Variable*	Result
Samples	5
SeasGM	50
#GMI	5
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; 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_W2277 - *Escherichia coli*

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



Variable*	Result
Samples	6
SeasGM	118
#GMI	6
#GMI Ex	4
%GMI Ex	66%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance

Current (2011-2022)

66%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; 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 North River (MA33-06) continues to be assessed as Fully Supporting. CRC and MassDEP staff/volunteers collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in the North River (MA33-06) from 2005-2020 at 3 stations. Samples were collected from the following stations/sample years from upstream to downstream: W1352 [~300 ft downstream of Rt. 112, Colrain] from May-Sep 2005 (n=5), W2277 [~2725 ft upstream of the Main Rd (Rt. 112) crossing nearest the Johnson Brook confluence (which is ~500 ft upstream of station), Colrain] from May-Sep 2012 (n=6), CRC_MA-NOR_00.1 [“Sunburn Beach”, Charlemont] in 2019-2020 (n=5/yr). Analysis of the single year limited frequency *E. coli* dataset from W2277 indicated 16% of intervals had GMs >244 CFU/100ml, 1 sample exceeded the 794 CFU/100ml STV, and the overall GM was 118 CFU/100ml. Analysis of the multi-year limited frequency *E. coli* dataset from CRC_MA-NOR_00.1 indicated 0 out of 2 sufficient data yrs had intervals where >20% of the GMs were >244 CFU/100ml, 0 yrs had ≥2 samples exceed the 794 CFU/100ml STV, and cumulatively across years 0% of intervals had GMs >244 CFU/100ml. *E. coli* data from W2277 are inconclusive according to the 2024 CALM to assess the Secondary Contact Recreation Use because this single year, limited frequency dataset included both GMs below the threshold and STV exceedance of the threshold. *E. coli* data from CRC_MA-NOR_00.1 meet 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CRC_MA-NOR_00.1	Connecticut River Conservancy	Water Quality	North River	"Sunburn Beach", Charlemont	42.627706	-72.737089
W1352	MassDEP	Water Quality	North River	[approximately 300 feet downstream of Route 112, Colrain]	42.653019	-72.714308
W2277	MassDEP	Water Quality	North River	[approximately 2725 feet upstream of the Main Road (Route 112) crossing nearest the Johnson Brook confluence (which is approximately 500 feet upstream of station), Colrain]	42.639081	-72.724373

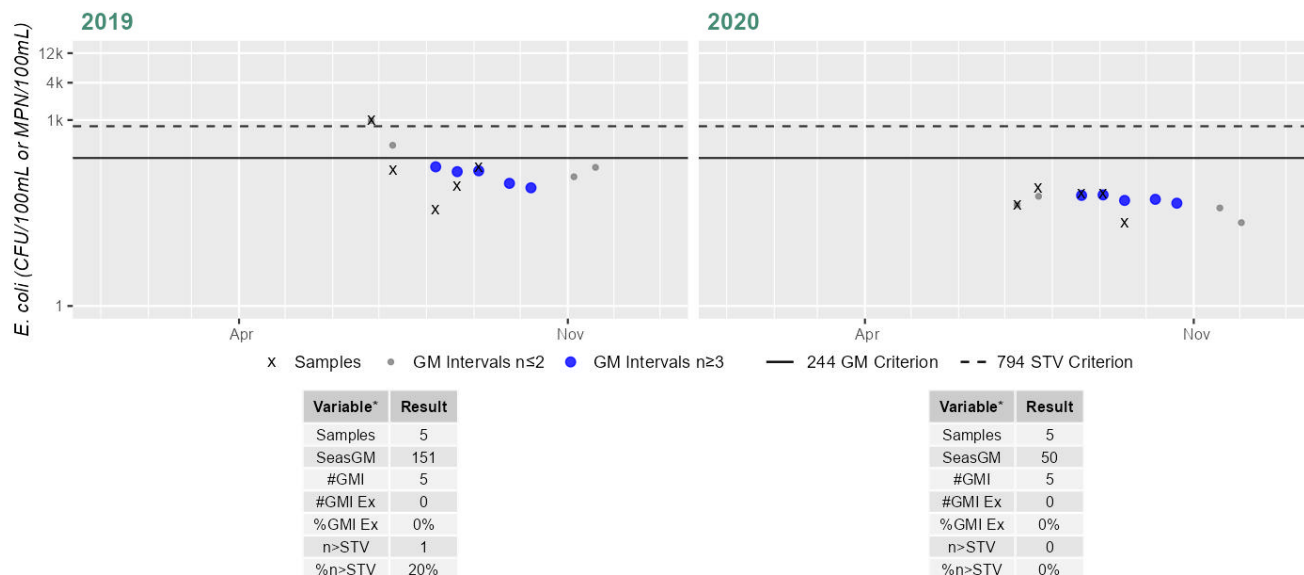
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis) (CRC 2023) (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
CRC_MA-NOR_00.1	Connecticut River Conservancy	E. coli	06/26/19	09/04/19	5	35	980	151
CRC_MA-NOR_00.1	Connecticut River Conservancy	E. coli	07/08/20	09/16/20	5	22	80	50
W1352	MassDEP	E. coli	05/17/05	09/21/05	5	26	770	209
W2277	MassDEP	E. coli	05/23/12	09/27/12	6	40	816	118

Station CRC_MA-NOR_00.1 - Escherichia coli

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



Cumulative %GMI Exceedance

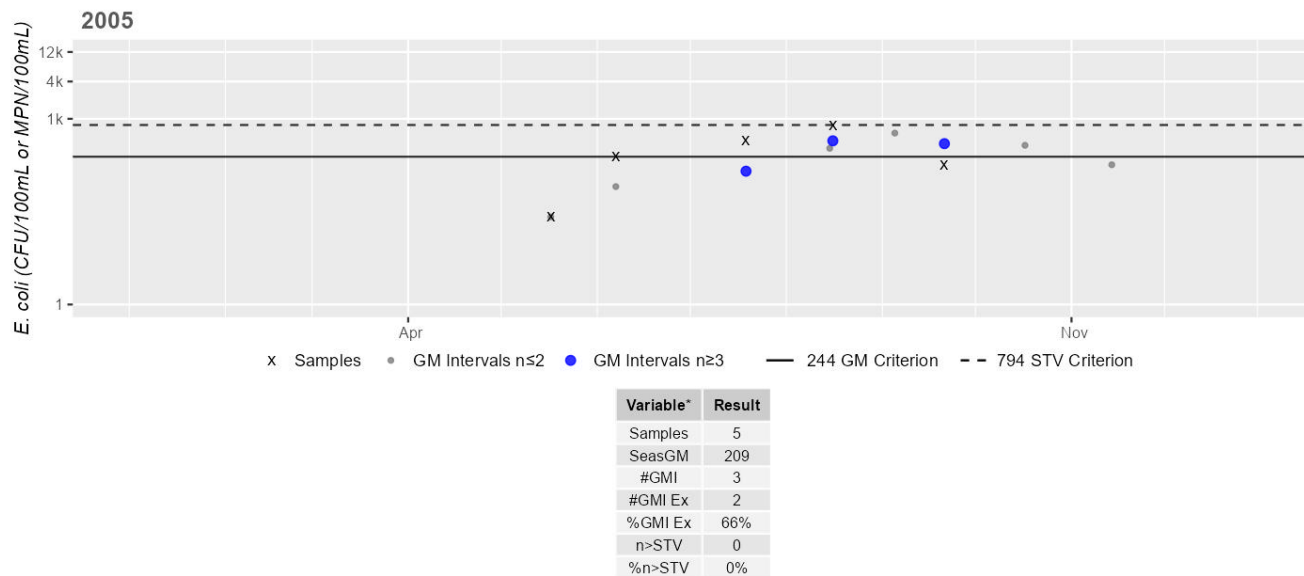
Current (2011-2022)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; 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_W1352 - Escherichia coli

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



Cumulative %GMI Exceedance

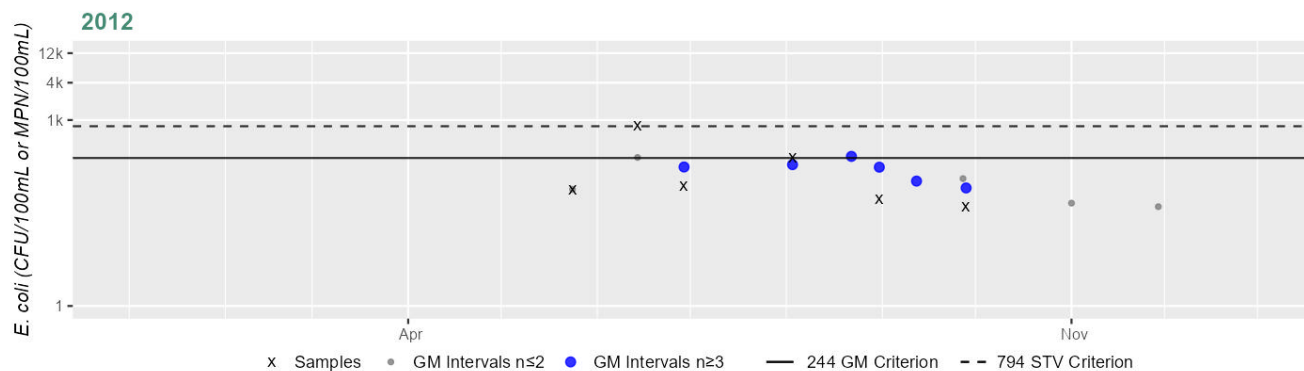
Historic (1997-2010)

66%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; 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_W2277 - *Escherichia coli*

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



Variable*	Result
Samples	6
SeasGM	118
#GMI	6
#GMI Ex	1
%GMI Ex	16%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance

Current (2011-2022)

16%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; 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.

Nye Brook (MA33-71)

Location:	Headwaters, perennial portion north of Guinea Gulf (Conway State Forest), Conway to confluence with Poland Brook, Conway.
AU Type:	RIVER
AU Size:	0.7 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Nye Brook (MA33-71) 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

Papoose Lake (MA33023)

Location:	Heath.
AU Type:	FRESHWATER LAKE
AU Size:	14 ACRES
Classification/Qualifier:	B

No usable data were available for Papoose Lake (MA33023) 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

Parsonage Brook (MA33-123)

Location:	Headwaters north of Main Road, Monroe to confluence with Dunbar Brook, Monroe.
AU Type:	RIVER
AU Size:	1.5 MILES
Classification/Qualifier:	B

No usable data were available for Parsonage Brook (MA33-123) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

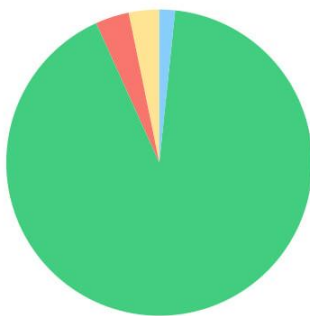
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Pelham Brook (MA33-12)

Location:	Headwaters outlet Pelham Lake, Rowe to confluence with Deerfield River, Charlemont.
AU Type:	RIVER
AU Size:	4.8 MILES
Classification/Qualifier:	B: CWF

Pelham Brook (MA33-12)

Watershed Area: 13.63 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area* (square miles)	13.51	5.44	3.34	1.38
Agriculture	3.2%	1.9%	1.4%	0.9%
Developed	3.6%	2.9%	4.8%	5.4%
Natural	91.6%	94.3%	89.7%	91.2%
Wetland	1.7%	0.9%	4.2%	2.4%
Impervious	1.5%	1.3%	2%	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 recently, so the Fish Consumption Use for Pelham Brook (MA33-12) 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 Pelham Brook (MA33-12) 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 Pelham Brook (MA33-12) 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 Pelham Brook (MA33-12) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in Pelham Brook (MA33-12) at W0044 [Zoar Rd, Charlemont] from May-Sep 2005 (n=5). Analysis of this historic single year limited frequency <i>E. coli</i> dataset from W0044 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 4 CFU/100ml. Historic <i>E. coli</i> data from W0044 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0044	MassDEP	Water Quality	Pelham Brook	[Zoar Road, Charlemont]	42.655907	-72.936486

Bacteria Data

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

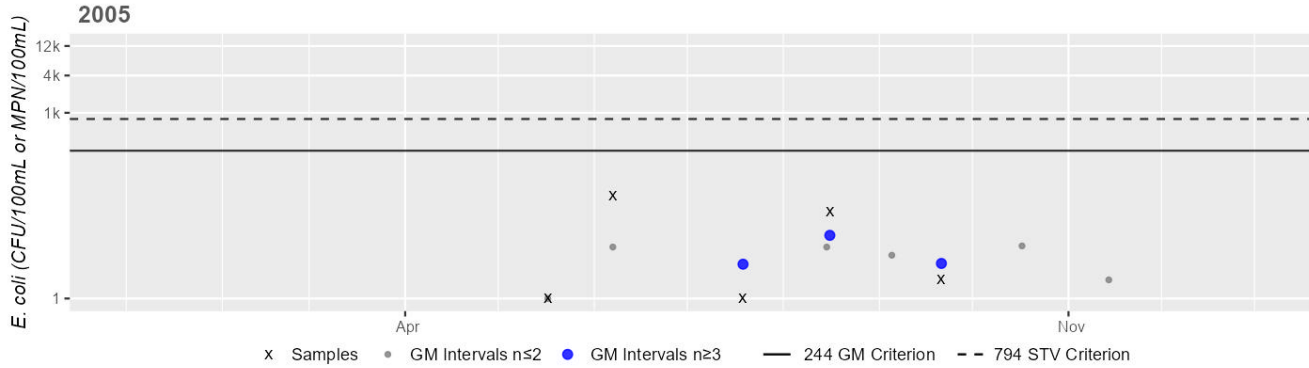
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W0044	MassDEP	E. coli	05/17/05	09/21/05	5	1	46	4

Station MASSDEP_W0044 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	4
#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 Exceedances;
%GMI Ex = % GMI Exceedances; 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.

Pelham Lake (MA33016)

Location:	Rowe.
AU Type:	FRESHWATER LAKE
AU Size:	80 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Mercury in Fish Tissue	--	Unchanged
5	5	PFAS in Fish Tissue	--	Added

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Mercury in Fish Tissue	Atmospheric Deposition (Y)	--	X	--	--	--
Mercury in Fish Tissue	Source Unknown (N)	--	X	--	--	--
PFAS in Fish Tissue	Source Unknown (N)	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	No
2024/26 Use Attainment Summary	

The Fish Consumption Use for Pelham Lake (MA33016) continues to be assessed as Not Supporting. The prior Mercury 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 Pelham Lake (MA33016) at station F0377 in 2018 as part of the MassDEP Office of Research and Standards Mercury Initiative. Additionally, fish toxics sampling was conducted in Pelham Lake (MA33016) at station F0377 (PFAS Study ID 31) on 09/20/2022 as part of a MassDEP-funded project evaluating 40 PFAS analytes in selected fresh waters. DPH issued a site-specific advisory for PFAS in Pelham Lake in their May 2024 Freshwater Fish Consumption Advisory List, and they retained this advisory as well as the prior Mercury advisory in their 2025 list. 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
F0377	MassDEP	Fish Toxics	Pelham Lake	[Rowe (impounded by Pelham Lake Dam, NAT ID: MA00044)]	42.699000	-72.889000

Fish Tissue Data

Summary of Fish Tissue Data and Resulting Fish Consumption Advisories (MA DPH 2025) (MassDEP 2023) (MassDEP Undated 5)

Summary
Fish toxics sampling was conducted in Pelham Lake (MA33016) at station F0377 in 2018 as part of the MassDEP Office of Research and Standards Mercury Initiative. MDPH retained the existing site-specific fish consumption advisories for Mercury associated with Pelham Lake in their 2025 Freshwater Fish Consumption Advisory List. Additionally, fish toxics sampling was conducted in Pelham Lake (MA33016) at station F0377 (PFAS Study ID 31) on 09/20/2022 as part of a MassDEP-funded project evaluating 40 PFAS analytes in selected fresh waters. Because of elevated PFAS measured in fish filets, MDPH issued site-specific fish consumption advisories for Pelham Lake in their May 2024 Freshwater Fish Consumption Advisory List and retained them in the 2025 list. The site-specific DPH advisories are indicative of a Fish Consumption Use impairment for PFAS in Fish Tissue and Mercury in Fish Tissue for Pelham Lake (MA33016).

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 MDPH's 2023 Technical Support Document for the evaluation of PFAS in recreational waterbodies.]

[Species List: P = pumpkinseed, YP = yellow perch]

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
F0377	31	09/20/2022	P	ND	ND	ND	0.64	PFOS

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
F0377	31	09/20/2022	YP	ND	ND	ND	0.52	PFOS

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Pelham Lake (MA33016) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
No bacteria data are available to assess the Secondary Contact Recreation Use for Pelham Lake (MA33016) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information. Surface water sampling was conducted in Pelham Lake (MA33016) at station W3293 (PFAS Study ID 31) and W3294 (PFAS Study ID 31B) on 09/20/2022 as part of a 2022 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.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W3293	MassDEP	Water Quality	Pelham Lake	[the default location representing co-located water/fish PFAS sampling, Rowe]	42.699000	-72.889000
W3294	MassDEP	Water Quality	Pelham Lake	[beach on northeastern edge of pond, Rowe]	42.700955	-72.887128

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 Pelham Lake (MA33016) at station W3293 (PFAS Study ID 31) on 09/20/2022 as part of a 2022 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.

Summary

Surface water sampling was conducted in Pelham Lake (MA33016) at station W3294 (PFAS Study ID 31B), the beach on the northeastern edge of the lake, on 09/20/2022 as part of a 2022 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 Σ PFAS6 equals the sum of PFOA, PFOS, PFNA, PFHxS, PFDA, PFHpA (not all shown individually here); * indicates the Σ 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	Σ PFAS6 ng/L
W3293	31	09/20/2022	1.5j	<0.49	<0.49	<0.56	<2	<0.3	<2	4.1*
W3294	31B	09/20/2022	1.4j	<0.51	<0.51	<0.58	<2.1	<0.31	<2.1	4.0*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary

No bacteria or other indicator data for Pelham Lake (MA33016) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Phelps Brook (MA33-73)

Location:	Perennial portion, north of Main Road, Monroe to inlet of Phelps Brook Reservoir, Monroe.
AU Type:	RIVER
AU Size:	1.2 MILES
Classification/Qualifier:	A: PWS, ORW (Tributary)

No usable data were available for Phelps Brook (MA33-73) 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

Phelps Brook Reservoir (MA33030)

Location:	Monroe.
AU Type:	FRESHWATER LAKE
AU Size:	0.05 ACRES
Classification/Qualifier:	A: PWS, ORW

No usable data were available for Phelps Brook Reservoir (MA33030) 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

Plainfield Pond (MA33017)

Location:	Plainfield.
AU Type:	FRESHWATER LAKE
AU Size:	60 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Mercury in Fish Tissue	33880	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Mercury in Fish Tissue	Atmospheric Deposition (Y)	--	X	--	--	--
Mercury in Fish Tissue	Source Unknown (N)	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	No

2024/26 Use Attainment Summary
<p>The Fish Consumption Use for Plainfield Pond (MA33017) continues to be assessed as Not Supporting and the prior Mercury in Fish Tissue impairment is being carried forward. Fish toxics sampling was conducted in Plainfield Pond (MA33017) at station F0379 in 2018 as part of the MassDEP Office of Research and Standards Mercury Initiative. MDPH included a site-specific advisory for Plainfield Pond in their January 2025 Freshwater Fish Consumption Advisory List. 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.</p>

Fish Consumption Advisories

Summary of Fish Toxics Sampling and Resulting Fish Consumption Advisories (MA DPH 2025) (MassDEP Undated 5)

Summary Statement
Fish toxics sampling was conducted in Plainfield Pond (MA33017) at station F0379 in 2018 as part of the MassDEP Office of Research and Standards Mercury Initiative. MDPH retained the existing site-specific fish consumption advisories for Mercury associated with Plainfield Pond in their 2025 Freshwater Fish Consumption Advisory List. The site-specific DPH advisories are indicative of a Fish Consumption Use impairment for Mercury in Fish Tissue for Plainfield Pond (MA33017).

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Plainfield Pond (MA33017) 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 Plainfield Pond (MA33017) are available, so the Primary Contact Recreation Use is Not Assessed.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

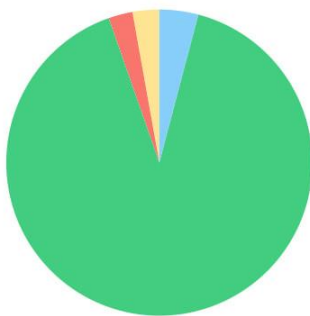
2024/26 Use Attainment Summary
No bacteria or other indicator data for Plainfield Pond (MA33017) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Poland Brook (MA33-74)

Location:	Confluence with Chapel Brook, Conway to confluence with South River, Conway.
AU Type:	RIVER
AU Size:	2.6 MILES
Classification/Qualifier:	B: CWF

Poland Brook (MA33-74)

Watershed Area: 6.68 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	6.68	5.54	1.93	1.58
Agriculture	2.8%	3.3%	2.7%	3.3%
Developed	2.5%	2.6%	2.5%	2.3%
Natural	90.5%	91.3%	86.1%	88.9%
Wetland	4.1%	2.8%	8.6%	5.5%
Impervious	1.1%	1%	1.4%	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 recently, so the Fish Consumption Use for Poland Brook (MA33-74) 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 Poland Brook (MA33-74) 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 Poland Brook (MA33-74) 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
<p>No bacteria or other indicator data for Poland Brook (MA33-74) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in Poland Brook (MA33-74) from 2005-2006 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: W1361 [the most upstream N Poland Rd crossing (near Bullitt Rd), Conway] from May-Sep 2005 (n=5), W1702 [just upstream of confluence with S River, E of N Poland Rd, Conway] from Jul-Aug 2006 (n=2). Analysis of this historic single year limited frequency <i>E. coli</i> dataset from W1361 indicated 33% of intervals had GMs >244 CFU/100ml, 1 sample exceeded the 794 CFU/100ml STV, and the overall GM was 77 CFU/100ml. Historic <i>E. coli</i> data from W1702 are too limited according to the 2024 CALM to assess the Secondary Contact Recreation Use. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1361	MassDEP	Water Quality	Poland Brook	[the most upstream North Poland Road crossing (near Bullitt Road), Conway]	42.504077	-72.747021
W1702	MassDEP	Water Quality	Poland Brook	[just upstream of confluence with South River, east of North Poland Road, Conway]	42.512526	-72.743487

Bacteria Data

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

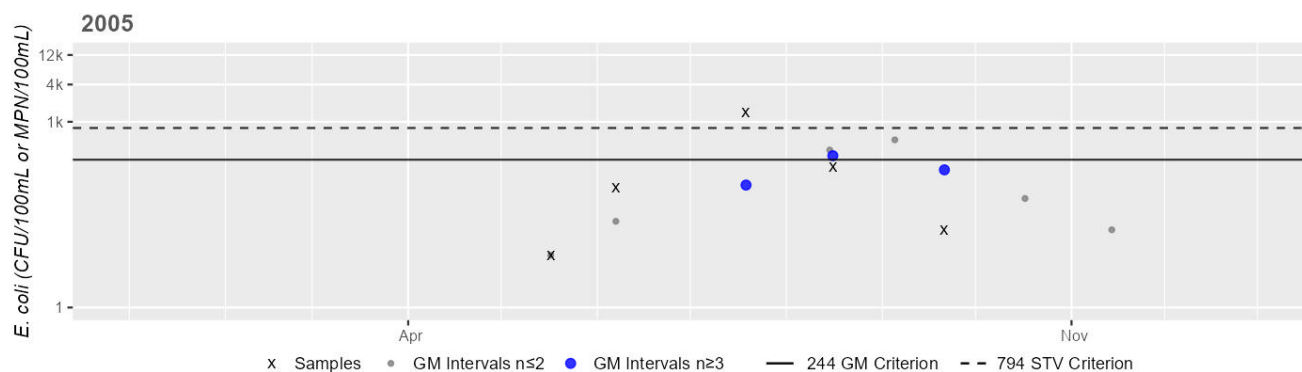
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1361	MassDEP	E. coli	05/17/05	09/21/05	5	7	1410	77
W1702	MassDEP	E. coli	07/20/06	08/14/06	2	22	24	22

Station MASSDEP_W1361 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	77
#GMI	3
#GMI Ex	1
%GMI Ex	33%
n>STV	1
%n>STV	20%

Cumulative %GMI Exceedance

Historic (1997-2010)

33%

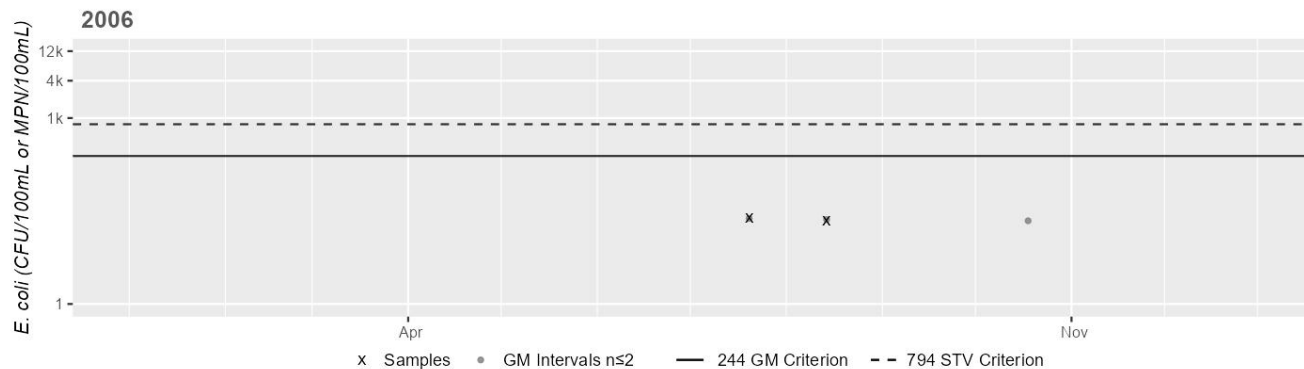
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;

%GMI Ex = % GMI Exceedances; 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_W1702 - Escherichia coli

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



Variable*	Result
Samples	2
SeasGM	22
#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 Exceedances;
 %GMI Ex = % GMI Exceedances; 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.

Potash Brook (MA33-75)

Location:	Headwaters, Cranberry Swamp, Hawley (drains wetland) to confluence with Mill Brook, Hawley.
AU Type:	RIVER
AU Size:	1.4 MILES
Classification/Qualifier:	B

No usable data were available for Potash Brook (MA33-75) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

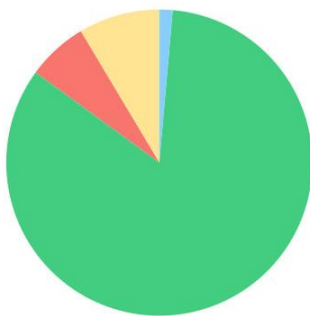
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Pumpkin Hollow Brook (MA33-32)

Location:	Headwaters north of Conway State Forest and south of Old Cricket Hill Road, Conway to confluence with South River, Conway.
AU Type:	RIVER
AU Size:	2.3 MILES
Classification/Qualifier:	B

Pumpkin Hollow Brook (MA33-32)

Watershed Area: 1.60 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	1.60	1.60	0.52	0.52
Agriculture	8.6%	8.6%	11.5%	11.5%
Developed	6.4%	6.4%	8.5%	8.5%
Natural	83.6%	83.6%	76.2%	76.2%
Wetland	1.4%	1.4%	3.8%	3.8%
Impervious	2.9%	2.9%	4.4%	4.4%

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, so the Fish Consumption Use for Pumpkin Hollow Brook (MA33-32) 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 Pumpkin Hollow Brook (MA33-32) 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 Pumpkin Hollow Brook (MA33-32) 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 Pumpkin Hollow Brook (MA33-32) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in Pumpkin Hollow Brook (MA33-32) at W1703 [Academy Hill Rd, Conway] from Jul-Aug 2006 (n=2). The historic <i>E. coli</i> data at W1703 are too limited to assess according to the 2024 CALM. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1703	MassDEP	Water Quality	Pumpkin Hollow Brook	[Academy Hill Road, Conway]	42.507449	-72.697691

Bacteria Data

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

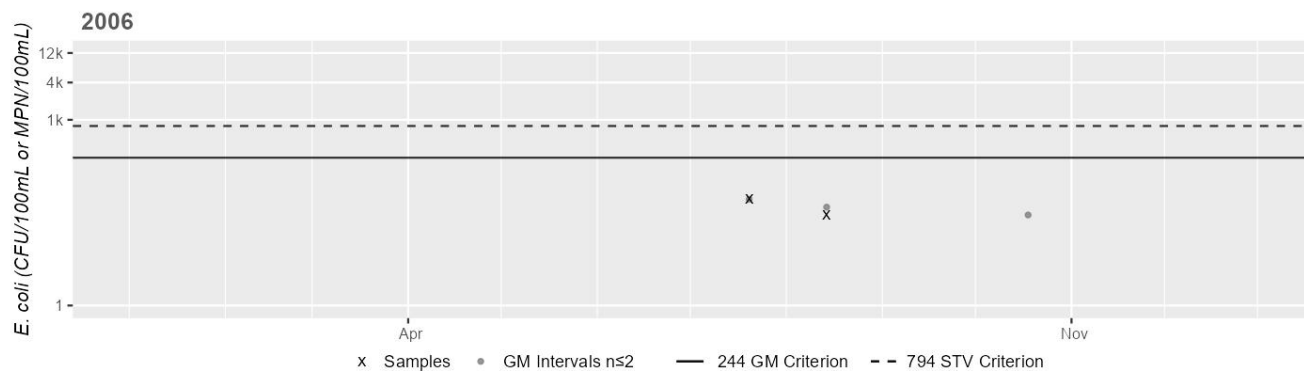
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1703	MassDEP	E. coli	07/20/06	08/14/06	2	29	52	38

Station MASSDEP_W1703 - Escherichia coli

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



Variable*	Result
Samples	2
SeasGM	38
#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 Exceedances;
 %GMI Ex = % GMI Exceedances; 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.

Punch Brook (MA33-100)

Location:	Headwaters, perennial portion east of Smead Road, Shelburne to confluence with Green River, Greenfield.
AU Type:	RIVER
AU Size:	2.1 MILES
Classification/Qualifier:	B

No usable data were available for Punch Brook (MA33-100) 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

Rice Brook (MA33-125)

Location:	Perennial portion east of Legate Hill Road, Charlemont to confluence with Deerfield River, Charlemont.
AU Type:	RIVER
AU Size:	3.1 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Rice Brook (MA33-125) 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

Rice Brook (MA33-76)

Location:	Headwaters, north of Hazelton Road, Rowe to confluence with Pelham Brook, Rowe.
AU Type:	RIVER
AU Size:	1.2 MILES
Classification/Qualifier:	B

No usable data were available for Rice Brook (MA33-76) 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

Roberts Brook (MA33-77)

Location:	Headwaters, east of Hosmer Road, Heath to confluence with West Branch North River, Colrain.
AU Type:	RIVER
AU Size:	1 MILES
Classification/Qualifier:	B

No usable data were available for Roberts Brook (MA33-77) 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

Ross Brook (MA33-78)

Location:	Headwaters, south of Tannery Road, Savoy to confluence with Tannery Brook, Savoy.
AU Type:	RIVER
AU Size:	2 MILES
Classification/Qualifier:	B

No usable data were available for Ross Brook (MA33-78) 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

Ruddock Brook (MA33-79)

Location:	Headwaters, west of Dodge Corner Road, Hawley to confluence with Clesson Brook, Buckland.
AU Type:	RIVER
AU Size:	1.1 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Ruddock Brook (MA33-79) 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

Sanders Brook (MA33-80)

Location:	Vermont/Massachusetts border, Heath to confluence with West Branch North River, Colrain.
AU Type:	RIVER
AU Size:	2.8 MILES
Classification/Qualifier:	B

No usable data were available for Sanders Brook (MA33-80) 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

Schneck Brook (MA33-113)

Location:	Headwaters, north of Wilder Hill Road, Conway to confluence with the Deerfield River, Conway.
AU Type:	RIVER
AU Size:	2 MILES
Classification/Qualifier:	B

No usable data were available for Schneck Brook (MA33-113) 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

Sheldon Brook (MA33-81)

Location:	Headwaters, south of Old Albany Road, Shelburne to confluence with Deerfield River, Deerfield/Greenfield.
AU Type:	RIVER
AU Size:	1.4 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Sheldon Brook (MA33-81) 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

Sherman Reservoir (MA33018)

Location:	Massachusetts portion only. Rowe/Monroe.
AU Type:	FRESHWATER LAKE
AU Size:	72 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Mercury in Fish Tissue	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Mercury in Fish Tissue	Atmospheric Deposition (N)	--	X	--	--	--
Mercury in Fish Tissue	Source Unknown (N)	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	No

2024/26 Use Attainment Summary
The Fish Consumption Use for Sherman Reservoir (MA33018) continues to be assessed as Not Supporting and the prior Mercury in Fish Tissue impairment is being carried forward. DPH included a site-specific advisory for Sherman Reservoir in their January 2025 Fish Consumption Advisory List. 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.

Aesthetic

2024/26 Use Attainment	Alert
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Not Assessed	NO
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2024/26 Use Attainment Summary	
No data are available, so the Aesthetics Use for Sherman Reservoir (MA33018) 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 Sherman Reservoir (MA33018) are available, so the Primary Contact Recreation Use is Not Assessed.	

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

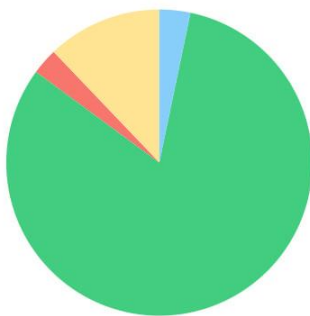
2024/26 Use Attainment Summary	
No bacteria or other indicator data for Sherman Reservoir (MA33018) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.	

Shingle Brook (MA33-22)

Location:	Headwaters north of Guy Manners Road, Shelburne to confluence with the Deerfield River, Deerfield.
AU Type:	RIVER
AU Size:	2.8 MILES
Classification/Qualifier:	B

Shingle Brook (MA33-22)

Watershed Area: 1.67 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	1.67	1.67	0.44	0.44
Agriculture	12.1%	12.1%	22.9%	22.9%
Developed	2.8%	2.8%	4.4%	4.4%
Natural	81.8%	81.8%	63.9%	63.9%
Wetland	3.3%	3.3%	8.8%	8.8%
Impervious	1.4%	1.4%	2.4%	2.4%

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, so the Fish Consumption Use for Shingle Brook (MA33-22) 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 Shingle Brook AU (MA33-22), 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 for Shingle Brook (MA33-22) 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 Shingle Brook (MA33-22) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in Shingle Brook (MA33-22) at W1363 [Hawks Rd, Shelburne] from May-Sep 2005 (n=5). Analysis of this historic single year limited frequency <i>E. coli</i> dataset from W1363 indicated 66% of intervals had GMs >244 CFU/100ml, 1 sample exceeded the 794 CFU/100ml STV, and the overall GM was 106 CFU/100ml. Historic <i>E. coli</i> data from W1363 are inconclusive according to the 2024 CALM to assess the Secondary Contact Recreation Use because this single year, limited frequency dataset included both GMs below the threshold and STV exceedance of the threshold. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1363	MassDEP	Water Quality	Shingle Brook	[Hawks Road, Shelburne]	42.555263	-72.659172

Bacteria Data

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

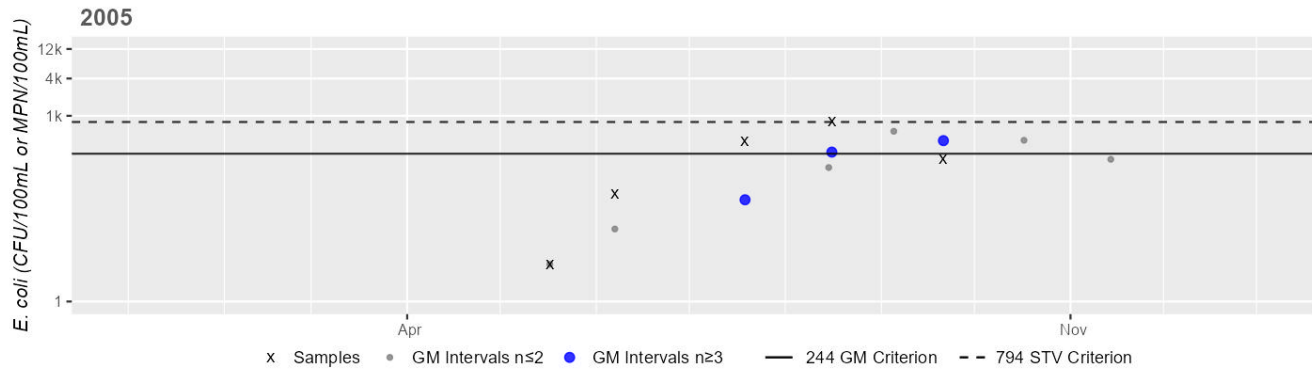
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1363	MassDEP	E. coli	05/17/05	09/21/05	5	4	816	106

Station MASSDEP_W1363 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	106
#GMI	3
#GMI Ex	2
%GMI Ex	66%
n>STV	1
%n>STV	20%

Cumulative %GMI Exceedance
Historic (1997-2010)

66%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; 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.

Sids Brook (MA33-82)

Location:	Headwaters, perennial portion north of Baptist Corner Road, Ashfield to confluence with Drakes Brook, Conway.
AU Type:	RIVER
AU Size:	1.7 MILES
Classification/Qualifier:	B

No usable data were available for Sids Brook (MA33-82) 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

Sluice Brook (MA33-83)

Location:	Headwaters, north of Tower Road, Shelburne to confluence with Deerfield River, Shelburne.
AU Type:	RIVER
AU Size:	3.3 MILES
Classification/Qualifier:	B

No usable data were available for Sluice Brook (MA33-83) 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

Smead Brook (MA33-84)

Location:	Headwaters, east of Old Albany Road, Greenfield to confluence with Wheeler Brook, Greenfield.
AU Type:	RIVER
AU Size:	1.7 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Smead Brook (MA33-84) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

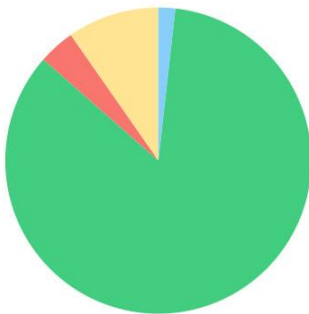
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Smith Brook (MA33-26)

Location:	Headwaters, outlet Upper Reservoir, Ashfield to confluence with Clesson Brook, Buckland.
AU Type:	RIVER
AU Size:	2.7 MILES
Classification/Qualifier:	B

Smith Brook (MA33-26)

Watershed Area: 5.78 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	5.78	5.78	1.76	1.76
Agriculture	9.7%	9.7%	9.7%	9.7%
Developed	3.8%	3.8%	5.9%	5.9%
Natural	84.7%	84.7%	79.8%	79.8%
Wetland	1.8%	1.8%	4.6%	4.6%
Impervious	1.7%	1.7%	2.8%	2.8%

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, so the Fish Consumption Use for Smith Brook (MA33-26) 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 Smith Brook (MA33-26) 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 Smith Brook (MA33-26) 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 Smith Brook (MA33-26) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in Smith Brook (MA33-26) at W1360 [~300 ft upstream of Ashfield Rd (Rt. 112), Buckland] from May-Sep 2005 (n=5). Analysis of this historic single year limited frequency <i>E. coli</i> dataset from W1360 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 53 CFU/100ml. Historic <i>E. coli</i> data from W1360 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1360	MassDEP	Water Quality	Smith Brook	[approximately 300 feet upstream of Ashfield Road (Route 112), Buckland]	42.566988	-72.801450

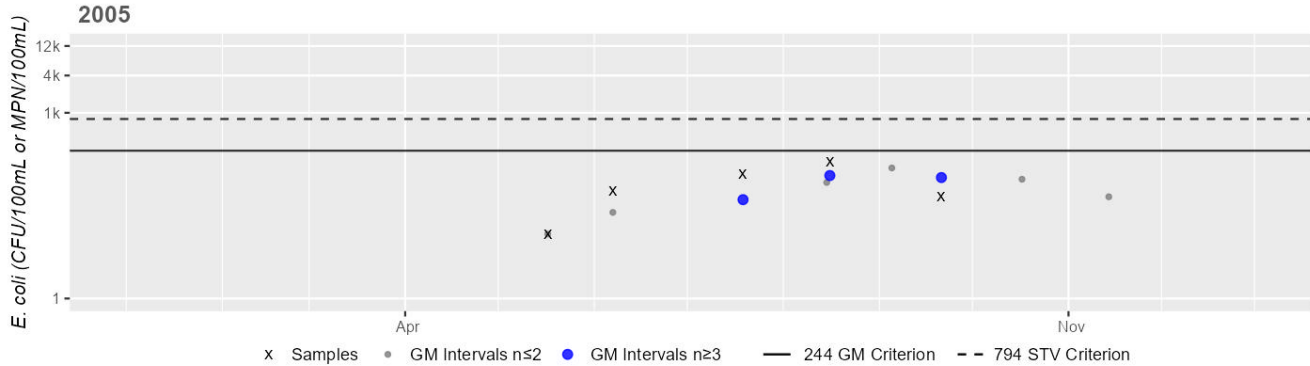
Bacteria Data

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
W1360	MassDEP	E. coli	05/17/05	09/21/05	5	11	162	53

Station MASSDEP_W1360 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	53
#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 Exceedances;
%GMI Ex = % GMI Exceedances; 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.

South Pond (MA33019)

Location:	Savoy.
AU Type:	FRESHWATER LAKE
AU Size:	29 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	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 recently, so the Fish Consumption Use for South Pond (MA33019) 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 South Pond (MA33019) 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 South Pond (MA33019) 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

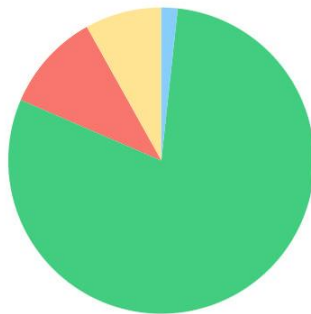
No bacteria or other indicator data for South Pond (MA33019) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

South River (MA33-07)

Location:	Headwaters, outlet Ashfield Pond, Ashfield to Emmets Road, Ashfield.
AU Type:	RIVER
AU Size:	2.3 MILES
Classification/Qualifier:	B: CWF

South River (MA33-07)

Watershed Area: 2.06 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	2.06	2.06	0.59	0.59
Agriculture	8.1%	8.1%	2.4%	2.4%
Developed	10.4%	10.4%	12.9%	12.9%
Natural	79.8%	79.8%	79.5%	79.5%
Wetland	1.7%	1.7%	5.2%	5.2%
Impervious	4.7%	4.7%	6.5%	6.5%

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	Dam or Impoundment (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, so the Fish Consumption Use for South River (MA33-07) 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 South River AU (MA33-07), 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 for the South River (MA33-07) 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 the South River (MA33-07) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected *E. coli* bacteria samples in the South River (MA33-07) from 2005-2006 at 5 stations. Samples were collected from the following stations/sample years from upstream to downstream: W1709 [~370 ft upstream of Buckland Rd (immediately downstream of suspect pipe behind apartments below Ashfield Lake), Ashfield] from Jul-Aug 2006 (n=2), W1710 [~500 ft upstream of Buckland Rd (below outlet of Ashfield Lake), Ashfield] from Jul-Aug 2006 (n=2), W0015 [at emergence of underground culvert, downstream at Buckland Rd, Ashfield] from Jul-Aug 2006 (n=2), W0016 [Bronson Avenue, Ashfield] from Jul-Aug 2006 (n=2), W0013 [Emmets Rd, Ashfield] from 2005-2006 (n=2-5/yr). Analysis of this historic single year limited frequency *E. coli* dataset from W0013 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 111 CFU/100ml. Historic *E. coli* data from W1709, W1710, W0015, and W0016 are too limited according to the 2024 CALM to assess the Secondary Contact Recreation Use. Historic *E. coli* data from W0013 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0013	MassDEP	Water Quality	South River	[Emmets Road, Ashfield]	42.521878	-72.780510
W0015	MassDEP	Water Quality	South River	[at emergence of underground culvert, downstream at Buckland Road, Ashfield]	42.527573	-72.796242
W0016	MassDEP	Water Quality	South River	[Bronson Avenue, Ashfield]	42.527292	-72.793962
W1709	MassDEP	Water Quality	South River	[approximately 370 feet upstream of Buckland Road (immediately downstream of suspect pipe behind apartments below Ashfield Lake), Ashfield]	42.528268	-72.797622
W1710	MassDEP	Water Quality	South River	[approximately 500 feet upstream of Buckland Road (below outlet of Ashfield Lake), Ashfield]	42.528580	-72.798001

Bacteria Data

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

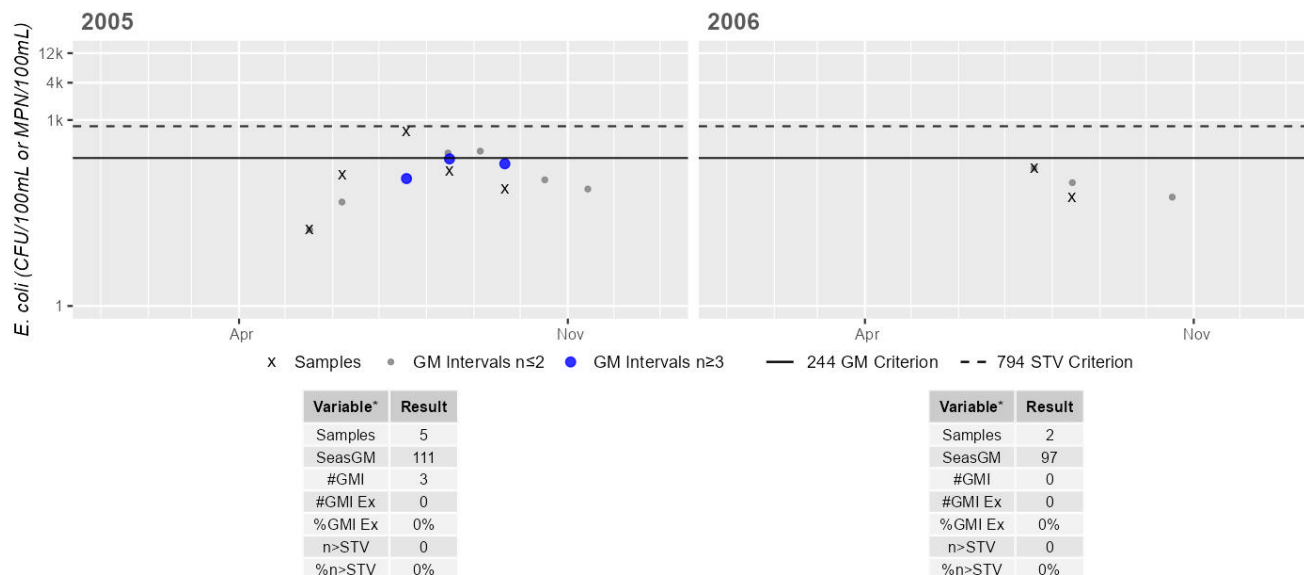
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W0013	MassDEP	E. coli	05/17/05	09/21/05	5	17	649	111
W0013	MassDEP	E. coli	07/20/06	08/14/06	2	57	167	97
W0015	MassDEP	E. coli	07/20/06	08/14/06	2	21	30	25
W0016	MassDEP	E. coli	07/20/06	08/14/06	2	59	132	88
W1709	MassDEP	E. coli	07/20/06	08/14/06	2	58	69	63
W1710	MassDEP	E. coli	07/20/06	08/14/06	2	23	36	28

Station MASSDEP_W0013 - *Escherichia coli*

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



Cumulative %GMI Exceedance

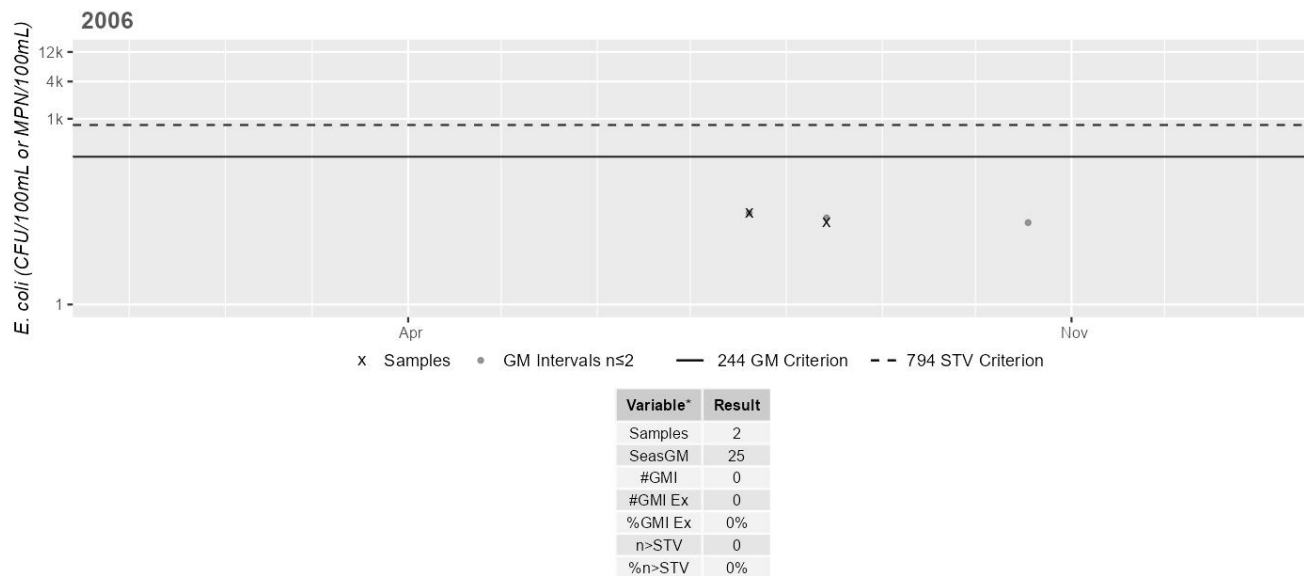
Historic (1997-2010)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; 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_W0015 - *Escherichia coli*

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



Cumulative %GMI Exceedance

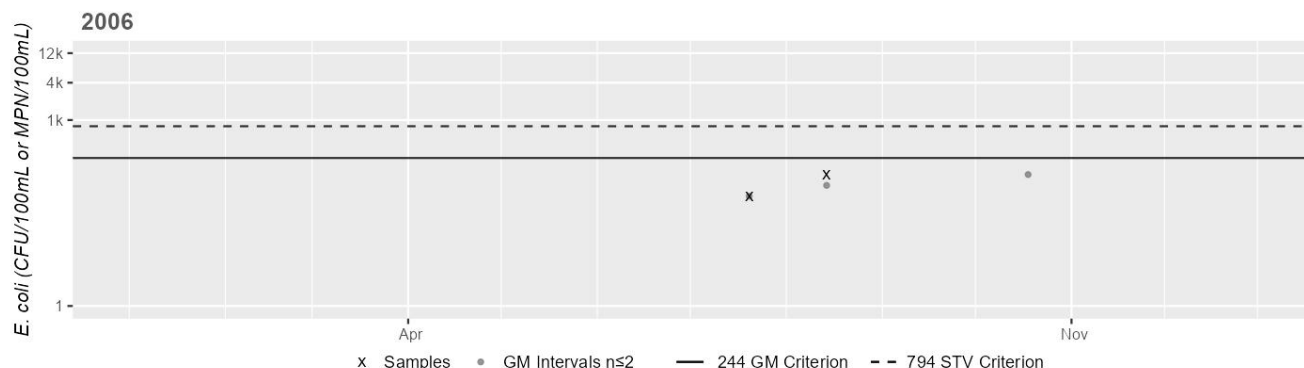
Historic (1997-2010)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; 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_W0016 - *Escherichia coli*

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



Variable*	Result
Samples	2
SeasGM	88
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

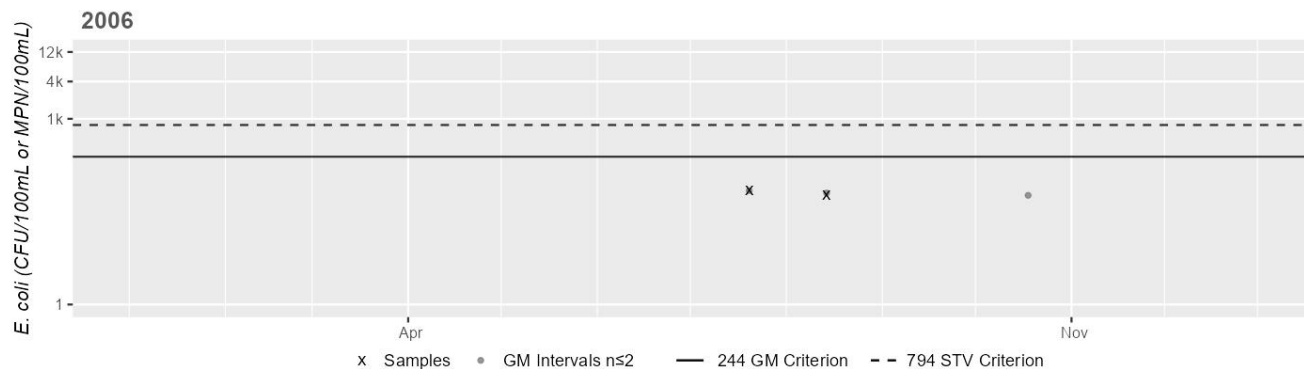
Historic (1997-2010)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; 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_W1709 - *Escherichia coli*

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



Variable*	Result
Samples	2
SeasGM	63
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

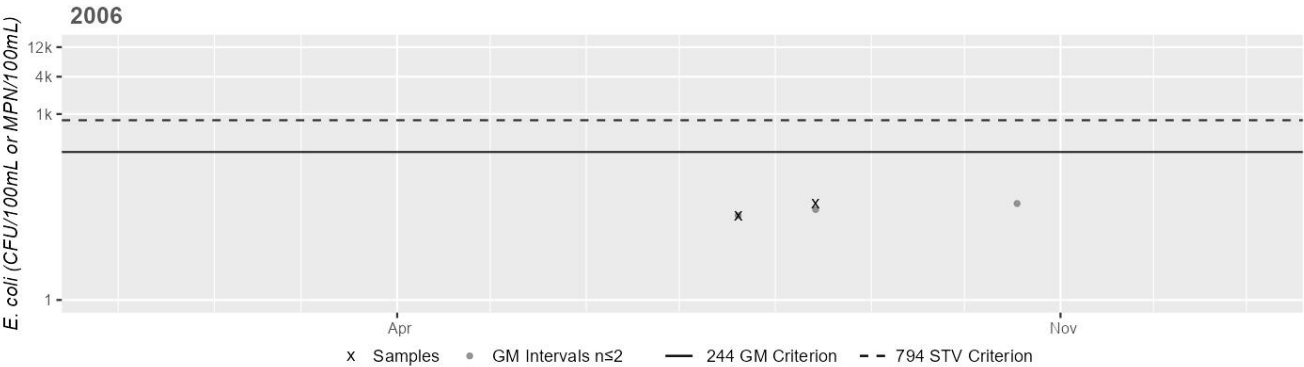
Historic (1997-2010)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; 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_W1710 - Escherichia coli

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



Variable*	Result
Samples	2
SeasGM	28
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

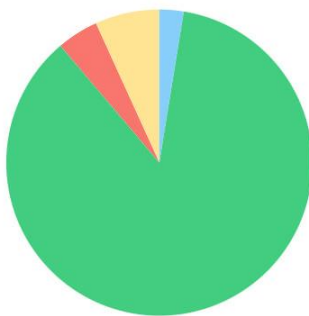
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes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

South River (MA33-101)

Location:	Emmets Road, Ashfield to confluence with Johnny Bean Brook, Conway (formerly part of 2014 segment: South River MA33-08).
AU Type:	RIVER
AU Size:	6.1 MILES
Classification/Qualifier:	B: CWF

South River (MA33-101)

Watershed Area: 18.00 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	18.00	8.27	4.93	2.43
Agriculture	6.8%	6.2%	7.9%	8.3%
Developed	4.4%	2.5%	6%	4.2%
Natural	86.3%	89.9%	80.4%	83.6%
Wetland	2.6%	1.4%	5.7%	3.9%
Impervious	2%	1.2%	3%	2.3%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	4a	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed
5	4a	Fecal Coliform	R1_MA_2024_04	Changed

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	--
Fecal Coliform	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)
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, so the Fish Consumption Use for South River (MA33-101) 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 South River (MA33-101) is Not Assessed.	

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO
2024/26 Use Attainment Summary	
No bacteria or other indicator data for the South River (MA33-101) are available, so the Primary Contact Recreation Use continues to be assessed as Not Supporting. The prior <i>Escherichia coli</i> (<i>E. coli</i>) and Fecal Coliform impairments are being carried forward.	

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
<p>No bacteria or other indicator data for the South River (MA33-101) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in the South River (MA33-101) in 2006 at 3 stations. Samples were collected from the following stations/sample years from upstream to downstream: W0756 [Bullitt Rd, Ashfield] from Jul-Aug 2006 (n=2), W1708 [just upstream of N Poland Rd (out of influence of bridge crossing), Conway] from Jul-Aug 2006 (n=2), W1707 [~800 ft upstream from the Burkeville Covered Bridge on Main Poland Rd, Conway] from Jul-Aug 2006 (n=2). Historic <i>E. coli</i> data from W0756, W1708, and W1707 are too limited according to the 2024 CALM to assess the Secondary Contact Recreation Use. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0756	MassDEP	Water Quality	South River	[Bullitt Road, Ashfield]	42.508889	-72.763882
W1707	MassDEP	Water Quality	South River	[approximately 800 feet upstream from the Burkeville Covered Bridge on Main Poland Road, Conway]	42.509772	-72.712194
W1708	MassDEP	Water Quality	South River	[just upstream of North Poland Road (out of influence of bridge crossing), Conway]	42.512768	-72.743850

Bacteria Data

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

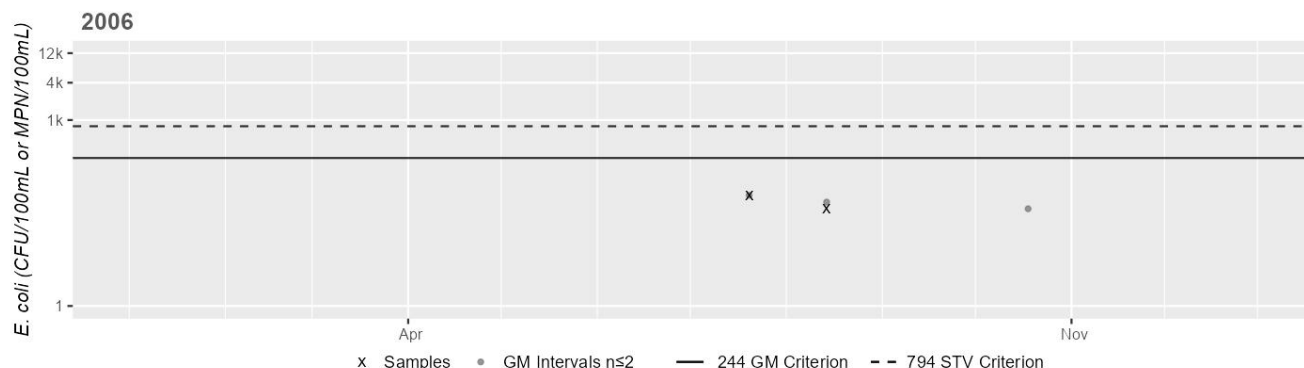
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W0756	MassDEP	E. coli	07/20/06	08/14/06	2	37	61	47
W1707	MassDEP	E. coli	07/20/06	08/14/06	2	64	78	70
W1708	MassDEP	E. coli	07/20/06	08/14/06	2	114	488	235

Station MASSDEP_W0756 - *Escherichia coli*

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



Variable*	Result
Samples	2
SeasGM	47
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

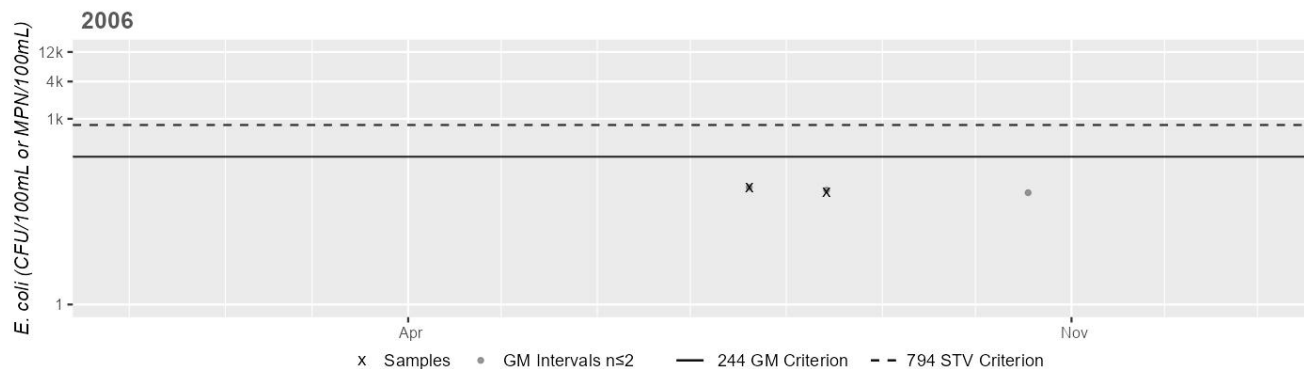
Historic (1997-2010)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; 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_W1707 - *Escherichia coli*

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



Variable*	Result
Samples	2
SeasGM	70
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

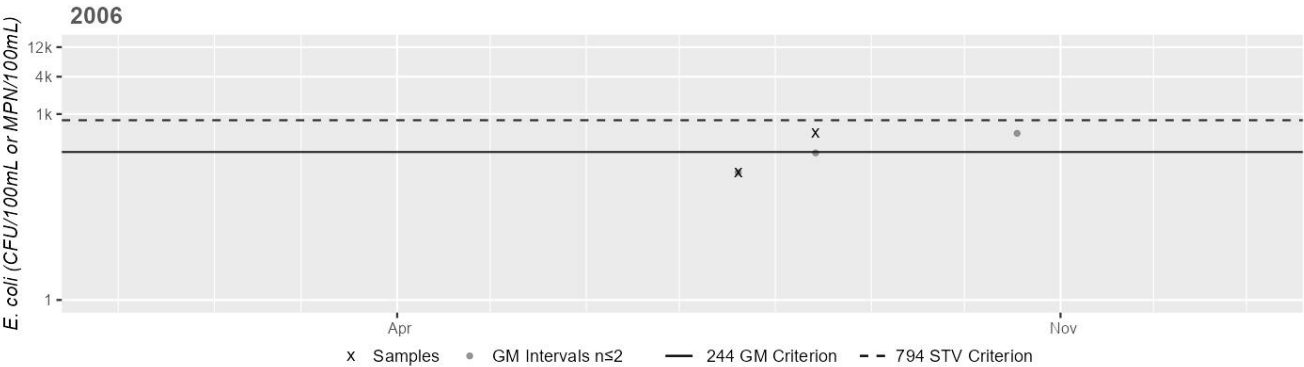
Historic (1997-2010)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; 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_W1708 - Escherichia coli

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



Variable*	Result
Samples	2
SeasGM	235
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

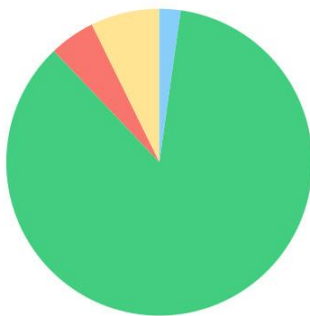
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes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

South River (MA33-102)

Location:	From confluence with Johnny Bean Brook, Conway to confluence with Deerfield River, Conway (formerly part of 2014 segment: South River MA33-08) (through former 2008 segment: South River Impoundment MA33022).
AU Type:	RIVER
AU Size:	6.9 MILES
Classification/Qualifier:	B

South River (MA33-102)

Watershed Area: 26.28 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	26.28	5.13	7.08	1.02
Agriculture	7.3%	8.2%	8%	8.7%
Developed	4.8%	5.9%	6.8%	10.3%
Natural	85.7%	84.4%	79.8%	75.8%
Wetland	2.2%	1.5%	5.4%	5.3%
Impervious	2.2%	2.4%	3.3%	4.2%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Physical Substrate Habitat Alterations*)	--	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
(Physical Substrate Habitat Alterations*)	Source Unknown (N)	X	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	X
Fecal Coliform	Source Unknown (N)	--	--	--	X	--
Temperature	Agriculture (N)	X	--	--	--	--
Temperature	Dam or Impoundment (N)	X	--	--	--	--
Temperature	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)
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, so the Fish Consumption Use for South River (MA33-102) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for this South River AU (MA33-102) is assessed as Fully Supporting based on the general lack of objectionable conditions noted by MassDEP sampling crews during the summer of 2012. MassDEP staff recorded aesthetics observations at one station close to the upstream end of this South River AU ~400 feet upstream of Main St. (Rt. 116), Conway (~200 feet upstream of confluence of Pumpkin Hollow Brook) (W2260) during summer 2012 (n=6) as part of the MAP2 Probabilistic Wadeable Streams 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
W2260	MassDEP	Water Quality	South River	[approximately 400 feet upstream of Main Street (Route 116), Conway (approximately 200 feet upstream of confluence of Pumpkin Hollow Brook)]	42.508302	-72.698707

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
W2260	2012	6	Aesthetic observations were made by MassDEP field sampling crews at Station W2260 on South River (MA33-102) during 6 site visits between May 2012 and Sep 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
W2260	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
W2260	South River	2012	Aquatic Plant Density, Overall	None	6	6
W2260	South River	2012	Color	None	6	6
W2260	South River	2012	Objectionable Deposits	No	6	6
W2260	South River	2012	Odor	None	6	6
W2260	South River	2012	Periphyton Density, Filamentous	None	6	6

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2260	South River	2012	Periphyton Density, Film	Moderate	1	6
W2260	South River	2012	Periphyton Density, Film	None	5	6
W2260	South River	2012	Scum	No	5	6
W2260	South River	2012	Scum	Yes	1	6
W2260	South River	2012	Turbidity	None	5	6
W2260	South River	2012	Turbidity	Slightly Turbid	1	6

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
<p>The Primary Contact Recreation Use for the South River (MA33-102) continues to be assessed as Not Supporting. The prior <i>Escherichia coli</i> (<i>E. coli</i>) impairment is being carried forward based on bacteria data not meeting the threshold at CRC_MA-SOU_02.4. The prior Fecal Coliform impairment is being carried forward. CRC and MassDEP staff/volunteers collected <i>E. coli</i> bacteria samples in the South River (MA33-102) from 2012-2022 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: W2260 [~400 ft upstream of Main St (Rt. 116), Conway (~200 ft upstream of confluence of Pumpkin Hollow Brook)] from May-Sep 2012 (n=6), CRC_MA-SOU_02.4 [Off Reeds Bridge Rd, Conway] from 2019-2022 (n=5-6/yr). Analysis of the single year limited frequency <i>E. coli</i> dataset from W2260 indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 91 CFU/100ml. Analysis of the multi-year limited frequency <i>E. coli</i> dataset from CRC_MA-SOU_02.4 indicated 4 out of 4 sufficient data yrs had intervals where >20% of the GMs were >126 CFU/100ml (2019-2022, 20-100%), 1 yr had ≥2 samples exceed the 410 CFU/100ml STV (2019, n=3), and cumulatively across years 76% of intervals had GMs >126 CFU/100ml. While <i>E. coli</i> data from W2260 meet 2024 CALM guidance, <i>E. coli</i> data from CRC_MA-SOU_02.4 are indicative of an <i>E. coli</i> impairment.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CRC_MA-SOU_02.4	Connecticut River Conservancy	Water Quality	South River	Off Reeds Bridge Rd, Conway	42.541310	-72.690065
W2260	MassDEP	Water Quality	South River	[approximately 400 feet upstream of Main Street (Route 116), Conway (approximately 200 feet upstream of confluence of Pumpkin Hollow Brook)]	42.508302	-72.698707

Bacteria Data

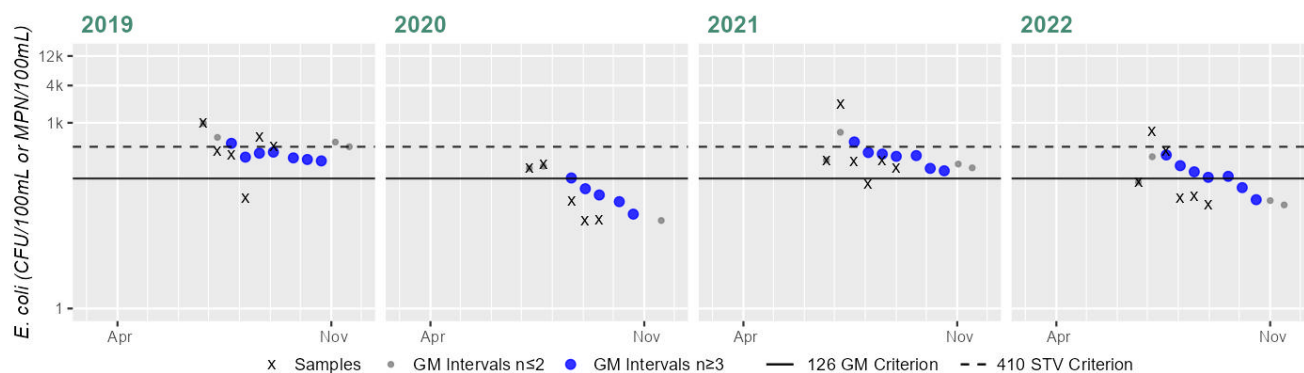
Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (CRC 2023) (MassDEP Undated 2) (MassDEP Undated 6) (MassDEP Undated 4)

[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
CRC_MA-SOU_02.4	Connecticut River Conservancy	E. coli	06/26/19	09/04/19	6	59	980	335
CRC_MA-SOU_02.4	Connecticut River Conservancy	E. coli	07/08/20	09/16/20	5	25	214	68
CRC_MA-SOU_02.4	Connecticut River Conservancy	E. coli	06/23/21	09/01/21	6	101	1986	286
CRC_MA-SOU_02.4	Connecticut River Conservancy	E. coli	06/22/22	08/31/22	6	47	727	131
W2260	MassDEP	E. coli	05/17/12	09/20/12	6	42	186	91

Station CRC_MA-SOU_02.4 - *Escherichia coli*

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



Variable*	Result
Samples	6
SeasGM	335
#GMI	7
#GMI Ex	7
%GMI Ex	100%
n>STV	3
%n>STV	50%

Variable*	Result
Samples	5
SeasGM	68
#GMI	5
#GMI Ex	1
%GMI Ex	20%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	286
#GMI	7
#GMI Ex	7
%GMI Ex	100%
n>STV	1
%n>STV	16%

Variable*	Result
Samples	6
SeasGM	131
#GMI	7
#GMI Ex	5
%GMI Ex	71%
n>STV	1
%n>STV	16%

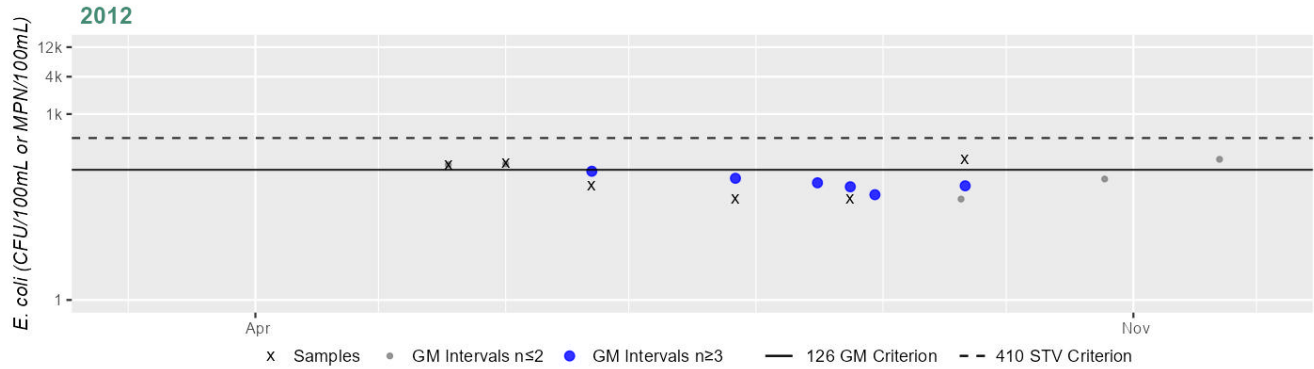
Cumulative %GMI Exceedance
Current (2011-2022)

76%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances, 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_W2260 - *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 Exceedances;
 %GMI Ex = % GMI Exceedances; 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 the South River (MA33-102) is assessed as Not Supporting. An *Escherichia coli* (*E. coli*) impairment is being added due to bacteria data not meeting the threshold at CRC_MA-SOU_02.4. CRC and MassDEP staff/volunteers collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in the South River (MA33-102) from 2005-2022 at 6 stations. Samples were collected from the following stations/sample years from upstream to downstream: W2260 [~400 ft upstream of Main St (Rt. 116), Conway (~200 ft upstream of confluence of Pumpkin Hollow Brook)] from May-Sep 2012 (n=6), W1706 [downstream of Rt. 116, in the mixing zone from outfall pipe on the northwestern shore, Conway] from Jul-Aug 2006 (n=2), W1705 [~1500 ft upstream of Reeds Bridge Rd, Conway] from Jul-Aug 2006 (n=2), W0008 [at USGS Gage #01169900 near Reeds Bridge Rd, Conway] from 2005-2006 (n=2-5/yr), CRC_MA-SOU_02.4 [Off Reeds Bridge Rd, Conway] from 2019-2022 (n=5-6/yr), W1704 [~50 ft upstream of the confluence with the Deerfield River, Conway] from Jul-Aug 2006 (n=2). Analysis of the single year limited frequency *E. coli* dataset from W2260 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 91 CFU/100ml. Analysis of the multi-year limited frequency *E. coli* dataset from CRC_MA-SOU_02.4 indicated 2 out of 4 sufficient data yrs had intervals where >20% of the GMs were >244 CFU/100ml (2019 and 2021, 85 & 71%), 0 yrs had ≥2 samples exceed the 794 CFU/100ml STV, and cumulatively across years 46% of intervals had GMs >244 CFU/100ml. While *E. coli* data from W2260 meet 2024 CALM guidance, *E. coli* data from CRC_MA-SOU_02.4 are indicative of an *E. coli* impairment.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CRC_MA-SOU_02.4	Connecticut River Conservancy	Water Quality	South River	Off Reeds Bridge Rd, Conway	42.541310	-72.690065
W0008	MassDEP	Water Quality	South River	[at USGS Gage #01169900 near Reeds Bridge Road, Conway]	42.541850	-72.694038
W1704	MassDEP	Water Quality	South River	[approximately 50 feet upstream of the confluence with the Deerfield River, Conway]	42.540864	-72.657191
W1705	MassDEP	Water Quality	South River	[approximately 1500 feet upstream of Reeds Bridge Road, Conway]	42.517648	-72.696765
W1706	MassDEP	Water Quality	South River	[downstream of Route 116, in the mixing zone from outfall pipe on the northwestern shore, Conway]	42.509155	-72.698010
W2260	MassDEP	Water Quality	South River	[approximately 400 feet upstream of Main Street (Route 116), Conway (approximately 200 feet upstream of confluence of Pumpkin Hollow Brook)]	42.508302	-72.698707

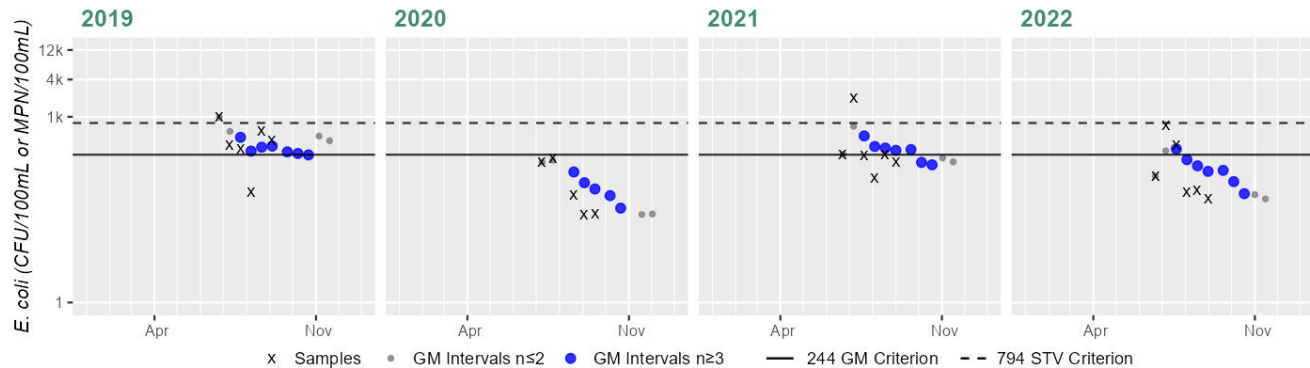
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis) (CRC 2023) (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
CRC_MA-SOU_02.4	Connecticut River Conservancy	E. coli	06/26/19	09/04/19	6	59	980	335
CRC_MA-SOU_02.4	Connecticut River Conservancy	E. coli	07/08/20	09/16/20	5	25	214	68
CRC_MA-SOU_02.4	Connecticut River Conservancy	E. coli	06/23/21	09/01/21	6	101	1986	286
CRC_MA-SOU_02.4	Connecticut River Conservancy	E. coli	06/22/22	08/31/22	6	47	727	131
W0008	MassDEP	E. coli	05/17/05	09/21/05	5	16	1300	165
W0008	MassDEP	E. coli	07/20/06	08/14/06	2	63	104	80
W1704	MassDEP	E. coli	07/20/06	08/14/06	2	30	59	42
W1705	MassDEP	E. coli	07/20/06	08/14/06	2	75	387	170
W1706	MassDEP	E. coli	07/20/06	08/14/06	2	72	122	93
W2260	MassDEP	E. coli	05/17/12	09/20/12	6	42	186	91

Station CRC_MA-SOU_02.4 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	335
#GMI	7
#GMI Ex	6
%GMI Ex	85%
n>STV	1
%n>STV	16%

Variable*	Result
Samples	5
SeasGM	68
#GMI	5
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	286
#GMI	7
#GMI Ex	5
%GMI Ex	71%
n>STV	1
%n>STV	16%

Variable*	Result
Samples	6
SeasGM	131
#GMI	7
#GMI Ex	1
%GMI Ex	14%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

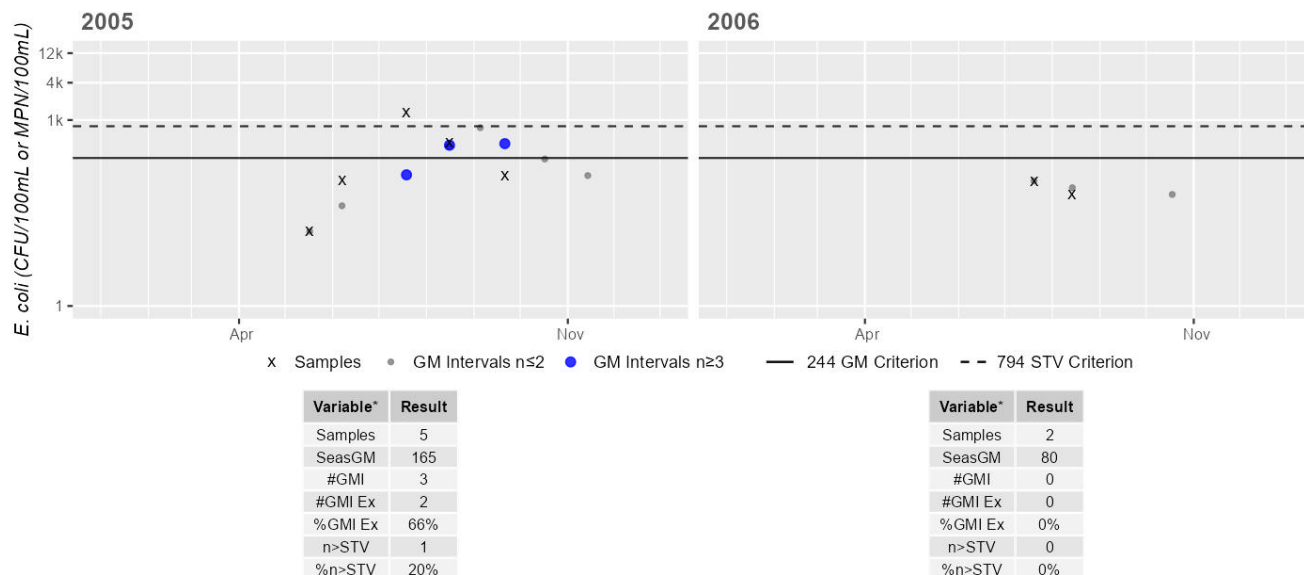
Current (2011-2022)

46%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; 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_W0008 - *Escherichia coli*

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

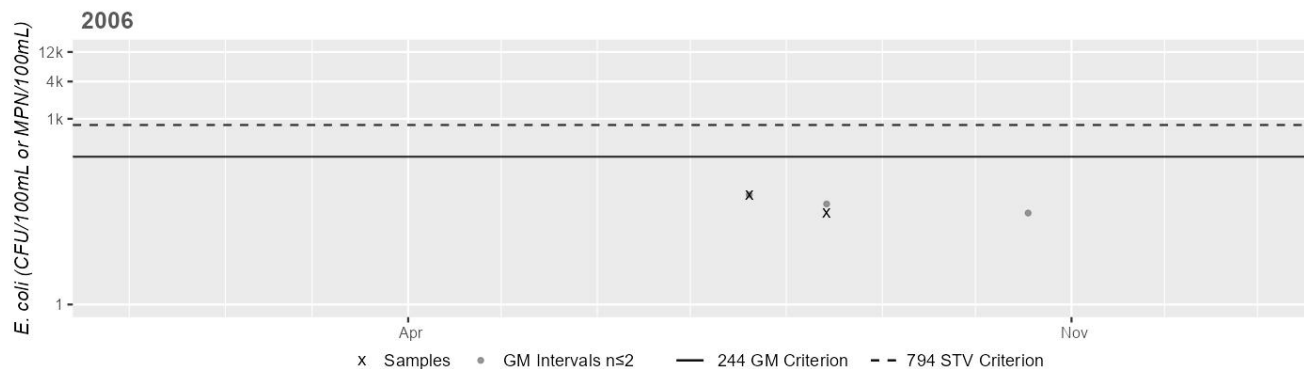


Cumulative %GMI Exceedance
Historic (1997-2010)
66%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; 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_W1704 - *Escherichia coli*

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



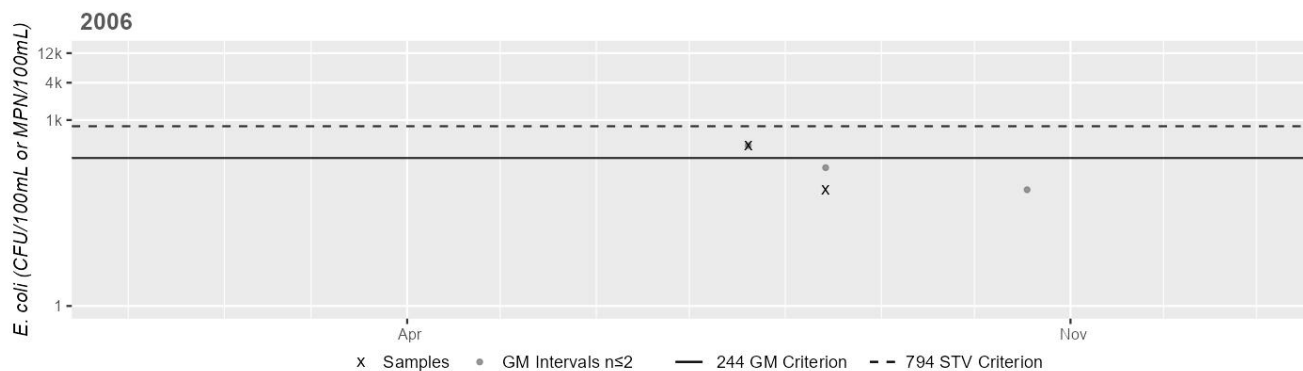
Variable*	Result
Samples	2
SeasGM	42
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; 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_W1705 - Escherichia coli

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



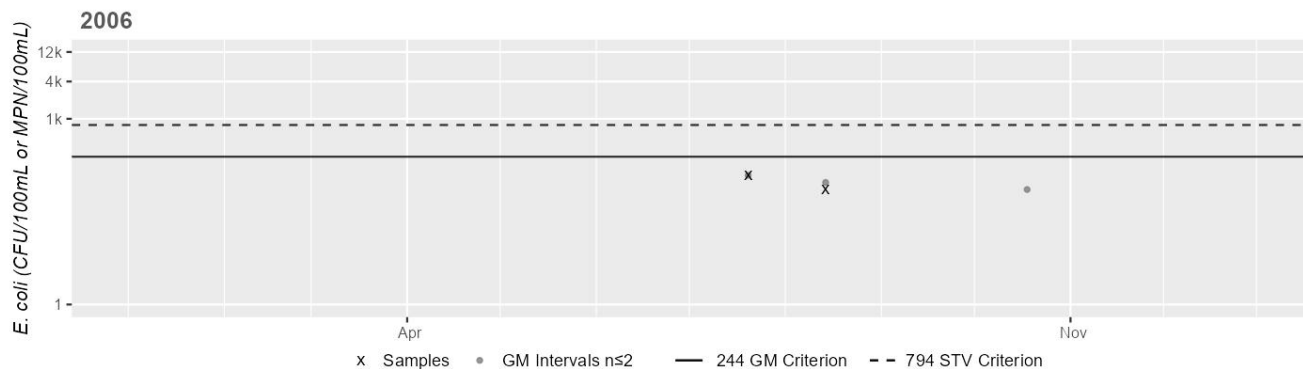
Variable*	Result
Samples	2
SeasGM	170
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; 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_W1706 - Escherichia coli

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



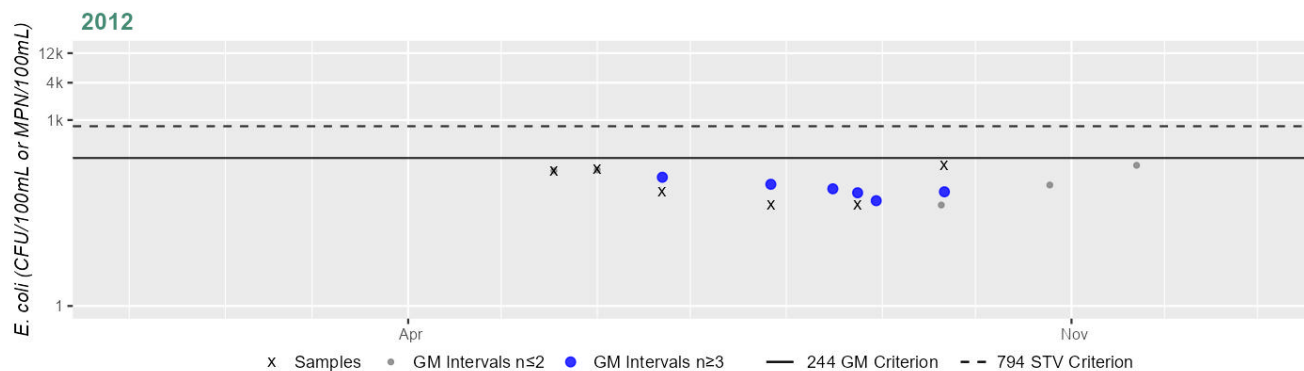
Variable*	Result
Samples	2
SeasGM	93
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; 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_W2260 - 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 Exceedances;
 %GMI Ex = % GMI Exceedances; 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.

Spur Brook (MA33-106)

Location:	Headwaters, outlet small pond just west at intersection of Christian Hill Road and Thompson Road, Colrain to confluence with East Branch North River, Colrain.
AU Type:	RIVER
AU Size:	2.1 MILES
Classification/Qualifier:	B

No usable data were available for Spur Brook (MA33-106) 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

Stafford Brook (MA33-98)

Location:	Headwaters, perennial portion south of East Colrain Road, Colrain to confluence with Green River, Colrain.
AU Type:	RIVER
AU Size:	1.4 MILES
Classification/Qualifier:	A: PWS, ORW, HQW, CWF (Tributary)

No usable data were available for Stafford Brook (MA33-98) 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

Staples Brook (MA33-121)

Location:	Headwaters east of Spruce Hill, North Adams to confluence Tower Brook, Florida.
AU Type:	RIVER
AU Size:	1.4 MILES
Classification/Qualifier:	B

No usable data were available for Staples Brook (MA33-121) 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

Steele Brook (MA33-85)

Location:	Headwaters, perennial portion north of Tunnel Road, Rowe to confluence with Pelham Brook, Rowe.
AU Type:	RIVER
AU Size:	1.7 MILES
Classification/Qualifier:	B

No usable data were available for Steele Brook (MA33-85) 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

Stewart Brook (MA33-132)

Location:	Perennial portion north of Wilson Graves Road, Shelburne to mouth at confluence with Hinsdale Brook, Shelburne.
AU Type:	RIVER
AU Size:	1 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Stewart Brook (MA33-132) 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

Tannery Brook (MA33-86)

Location:	Outlet of Tannery Pond, Savoy to confluence with Gulf Brook, Savoy.
AU Type:	RIVER
AU Size:	0.7 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Tannery Brook (MA33-86) 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

Tannery Pond (MA33020)

Location:	Savoy.
AU Type:	FRESHWATER LAKE
AU Size:	0.5 ACRES
Classification/Qualifier:	B

No usable data were available for Tannery Pond (MA33020) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

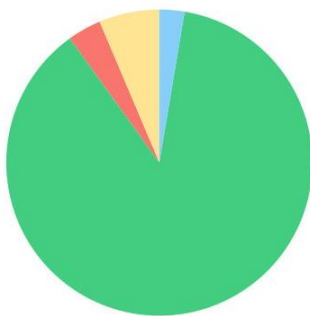
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Taylor Brook (MA33-31)

Location:	From the confluence of Kinsman Brook and Davenport Brook, Heath to confluence with West Branch North River, Colrain.
AU Type:	RIVER
AU Size:	2.6 MILES
Classification/Qualifier:	B

Taylor Brook (MA33-31)

Watershed Area: 5.18 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	5.18	5.18	1.54	1.54
Agriculture	6.4%	6.4%	5%	5%
Developed	3.6%	3.6%	5.5%	5.5%
Natural	87.4%	87.4%	86.7%	86.7%
Wetland	2.6%	2.6%	2.8%	2.8%
Impervious	1.8%	1.8%	3.1%	3.1%

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, so the Fish Consumption Use for Taylor Brook (MA33-31) 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 Taylor Brook AU (MA33-31), 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 for Taylor Brook (MA33-31) 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 Taylor Brook (MA33-31) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in Taylor Brook (MA33-31) at W1349 [most downstream crossing of Heath Rd (~2/10 mile from confluence with W Branch N River), Colrain] from May-Sep 2005 (n=5). Historic <i>E. coli</i> data from W1349 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1349	MassDEP	Water Quality	Taylor Brook	[most downstream crossing of Heath Road (approximately 2/10 mile from confluence with West Branch North River), Colrain]	42.678137	-72.741820

Bacteria Data

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

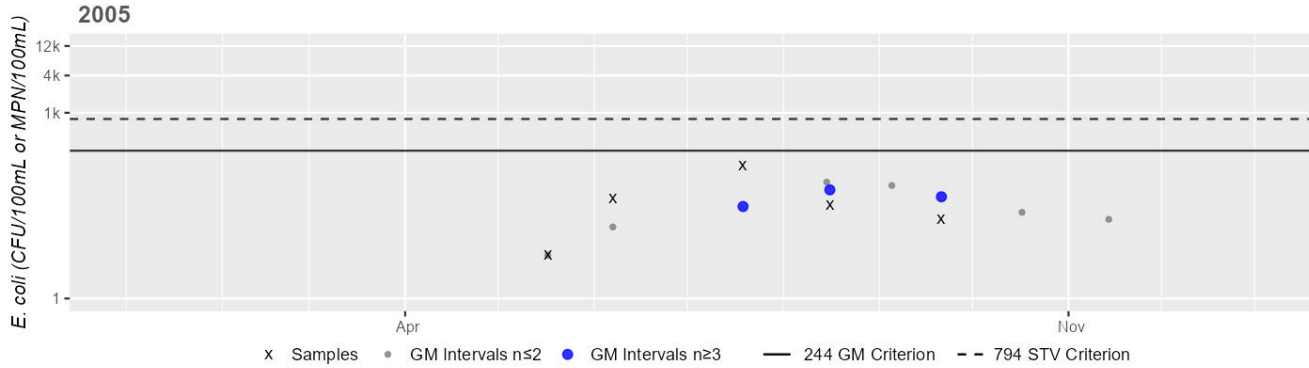
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1349	MassDEP	E. coli	05/17/05	09/21/05	5	5	140	28

Station MASSDEP_W1349 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	28
#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 Exceedances;
%GMI Ex = % GMI Exceedances; 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.

Tilton Brook (MA33-119)

Location:	Headwaters in Savoy Mountain State Forest, west of Bannis Road, Savoy to confluence with Chickley River, Savoy.
AU Type:	RIVER
AU Size:	2 MILES
Classification/Qualifier:	B

No usable data were available for Tilton Brook (MA33-119) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

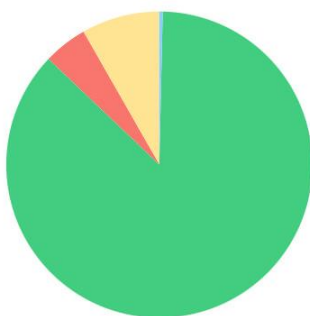
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Tissdell Brook (MA33-24)

Location:	Headwaters perennial portion east of Christian Hill Cemetary, Colrain to confluence with West Branch North River, Colrain.
AU Type:	RIVER
AU Size:	1.7 MILES
Classification/Qualifier:	B

Tissdell Brook (MA33-24)

Watershed Area: 1.73 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	1.73	1.73	0.29	0.29
Agriculture	8.3%	8.3%	5.6%	5.6%
Developed	4.6%	4.6%	1.1%	1.1%
Natural	86.8%	86.8%	93.3%	93.3%
Wetland	0.4%	0.4%	0%	0%
Impervious	1.6%	1.6%	0.6%	0.6%

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 recently, so the Fish Consumption Use for Tissdell Brook (MA33-24) 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 Tissdell Brook AU (MA33-24), 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 for Tissdell Brook (MA33-24) 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 Tissdell Brook (MA33-24) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in Tissdell Brook (MA33-24) at W1350 [Adamsville Rd, Colrain] from May-Sep 2005 (n=5). Historic <i>E. coli</i> data from W1350 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1350	MassDEP	Water Quality	Tissdell Brook	[Adamsville Road, Colrain]	42.690646	-72.757397

Bacteria Data

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

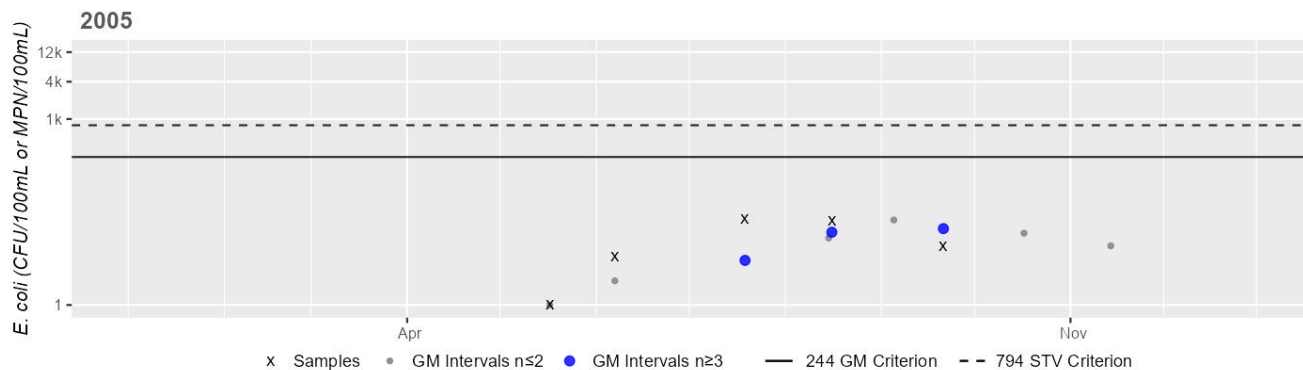
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1350	MassDEP	E. coli	05/17/05	09/21/05	5	1	24	7

Station MASSDEP_W1350 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	7
#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 Exceedances;
 %GMI Ex = % GMI Exceedances; 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.

Todd Brook (MA33-127)

Location:	Headwaters east of Coon Hill, Charlemont to confluence with Deerfield River, Charlemont.
AU Type:	RIVER
AU Size:	1.3 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Todd Brook (MA33-127) 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

Tower Brook (MA33-87)

Location:	Headwaters, west of Central Shaft Road, Florida (drains wetland) to confluence with Cold River, Florida.
AU Type:	RIVER
AU Size:	1.9 MILES
Classification/Qualifier:	B

No usable data were available for Tower Brook (MA33-87) 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

Trout Brook (MA33-88)

Location:	Headwaters, perennial portion west of Hawks Mountain, Charlemont/Hawley to confluence with Cold River, Charlemont.
AU Type:	RIVER
AU Size:	0.6 MILES
Classification/Qualifier:	B

No usable data were available for Trout Brook (MA33-88) 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

Tuttle Brook (MA33-129)

Location:	Headwaters east of Leshures Road, Rowe to mouth at confluence with Potter Brook, Rowe.
AU Type:	RIVER
AU Size:	2 MILES
Classification/Qualifier:	B

No usable data were available for Tuttle Brook (MA33-129) 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

Unnamed Tributary (MA33-103)

Location:	Unnamed tributary to Hinsdale Brook, perennial portion east of Little Mohawk Road, Shelburne to confluence with Hinsdale Brook, Shelburne.
AU Type:	RIVER
AU Size:	1.9 MILES
Classification/Qualifier:	B

No usable data were available for Unnamed Tributary (MA33-103) 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

Unnamed Tributary (MA33-104)

Location:	Unnamed tributary to an unnamed tributary to Hinsdale Brook from Shearer Pond Dam (NATID MA01531), Colrain to confluence with an unnamed tributary to Hinsdale Brook, Shelburne.
AU Type:	RIVER
AU Size:	0.9 MILES
Classification/Qualifier:	B

No usable data were available for Unnamed Tributary (MA33-104) 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

Unnamed Tributary (MA33-105)

Location:	Unnamed tributary to Glen Brook, headwaters north of Oak Hill Road, Leyden to confluence Glen Brook, Greenfield.
AU Type:	RIVER
AU Size:	1.9 MILES
Classification/Qualifier:	B

No usable data were available for Unnamed Tributary (MA33-105) 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

Unnamed Tributary (MA33-107)

Location:	Unnamed tributary to the East Branch North River, headwaters south of Fairbanks Road, Colrain to the confluence of the East Branch North River, Colrain.
AU Type:	RIVER
AU Size:	1.7 MILES
Classification/Qualifier:	B

No usable data were available for Unnamed Tributary (MA33-107) 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

Unnamed Tributary (MA33-108)

Location:	Unnamed tributary to East Branch North River, headwaters outlet Mt. Brook Reservoir, Colrain to confluence with East Branch North River, Colrain.
AU Type:	RIVER
AU Size:	1.4 MILES
Classification/Qualifier:	B

No usable data were available for Unnamed Tributary (MA33-108) 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

Unnamed Tributary (MA33-109)

Location:	Unnamed tributary to West Branch North River, headwaters west of Wilson Hill Road, Colrain to confluence with West Branch North River, Colrain.
AU Type:	RIVER
AU Size:	1.4 MILES
Classification/Qualifier:	B

No usable data were available for Unnamed Tributary (MA33-109) 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

Unnamed Tributary (MA33-110)

Location:	Unnamed tributary to Taylor Brook, headwaters, Catamount State Forest, Colrain to confluence Taylor Brook, Colrain.
AU Type:	RIVER
AU Size:	1.5 MILES
Classification/Qualifier:	B

No usable data were available for Unnamed Tributary (MA33-110) 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

Unnamed Tributary (MA33-114)

Location:	Headwaters east of Pine Hill Road, Conway to confluence with South River, Conway.
AU Type:	RIVER
AU Size:	1 MILES
Classification/Qualifier:	B

No usable data were available for Unnamed Tributary (MA33-114) 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

Unnamed Tributary (MA33-115)

Location:	Unnamed tributary to Chapel Brook, headwaters west of Bird Hill Road, Ashfield to confluence with Chapel Brook, Ashfield.
AU Type:	RIVER
AU Size:	1.5 MILES
Classification/Qualifier:	B

No usable data were available for Unnamed Tributary (MA33-115) 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

Unnamed Tributary (MA33-116)

Location:	Unnamed tributary to Clesson Brook, headwaters north of Avery Road, Buckland to confluence with Clesson Brook, Buckland.
AU Type:	RIVER
AU Size:	1.8 MILES
Classification/Qualifier:	B

No usable data were available for Unnamed Tributary (MA33-116) 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

Unnamed Tributary (MA33-128)

Location:	Unnamed tributary to Deerfield River known as 'Bear Swamp Outflow', from headwaters north of Tunnel Road, Rowe to confluence with Deerfield River, Rowe.
AU Type:	RIVER
AU Size:	1.3 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Unnamed Tributary (MA33-128) 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

Unnamed Tributary (MA33-133)

Location:	Unnamed tributary to the Deerfield River from headwaters, outlet Goodnow Road Pond, Buckland to mouth at confluence with the Deerfield River, Buckland.
AU Type:	RIVER
AU Size:	1.5 MILES
Classification/Qualifier:	B

No usable data were available for Unnamed Tributary (MA33-133) 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

Unnamed Tributary (MA33-134)

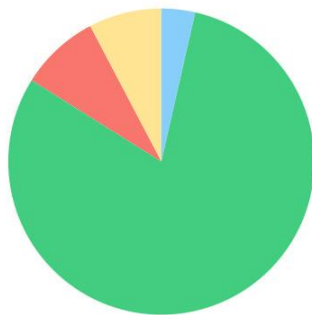
Location:	Unnamed tributary to East Branch North River from headwaters east of Franklin Hill Road and southwest at Franklin Hill, Colrain to mouth at confluence with East Branch North River, Colrain.
AU Type:	RIVER
AU Size:	0.7 MILES
Classification/Qualifier:	B

No usable data were available for Unnamed Tributary (MA33-134) 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

Location:	Unnamed tributary to Creamery Brook, headwaters, perennial portion west of West Road, Ashfield to mouth at confluence with Creamery Brook, Ashfield.
AU Type:	RIVER
AU Size:	1.3 MILES
Classification/Qualifier:	B

Watershed Area: 1.09 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	1.09	1.09	0.21	0.21
Agriculture	7.7%	7.7%	17.9%	17.9%
Developed	8.4%	8.4%	9.1%	9.1%
Natural	80.4%	80.4%	67.2%	67.2%
Wetland	3.6%	3.6%	5.9%	5.9%
Impervious	4%	4%	3.3%	3.3%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Escherichia Coli (E. Coli)	--	Unchanged
5	5	Temperature	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	--
Temperature	Agriculture (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, so the Fish Consumption Use for Unnamed Tributary (MA33-137) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Unnamed Tributary to Creamery Brook (MA33-137) is assessed as Fully Supporting based on the lack of any objectionable conditions documented by MassDEP staff during the summer of 2012. MassDEP staff recorded aesthetics observations at one station close to the upstream end of this Unnamed Tributary to Creamery Brook AU ~ 520 meters downstream of West Road in Ashfield (W2253) during the summer of 2012 (n=6) as part of the MAP2 Probabilistic Wadeable Streams monitoring project. No objectionable conditions (i.e., odors, deposits, growths, or turbidity) were observed during any of the surveys.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2253	MassDEP	Water Quality	Unnamed Tributary	[unnamed tributary to Creamery Brook, approximately 1700 feet downstream of West Road, Ashfield]	42.511527	-72.801051

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
W2253	2012	6	Aesthetic observations were made by MassDEP field sampling crews at Station W2253 on Unnamed Tributary (MA33-137) during 6 site visits between May 2012 and Sep 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
W2253	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
W2253	Unnamed Tributary	2012	Aquatic Plant Density, Overall	None	6	6
W2253	Unnamed Tributary	2012	Color	None	6	6
W2253	Unnamed Tributary	2012	Objectionable Deposits	No	6	6
W2253	Unnamed Tributary	2012	Odor	None	6	6
W2253	Unnamed Tributary	2012	Periphyton Density, Filamentous	None	6	6
W2253	Unnamed Tributary	2012	Periphyton Density, Film	None	6	6
W2253	Unnamed Tributary	2012	Scum	No	6	6
W2253	Unnamed Tributary	2012	Turbidity	None	5	6
W2253	Unnamed Tributary	2012	Turbidity	NR	1	6

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
<p>The Primary Contact Recreation Use for Unnamed Tributary (MA33-137) continues to be assessed as Not Supporting. The prior <i>Escherichia coli</i> (<i>E. coli</i>) impairment is being carried forward based on bacteria data not meeting the threshold at W2253. MassDEP staff collected <i>E. coli</i> bacteria samples in Unnamed Tributary (MA33-137) at W2253 [unnamed tributary to Creamery Brook, ~1700 ft downstream of W Rd, Ashfield] from May-Sep 2012 (n=6). Analysis of the single year limited frequency <i>E. coli</i> dataset from W2253 indicated 83% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 153 CFU/100ml. <i>E. coli</i> data from W2253 are indicative of an <i>E. coli</i> impairment.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2253	MassDEP	Water Quality	Unnamed Tributary	[unnamed tributary to Creamery Brook, approximately 1700 feet downstream of West Road, Ashfield]	42.511527	-72.801051

Bacteria Data

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

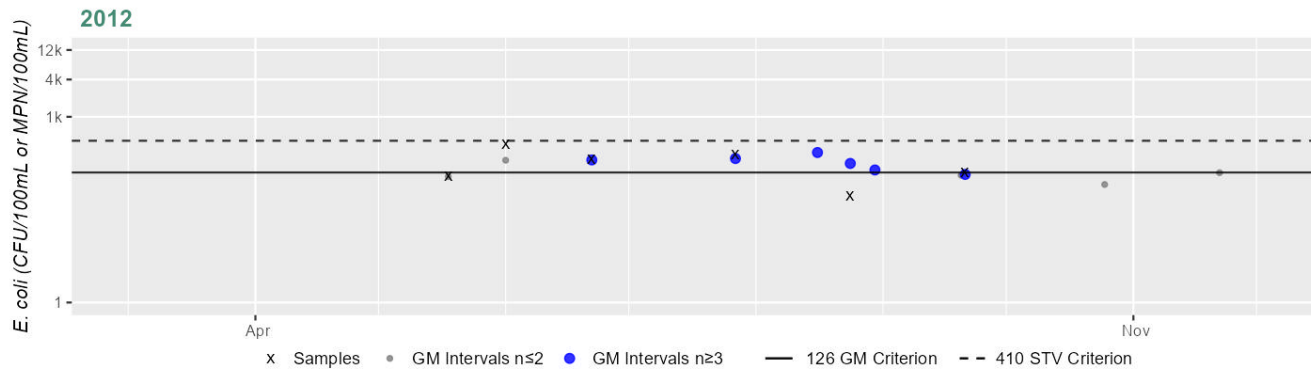
(MassDEP Undated 6) (MassDEP Undated 4)

[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
W2253	MassDEP	E. coli	05/17/12	09/20/12	6	52	365	153

Station MASSDEP_W2253 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	153
#GMI	6
#GMI Ex	5
%GMI Ex	83%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

83%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; 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 Unnamed Tributary (MA33-137) continues to be assessed as Fully Supporting. MassDEP staff collected *E. coli* bacteria samples in Unnamed Tributary (MA33-137) at W2253 [unnamed tributary to Creamery Brook, ~1700 ft downstream of W Rd, Ashfield] from May-Sep 2012 (n=6). Analysis of the single year limited frequency *E. coli* dataset from W2253 indicated 16% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 153 CFU/100ml. *E. coli* data from W2253 meet 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2253	MassDEP	Water Quality	Unnamed Tributary	[unnamed tributary to Creamery Brook, approximately 1700 feet downstream of West Road, Ashfield]	42.511527	-72.801051

Bacteria Data

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

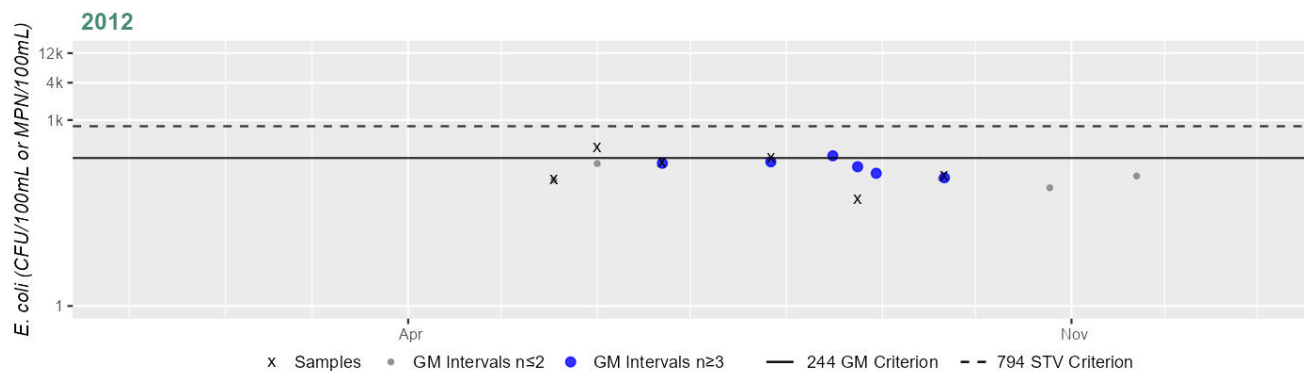
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W2253	MassDEP	E. coli	05/17/12	09/20/12	6	52	365	153

Station MASSDEP_W2253 - *Escherichia coli*

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



Variable*	Result
Samples	6
SeasGM	153
#GMI	6
#GMI Ex	1
%GMI Ex	16%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

16%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; 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.

Unnamed Tributary (MA33-61)

Location:	Unnamed tributary to Clark Brook locally known as "Hog Hollow Brook", headwaters north of Bray Road, Buckland to confluence with Clark Brook, Buckland.
AU Type:	RIVER
AU Size:	1.1 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Unnamed Tributary (MA33-61) 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

Upper Greenfield Reservoir (MA33021)

Location:	Leyden.
AU Type:	FRESHWATER LAKE
AU Size:	6 ACRES
Classification/Qualifier:	A: PWS, ORW

No usable data were available for Upper Greenfield Reservoir (MA33021) 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

Upper Highland Springs Reservoir (MA33025)

Location:	Ashfield.
AU Type:	FRESHWATER LAKE
AU Size:	2 ACRES
Classification/Qualifier:	A: PWS, ORW

No usable data were available for Upper Highland Springs Reservoir (MA33025) 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

Upper Reservoir Bear Swamp (MA33026)

Location:	Rowe.
AU Type:	FRESHWATER LAKE
AU Size:	108 ACRES
Classification/Qualifier:	B

No usable data were available for Upper Reservoir Bear Swamp (MA33026) 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

Vincent Brook (MA33-89)

Location:	Headwaters, perennial portion east of Stetson Brothers Road, Colrain to confluence with West Branch North River, Colrain.
AU Type:	RIVER
AU Size:	1 MILES
Classification/Qualifier:	B

No usable data were available for Vincent Brook (MA33-89) 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

West Branch Brook (MA33-90)

Location:	Headwaters, Vermont-Massachusetts stateline, Heath to confluence with Burrington Brook (forming headwaters West Branch North River), Heath.
AU Type:	RIVER
AU Size:	5.4 MILES
Classification/Qualifier:	B: CWF

No usable data were available for West Branch Brook (MA33-90) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

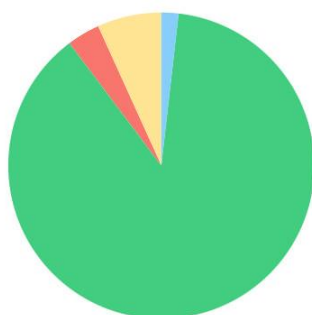
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

West Branch North River (MA33-27)

Location:	Headwaters, confluence of West Branch Brook and Burrington Brook, Heath to confluence with East Branch North River, forming headwaters North River, Colrain.
AU Type:	RIVER
AU Size:	7.2 MILES
Classification/Qualifier:	B: CWF, HQW

West Branch North River (MA33-27)

Watershed Area: 26.60 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area* (square miles)	23.17	5.96	5.48	1.82
Agriculture	6.8%	7.9%	5.8%	9.7%
Developed	3.5%	3.9%	4.8%	7.2%
Natural	87.9%	87.8%	85.8%	82.2%
Wetland	1.8%	0.4%	3.6%	0.8%
Impervious	1.5%	1.6%	2.1%	3.1%

*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	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, so the Fish Consumption Use for West Branch North River (MA33-27) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for West Branch North River (MA33-27) is assessed as Fully Supporting based on the lack of any objectionable conditions documented by MassDEP staff during the summer of 2012. MassDEP staff recorded aesthetics observations at one station three-quarters of the way down this West Branch North River AU at Heath Road crossing in Colrain (W2244) during the summer of 2012 (n=6) as part of the MAP2 Probabilistic Wadeable Streams monitoring project. No objectionable conditions (i.e., odors, deposits, growths, or turbidity) were observed during any of the surveys.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2244	MassDEP	Water Quality	West Branch North River	[approximately 600 feet downstream of Heath Road, Colrain]	42.674169	-72.733528

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
W2244	2012	6	Aesthetic observations were made by MassDEP field sampling crews at Station W2244 on West Branch North River (MA33-27) during 6 site visits between May 2012 and Sep 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
W2244	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
W2244	West Branch North River	2012	Aquatic Plant Density, Overall	None	6	6
W2244	West Branch North River	2012	Color	Brownish	1	6
W2244	West Branch North River	2012	Color	None	5	6
W2244	West Branch North River	2012	Objectionable Deposits	No	6	6
W2244	West Branch North River	2012	Odor	None	6	6
W2244	West Branch North River	2012	Periphyton Density, Filamentous	Moderate	1	6
W2244	West Branch North River	2012	Periphyton Density, Filamentous	None	4	6
W2244	West Branch North River	2012	Periphyton Density, Filamentous	Sparse	1	6
W2244	West Branch North River	2012	Periphyton Density, Film	Moderate	3	6
W2244	West Branch North River	2012	Periphyton Density, Film	None	3	6
W2244	West Branch North River	2012	Scum	No	6	6
W2244	West Branch North River	2012	Turbidity	None	5	6
W2244	West Branch North River	2012	Turbidity	Slightly Turbid	1	6

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO
2024/26 Use Attainment Summary	

Too limited bacteria data are available to assess the Primary Contact Recreation Use for the West Branch North River (MA33-27) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information. MassDEP staff collected *E. coli* bacteria samples in the West Branch North River (MA33-27) at W2244 [~600 ft downstream of Heath Rd, Colrain] from May-Sep 2012 (n=6). Analysis of the single year limited frequency *E. coli* dataset from W2244 indicated 0% of intervals had GMs >126 CFU/100ml, 1 sample exceeded the 410 CFU/100ml STV, and the seasonal GM was 34 CFU/100ml. *E. coli* data from W2244 are inconclusive according to the 2024 CALM to assess the Primary Contact Recreation Use because this single year, limited frequency dataset included both GMs below the threshold and STV exceedance of the threshold.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2244	MassDEP	Water Quality	West Branch North River	[approximately 600 feet downstream of Heath Road, Colrain]	42.674169	-72.733528

Bacteria Data

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

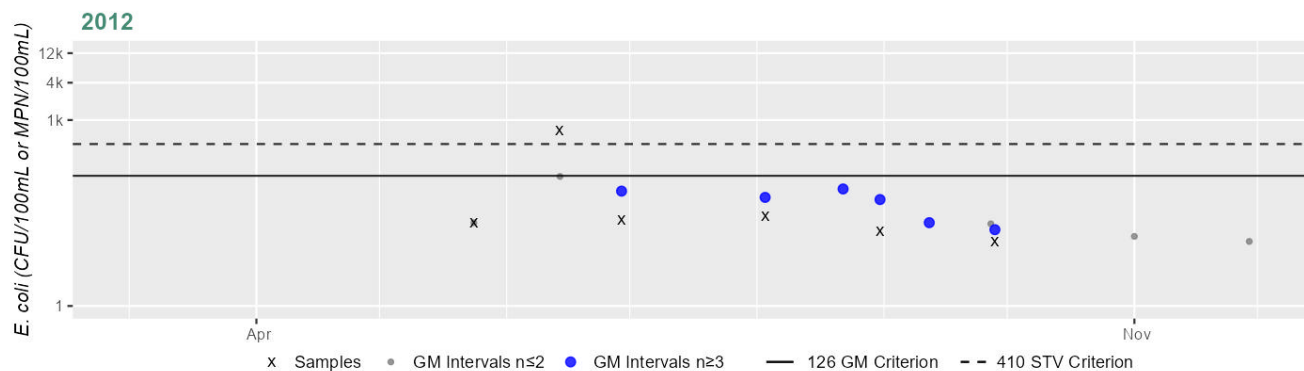
(MassDEP Undated 6) (MassDEP Undated 4)

[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
W2244	MassDEP	E. coli	05/23/12	09/27/12	6	11	687	34

Station MASSDEP_W2244 - *Escherichia coli*

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



Variable*	Result
Samples	6
SeasGM	34
#GMI	6
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; 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 North River (MA33-27) continues to be assessed as Fully Supporting. MassDEP staff collected <i>E. coli</i> bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in the West Branch North River (MA33-27) from 2005-2012 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: W2244 [~600 ft downstream of Heath Rd, Colrain] from May-Sep 2012 (n=6), W1348 [Adamsville Rd, Colrain] from May-Sep 2005 (n=5). <i>E. coli</i> data from W2244 meet 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1348	MassDEP	Water Quality	West Branch North River	[Adamsville Road, Colrain]	42.665895	-72.722988
W2244	MassDEP	Water Quality	West Branch North River	[approximately 600 feet downstream of Heath Road, Colrain]	42.674169	-72.733528

Bacteria Data

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

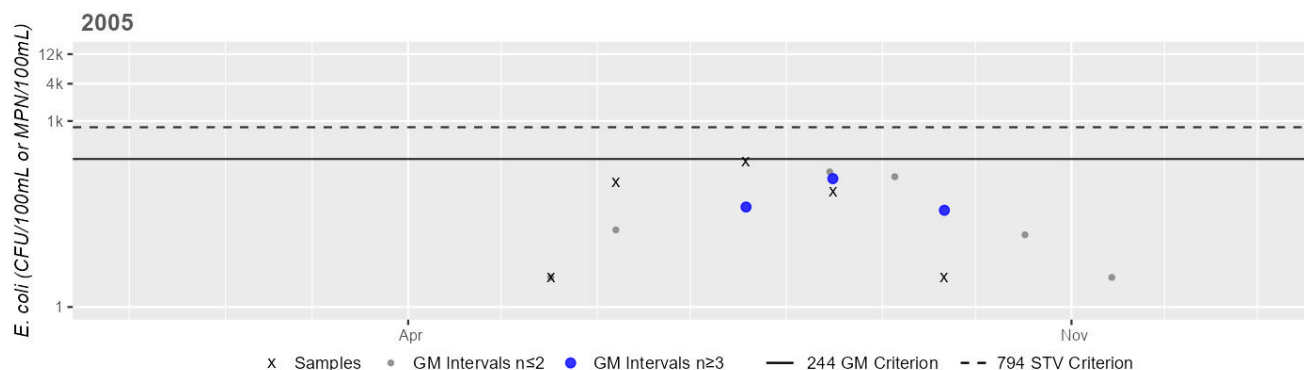
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1348	MassDEP	E. coli	05/17/05	09/21/05	5	3	225	27
W2244	MassDEP	E. coli	05/23/12	09/27/12	6	11	687	34

Station MASSDEP_W1348 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	27
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

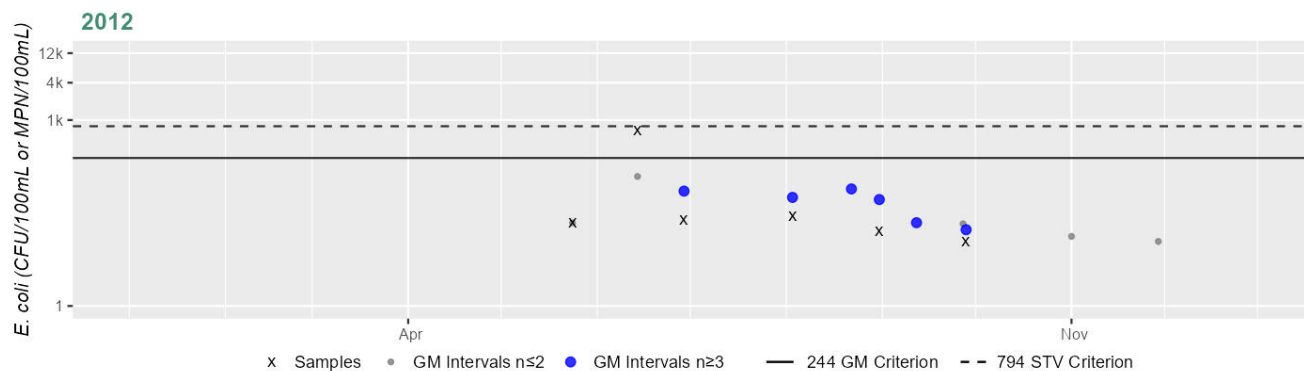
Historic (1997-2010)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; 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_W2244 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	34
#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 Exceedances;
 %GMI Ex = % GMI Exceedances; 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.

Wheeler Brook (MA33-136)

Location:	Headwaters, portion in Massachusetts, east of Sherman Reservoir, Rowe to mouth at inlet of Sherman Reservoir, Rowe.
AU Type:	RIVER
AU Size:	1 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Wheeler Brook (MA33-136) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

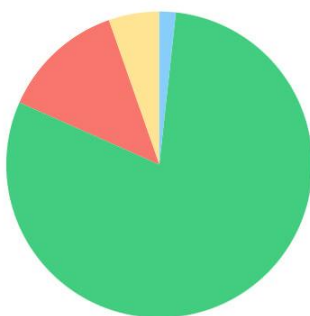
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Wheeler Brook (MA33-95)

Location:	Headwaters, south of Old Greenfield Road, Shelburne to confluence with Green River, Greenfield.
AU Type:	RIVER
AU Size:	2.5 MILES
Classification/Qualifier:	B

Wheeler Brook (MA33-95)

Watershed Area: 2.53 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	2.53	2.53	0.64	0.64
Agriculture	5.4%	5.4%	1.9%	1.9%
Developed	13%	13%	17.2%	17.2%
Natural	79.9%	79.9%	76.3%	76.3%
Wetland	1.7%	1.7%	4.6%	4.6%
Impervious	6.7%	6.7%	10.4%	10.4%

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, so the Fish Consumption Use for Wheeler Brook (MA33-95) 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 Wheeler Brook AU (MA33-95), 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 for Wheeler Brook (MA33-95) 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 Wheeler Brook (MA33-95) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in Wheeler Brook (MA33-95) at W1345 [S off Shelburne Rd (~800 ft W of Rt. 2), Greenfield] from May-Sep 2005 (n=5). Analysis of this historic single year limited frequency <i>E. coli</i> dataset from W1345 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 15 CFU/100ml. Historic <i>E. coli</i> data from W1345 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1345	MassDEP	Water Quality	Wheeler Brook	[south off Shelburne Road (approximately 800 feet west of Route 2), Greenfield]	42.589455	-72.633591

Bacteria Data

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

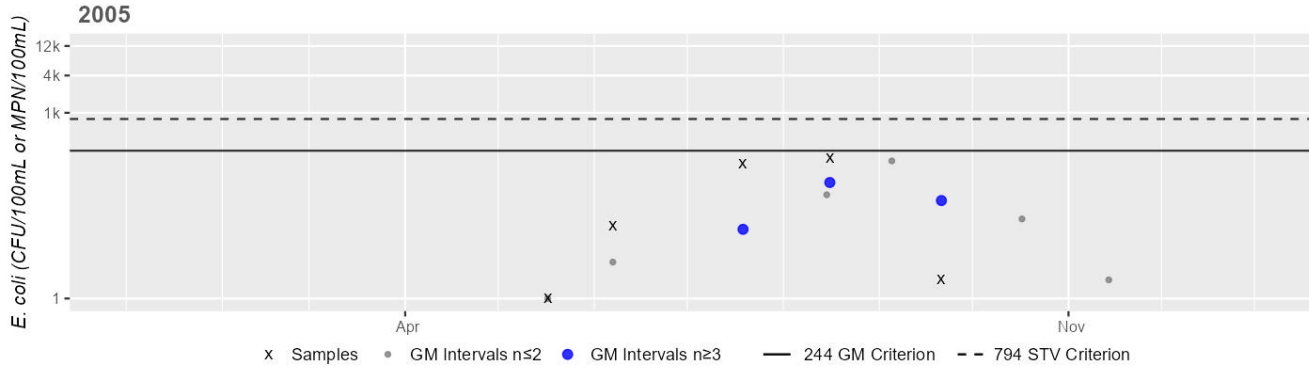
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1345	MassDEP	E. coli	05/17/05	09/21/05	5	1	186	15

Station MASSDEP_W1345 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	15
#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 Exceedances;
%GMI Ex = % GMI Exceedances; 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.

Whitcomb Brook (MA33-91)

Location:	Headwaters, perennial portion east of Whitcomb Hill Road, Florida to confluence with Deerfield River, Florida.
AU Type:	RIVER
AU Size:	0.6 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Whitcomb Brook (MA33-91) 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

White Brook (MA33-122)

Location:	Headwaters east of Olson Road, Florida to confluence with the Cold River, Florida.
AU Type:	RIVER
AU Size:	1.6 MILES
Classification/Qualifier:	B: CWF

No usable data were available for White Brook (MA33-122) 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

Wilder Brook (MA33-92)

Location:	Headwaters, east of Flagg Hill Road, Heath to confluence with Deerfield River, Charlemont.
AU Type:	RIVER
AU Size:	2.9 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Wilder Brook (MA33-92) 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

Willis Brook (MA33-93)

Location:	Headwaters, perennial portion south of South Road, Heath to confluence with Hartwell Brook, Charlemont.
AU Type:	RIVER
AU Size:	1.6 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Willis Brook (MA33-93) 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

Workman Brook (MA33-94)

Location:	Headwaters, perennial portion west of East Colrain Road, Colrain (drains wetland) to confluence with Green River, Colrain.
AU Type:	RIVER
AU Size:	1.4 MILES
Classification/Qualifier:	A: PWS, ORW, HQW, CWF (Tributary)

No usable data were available for Workman Brook (MA33-94) 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

Data Sources

- Bailey, Logan. "DPH 2022 freshwater beach posting data provided to Laurie Kennedy and Dan Davis (MassDEP Watershed Planning Program) via Excel file (FreshwaterBeachPostings_2022) attached to email (RE: DPH Beach Posting information update needed for 2024 IR)." Additional 2020-2022 freshwater/marine beach posting data downloaded from the Mass Environmental Public Health Tracker tool or EPA BEACON tool, respectively, Environmental Toxicology Program, Bureau of Environmental Health, Massachusetts Department of Public Health, Boston, MA, Sept. 10, 2023.
- Bailey, Logan. "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, Feb. 2, 2021.
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- MA DPH. "Evaluation of PFAS in Recreational Waterbodies in Massachusetts, Technical Support Document." Environmental Toxicology Program, Bureau of Environmental Health, Massachusetts Department of Public Health. March 2023.
<https://www.mass.gov/doc/technical-basis-for-issuing-fish-advisories-0/download> (accessed 2024).
- . "Freshwater Fish Consumption Advisory List." Bureau of Climate and Environmental Health, Massachusetts Department of Public Health. January 2025.
<https://www.mass.gov/doc/public-health-freshwater-fish-consumption-advisories-2025-0/download> (accessed January 2025).
- MassDEP. "Open file analysis of external water quality data (potential date range 1997-2022) using 2024 CALM guidance." Watershed Planning Program, Massachusetts Department of Environmental Protection, Worcester, MA, Undated 1.
- MassDEP. "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, Undated 2.
- MassDEP. "Open file analysis of MassDEP WPP water quality data collected between 1997 and 2020 using 2024 CALM guidance." Watershed Planning Program, Massachusetts Department of Environmental Protection, Worcester, MA, Undated 3.

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- MassDEP. "Open files of fish toxicity testing data, metadata, and GIS datalayers in development." Watershed Planning Program, Massachusetts Department of Environmental Protection, Worcester, MA, Undated 5.
- MassDEP. "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, Undated 6.
- . "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 2023. <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> (accessed January 2024).
- Savoie, Jennifer G, and Denise M Argue. "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 2023. <https://doi.org/10.5066/P967NOOZ> (accessed January 2024).
- USGS. "USGS 2011-2022 bacteria data downloaded from WQX 10/21/2024." United States Geological Survey, 2024.