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

Appendix 18
Farmington River Basin
Assessment and Listing Decision Summary

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Watershed Planning Program

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

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Disclaimer

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

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Notice of Availability

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

Overview of Appendix Contents

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

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

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

The following abbreviations are used when referencing designated uses:

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

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

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2024/26 Cycle Impairment Changes

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Babcock Brook	MA31-32	2	2	None	--	Unchanged
Benton Brook	MA31-11	5	5	Benthic Macroinvertebrates	--	Unchanged
Benton Pond	MA31003	4c	4c	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
Big Pond	MA31004	5	5	Dissolved Oxygen	--	Unchanged
Big Pond	MA31004	5	5	Mercury in Fish Tissue	33880	Unchanged
Bradley Brook	MA31-37	3	3	None	--	Unchanged
Buck River	MA31-38	3	3	None	--	Unchanged
Buck River	MA31-39	2	2	None	--	Unchanged
Cherry Brook	MA31-18	3	3	None	--	Unchanged
Clam River	MA31-03	5	5	Temperature	--	Unchanged
Cone Brook	MA31-08	2	2	None	--	Unchanged
Cranberry Pond	MA31008	3	3	None	--	Unchanged
Cranberry Pond Brook	MA31-21	5	5	Lack of a Coldwater Assemblage	--	Unchanged
Creek Pond	MA31009	3	3	None	--	Unchanged
Dimmock Brook	MA31-10	3	3	None	--	Unchanged
Dimmock Brook Pond	MA31010	3	3	None	--	Unchanged
East Branch Salmon Brook	MA31-40	2	2	None	--	Unchanged
Ellis Brook	MA31-35	3	3	None	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Fall River	MA31-02	5	5	Lack of a Coldwater Assemblage	--	Unchanged
Halfway Brook	MA31-31	2	2	None	--	Unchanged
Hall Pond Brook	MA31-34	3	3	None	--	Unchanged
Hayden Pond	MA31016	4c	4c	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
Hubbard Brook	MA31-16	5	5	Temperature	--	Unchanged
Long Bow Lake	MA31019	3	3	None	--	Unchanged
Lower Spectacle Pond	MA31020	3	2	None	--	Unchanged
Miner Brook	MA31-28	2	2	None	--	Unchanged
Moody Brook	MA31-23	2	2	None	--	Unchanged
North Branch Silver Brook	MA31-25	3	3	None	--	Unchanged
North Brook	MA31-41	2	2	None	--	Unchanged
Noyes Pond	MA31026	4c	4c	(Non-Native Aquatic Plants*)	--	Unchanged
Otis Reservoir	MA31027	4a	4a	Mercury in Fish Tissue	33880	Unchanged
Palmer Brook	MA31-29	5	5	Lack of a Coldwater Assemblage	--	Unchanged
Pond Brook	MA31-30	2	2	None	--	Unchanged
Pond Brook	MA31-33	5	5	Lack of a Coldwater Assemblage	--	Unchanged
Pond Brook	MA31-33	5	5	Temperature	--	Unchanged
Potash Brook	MA31-36	3	3	None	--	Unchanged
Richardson Brook	MA31-24	2	2	None	--	Unchanged
Riiska Brook	MA31-17	2	2	None	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Royal Pond	MA31034	3	3	None	--	Unchanged
Sandy Brook	MA31-14	5	5	Temperature	--	Unchanged
Shales Brook	MA31-04	2	2	None	--	Unchanged
Shaw Pond	MA31036	5	5	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
Shaw Pond	MA31036	5	5	Dissolved Oxygen	--	Unchanged
Silver Brook	MA31-13	5	5	Temperature	--	Unchanged
Silver Shield Pond	MA31054	3	3	None	--	Unchanged
Slocum Brook	MA31-19	2	2	None	--	Unchanged
South Branch Silver Brook	MA31-26	2	2	None	--	Unchanged
Spectacle Pond Brook	MA31-27	5	5	Lack of a Coldwater Assemblage	--	Unchanged
Taylor Brook	MA31-20	2	2	None	--	Unchanged
Thomas Brook	MA31-06	5	5	Lack of a Coldwater Assemblage	--	Unchanged
Thorp Brook	MA31-22	2	2	None	--	Unchanged
Unnamed Tributary	MA31-05	3	3	None	--	Unchanged
Unnamed Tributary	MA31-07	2	2	None	--	Unchanged
Unnamed Tributary	MA31-09	3	3	None	--	Unchanged
Upper Spectacle Pond	MA31044	5	5	Dissolved Oxygen	--	Unchanged
Upper Spectacle Pond	MA31044	5	5	PFAS in Fish Tissue	--	Added

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Valley Brook	MA31-15	2	2	None	--	Unchanged
Ward Pond	MA31047	3	3	None	--	Unchanged
West Branch Farmington River	MA31-01	5	5	Fish Bioassessments	--	Unchanged
West Branch Farmington River	MA31-01	5	5	Lack of a Coldwater Assemblage	--	Unchanged
West Branch Farmington River	MA31-01	5	5	Temperature	--	Unchanged
West Lake	MA31050	3	5	PFAS in Fish Tissue	--	Added
White Lily Pond	MA31051	3	3	None	--	Unchanged
York Lake	MA31052	5	5	Dissolved Oxygen	--	Unchanged

Babcock Brook (MA31-32)

Location:	Headwaters west of Amos Case Road, Tolland to mouth at confluence with Hall Pond Brook (forming headwaters Hubbard Brook), Tolland.
AU Type:	RIVER
AU Size:	3.3 MILES
Classification/Qualifier:	B: CWF, HQW

No usable data were available for Babcock Brook (MA31-32) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Benton Brook (MA31-11)

Location:	Headwaters, drainage from Hayden Swamp, Otis to mouth at confluence with the West Branch Farmington River, Otis.
AU Type:	RIVER
AU Size:	5.2 MILES
Classification/Qualifier:	B: CWF, HQW

Benton Brook (MA31-11)

Watershed Area: 4.19 square miles

Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	4.19	2.62	0.93	0.66
Agriculture	0%	0%	0%	0%
Developed	3.3%	5%	3.7%	5.1%
Natural	86.9%	84.6%	70.9%	71.2%
Wetland	9.9%	10.4%	25.5%	23.7%
Impervious	1.9%	3%	2.1%	3%

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	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Benton Brook (MA31-11) was Not Assessed because fish toxics sampling was not conducted.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Benton Brook (MA31-11) 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 Benton Brook (MA31-11) is assessed as Fully Supporting based on bacteria data collected in 2021 & 2022 at 1 station. Farmington River Watershed Association (FRWA) staff/volunteers collected *E. coli* bacteria samples close to the downstream end of this Benton Brook AU at FRWA_Bent-526 [285 N Beech Plain Rd, Sandisfield] in 2021-2022 (n=6/yr). Analysis of the multi-year limited frequency *E. coli* dataset from FRWA_Bent-526 indicated 0 out of 2 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 0% of intervals had GMs >126 CFU/100ml. *E. coli* data from FRWA_Bent-526 were indicative of good water quality conditions.

Monitoring Stations

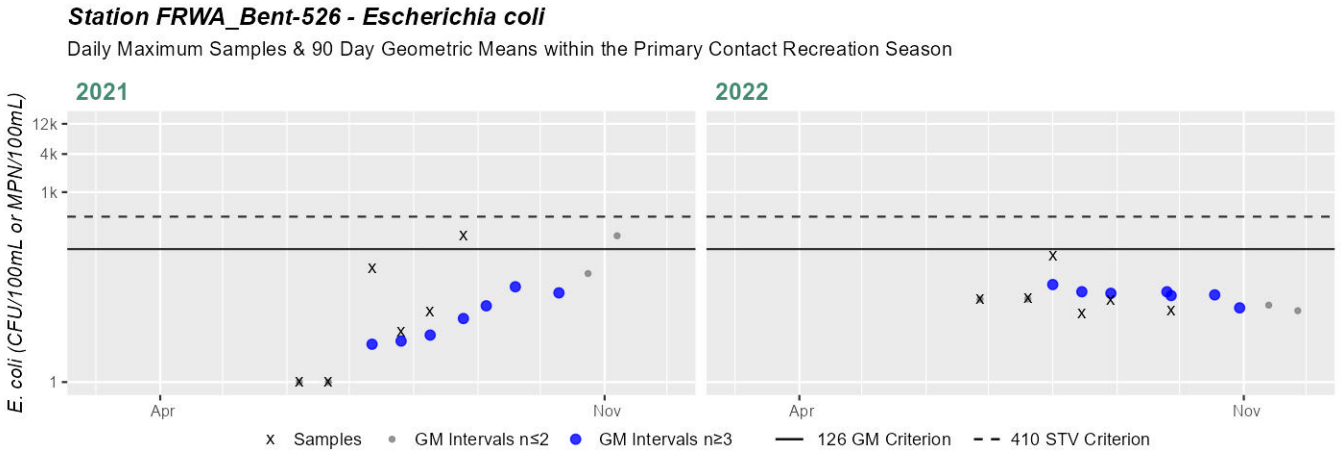
Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
FRWA_Bent-526	Farmington River Watershed Association	Water Quality	Benton Brook	285 North Beech Plain Rd, Sandisfield	42.18387	-73.08909

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)
(FRWA 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
FRWA_Bent-526	Farmington River Watershed Association	E. coli	06/07/21	08/25/21	6	1	204	10
FRWA_Bent-526	Farmington River Watershed Association	E. coli	06/27/22	09/27/22	6	12	98	22



Variable*	Result
Samples	6
SeasGM	10
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	22
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Benton Brook (MA31-11) is assessed as Fully Supporting based on a re-evaluation of bacteria data collected in 2021 & 2022 at 2 stations. MassDEP and Farmington River Watershed Association (FRWA) staff/volunteers collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) for this Benton Brook AU from 2006-2022 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: in the downstream half of the AU at W1444 [Lake Shore Drive, Otis] from Apr-Sep 2006 (n=5) and close to the downstream end of the AU at FRWA_Bent-526 [285 N Beech Plain Rd, Sandisfield] in 2021-2022 (n=6/yr). Analysis of the multi-year limited frequency *E. coli* dataset from FRWA_Bent-526 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. Overall, *E. coli* data collected in both the historic & the current IR window for Benton Brook were indicative of good water quality conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
FRWA_Bent-526	Farmington River Watershed Association	Water Quality	Benton Brook	285 North Beech Plain Rd, Sandisfield	42.18387	-73.08909
W1444	MassDEP	Water Quality	Benton Brook	[Lake Shore Drive, Otis]	42.186037	-73.100162

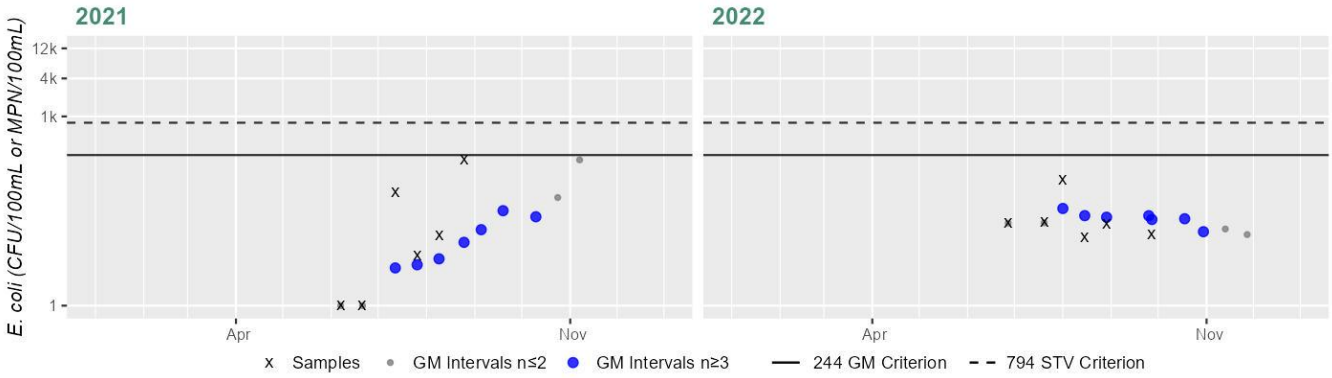
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(FRWA 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
FRWA_Bent-526	Farmington River Watershed Association	E. coli	06/07/21	08/25/21	6	1	204	10
FRWA_Bent-526	Farmington River Watershed Association	E. coli	06/27/22	09/27/22	6	12	98	22
W1444	MassDEP	E. coli	04/25/06	09/19/06	5	4	304	30

Station FRWA_Bent-526 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	10
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

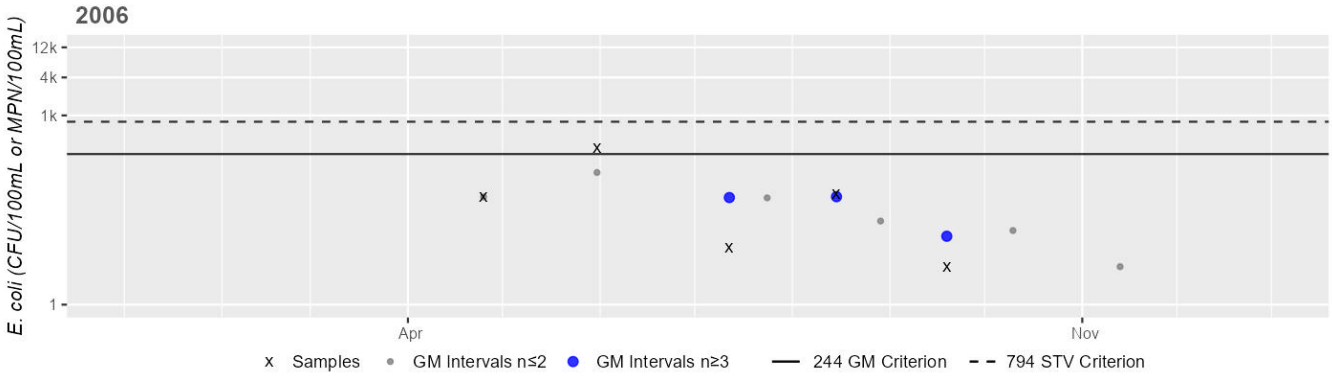
Variable*	Result
Samples	6
SeasGM	22
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Station MASSDEP_W1444 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	30
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Benton Pond (MA31003)

Location:	Otis.
AU Type:	FRESHWATER LAKE
AU Size:	61 ACRES
Classification/Qualifier:	B: HQW (no lakes in the state have a CWF designation)

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

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Benton Pond (MA31003) was Not Assessed because fish toxics sampling was not conducted recently.

Aesthetic

2024/26 Use Attainment	Alert

Fully Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for Benton Pond (MA31003) is assessed as Fully Supporting based on the observations from the MassDEP MAP2 macrophyte mapping survey in summer 2016. MassDEP staff recorded aesthetics observations as part of the MAP2 lake monitoring project in summer 2016 at two stations in Otis, for this Benton Pond AU, at the western edge of pond, just off of Rt. 23 (East Otis Rd) (W2611/MAP2L-047S, n=5) and at the deep hole index site at the east end of the pond (W0347/MAP2L-047, n=3). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, or littoral zone duckweed recorded in ten shoreline plots (n=1), though field staff noted green water color on two occasions at W0347. During the MAP2 macrophyte mapping survey (n=1) in Sep 2016, less than 25% (9.2%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0347	MassDEP	Water Quality	Benton Pond	[deep hole, Otis]	42.183596	-73.043901
W2611	MassDEP	Water Quality	Benton Pond	[western edge of pond, just off of Route 23 (East Otis Road), Otis]	42.183217	-73.050493

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
W0347	2016	3	Aesthetic observations were made by MassDEP field sampling crews at Station W0347 (MAP2L-047) on Benton Pond (MA31003) during 3 site visits between Jun 2016 and Sep 2016. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted green water color (n=2). During the MAP2 macrophyte mapping survey (n=1) in Sep 2016, less than 25% (9.2%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%.
W2611	2016	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2611 (MAP2L-047S) on Benton Pond (MA31003) 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.

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

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W0347	Benton Pond	2016	Aesthetics Impaired?	No	3	3
W0347	Benton Pond	2016	Aquatic Plant Density, Overall	None	1	3
W0347	Benton Pond	2016	Aquatic Plant Density, Overall	NR	1	3
W0347	Benton Pond	2016	Aquatic Plant Density, Overall	Sparse	1	3
W0347	Benton Pond	2016	Color	Greenish	2	3
W0347	Benton Pond	2016	Color	None	1	3
W0347	Benton Pond	2016	Objectionable Deposits	No	3	3
W0347	Benton Pond	2016	Odor	None	3	3
W0347	Benton Pond	2016	Scum	No	3	3
W0347	Benton Pond	2016	Turbidity	None	3	3
W2611	Benton Pond	2016	Aesthetics Impaired?	No	5	5
W2611	Benton Pond	2016	Color	None	5	5
W2611	Benton Pond	2016	Objectionable Deposits	No	4	5
W2611	Benton Pond	2016	Objectionable Deposits	Yes	1	5
W2611	Benton Pond	2016	Odor	Fishy	1	5
W2611	Benton Pond	2016	Odor	None	4	5
W2611	Benton Pond	2016	Scum	No	5	5
W2611	Benton Pond	2016	Turbidity	None	5	5

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Benton Pond (MA31003) is assessed as Fully Supporting based on bacteria data collected in 2016 at W2611. MassDEP staff collected *E. coli* bacteria samples in this Benton Pond AU at W2611/MAP2L-047S [western edge of pond, just off of Rt. 23 (E Otis Rd), Otis] from May-Sep 2016 (n=5). Analysis of the single year limited frequency *E. coli* dataset from W2611 indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 20 CFU/100ml. Overall, *E. coli* data from Benton Pond were indicative of good water quality conditions. MassDEP staff also collected Secchi depth and cyanobacteria cell count data at W0347 [MAP2L-047, Index-deep hole, Otis], and cyanobacteria cell count and cyanotoxin data at W2611, the shoreline station. At station W0347 (station depth=7.8 m) the Secchi depth measurements ranged from 4.4-5.7 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 W2611 (n=3) indicated that the concentrations did not exceed the 8 µg/L threshold.

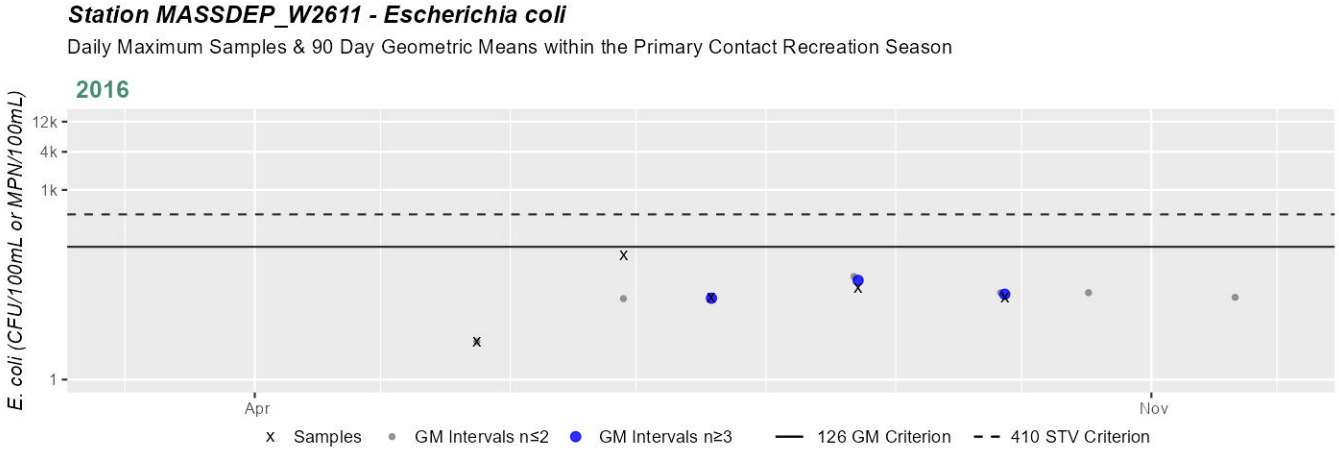
Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0347	MassDEP	Water Quality	Benton Pond	[deep hole, Otis]	42.183596	-73.043901
W2611	MassDEP	Water Quality	Benton Pond	[western edge of pond, just off of Route 23 (East Otis Road), Otis]	42.183217	-73.050493

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
W2611	MassDEP	E. coli	05/23/16	09/26/16	5	4	91	20



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

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

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

Other Indicators

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

Data Year	Summary
2016	In Benton Pond (MA31003) in 2016, MassDEP collected Secchi and cyanobacteria cell count data at W0347 [MAP2L-047, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at W2611 [MAP2L-047S, Shoreline]. At station W0347 (station depth=7.8 m) the Secchi depth measurements ranged from 4.4-5.7 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 W2611 (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)
W0347	Benton Pond	Index	2016	3	0	NA
W2611	Benton Pond	Shoreline	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 Benton Pond (MA31003) is assessed as Fully Supporting based on a re-evaluation of bacteria data collected in 2016 at 1 station. MassDEP staff collected *E. coli* bacteria samples in this Benton Pond AU at W2611/MAP2L-047S [western edge of pond, just off of Rt. 23 (E Otis Rd), Otis] from May-Sep 2016 (n=5). Analysis of the single year limited frequency *E. coli* dataset from W2611 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. *E. coli* data from W2611 were indicative of good water quality conditions. MassDEP staff also collected cyanobacteria data at W0347 [deep hole, Otis] in 2016 and cyanotoxins data at shoreline station W2611/MAP2L-047S in 2016. The cyanobacteria cell count did not exceed 70,000 cells/ml in any of the water samples. Analysis of microcystins samples from W2611 (n=3) indicated that the concentrations did not exceed the threshold of 8 µg/L.

Monitoring Stations

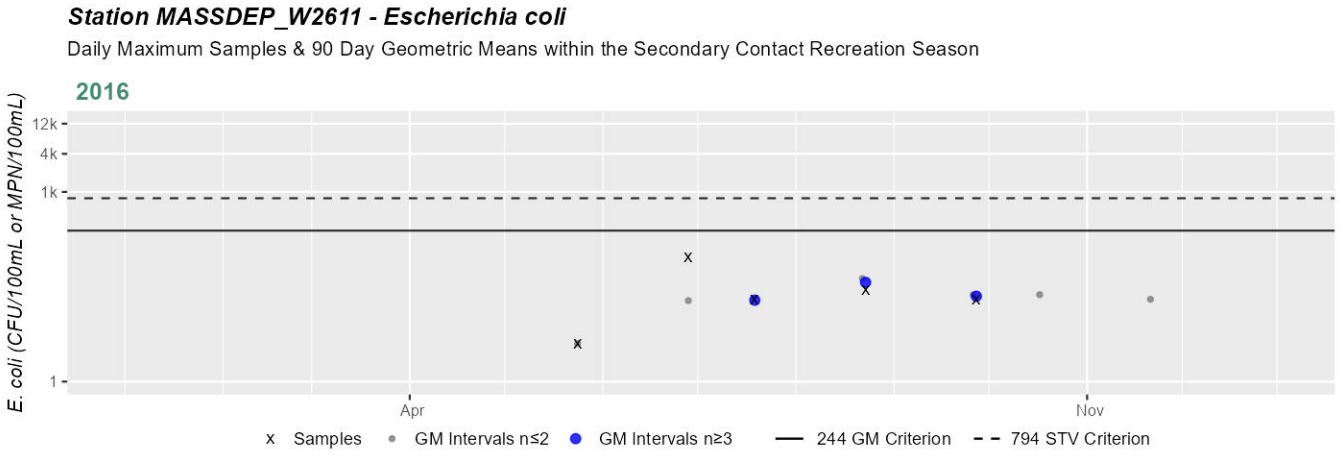
Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2611	MassDEP	Water Quality	Benton Pond	[western edge of pond, just off of Route 23 (East Otis Road), Otis]	42.183217	-73.050493

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
W2611	MassDEP	E. coli	05/23/16	09/26/16	5	4	91	20



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

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

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

Big Pond (MA31004)

Location:	Otis.
AU Type:	FRESHWATER LAKE
AU Size:	325 ACRES
Classification/Qualifier:	B: HQW (no lakes in the state have a CWF designation)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Dissolved Oxygen	--	Unchanged
5	5	Mercury in Fish Tissue	33880	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Dissolved Oxygen	Source Unknown (N)	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 Big Pond (MA31004) 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 Big 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 Big Pond (MA31004) 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 Big Pond (MA31004) 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 Big Pond (MA31004) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Bradley Brook (MA31-37)

Location:	Headwaters, perennial portion, west of Ridgeview Terrace, Southwick to MA/CT border, Southwick.
AU Type:	RIVER
AU Size:	1.4 MILES
Classification/Qualifier:	B: CWF, HQW

No usable data were available for Bradley Brook (MA31-37) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Buck River (MA31-38)

Location:	Headwaters draining wetland just south of Morley Hillard Crank Road, Sandisfield to inlet Abbey Lake, Sandisfield (formerly part of 2014 segment: Buck River MA31-12).
AU Type:	RIVER
AU Size:	1.7 MILES
Classification/Qualifier:	B: CWF, HQW

No usable data were available for Buck River (MA31-38) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

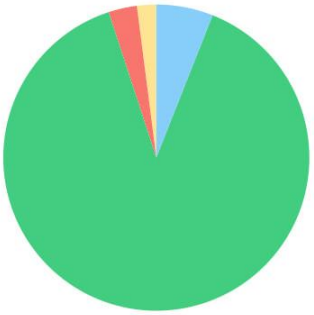
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Buck River (MA31-39)

Location:	Outlet Abbey Lake, Sandisfield to mouth at confluence with Clam River, Sandisfield (formerly part of 2014 segment: Buck River MA31-12).
AU Type:	RIVER
AU Size:	4.1 MILES
Classification/Qualifier:	B: CWF, HQW

Buck River (MA31-39)

Watershed Area: 8.78 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	8.78	3.83	2.27	1.08
Agriculture	2%	2.6%	1.9%	2.2%
Developed	3%	3.8%	4.4%	7.2%
Natural	89%	88.7%	84.5%	82.6%
Wetland	6%	5%	9.3%	8%
Impervious	1.2%	1.6%	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
The Fish Consumption Use for Buck River (MA31-39) was Not Assessed because fish toxics sampling was not conducted.

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 Buck River AU (MA31-39), so it 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 Buck River (MA31-39) continues to be assessed as Fully Supporting based on bacteria data collected in 2021 & 2022 at 1 station. Farmington River Watershed Association (FRWA) staff/volunteers collected *E. coli* bacteria samples close to the downstream end of this Buck River AU at FRWA_Buck-1030 [87 Rt 57 Sandisfield Rd, Sandisfield] in 2021-2022 (n=6/yr). Analysis of the multi-year limited frequency *E. coli* dataset from FRWA_Buck-1030 & W1445 indicated 0 out of 2 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 0% of intervals had GMs >126 CFU/100ml. *E. coli* data from FRWA_Buck-1030 & W1445 were indicative of good water quality conditions.

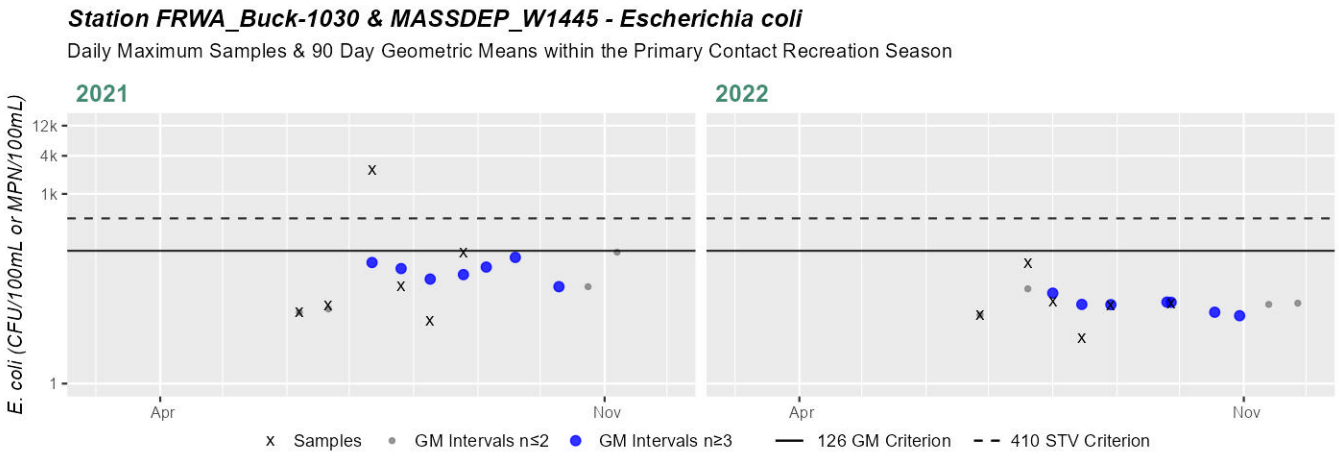
Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
FRWA_Buck-1030	Farmington River Watershed Association	Water Quality	Buck River	87 Rt 57 Sandisfield Rd, Sandisfield	42.106652	-73.106315

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)
(FRWA 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
FRWA_Buck-1030	Farmington River Watershed Association	E. coli	06/07/21	08/25/21	6	9	2419	52
FRWA_Buck-1030	Farmington River Watershed Association	E. coli	06/27/22	09/27/22	6	5	81	17



Variable*	Result
Samples	6
SeasGM	52
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	16%

Variable*	Result
Samples	6
SeasGM	17
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for the Buck River (MA31-39) continues to be assessed as Fully Supporting based on a re-evaluation of bacteria data collected in 2006, 2021 & 2022 at 1 combined station. MassDEP and Farmington River Watershed Association (FRWA) staff/volunteers collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) close to the downstream end of this Buck River AU at FRWA_Buck-1030 & W1445 [87 Rt 57 Sandisfield Rd, Sandisfield & Rt. 57 bridge crossing ~0.6 miles from the confluence with the Clam River, Sandisfield] from Apr-Sep 2006 (historic n=5) and 2021-2022 (current n=6/yr). Analysis of the multi-year limited frequency *E. coli* dataset from FRWA_Buck-1030 & W1445 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. Overall, *E. coli* data collected in both the historic & the current IR window for Buck River were indicative of good water quality conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
FRWA_Buck-1030	Farmington River Watershed Association	Water Quality	Buck River	87 Rt 57 Sandisfield Rd, Sandisfield	42.106652	-73.106315
W1445	MassDEP	Water Quality	Buck River	[Route 57 bridge crossing approximately 0.6 miles from the confluence with the Clam River, Sandisfield]	42.106596	-73.106356

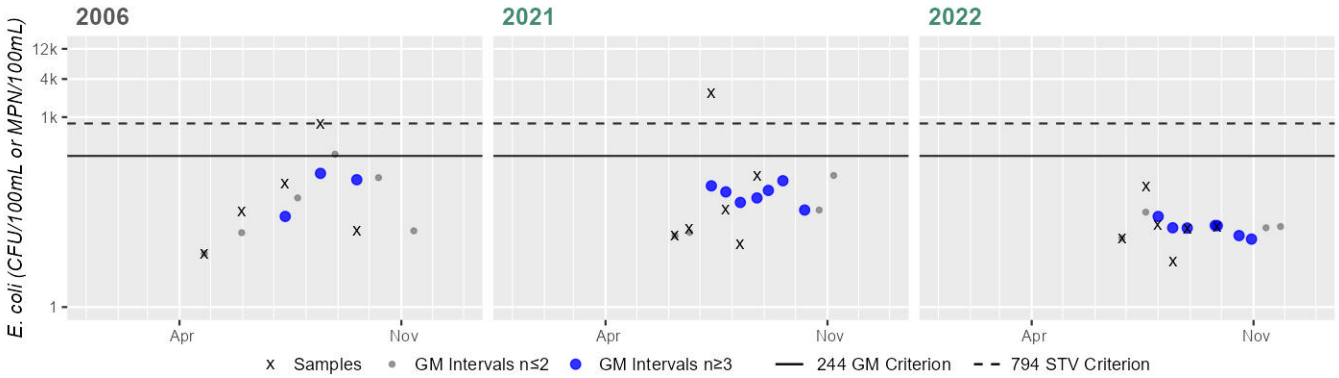
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(FRWA 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
FRWA_Buck-1030	Farmington River Watershed Association	E. coli	06/07/21	08/25/21	6	9	2419	52
FRWA_Buck-1030	Farmington River Watershed Association	E. coli	06/27/22	09/27/22	6	5	81	17
W1445	MassDEP	E. coli	04/25/06	09/19/06	5	7	768	47

Station FRWA_Buck-1030 & MASSDEP_W1445 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	47
#GMI	3
#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	1
%n>STV	16%

Variable*	Result
Samples	6
SeasGM	17
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

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

Cherry Brook (MA31-18)

Location:	Headwaters, perennial portion, north of York Lake Road, Sandisfield to mouth at confluence with Sandy Brook, Sandisfield.
AU Type:	RIVER
AU Size:	2.4 MILES
Classification/Qualifier:	B: CWF, HQW

No usable data were available for Cherry Brook (MA31-18) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

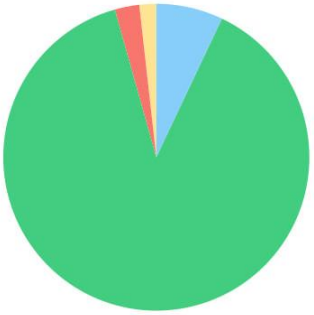
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Clam River (MA31-03)

Location:	Headwaters, perennial portion, outlet small unnamed pond, Otis to mouth at confluence with West Branch Farmington River, Sandisfield (excluding the 0.8 miles thru the Clam Lake Dam (NATID: MA01052) impoundment).
AU Type:	RIVER
AU Size:	7.9 MILES
Classification/Qualifier:	B: CWF, HQW

Clam River (MA31-03)

Watershed Area: 31.39 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	31.39	8.02	7.71	2.01
Agriculture	1.8%	2%	1.5%	2.4%
Developed	2.6%	2.5%	3.7%	5.4%
Natural	88.6%	93.3%	82.6%	86.8%
Wetland	7.1%	2.2%	12.2%	5.4%
Impervious	1.1%	1%	1.5%	1.9%

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 (Y)	X	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Clam River (MA31-03) was Not Assessed because fish toxics sampling was not conducted.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Clam River (MA31-03) is assessed as Fully Supporting. MassDEP staff recorded aesthetics observations at one station in the upstream half of this Clam River AU ~2150 feet upstream from the confluence of the unnamed tributary from Lower Spectacle Pond, Sandisfield (W2259), in summer 2012 (n=6). 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
W2259	MassDEP	Water Quality	Clam River	[approximately 2150 feet upstream from the confluence of the unnamed tributary from Lower Spectacle Pond, Sandisfield]	42.159460	-73.127924

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
W2259	2012	6	Aesthetic observations were made by MassDEP field sampling crews at Station W2259 on Clam River (MA31-03) 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
W2259	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
W2259	Clam River	2012	Aquatic Plant Density, Overall	None	6	6
W2259	Clam River	2012	Color	Light Yellow/Tan	4	6
W2259	Clam River	2012	Color	None	2	6
W2259	Clam River	2012	Objectionable Deposits	No	6	6
W2259	Clam River	2012	Odor	None	6	6
W2259	Clam River	2012	Periphyton Density, Filamentous	None	6	6
W2259	Clam River	2012	Periphyton Density, Film	Dense	1	6
W2259	Clam River	2012	Periphyton Density, Film	None	5	6
W2259	Clam River	2012	Scum	No	6	6
W2259	Clam River	2012	Turbidity	None	6	6

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Clam River (MA31-03) continues to be assessed as Fully Supporting based on bacteria data collected in 2012, 2021 & 2022 at 2 stations. MassDEP and Farmington River Watershed Association (FRWA) staff/volunteers collected *E. coli* bacteria samples in this Clam River AU from 2012-2022 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: Close to the upstream end of the AU at W2259 [~2150 ft upstream from the confluence of the unnamed tributary from Lower Spectacle Pond, Sandisfield] from May-Sep 2012 (n=6) and close to the downstream end of the AU at FRWA_Clam-2000 [40 River Rd, Sandisfield] in 2021-2022 (n=5-6/yr). Analysis of the single year limited frequency *E. coli* dataset from W2259 indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 12 CFU/100ml. Analysis of the multi-year limited frequency *E. coli* dataset from FRWA_Clam-2000 indicated 0 out of 2 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 0% of intervals had GMs >126 CFU/100ml. *E. coli* data from W2259 and FRWA_Clam-2000 were indicative of good water quality conditions.

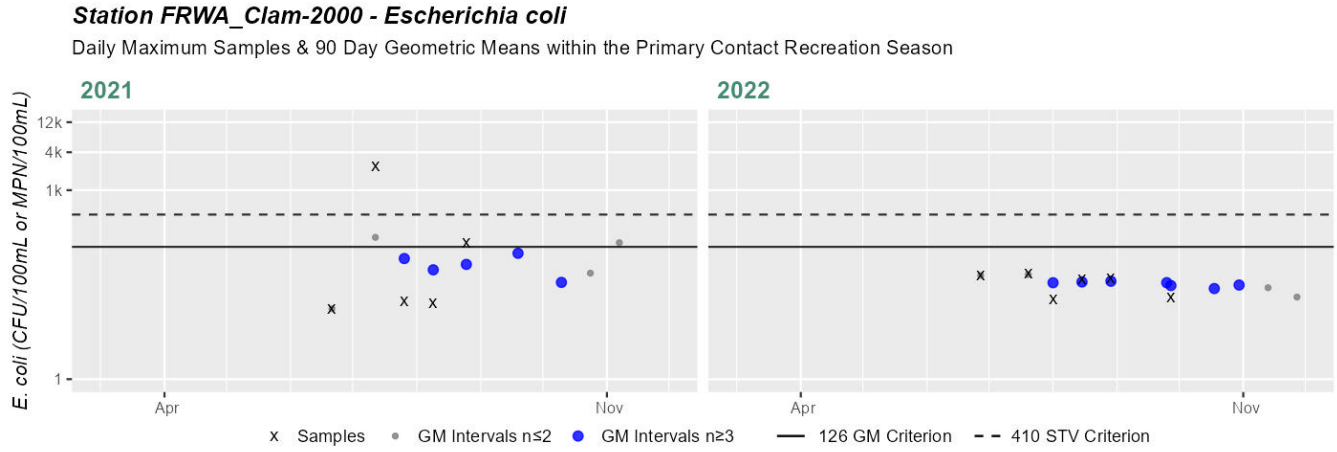
Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
FRWA_Clam-2000	Farmington River Watershed Association	Water Quality	Clam River	40 River Rd, Sandisfield	42.09592	-73.08794
W2259	MassDEP	Water Quality	Clam River	[approximately 2150 feet upstream from the confluence of the unnamed tributary from Lower Spectacle Pond, Sandisfield]	42.159460	-73.127924

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)
(FRWA 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
FRWA_Clam-2000	Farmington River Watershed Association	E. coli	06/21/21	08/25/21	5	13	2419	66
FRWA_Clam-2000	Farmington River Watershed Association	E. coli	06/27/22	09/27/22	6	18	47	32
W2259	MassDEP	E. coli	05/10/12	09/13/12	6	3	39	12



Variable*	Result
Samples	5
SeasGM	66
#GMI	5
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	20%

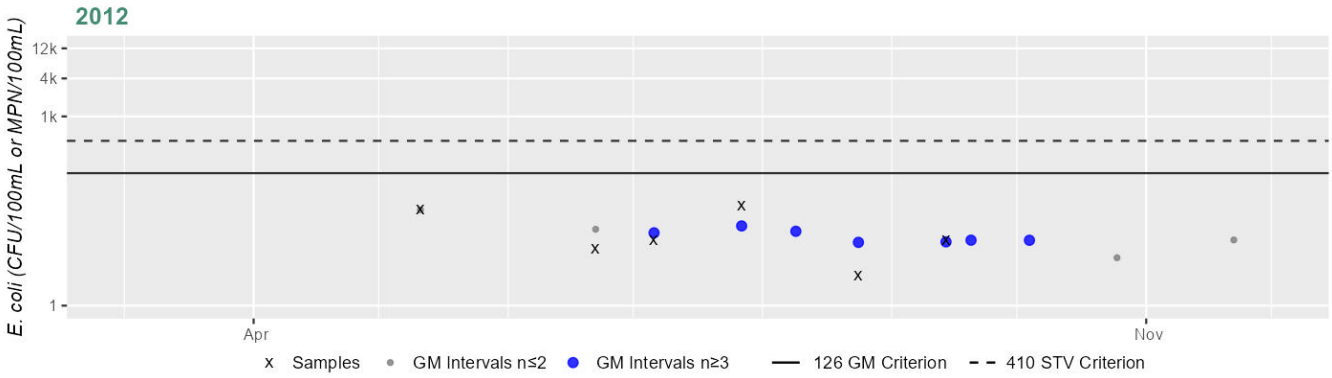
Variable*	Result
Samples	6
SeasGM	32
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Station MASSDEP_W2259 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	12
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

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

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for the Clam River (MA31-03) continues to be assessed as Fully Supporting based on a re-evaluation of bacteria data collected in 2006, 2012, 2021 & 2022 at 3 stations. MassDEP and Farmington River Watershed Association (FRWA) staff/volunteers collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in this Clam River AU from 2006-2022 at 3 stations. Samples were collected from the following stations/sample years from upstream to downstream: close to the upstream end of the AU at W2259 [~2150 ft upstream from the confluence of the unnamed tributary from Lower Spectacle Pond, Sandisfield] from May-Sep 2012 (n=6) and close to the downstream end of the AU at FRWA_Clam-2000 [40 River Rd, Sandisfield] in 2021-2022 (n=5-6/yr) and W0206 [Rt. 57 bridge, Sandisfield] from Apr-Sep 2006 (n=5). Analysis of the single year limited frequency *E. coli* dataset from W2259 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 12 CFU/100ml. Analysis of the multi-year limited frequency *E. coli* dataset from FRWA_Clam-2000 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. Overall, *E. coli* data collected in both the historic & the current IR window were all indicative of good water quality conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
FRWA_Clam-2000	Farmington River Watershed Association	Water Quality	Clam River	40 River Rd, Sandisfield	42.09592	-73.08794
W0206	MassDEP	Water Quality	Clam River	[Route 57 bridge, Sandisfield]	42.094746	-73.086657
W2259	MassDEP	Water Quality	Clam River	[approximately 2150 feet upstream from the confluence of the unnamed tributary from Lower Spectacle Pond, Sandisfield]	42.159460	-73.127924

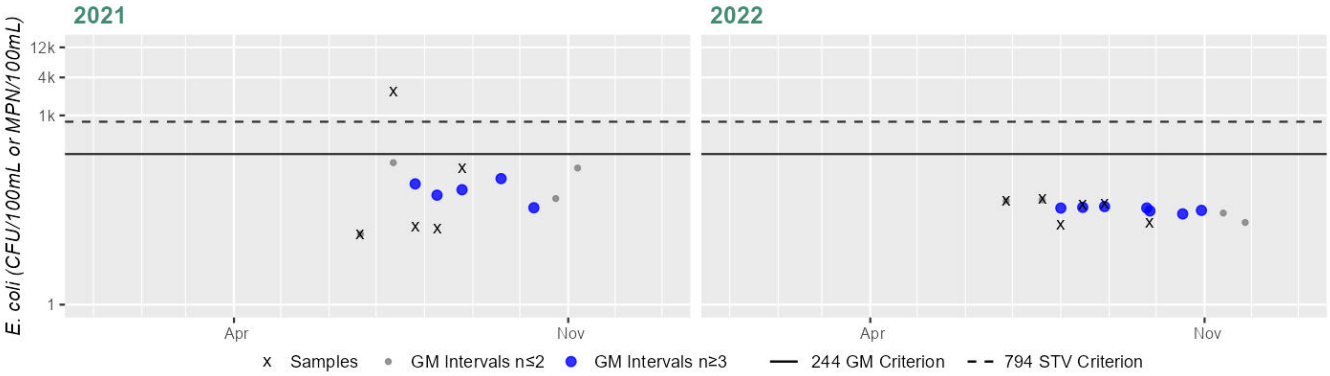
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(FRWA 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
FRWA_Clam-2000	Farmington River Watershed Association	E. coli	06/21/21	08/25/21	5	13	2419	66
FRWA_Clam-2000	Farmington River Watershed Association	E. coli	06/27/22	09/27/22	6	18	47	32
W0206	MassDEP	E. coli	04/25/06	09/19/06	5	4	120	17
W2259	MassDEP	E. coli	05/10/12	09/13/12	6	3	39	12

Station FRWA_Clam-2000 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	66
#GMI	5
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	20%

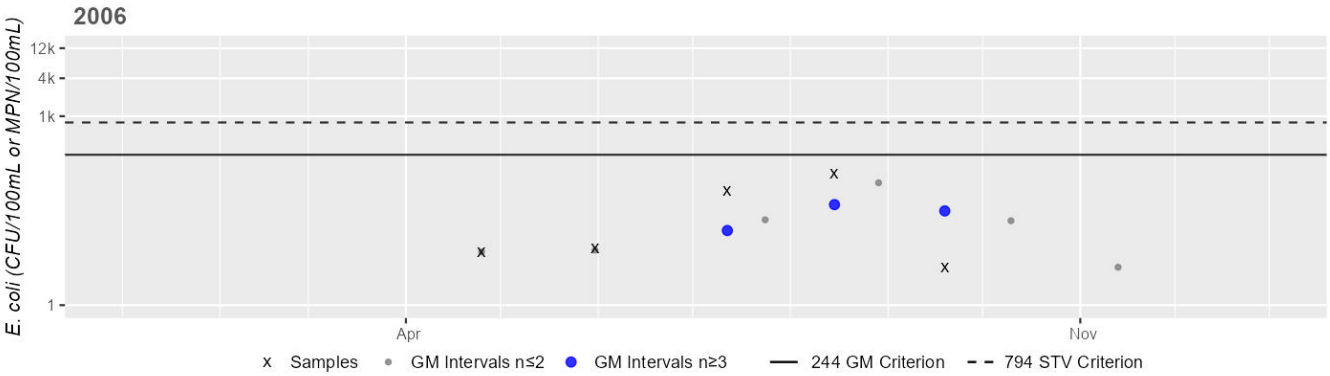
Variable*	Result
Samples	6
SeasGM	32
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Station MASSDEP_W0206 - Escherichia coli

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



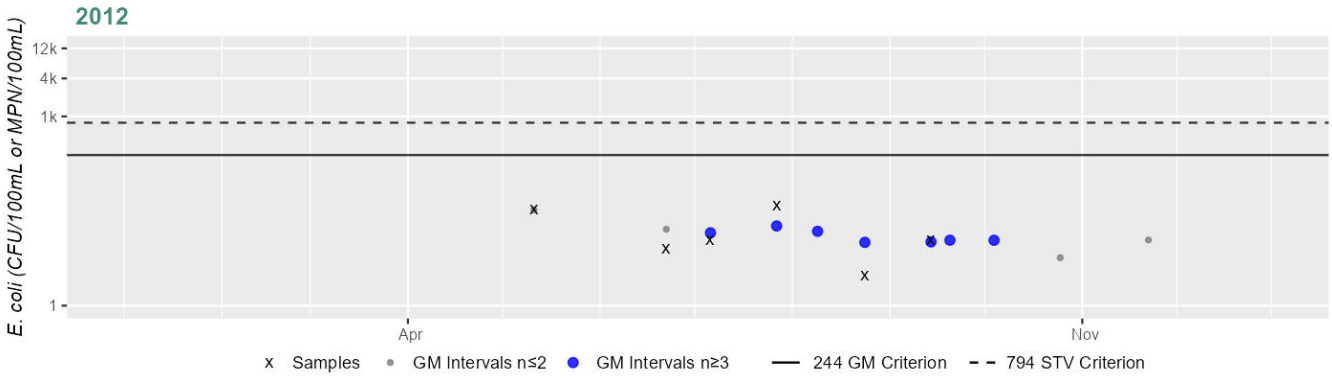
Variable*	Result
Samples	5
SeasGM	17
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Station MASSDEP_W2259 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	12
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

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

Cone Brook (MA31-08)

Location:	Headwaters, drainage from Angerman Swamp in Beartown State Forest, Otis to mouth at inlet Hayden Pond, Otis.
AU Type:	RIVER
AU Size:	2.1 MILES
Classification/Qualifier:	B: CWF, HQW

No usable data were available for Cone Brook (MA31-08) 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

Cranberry Pond (MA31008)

Location:	Tolland.
AU Type:	FRESHWATER LAKE
AU Size:	75 ACRES
Classification/Qualifier:	B: HQW (no lakes in the state have a CWF designation)

No usable data were available for Cranberry Pond (MA31008) 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

Cranberry Pond Brook (MA31-21)

Location:	Headwaters, outlet Cranberry Pond, Tolland to mouth at confluence with Slocum Brook, Tolland.
AU Type:	RIVER
AU Size:	1.6 MILES
Classification/Qualifier:	B: CWF, HQW

Cranberry Pond Brook (MA31-21)

Watershed Area: 1.32 square miles

Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	1.32	1.32	0.43	0.43
Agriculture	0%	0%	0%	0%
Developed	6.4%	6.4%	8.4%	8.4%
Natural	91.1%	91.1%	91.1%	91.1%
Wetland	2.5%	2.5%	0.5%	0.5%
Impervious	3.8%	3.8%	5.1%	5.1%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Lack of a Coldwater Assemblage	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Lack of a Coldwater Assemblage	Dam or Impoundment (N)	X	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Cranberry Pond Brook (MA31-21) was Not Assessed because fish toxics sampling was not conducted.

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 Cranberry Pond Brook AU (MA31-21), 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 Cranberry Pond Brook (MA31-21) 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 Cranberry Pond Brook (MA31-21) 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 halfway down this Cranberry Pond Brook AU at W1442 [Colebrook River Rd bridge nearest Rivers Rd, Tolland] from Apr-Sep 2006 (n=5). Analysis of this historic single year limited frequency *E. coli* dataset from W1442 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 14 CFU/100ml. Historic *E. coli* data from W1442 were indicative of good water quality conditions. 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
W1442	MassDEP	Water Quality	Cranberry Pond Brook	[Colebrook River Road bridge nearest Rivers Road, Tolland]	42.054284	-73.017324

Bacteria Data

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

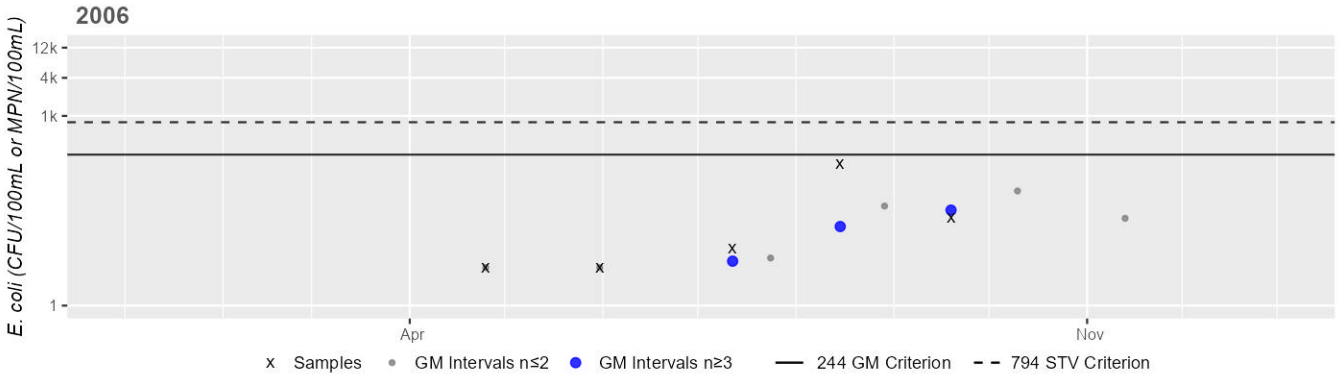
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1442	MassDEP	E. coli	04/25/06	09/19/06	5	4	176	14

Station MASSDEP_W1442 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	14
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Creek Pond (MA31009)

Location:	(Watson Pond) Otis.
AU Type:	FRESHWATER LAKE
AU Size:	52 ACRES
Classification/Qualifier:	B: HQW (no lakes in the state have a CWF designation)

No usable data were available for Creek Pond (MA31009) 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

Dimmock Brook (MA31-10)

Location:	Outlet of Dimmock Brook Pond, Otis to mouth at confluence with West Branch Farmington River, Otis.
AU Type:	RIVER
AU Size:	1 MILES
Classification/Qualifier:	B: CWF, HQW

Dimmock Brook (MA31-10)

Watershed Area: 5.15 square miles

Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	5.15	4.05	1.15	0.85
Agriculture	0.1%	0.2%	0.2%	0.3%
Developed	3.8%	2.9%	3%	2.8%
Natural	82.4%	84.2%	75.3%	77.5%
Wetland	13.7%	12.8%	21.4%	19.5%
Impervious	1.8%	1.3%	1.8%	1.7%

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Dimmock Brook (MA31-10) was Not Assessed because fish toxics sampling was not conducted.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Dimmock Brook (MA31-10) 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 Dimmock Brook (MA31-10) 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 Dimmock Brook (MA31-10) 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 a quarter of the way down this Dimmock Brook AU at W0211 [Rt. 23 bridge, Otis] from Apr-Sep 2006 (n=5). Analysis of this historic single year limited frequency *E. coli* dataset from W0211 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 8 CFU/100ml. Historic *E. coli* data from W0211 were indicative of good water quality conditions. 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
W0211	MassDEP	Water Quality	Dimmock Brook	[Route 23 bridge, Otis]	42.195453	-73.077099

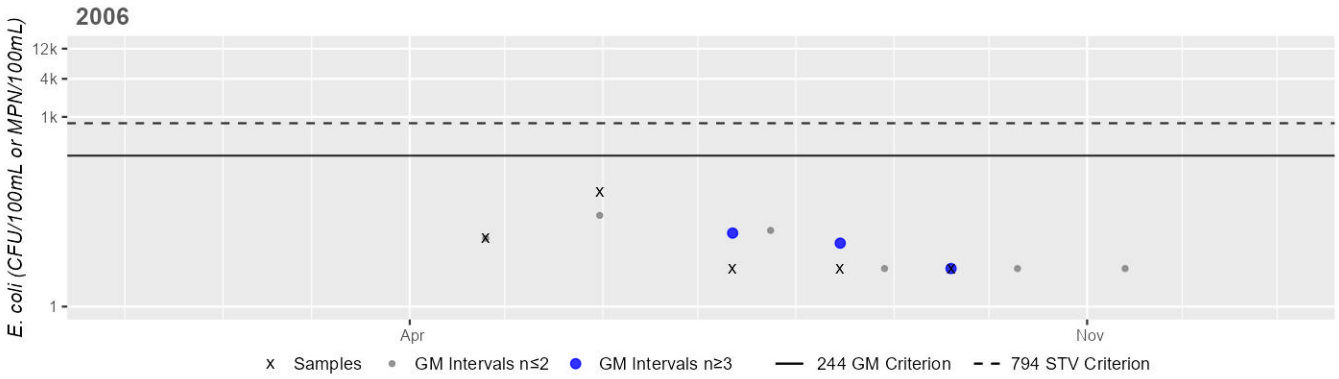
Bacteria Data

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
W0211	MassDEP	E. coli	04/25/06	09/19/06	5	4	64	8

Station MASSDEP_W0211 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	8
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Dimmock Brook Pond (MA31010)

Location:	Otis.
AU Type:	FRESHWATER LAKE
AU Size:	15 ACRES
Classification/Qualifier:	B: HQW (no lakes in the state have a CWF designation)

No usable data were available for Dimmock Brook Pond (MA31010) 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

East Branch Salmon Brook (MA31-40)

Location:	Headwaters, perennial portion, Granville to MA/CT border, Granville.
AU Type:	RIVER
AU Size:	0.1 MILES
Classification/Qualifier:	B: CWF, HQW

No usable data were available for East Branch Salmon Brook (MA31-40) 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

Ellis Brook (MA31-35)

Location:	Headwaters, outlet Shaughnessy Swamp, north of Route 57, Granville to mouth at confluence with Valley Brook, Granville.
AU Type:	RIVER
AU Size:	0.8 MILES
Classification/Qualifier:	B: CWF, HQW

No usable data were available for Ellis Brook (MA31-35) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Fall River (MA31-02)

Location:	Headwaters, outlet Larkum Pond, Otis to mouth at confluence with West Branch Farmington River, Otis.
AU Type:	RIVER
AU Size:	0.8 MILES
Classification/Qualifier:	B: CWF, HQW

Fall River (MA31-02)

Watershed Area: 16.63 square miles

Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	16.63	9.22	5.58	3.91
Agriculture	0.6%	0.8%	0.3%	0.2%
Developed	5.6%	6.9%	6.4%	7.7%
Natural	79.7%	81.5%	81.1%	85.9%
Wetland	14.1%	10.8%	12.3%	6.3%
Impervious	2.8%	3.5%	3.2%	3.9%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Lack of a Coldwater Assemblage	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Lack of a Coldwater Assemblage	Dam or Impoundment (N)	X	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Fall River (MA31-02) was Not Assessed because fish toxics sampling was not conducted.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Fall River (MA31-02) 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 Fall River (MA31-02) is assessed as Fully Supporting based on bacteria data collected in 2021 and 2022 at 1 station. Farmington River Watershed Association (FRWA) staff/volunteers collected *E. coli* bacteria samples three-quarters of the way down this Fall River AU at FRWA_Fall-160 [329 Reservoir Rd, Otis] in 2021-2022 (n=6/yr). Analysis of the multi-year limited frequency *E. coli* dataset from FRWA_Fall-160 indicated 0 out of 2 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 7% of intervals had GMs >126 CFU/100ml. *E. coli* data from FRWA_Fall-160 were indicative of good water quality conditions.

Monitoring Stations

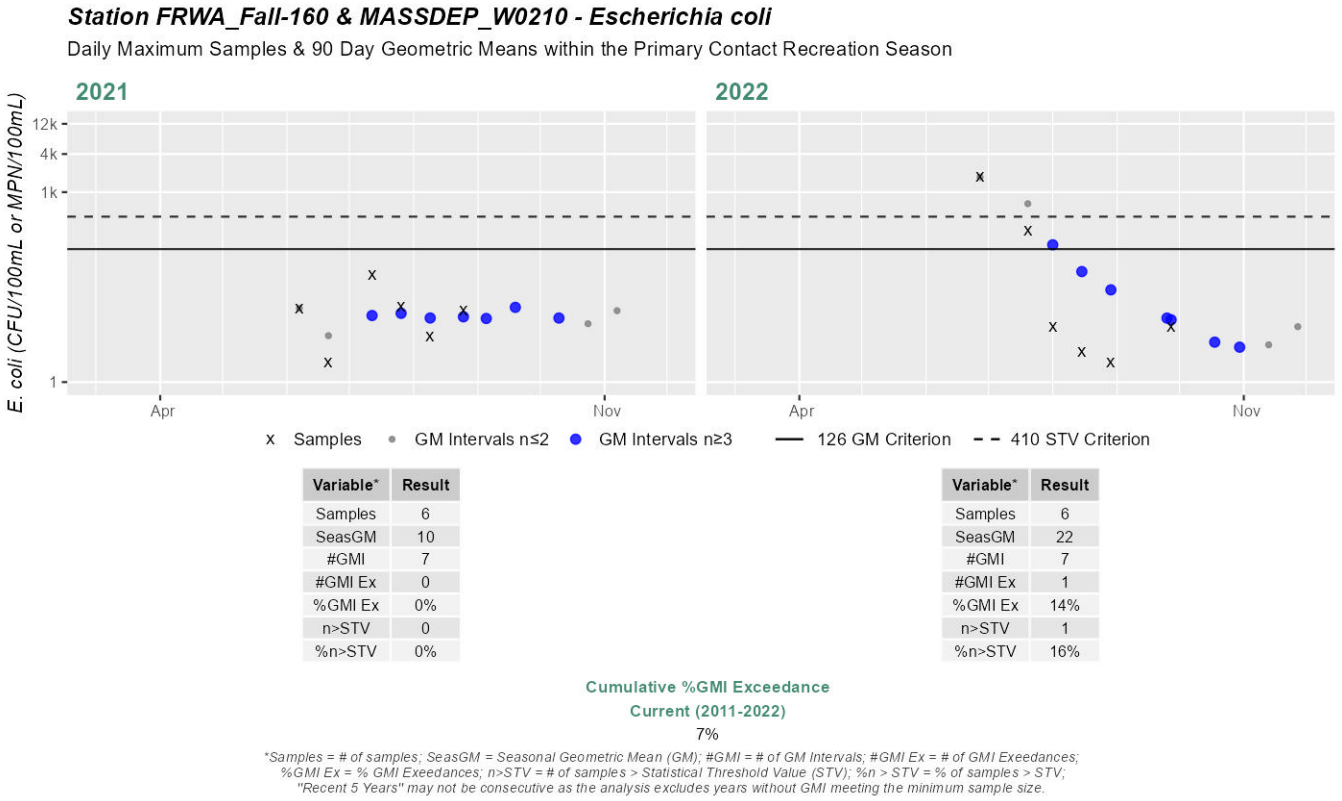
Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
FRWA_Fall-160	Farmington River Watershed Association	Water Quality	Fall River	329 Reservoir Rd, Otis	42.15895	-73.0693

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)
(FRWA 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
FRWA_Fall-160	Farmington River Watershed Association	E. coli	06/07/21	08/25/21	6	2	48	10
FRWA_Fall-160	Farmington River Watershed Association	E. coli	06/27/22	09/27/22	6	2	1732	22



Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Fall River (MA31-02) is assessed as Fully Supporting based on a re-evaluation of bacteria data collected in 2006, 2021 and 2022 at 1 combined station. MassDEP and Farmington River Watershed Association (FRWA) staff/volunteers collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) three-quarters of the way down this Fall River AU at FRWA_Fall-160 & W0210 [329 Reservoir Rd, Otis & Reservoir Rd bridge, Otis] from Apr-Sep 2006 (historic n=5) and 2021-2022 (current n=6/yr). Analysis of the multi-year limited frequency *E. coli* dataset from FRWA_Fall-160 & W0210 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. Overall, *E. coli* data collected in both the historic & the current IR window from Fall River were all indicative of good water quality conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
FRWA_Fall-160	Farmington River Watershed Association	Water Quality	Fall River	329 Reservoir Rd, Otis	42.15895	-73.0693
W0210	MassDEP	Water Quality	Fall River	[Reservoir Road bridge, Otis]	42.158925	-73.069507

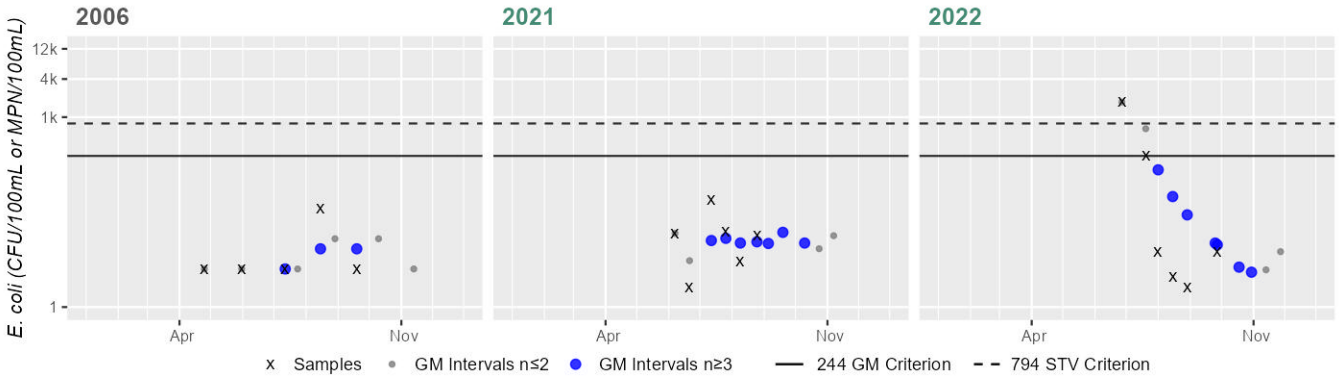
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(FRWA 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
FRWA_Fall-160	Farmington River Watershed Association	E. coli	06/07/21	08/25/21	6	2	48	10
FRWA_Fall-160	Farmington River Watershed Association	E. coli	06/27/22	09/27/22	6	2	1732	22
W0210	MassDEP	E. coli	04/25/06	09/19/06	5	4	36	6

Station FRWA_Fall-160 & MASSDEP_W0210 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	6
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	10
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	22
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	16%

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

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

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

Halfway Brook (MA31-31)

Location:	Headwaters, outlet of wetland in Granville State Forest, Tolland to mouth at confluence with Hubbard Brook, Granville.
AU Type:	RIVER
AU Size:	1.8 MILES
Classification/Qualifier:	B: CWF, HQW

No usable data were available for Halfway Brook (MA31-31) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Hall Pond Brook (MA31-34)

Location:	Headwaters, outlet Hall Pond, Tolland to mouth at confluence with Babcock Brook (forming headwaters Hubbard Brook), Tolland.
AU Type:	RIVER
AU Size:	2.3 MILES
Classification/Qualifier:	B: CWF, HQW

No usable data were available for Hall Pond Brook (MA31-34) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Hayden Pond (MA31016)

Location:	Otis.
AU Type:	FRESHWATER LAKE
AU Size:	28 ACRES
Classification/Qualifier:	B: HQW (no lakes in the state have a CWF designation)

No usable data were available for Hayden Pond (MA31016) 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	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged

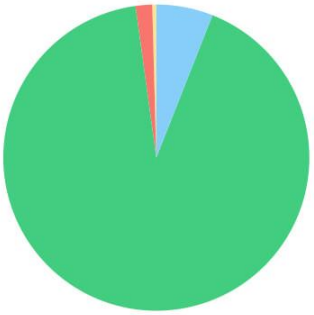
Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Eurasian Water Milfoil, Myriophyllum Spicatum*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Hubbard Brook (MA31-16)

Location:	Headwaters, confluence Babcock Brook and Hall Pond Brook, Tolland to MA/CT border Granville.
AU Type:	RIVER
AU Size:	4 MILES
Classification/Qualifier:	B: CWF, HQW

Hubbard Brook (MA31-16)

Watershed Area: 20.63 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area* (square miles)	19.95	7.91	5.12	1.97
Agriculture	0.4%	0.7%	0.1%	0.2%
Developed	1.7%	2.3%	1.7%	2%
Natural	91.8%	93.3%	86.4%	92.2%
Wetland	6%	3.6%	11.9%	5.6%
Impervious	0.9%	1%	0.9%	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	Dam or Impoundment (Y)	X	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Hubbard Brook (MA31-16) was Not Assessed because fish toxics sampling was not conducted.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Hubbard Brook (MA31-16) is assessed as Fully Supporting. MassDEP staff recorded aesthetics observations at two stations in Granville close to the downstream end of this Hubbard Brook AU, as part of the Reference Site Network monitoring project. West of Hartland Hollow Road, ~75 feet upstream of confluence with Pond Brook (W2891) in summer 2019 (n=4) and west off Hartland Hollow Road, just upstream of unnamed tributary to northern bank and ~350 feet downstream of Pond Brook confluence (W2720) in summer 2017 (n=5). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded at either station.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2720	MassDEP	Water Quality	Hubbard Brook	[west off Hartland Hollow Road, just upstream of unnamed tributary to northern bank and approximately 350 feet downstream of Pond Brook confluence, Granville]	42.038557	-72.940653
W2891	MassDEP	Water Quality	Hubbard Brook	[west of Hartland Hollow Road, approximately 75 feet upstream of confluence with Pond Brook, Granville]	42.038836	-72.942138

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
W2720	2017	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2720 on Hubbard Brook (MA31-16) during 5 site visits between May 2017 and Sep 2017. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2891	2019	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2891 on Hubbard Brook (MA31-16) 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
W2720	2017	5	5	0
W2891	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
W2720	Hubbard Brook	2017	Aesthetics Impaired?	No	5	5
W2720	Hubbard Brook	2017	Aquatic Plant Density, Overall	None	5	5
W2720	Hubbard Brook	2017	Color	Light Yellow/Tan	1	5
W2720	Hubbard Brook	2017	Color	None	4	5
W2720	Hubbard Brook	2017	Objectionable Deposits	No	5	5
W2720	Hubbard Brook	2017	Odor	None	5	5
W2720	Hubbard Brook	2017	Periphyton Density, Filamentous	None	3	5
W2720	Hubbard Brook	2017	Periphyton Density, Filamentous	Sparse	2	5
W2720	Hubbard Brook	2017	Periphyton Density, Film	None	3	5
W2720	Hubbard Brook	2017	Periphyton Density, Film	Sparse	2	5
W2720	Hubbard Brook	2017	Scum	No	5	5
W2720	Hubbard Brook	2017	Turbidity	None	5	5
W2891	Hubbard Brook	2019	Aesthetics Impaired?	No	4	4
W2891	Hubbard Brook	2019	Aquatic Plant Density, Overall	None	4	4
W2891	Hubbard Brook	2019	Color	None	4	4
W2891	Hubbard Brook	2019	Objectionable Deposits	No	4	4
W2891	Hubbard Brook	2019	Odor	None	4	4
W2891	Hubbard Brook	2019	Periphyton Density, Filamentous	None	3	4
W2891	Hubbard Brook	2019	Periphyton Density, Filamentous	Sparse	1	4
W2891	Hubbard Brook	2019	Periphyton Density, Film	None	2	4
W2891	Hubbard Brook	2019	Periphyton Density, Film	Sparse	2	4
W2891	Hubbard Brook	2019	Scum	No	4	4
W2891	Hubbard Brook	2019	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 Hubbard Brook (MA31-16) is assessed as Fully Supporting based on bacteria data collected in 2021 & 2022 at 1 station. Farmington River Watershed Association (FRWA) staff/volunteers collected *E. coli* bacteria samples a third of the way down this Hubbard Brook AU at FRWA_Hubb-1460 [W Hartland Rd, Granville] in 2021-2022 (n=5-6/yr). Analysis of the multi-year limited frequency *E. coli* dataset from FRWA_Hubb-1460 indicated 0 out of 2 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 0% of intervals had GMs >126 CFU/100ml. *E. coli* data from FRWA_Hubb-1460 were indicative of good water quality conditions.

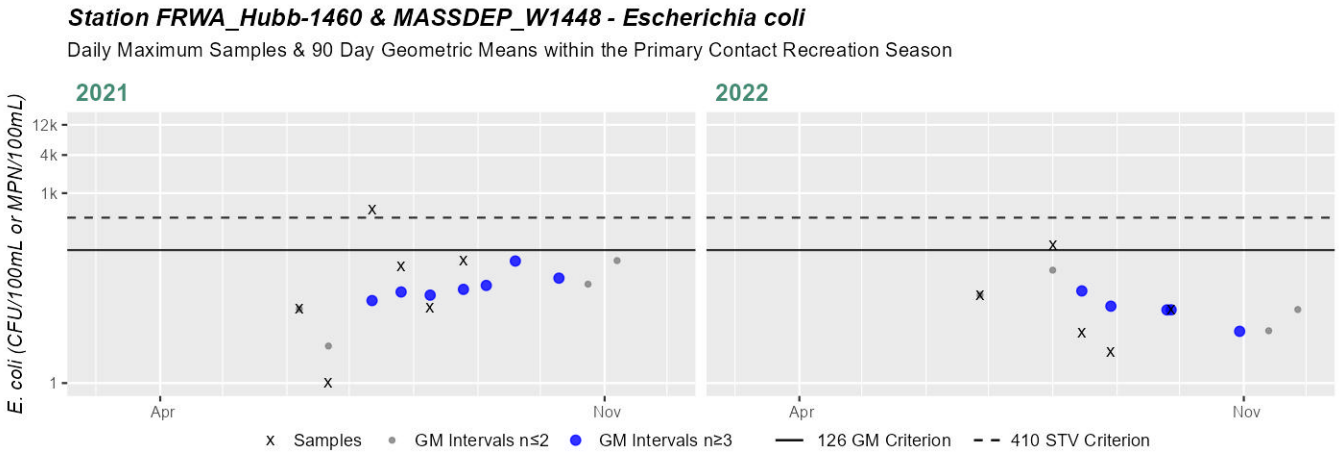
Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
FRWA_Hubb-1460	Farmington River Watershed Association	Water Quality	Hubbard River	West Hartland Rd, Granville	42.063804	-72.96595

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)
(FRWA 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
FRWA_Hubb-1460	Farmington River Watershed Association	E. coli	06/07/21	08/25/21	6	1	547	30
FRWA_Hubb-1460	Farmington River Watershed Association	E. coli	06/27/22	09/27/22	5	3	150	15



Variable*	Result
Samples	6
SeasGM	30
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	16%

Variable*	Result
Samples	5
SeasGM	15
#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 Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Hubbard Brook (MA31-16) is assessed as Fully Supporting based on a re-evaluation of bacteria data collected in 2006, 2021 & 2022 at 1 combined station. MassDEP and Farmington River Watershed Association (FRWA) staff/volunteers collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) a third of the way down this Hubbard Brook AU at FRWA_Hubb-1460 & W1448 [W Hartland Rd bridge, Granville] from Apr-Sep 2006 (historic n=5) and 2021-2022 (current n=5-6/yr). Analysis of the multi-year limited frequency *E. coli* dataset from FRWA_Hubb-1460 & W1448 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. Overall, *E. coli* data collected in both the historic & the current IR window from Hubbard Brook were all indicative of good water quality conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
FRWA_Hubb-1460	Farmington River Watershed Association	Water Quality	Hubbard River	West Hartland Rd, Granville	42.063804	-72.96595
W1448	MassDEP	Water Quality	Hubbard Brook	[West Hartland Road bridge, Granville]	42.063804	-72.966017

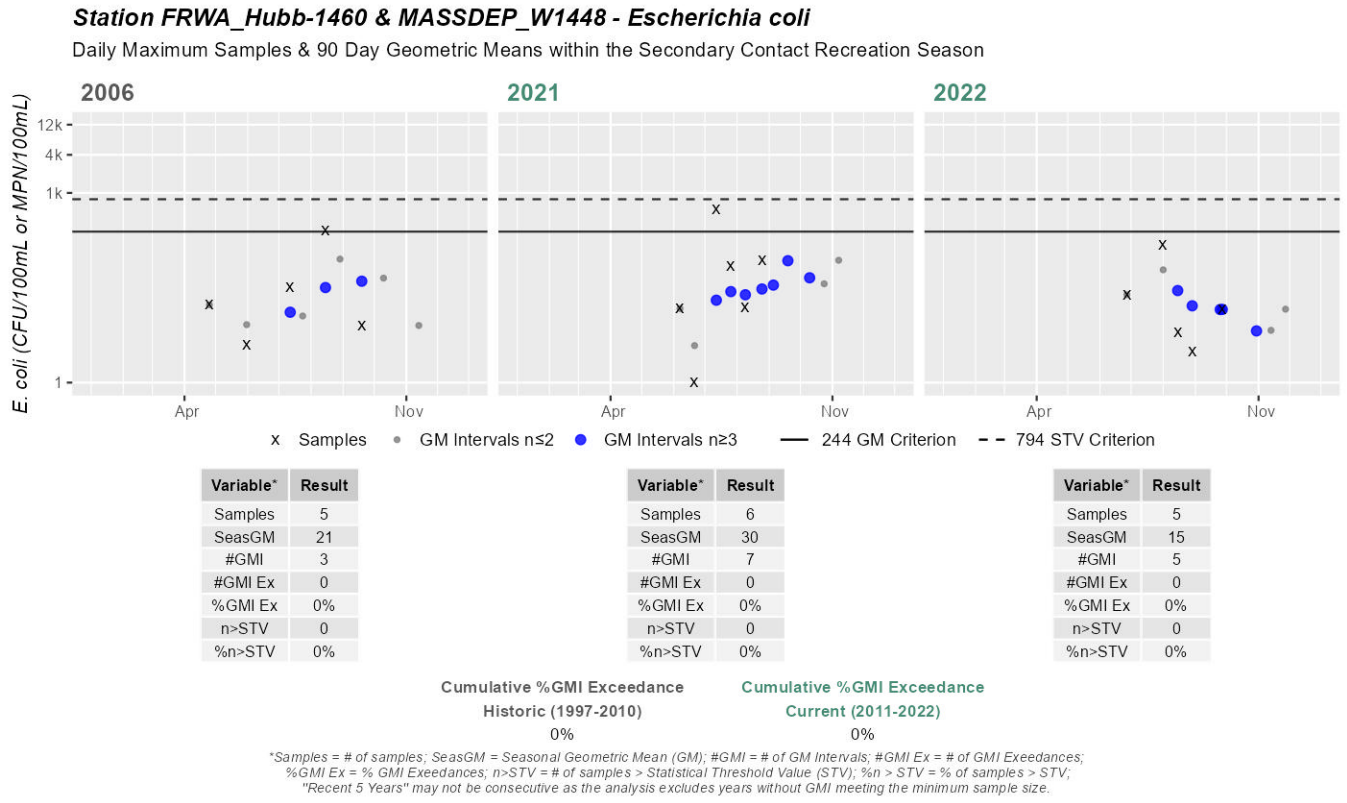
Bacteria Data

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

(FRWA 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
FRWA_Hubb-1460	Farmington River Watershed Association	E. coli	06/07/21	08/25/21	6	1	547	30
FRWA_Hubb-1460	Farmington River Watershed Association	E. coli	06/27/22	09/27/22	5	3	150	15
W1448	MassDEP	E. coli	04/25/06	09/19/06	5	4	252	21



Variable*	Result
Samples	5
SeasGM	21
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	30
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	5
SeasGM	15
#GMI	5
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

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

Long Bow Lake (MA31019)

Location:	Becket.
AU Type:	FRESHWATER LAKE
AU Size:	26 ACRES
Classification/Qualifier:	B: HQW (no lakes in the state have a CWF designation)

No usable data were available for Long Bow Lake (MA31019) 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

Lower Spectacle Pond (MA31020)

Location:	Sandisfield.
AU Type:	FRESHWATER LAKE
AU Size:	70 ACRES
Classification/Qualifier:	B: HQW (no lakes in the state have a CWF designation)

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
The Fish Consumption Use for Lower Spectacle Pond (MA31020) was Not Assessed because fish toxics sampling was not conducted recently.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for Lower Spectacle Pond (MA31020) is assessed as Fully Supporting based on the observations from the MassDEP MAP2 macrophyte mapping survey in summer 2016. MassDEP staff recorded aesthetics observations as part of the MAP2 lake monitoring project in summer 2016 at two stations in Sandisfield, for this Lower Spectacle Pond AU; at the deep hole index site, at the southern end of pond (W2628/MAP2L-022, n=3) and at the southern end of pond, east of Lower Spectacle Pond Dam (NAT ID: MA00290), east of Cold Spring Rd (W2614/MAP2L-022S, n=5). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded or littoral zone duckweed recorded in ten shoreline plots (n=1). During the MAP2 macrophyte mapping survey (n=1) in Aug 2016, less than 25% (10.5%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2614	MassDEP	Water Quality	Lower Spectacle Pond	[at southern end of pond, east of Lower Spectacle Pond Dam (NAT ID: MA00290), east of Cold Spring Road, Sandisfield]	42.161295	-73.120135
W2628	MassDEP	Water Quality	Lower Spectacle Pond	[index site, southern end of pond, Sandisfield]	42.162593	-73.118042

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
W2614	2016	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2614 (MAP2L-022S) on Lower Spectacle Pond (MA31020) 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.
W2628	2016	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2628 (MAP2L-022) on Lower Spectacle Pond (MA31020) 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 Aug 2016, less than 25% (10.5%) 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
W2614	Lower Spectacle Pond	2016	Aesthetics Impaired?	No	5	5
W2614	Lower Spectacle Pond	2016	Color	Light Yellow/Tan	2	5
W2614	Lower Spectacle Pond	2016	Color	None	3	5
W2614	Lower Spectacle Pond	2016	Objectionable Deposits	No	5	5
W2614	Lower Spectacle Pond	2016	Odor	None	5	5
W2614	Lower Spectacle Pond	2016	Scum	No	4	5
W2614	Lower Spectacle Pond	2016	Scum	Yes	1	5
W2614	Lower Spectacle Pond	2016	Turbidity	None	3	5
W2614	Lower Spectacle Pond	2016	Turbidity	Slightly Turbid	2	5
W2628	Lower Spectacle Pond	2016	Aesthetics Impaired?	No	3	3
W2628	Lower Spectacle Pond	2016	Aquatic Plant Density, Overall	None	1	3
W2628	Lower Spectacle Pond	2016	Aquatic Plant Density, Overall	NR	1	3
W2628	Lower Spectacle Pond	2016	Aquatic Plant Density, Overall	Unobservable	1	3
W2628	Lower Spectacle Pond	2016	Color	Brownish	2	3
W2628	Lower Spectacle Pond	2016	Color	Light Yellow/Tan	1	3
W2628	Lower Spectacle Pond	2016	Objectionable Deposits	No	3	3
W2628	Lower Spectacle Pond	2016	Odor	None	3	3
W2628	Lower Spectacle Pond	2016	Scum	No	3	3
W2628	Lower Spectacle Pond	2016	Turbidity	Moderately Turbid	1	3
W2628	Lower Spectacle Pond	2016	Turbidity	None	1	3
W2628	Lower Spectacle Pond	2016	Turbidity	Slightly Turbid	1	3

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Lower Spectacle Pond (MA31020) is assessed as Fully Supporting based on bacteria data collected in 2016 at 1 station. MassDEP and EPA National Aquatic Resources Survey (NARS_WQX) staff collected *E. coli* bacteria samples in this Lower Spectacle Pond AU from 2016-2017 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: close to the southern end of the pond at NARS_WQX-NLA_MA-10036 in Jun 2017 (n=1) and W2614/MAP2L-022S [southern end of pond, E of Lower Spectacle Pond Dam (MA00290), E of Cold Spring Rd, Sandisfield] from May-Sep 2016 (n=5). Analysis of the single year limited frequency *E. coli* dataset from W2614 indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 4 CFU/100ml. The available *E. coli* data at NARS_WQX-NLA_MA-10036 are too limited to assess according to the 2024 CALM (1 sample 272 CFU/100ml). *E. coli* data from W2614 were indicative of good water quality conditions. EPA (NARS) also collected Secchi and cyanotoxin data at NARS_WQX-NLA_MA-10036 in 2017 and MassDEP collected Secchi depth and cyanobacteria cell count data at station W2628 [MAP2L-022, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at the shoreline station W2614 in 2016. At the MassDEP index station W2628 in 2016 (station depth=4 m), the Secchi depth measurements ranged from 1.2-2.55 m (n=3) indicating water clarity meeting the 1.2 m (4 ft) threshold. However, Secchi depth data were too limited (n <3) to evaluate water clarity using data from NARS_WQX-NLA_MA-10036 in 2017 (n=1, 1.66m). The cyanobacteria cell count did not exceed 70,000 cells/ml in any of the water samples collected at the two DEP stations in 2016 (n=6). Analysis of microcystins and cylindrospermopsin samples from the DEP shoreline station W2614 in 2016 (n=5) and NARS_WQX-NLA_MA-10036 in 2017 (n=2) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L.

Monitoring Stations

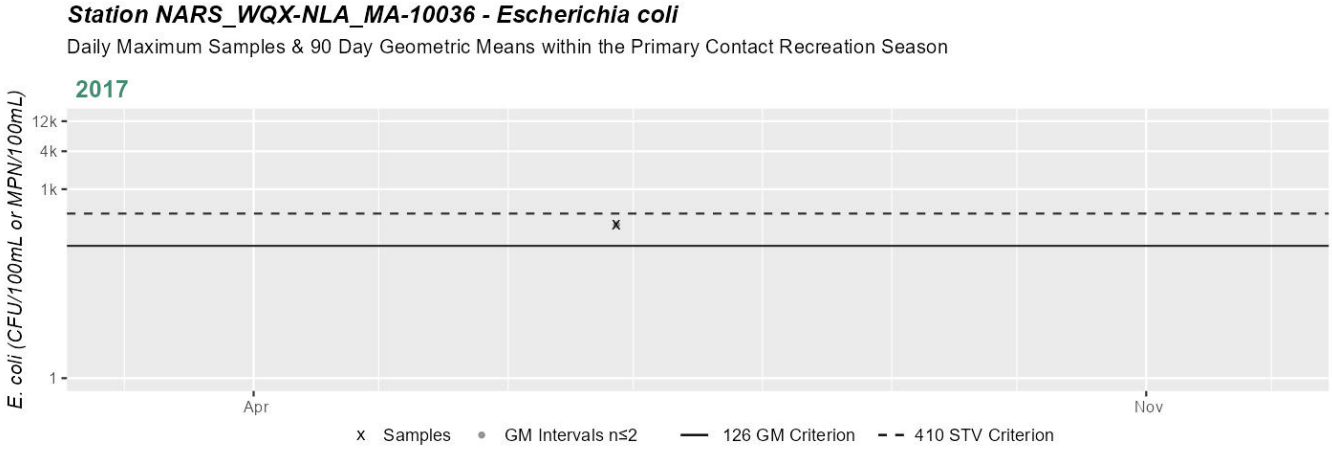
Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
NARS_WQX-NLA_MA-10036	EPA National Aquatic Resources Survey (NARS)	Water Quality	Lower Spectacle Pond	None	42.163341	-73.118017
W2614	MassDEP	Water Quality	Lower Spectacle Pond	[at southern end of pond, east of Lower Spectacle Pond Dam (NAT ID: MA00290), east of Cold Spring Road, Sandisfield]	42.161295	-73.120135
W2628	MassDEP	Water Quality	Lower Spectacle Pond	[index site, southern end of pond, Sandisfield]	42.162593	-73.118042

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (EPA 2024) (MassDEP Undated 2) (MassDEP Undated 6) (MassDEP Undated 4)

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

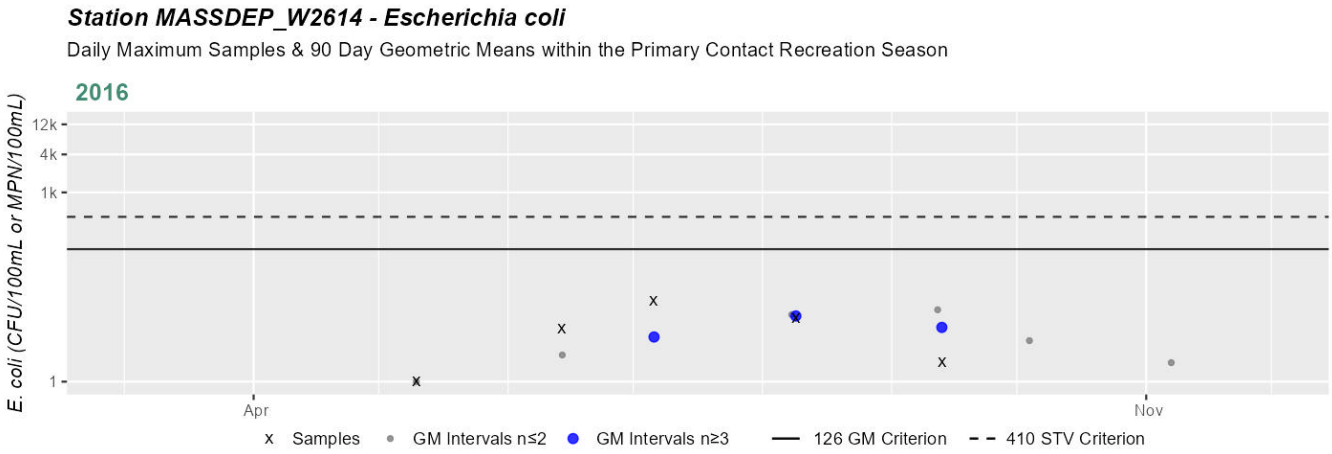
Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
NARS_WQX-NLA_MA-10036	EPA National Aquatic Resources Survey (NARS)	E. coli	06/27/17	06/27/17	1	272	272	272
W2614	MassDEP	E. coli	05/09/16	09/12/16	5	1	19	4



Variable*	Result
Samples	1
SeasGM	272
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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



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

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

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

Other Indicators

Summary Statement for 2011-2022 Cyanobacteria Cell Count and Cyanotoxin Data, and Secchi Depth Data (MassDEP Undated 6) (MassDEP Undated 4) (NWQMC 2025) (MassDEP Undated 2)

Data Year	Summary
2016-2017	In Lower Spectacle Pond (MA31020), EPA (NARS_WQX) collected Secchi and cyanotoxin data at NARS_WQX-NLA_MA-10036 in 2017. Additionally, in 2016 MassDEP collected Secchi and cyanobacteria cell count data at W2628 [MAP2L-022, Index-deep hole] and cyanobacteria cell count and cyanotoxin data at W2614 [MAP2L-022S, Shoreline]. At station NARS_WQX-NLA_MA-10036 (station depth=4.6 m) the Secchi depth (n=1) was measured to be 1.66 m on Jun 27, 2017 indicating water clarity meeting the 1.2 m (4 ft) threshold. In 2016 at the index station W2628 (station depth=4 m) the Secchi depth measurements ranged from 1.2-2.55 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 collected at the two DEP stations in 2016 (n=6). Analysis of microcystins and cylindrospermopsin samples from the DEP shoreline station W2614 in 2016 (n=5) and EPA NARS_WQX-NLA_MA-10036 in 2017 (n=2) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 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)
W2614	Lower Spectacle Pond	Shoreline	2016	3	0	NA
W2628	Lower Spectacle 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 Lower Spectacle Pond (MA31020) is assessed as Fully Supporting based on a re-evaluation of bacteria data collected in 2016 at 1 station. MassDEP and EPA National Aquatic Resources Survey (NARS_WQX) staff collected *E. coli* bacteria samples in this Lower Spectacle Pond AU from 2016-2017 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: close to the southern end of the pond at NARS_WQX-NLA_MA-10036 in Jun 2017 (n=1) and at W2614/MAP2L-022S [southern end of pond, E of Lower Spectacle Pond Dam (T ID: MA00290), E of Cold Spring Rd, Sandisfield] from May-Sep 2016 (n=5). Analysis of the single year limited frequency *E. coli* dataset from W2614 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the seasonal GM was 4 CFU/100ml. The available *E. coli* data at NARS_WQX-NLA_MA-10036 are too limited to assess according to the 2024 CALM (1 sample 272 CFU/100ml). *E. coli* data from W2614 were indicative of good water quality conditions. EPA (NARS) staff also collected cyanotoxins data at NARS_WQX-NLA_MA-10036 in 2017 and MassDEP staff collected cyanobacteria data at W2628 [index site, southern end of pond, Sandisfield] in 2016 and cyanotoxins at shoreline station W2614/MAP2L-022S in 2016. The cyanobacteria cell count did not exceed 70,000 cells/ml in any of the water samples. Analysis of microcystins and cylindrospermopsin samples from W2614 (n=5) and NARS_WQX-NLA_MA-10036 (n=2) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
NARS_WQX-NLA_MA-10036	EPA National Aquatic Resources Survey (NARS)	Water Quality	Lower Spectacle Pond	None	42.163341	-73.118017
W2614	MassDEP	Water Quality	Lower Spectacle Pond	[at southern end of pond, east of Lower Spectacle Pond Dam (NAT ID: MA00290), east of Cold Spring Road, Sandisfield]	42.161295	-73.120135

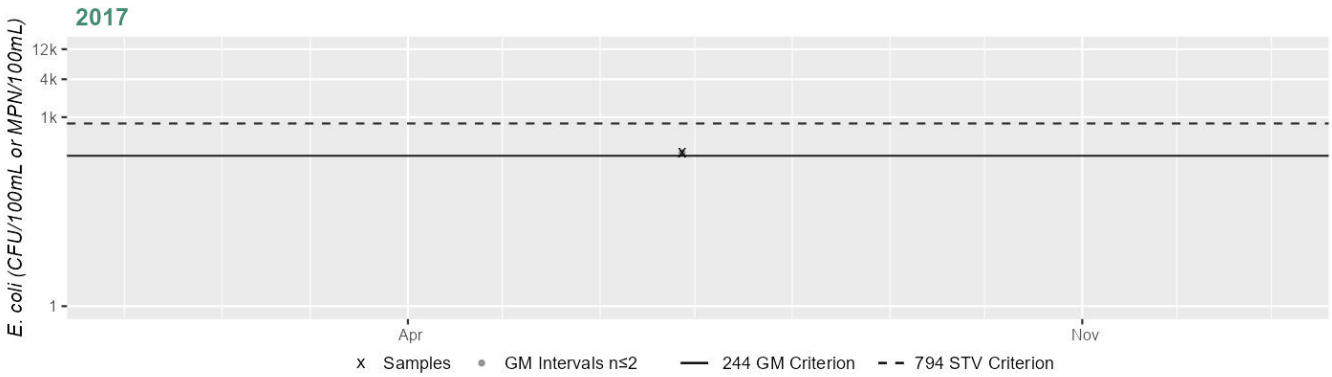
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis) (EPA 2024) (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
NARS_WQX-NLA_MA-10036	EPA National Aquatic Resources Survey (NARS)	E. coli	06/27/17	06/27/17	1	272	272	272
W2614	MassDEP	E. coli	05/09/16	09/12/16	5	1	19	4

Station NARS_WQX-NLA_MA-10036 - Escherichia coli

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



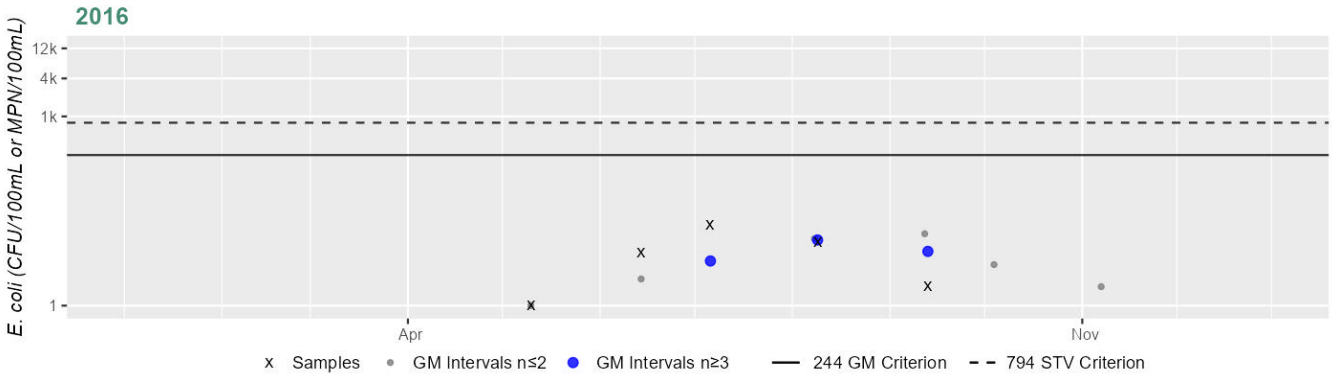
Variable*	Result
Samples	1
SeasGM	272
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Station MASSDEP_W2614 - 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

Current (2011-2022)

0%

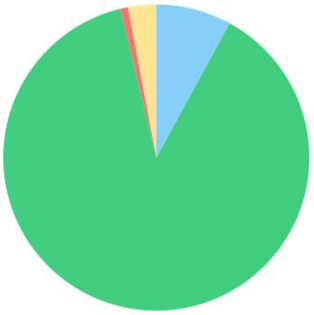
**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes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

Miner Brook (MA31-28)

Location:	Headwaters, outlet wetland east of North Beech Plain Road, Sandisfield to mouth at confluence with West Branch Farmington River, Sandisfield.
AU Type:	RIVER
AU Size:	1.5 MILES
Classification/Qualifier:	B: CWF, HQW

Miner Brook (MA31-28)

Watershed Area: 1.53 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	1.53	1.53	0.31	0.31
Agriculture	3%	3%	6.6%	6.6%
Developed	0.8%	0.8%	2.9%	2.9%
Natural	88.3%	88.3%	83.8%	83.8%
Wetland	7.9%	7.9%	6.8%	6.8%
Impervious	0.5%	0.5%	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
The Fish Consumption Use for Miner Brook (MA31-28) was Not Assessed because fish toxics sampling was not conducted.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Miner Brook (MA31-28) 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 Miner Brook (MA31-28) is assessed as Fully Supporting based on bacteria data collected in 2021 & 2022 at 1 station. Farmington River Watershed Association (FRWA) staff/volunteers collected *E. coli* bacteria samples at the downstream end of this Miner Brook AU at FRWA_Mine-37 [1646 Rt8 S Main Rd, Otis] in 2021-2022 (n=6/yr). Analysis of the multi-year limited frequency *E. coli* dataset from FRWA_Mine-37 indicated 1 out of 2 sufficient data yrs had intervals where >20% of the GMs were >126 CFU/100ml (2022, 28%), 1 yr had ≥2 samples exceed the 410 CFU/100ml STV (2022, n=2), and cumulatively across years 14% of intervals had GMs >126 CFU/100ml. *E. coli* data from FRWA_Mine-37 were indicative of good water quality conditions.

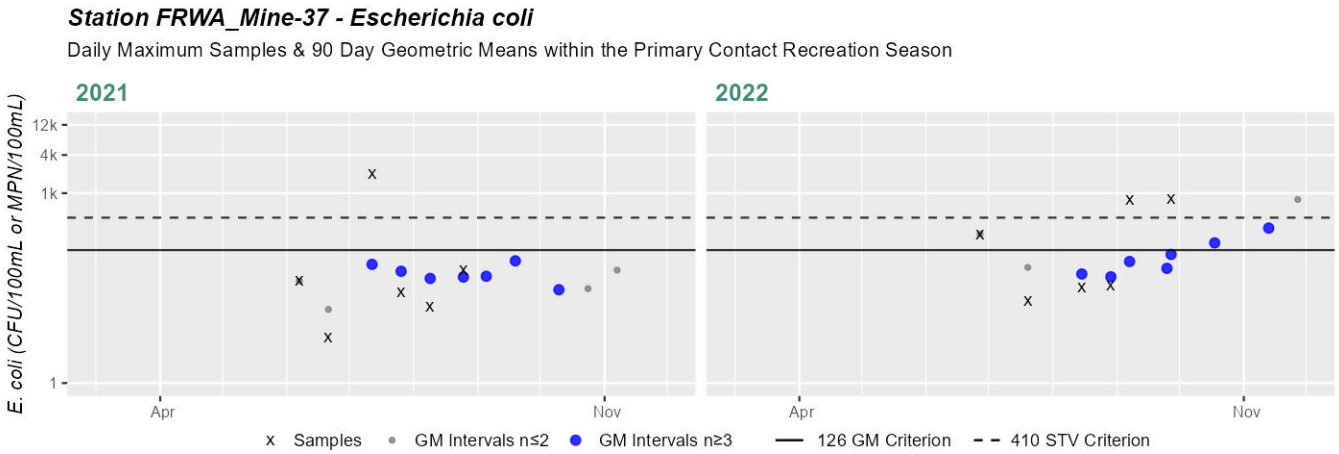
Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
FRWA_Mine-37	Farmington River Watershed Association	Water Quality	Miner Brook	1646 Rt8 South Main Rd, Otis	42.15316	-73.07465

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)
(FRWA 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
FRWA_Mine-37	Farmington River Watershed Association	E. coli	06/07/21	08/25/21	6	5	1986	47
FRWA_Mine-37	Farmington River Watershed Association	E. coli	06/27/22	09/27/22	6	20	816	121



Variable*	Result
Samples	6
SeasGM	47
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	16%

Variable*	Result
Samples	6
SeasGM	121
#GMI	7
#GMI Ex	2
%GMI Ex	28%
n>STV	2
%n>STV	33%

Cumulative %GMI Exceedance
Current (2011-2022)
14%

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

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Miner Brook (MA31-28) is assessed as Fully Supporting based on a re-evaluation of bacteria data collected in 2021 & 2022 at 1 station. Farmington River Watershed Association (FRWA) staff/volunteers collected *E. coli* bacteria samples at the downstream end of this Miner Brook AU at FRWA_Mine-37 [1646 Rt8 S Main Rd, Otis] in 2021-2022 (n=6/yr). Analysis of the multi-year limited frequency *E. coli* dataset from FRWA_Mine-37 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 7% of intervals had GMs >244 CFU/100ml. *E. coli* data from FRWA_Mine-37 were indicative of good water quality conditions.

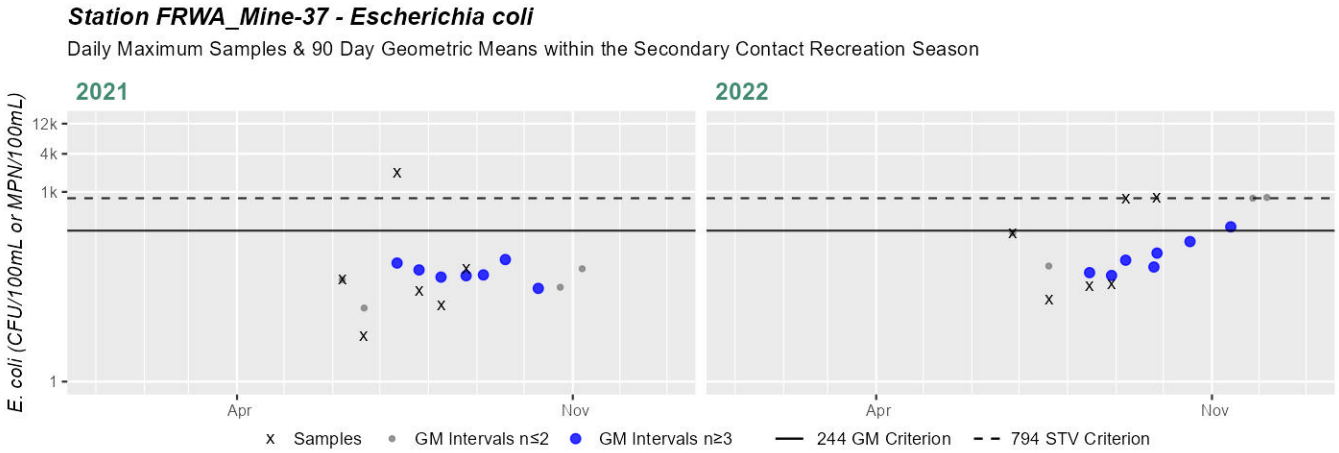
Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
FRWA_Mine-37	Farmington River Watershed Association	Water Quality	Miner Brook	1646 Rt8 South Main Rd, Otis	42.15316	-73.07465

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(FRWA 2023) (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
FRWA_Mine-37	Farmington River Watershed Association	E. coli	06/07/21	08/25/21	6	5	1986	47
FRWA_Mine-37	Farmington River Watershed Association	E. coli	06/27/22	09/27/22	6	20	816	121



Variable*	Result
Samples	6
SeasGM	47
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	16%

Variable*	Result
Samples	6
SeasGM	121
#GMI	7
#GMI Ex	1
%GMI Ex	14%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance
Current (2011-2022)
7%

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

Moody Brook (MA31-23)

Location:	Headwaters, outlet Trout Pond, Tolland to mouth at confluence with West Branch Farmington River, Sandisfield.
AU Type:	RIVER
AU Size:	1.8 MILES
Classification/Qualifier:	B: CWF, HQW

No usable data were available for Moody Brook (MA31-23) 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

North Branch Silver Brook (MA31-25)

Location:	Headwaters, outlet Atwater Pond, Sandisfield to mouth at confluence with South Branch Silver Brook (forming headwaters Silver Brook), Sandisfield.
AU Type:	RIVER
AU Size:	3.2 MILES
Classification/Qualifier:	B: CWF, HQW

No usable data were available for North Branch Silver Brook (MA31-25) 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 (MA31-41)

Location:	Headwaters, outlet unnamed pond north of Roberts Road, Sandisfield to MA/CT border, Sandisfield.
AU Type:	RIVER
AU Size:	0.9 MILES
Classification/Qualifier:	B: CWF, HQW

No usable data were available for North Brook (MA31-41) 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

Noyes Pond (MA31026)

Location:	Tolland.
AU Type:	FRESHWATER LAKE
AU Size:	166 ACRES
Classification/Qualifier:	B: HQW (no lakes in the state have a CWF designation)

No usable data were available for Noyes Pond (MA31026) 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	(Non-Native Aquatic Plants*)	--	Unchanged

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

Otis Reservoir (MA31027)

Location:	Otis/Tolland/Blandford.
AU Type:	FRESHWATER LAKE
AU Size:	989 ACRES
Classification/Qualifier:	B: HQW (no lakes in the state have a CWF designation)

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
The Fish Consumption Use for Otis Reservoir (MA31027) 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 Otis 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

Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Otis Reservoir (MA31027) 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 Otis Reservoir (MA31027) 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 Otis Reservoir (MA31027) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Palmer Brook (MA31-29)

Location:	Headwaters, outlet Palmer Brook Dam (NATID: MA00205), Becket to mouth at inlet Ward Pond, Becket.
AU Type:	RIVER
AU Size:	2.1 MILES
Classification/Qualifier:	B: CWF, HQW

No usable data were available for Palmer Brook (MA31-29) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Lack of a Coldwater Assemblage	--	Unchanged

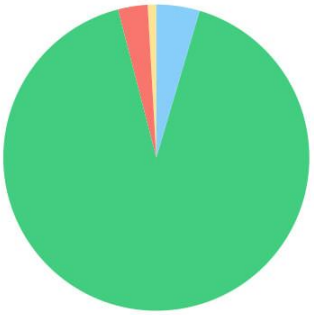
Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Lack of a Coldwater Assemblage	Dam or Impoundment (Y)	X	--	--	--	--

Pond Brook (MA31-30)

Location:	Headwaters, outlet Parsons Pond, Granville to mouth at confluence with Hubbard Brook, Granville.
AU Type:	RIVER
AU Size:	4.6 MILES
Classification/Qualifier:	B: CWF, HQW

Pond Brook (MA31-30)

Watershed Area: 5.12 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area* (square miles)	5.10	3.69	1.26	0.91
Agriculture	0.9%	1.3%	0.2%	0.3%
Developed	3.1%	3.7%	3%	3.3%
Natural	91.4%	91.2%	87.1%	89.5%
Wetland	4.6%	3.9%	9.7%	6.9%
Impervious	1.3%	1.5%	1.5%	1.7%

**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
The Fish Consumption Use for Pond Brook (MA31-30) was Not Assessed because fish toxics sampling was not conducted.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Pond Brook (MA31-30) is assessed as Fully Supporting. MassDEP staff recorded aesthetics observations at one station at the downstream end of this Pond Brook AU west of Hartland Hollow Road, ~75 feet upstream of mouth at confluence with Hubbard Brook, Granville Station (W2892) in summer 2019 (n=4). 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
W2892	MassDEP	Water Quality	Pond Brook	[west of Hartland Hollow Road, approximately 75 feet upstream of mouth at confluence with Hubbard Brook, Granville]	42.039048	-72.942021

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
W2892	2019	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2892 on Pond Brook (MA31-30) 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
W2892	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
W2892	Pond Brook	2019	Aesthetics Impaired?	No	4	4
W2892	Pond Brook	2019	Aquatic Plant Density, Overall	None	4	4
W2892	Pond Brook	2019	Color	None	4	4

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2892	Pond Brook	2019	Objectionable Deposits	No	4	4
W2892	Pond Brook	2019	Odor	None	4	4
W2892	Pond Brook	2019	Periphyton Density, Filamentous	None	3	4
W2892	Pond Brook	2019	Periphyton Density, Filamentous	Sparse	1	4
W2892	Pond Brook	2019	Periphyton Density, Film	None	2	4
W2892	Pond Brook	2019	Periphyton Density, Film	Sparse	2	4
W2892	Pond Brook	2019	Scum	No	4	4
W2892	Pond 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 Pond Brook (MA31-30) 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 Pond Brook (MA31-30) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information.

Pond Brook (MA31-33)

Location:	Headwaters, outlet Noyes Pond, Tolland to mouth at confluence with Babcock Brook, Tolland.
AU Type:	RIVER
AU Size:	2 MILES
Classification/Qualifier:	B: CWF, HQW

No usable data were available for Pond Brook (MA31-33) 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
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	Dam or Impoundment (Y)	X	--	--	--	--
Temperature	Dam or Impoundment (Y)	X	--	--	--	--

Potash Brook (MA31-36)

Location:	Headwaters, outlet wetland east of North Lane, Granville to mouth at confluence with Valley Brook, Granville.
AU Type:	RIVER
AU Size:	1.3 MILES
Classification/Qualifier:	B: CWF, HQW

No usable data were available for Potash Brook (MA31-36) 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
3	3	None	--	Unchanged

Richardson Brook (MA31-24)

Location:	Headwaters, north of New Boston Road (Route 57), Tolland to mouth at confluence with Moody Brook, Tolland.
AU Type:	RIVER
AU Size:	1.3 MILES
Classification/Qualifier:	B: CWF, HQW

No usable data were available for Richardson Brook (MA31-24) 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

Riiska Brook (MA31-17)

Location:	Headwaters, perennial portion, west of New Hartford Road, Sandisfield to mouth at confluence with Sandy Brook, Sandisfield.
AU Type:	RIVER
AU Size:	2.1 MILES
Classification/Qualifier:	B: CWF, HQW

No usable data were available for Riiska Brook (MA31-17) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Royal Pond (MA31034)

Location:	Otis/Monterey.
AU Type:	FRESHWATER LAKE
AU Size:	7 ACRES
Classification/Qualifier:	B: HQW (no lakes in the state have a CWF designation)

No usable data were available for Royal Pond (MA31034) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

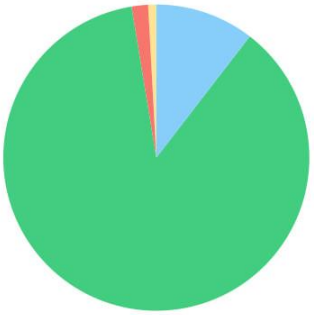
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Sandy Brook (MA31-14)

Location:	Headwaters, outlet York Lake, New Marlborough to MA/CT border Sandisfield.
AU Type:	RIVER
AU Size:	4.9 MILES
Classification/Qualifier:	B: CWF, HQW

Sandy Brook (MA31-14)

Watershed Area: 9.92 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area* (square miles)	9.82	6.50	2.38	1.67
Agriculture	0.9%	1%	0.2%	0.2%
Developed	1.7%	2%	2.2%	2.7%
Natural	86.9%	85.5%	76.9%	73.5%
Wetland	10.5%	11.6%	20.7%	23.6%
Impervious	0.8%	0.9%	1.2%	1.5%

**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	Temperature	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Temperature	Dam or Impoundment (Y)	X	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Sandy Brook (MA31-14) was Not Assessed because fish toxics sampling was not conducted.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Sandy Brook (MA31-14) 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 Sandy Brook (MA31-14) is assessed as Fully Supporting based on bacteria data collected in 2021 & 2022 at 1 station. Farmington River Watershed Association (FRWA) staff/volunteers collected *E. coli* bacteria samples at the downstream end of this Sandy Brook AU at FRWA_Sand-15350 [Rt 183, Sandisfield] in 2021-2022 (n=6/yr). Analysis of the multi-year limited frequency *E. coli* dataset from FRWA_Sand-15350 indicated 0 out of 2 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 7% of intervals had GMs >126 CFU/100ml. *E. coli* data from FRWA_Sand-15350 were indicative of good water quality conditions.

Monitoring Stations

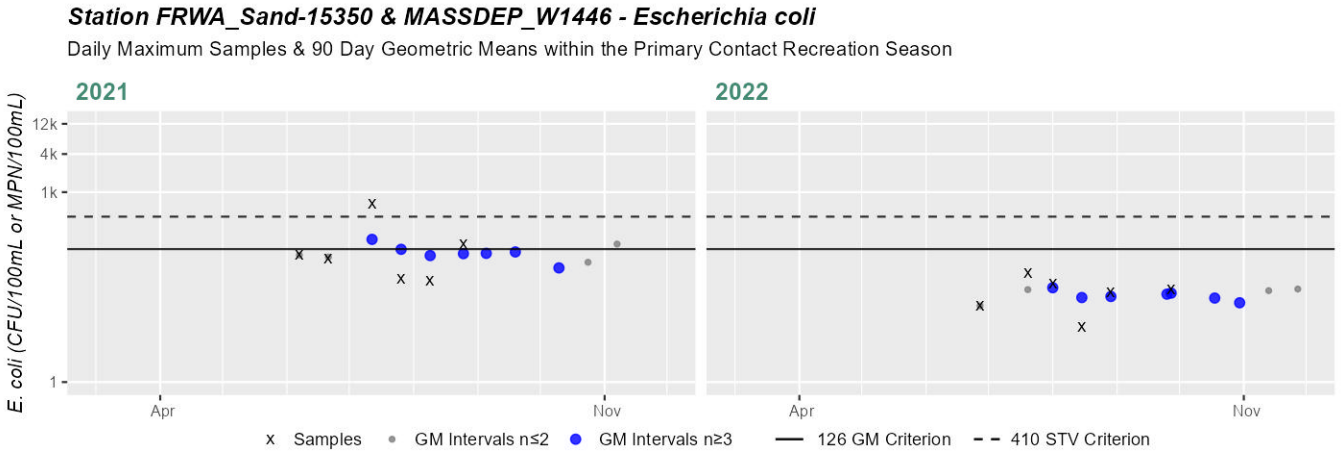
Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
FRWA_Sand-15350	Farmington River Watershed Association	Water Quality	Sandy Brook	Rt 183, Sandisfield	42.043704	-73.136548

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)
(FRWA 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
FRWA_Sand-15350	Farmington River Watershed Association	E. coli	06/07/21	08/25/21	6	40	648	106
FRWA_Sand-15350	Farmington River Watershed Association	E. coli	06/27/22	09/27/22	6	7	52	23



Variable*	Result
Samples	6
SeasGM	106
#GMI	7
#GMI Ex	1
%GMI Ex	14%
n>STV	1
%n>STV	16%

Variable*	Result
Samples	6
SeasGM	23
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
7%

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

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Sandy Brook (MA31-14) is assessed as Fully Supporting based on a re-evaluation of bacteria data collected in 2006, 2021 & 2022 at 1 combined station. MassDEP and Farmington River Watershed Association (FRWA) staff/volunteers collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) for Sandy Brook at the downstream end of the AU at FRWA_Sand-15350 & W1446 [Rt. 183 bridge crossing ~0.2 miles from the MA/Connecticut border, Sandisfield] from Apr-Sep 2006 (historic n=5) and 2021-2022 (current n=6/yr). Analysis of the multi-year limited frequency *E. coli* dataset from FRWA_Sand-15350 & W1446 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. Overall, *E. coli* data collected in both the historic & the current IR window for Sandy Brook were all indicative of good water quality conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
FRWA_Sand-15350	Farmington River Watershed Association	Water Quality	Sandy Brook	Rt 183, Sandisfield	42.043704	-73.136548
W1446	MassDEP	Water Quality	Sandy Brook	[Route 183 bridge crossing approximately 0.2 miles from the Massachusetts/Connecticut border, Sandisfield]	42.043700	-73.136558

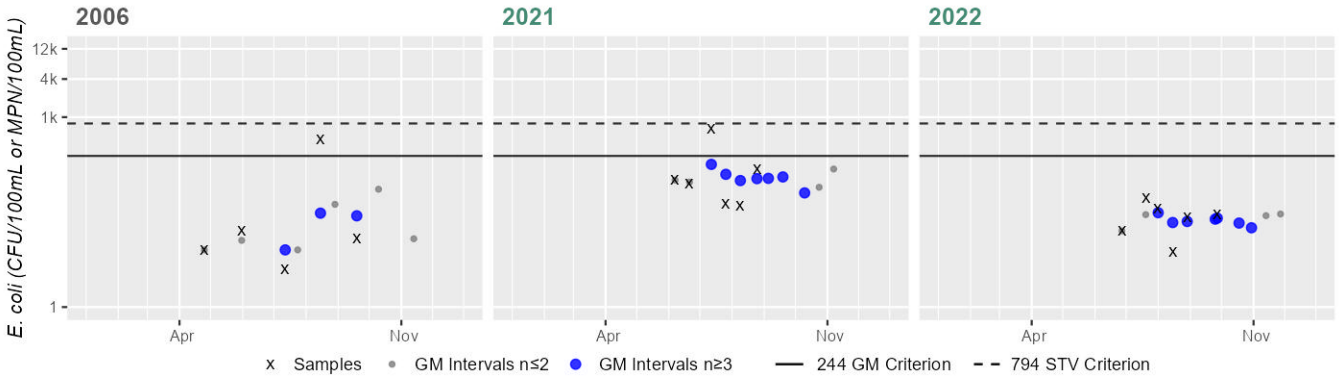
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(FRWA 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
FRWA_Sand-15350	Farmington River Watershed Association	E. coli	06/07/21	08/25/21	6	40	648	106
FRWA_Sand-15350	Farmington River Watershed Association	E. coli	06/27/22	09/27/22	6	7	52	23
W1446	MassDEP	E. coli	04/25/06	09/19/06	5	4	440	19

Station FRWA_Sand-15350 & MASSDEP_W1446 - 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%

Variable*	Result
Samples	6
SeasGM	106
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	23
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

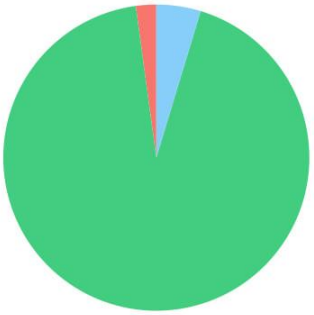
**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes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

Shales Brook (MA31-04)

Location:	Source north of Tyringham Road, Becket to mouth at inlet Shaw Pond, Becket.
AU Type:	RIVER
AU Size:	1.2 MILES
Classification/Qualifier:	B: CWF, HQW

Shales Brook (MA31-04)

Watershed Area: 1.84 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	1.83	1.83	0.34	0.34
Agriculture	0%	0%	0%	0%
Developed	2.1%	2.1%	5%	5%
Natural	93.2%	93.2%	89.6%	89.6%
Wetland	4.7%	4.7%	5.4%	5.4%
Impervious	0.9%	0.9%	2.1%	2.1%

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
The Fish Consumption Use for Shales Brook (MA31-04) was Not Assessed because fish toxics sampling was not conducted.

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 Shales Brook AU (MA31-04), 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 Shales Brook (MA31-04) 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 Shales Brook (MA31-04) 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 close to the downstream end of this Shales Brook AU, at W1441 [Peterson Rd, Becket] from Apr-Sep 2006 (n=5). Analysis of this historic single year limited frequency *E. coli* dataset indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 21 CFU/100ml. Historic *E. coli* data from W1441 were indicative of good water quality conditions. 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
W1441	MassDEP	Water Quality	Shales Brook	[Peterson Road, Becket]	42.259674	-73.132693

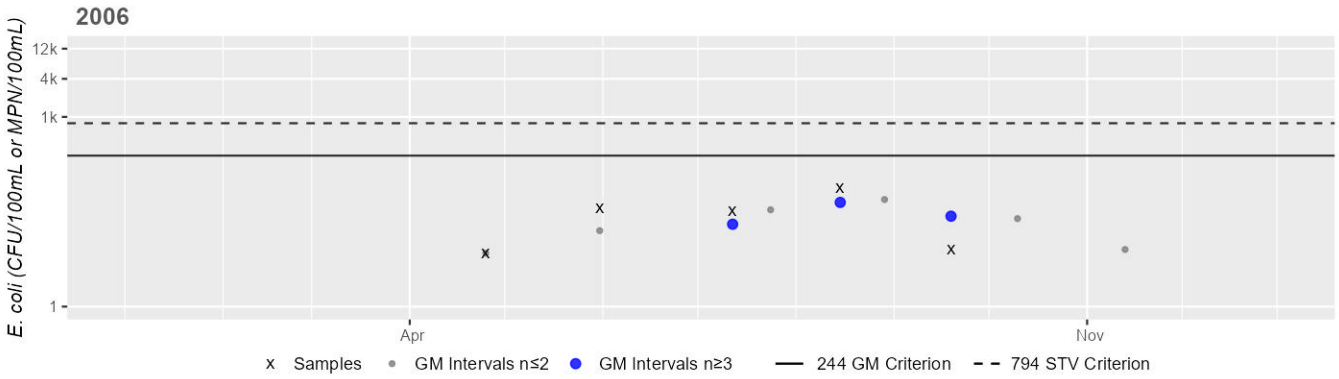
Bacteria Data

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
W1441	MassDEP	E. coli	04/25/06	09/19/06	5	7	76	21

Station MASSDEP_W1441 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	21
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Shaw Pond (MA31036)

Location:	Becket/Otis.
AU Type:	FRESHWATER LAKE
AU Size:	80 ACRES
Classification/Qualifier:	B: HQW (no lakes in the state have a CWF designation)

No usable data were available for Shaw Pond (MA31036) 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	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
5	5	Dissolved Oxygen	--	Unchanged

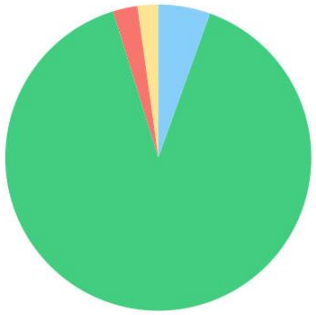
Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Eurasian Water Milfoil, Myriophyllum Spicatum*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
Dissolved Oxygen	Source Unknown (N)	X	--	--	--	--

Silver Brook (MA31-13)

Location:	Headwaters, confluence of North Branch and South Branch Silver Brook, Sandisfield to mouth at confluence with Clam River, Sandisfield.
AU Type:	RIVER
AU Size:	1 MILES
Classification/Qualifier:	B: CWF, HQW

Silver Brook (MA31-13)

Watershed Area: 6.75 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	6.75	6.04	1.77	1.64
Agriculture	2.2%	2.4%	1%	1.1%
Developed	2.6%	2.8%	3.3%	3.5%
Natural	89.7%	89.4%	84.9%	84.8%
Wetland	5.5%	5.4%	10.7%	10.6%
Impervious	1.2%	1.2%	1.3%	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	Dam or Impoundment (Y)	X	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Silver Brook (MA31-13) was Not Assessed because fish toxics sampling was not conducted.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Silver Brook (MA31-13) 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 Silver Brook (MA31-13) is assessed as Fully Supporting based on bacteria data collected in 2021 & 2022 at 1 station. Farmington River Watershed Association (FRWA) staff/volunteers collected *E. coli* bacteria samples halfway down this Silver Brook AU at FRWA_Silv-877 [W New Boston New Hartford Rd, dirt rd. off Silver Brook Rd, Sandisfield] in 2021-2022 (n=5-6/yr). Analysis of the multi-year limited frequency *E. coli* dataset from FRWA_Silv-877 indicated 0 out of 2 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 0% of intervals had GMs >126 CFU/100ml. *E. coli* data from FRWA_Silv-877 were indicative of good water quality conditions.

Monitoring Stations

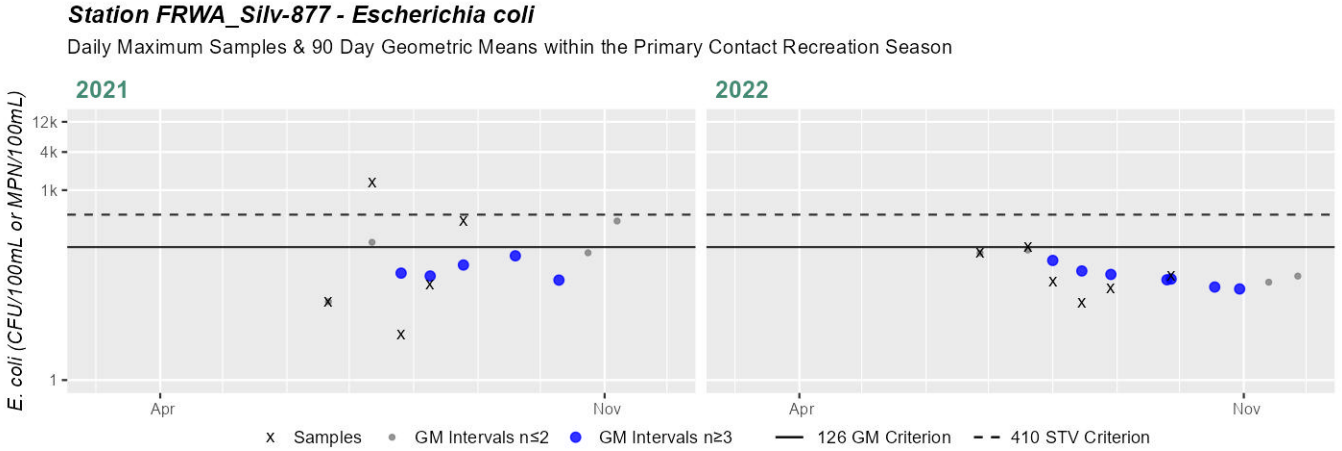
Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
FRWA_Silv-877	Farmington River Watershed Association	Water Quality	Silver Brook	West New Boston New Hartford Rd, dirt rd. off Silver Brook Rd, Sandisfield	42.094784	-73.1022535

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)
(FRWA 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
FRWA_Silv-877	Farmington River Watershed Association	E. coli	06/21/21	08/25/21	5	5	1299	65
FRWA_Silv-877	Farmington River Watershed Association	E. coli	06/27/22	09/27/22	6	16	125	46



Variable*	Result
Samples	5
SeasGM	65
#GMI	5
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	20%

Variable*	Result
Samples	6
SeasGM	46
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Silver Brook (MA31-13) is assessed as Fully Supporting based on a re-evaluation of bacteria data collected in 2021 & 2022 at 2 stations. MassDEP and Farmington River Watershed Association (FRWA) staff/volunteers collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) for this Silver Brook AU, from 2006-2022 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: halfway down the AU at FRWA_Silv-877 [W New Boston New Hartford Rd, dirt rd. off Silver Brook Rd, Sandisfield] in 2021-2022 (n=5-6/yr), and at the downstream end of the AU at W0207 [Rt. 57 bridge, Sandisfield] from Apr-Sep 2006 (n=5). Analysis of the multi-year limited frequency *E. coli* dataset from FRWA_Silv-877 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. Overall, *E. coli* data collected in in both the historic & the current IR window for Silver Brook were all indicative of good water quality conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
FRWA_Silv-877	Farmington River Watershed Association	Water Quality	Silver Brook	West New Boston New Hartford Rd, dirt rd. off Silver Brook Rd, Sandisfield	42.094784	-73.1022535
W0207	MassDEP	Water Quality	Silver Brook	[Route 57 bridge, Sandisfield]	42.101187	-73.096337

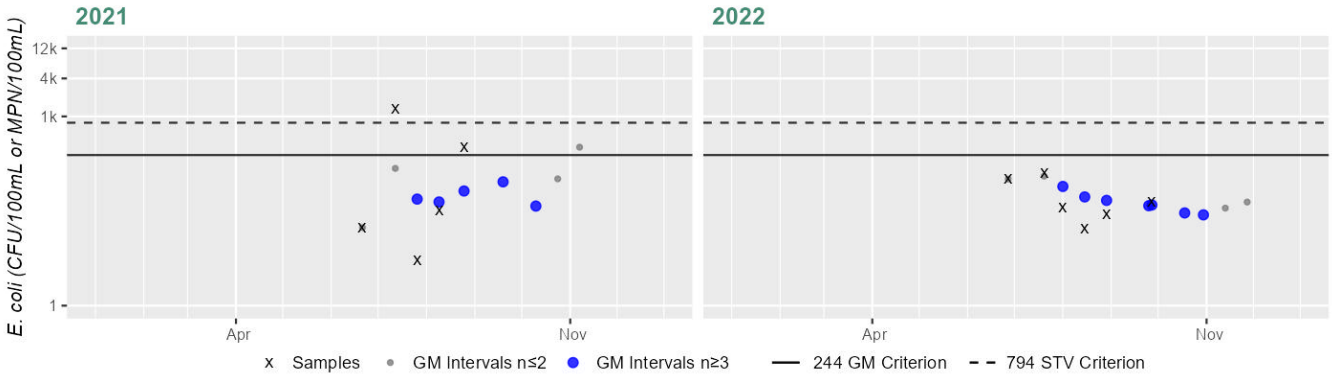
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(FRWA 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
FRWA_Silv-877	Farmington River Watershed Association	E. coli	06/21/21	08/25/21	5	5	1299	65
FRWA_Silv-877	Farmington River Watershed Association	E. coli	06/27/22	09/27/22	6	16	125	46
W0207	MassDEP	E. coli	04/25/06	09/19/06	5	4	120	23

Station FRWA_Silv-877 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	65
#GMI	5
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	20%

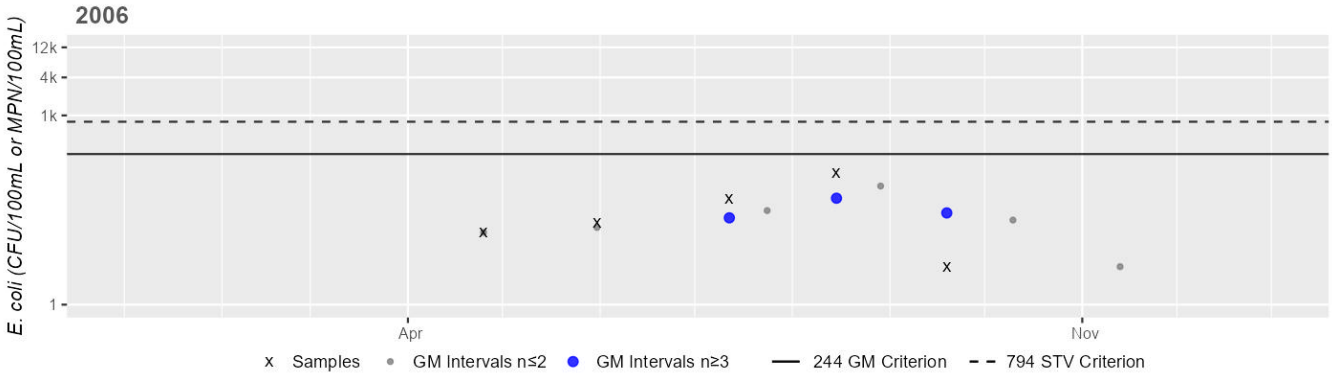
Variable*	Result
Samples	6
SeasGM	46
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Station MASSDEP_W0207 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	23
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Silver Shield Pond (MA31054)

Location:	Becket.
AU Type:	FRESHWATER LAKE
AU Size:	10 ACRES
Classification/Qualifier:	B: HQW (no lakes in the state have a CWF designation)

No usable data were available for Silver Shield Pond (MA31054) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

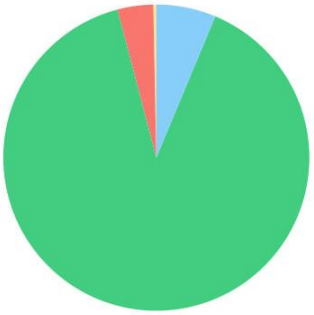
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Slocum Brook (MA31-19)

Location:	Headwaters, outlet small unnamed wetland pond south of Hartland Road, Tolland to MA/CT border, Tolland.
AU Type:	RIVER
AU Size:	3.3 MILES
Classification/Qualifier:	B: CWF, HQW

Slocum Brook (MA31-19)

Watershed Area: 4.83 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area* (square miles)	4.43	4.42	1.37	1.37
Agriculture	0.3%	0.3%	0.2%	0.2%
Developed	3.8%	3.8%	4.6%	4.6%
Natural	89.6%	89.6%	84.7%	84.7%
Wetland	6.3%	6.3%	10.6%	10.6%
Impervious	2.1%	2.1%	2.5%	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
2	2	None	--	Unchanged

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Slocum Brook (MA31-19) was Not Assessed because fish toxics sampling was not conducted.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Slocum Brook (MA31-19) is assessed as Fully Supporting. MassDEP staff recorded aesthetics observations at one station halfway down this Slocum Brook AU east of Colebrook River Road, ~4700 feet upstream of the Cranberry Pond Brook confluence, Tolland (W2250) in summer 2012 (n=6). 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
W2250	MassDEP	Water Quality	Slocum Brook	[east of Colebrook River Road, approximately 4700 feet upstream of the Cranberry Pond Brook confluence, Tolland]	42.047599	-73.016997

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
W2250	2012	6	Aesthetic observations were made by MassDEP field sampling crews at Station W2250 on Slocum Brook (MA31-19) 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
W2250	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
W2250	Slocum Brook	2012	Aquatic Plant Density, Overall	None	6	6
W2250	Slocum Brook	2012	Color	Light Yellow/Tan	5	6
W2250	Slocum Brook	2012	Color	None	1	6

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2250	Slocum Brook	2012	Objectionable Deposits	No	6	6
W2250	Slocum Brook	2012	Odor	None	6	6
W2250	Slocum Brook	2012	Periphyton Density, Filamentous	None	6	6
W2250	Slocum Brook	2012	Periphyton Density, Film	None	5	6
W2250	Slocum Brook	2012	Periphyton Density, Film	Sparse	1	6
W2250	Slocum Brook	2012	Scum	No	6	6
W2250	Slocum 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 Slocum Brook (MA31-19) continues to be assessed as Fully Supporting based on bacteria data collected in 2012 at 1 station. MassDEP staff collected *E. coli* bacteria samples halfway down this Slocum Brook AU at W2250 [E of Colebrook River Rd, ~4700 ft upstream of the Cranberry Pond Brook confluence, Tolland] from May-Sep 2012 (n=6). Analysis of the single year limited frequency *E. coli* dataset from W2250 indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 15 CFU/100ml. *E. coli* data from W2250 were indicative of good water quality conditions.

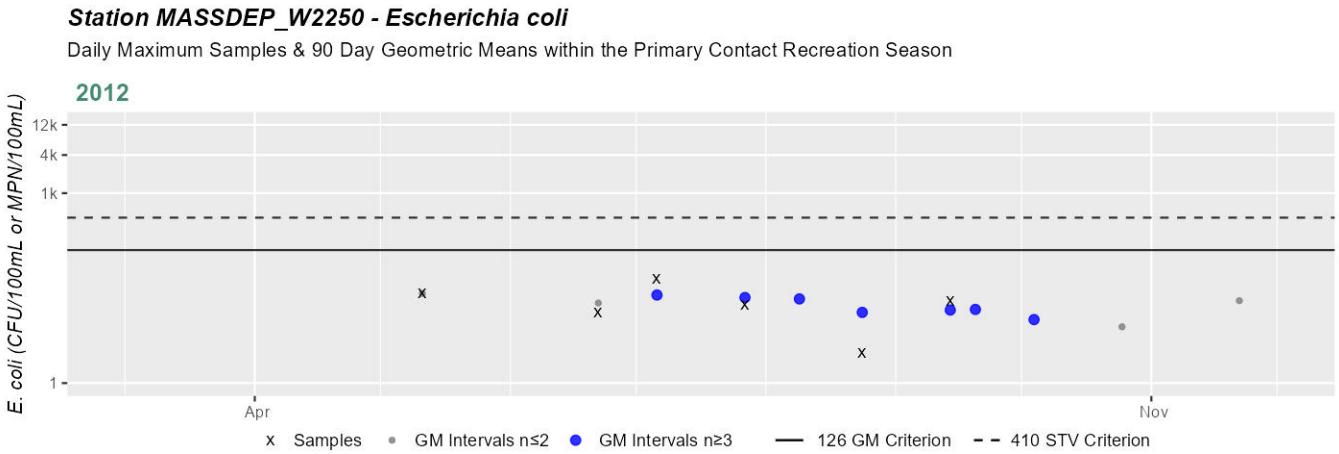
Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2250	MassDEP	Water Quality	Slocum Brook	[east of Colebrook River Road, approximately 4700 feet upstream of the Cranberry Pond Brook confluence, Tolland]	42.047599	-73.016997

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
W2250	MassDEP	E. coli	05/10/12	09/13/12	6	3	44	15



Variable*	Result
Samples	6
SeasGM	15
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Slocum Brook (MA31-19) continues to be assessed as Fully Supporting based on a re-evaluation of bacteria data collected in 2012 at 1 station. MassDEP staff collected *E. coli* bacteria samples halfway down this Slocum Brook AU at W2250 [E of Colebrook River Rd, ~4700 ft upstream of the Cranberry Pond Brook confluence, Tolland] from May-Sep 2012 (n=6). Analysis of the single year limited frequency *E. coli* dataset from W2250 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. *E. coli* data from W2250 were indicative of good water quality conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2250	MassDEP	Water Quality	Slocum Brook	[east of Colebrook River Road, approximately 4700 feet upstream of the Cranberry Pond Brook confluence, Tolland]	42.047599	-73.016997

Bacteria Data

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

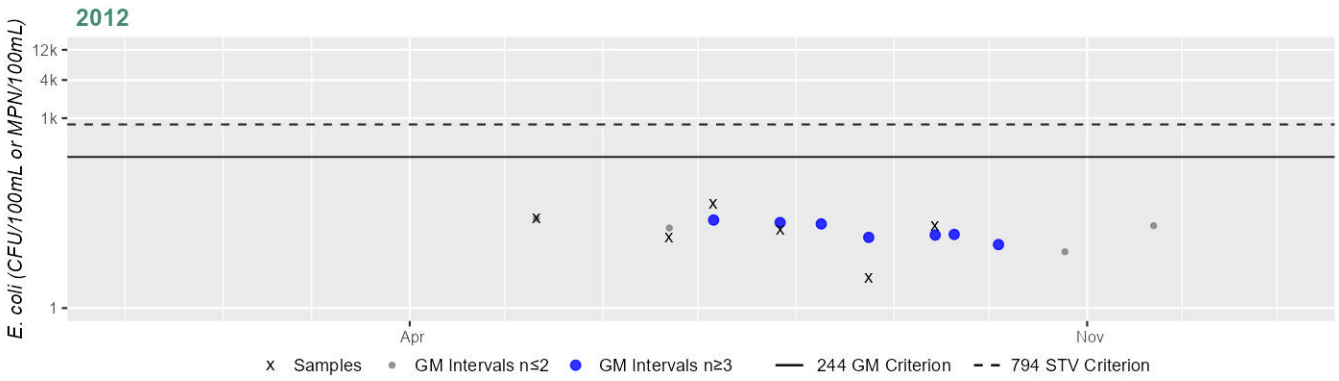
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W2250	MassDEP	E. coli	05/10/12	09/13/12	6	3	44	15

Station MASSDEP_W2250 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	15
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

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

South Branch Silver Brook (MA31-26)

Location:	Headwaters, perennial portion north of Fox Road, Sandisfield to mouth at confluence with North Branch Silver Brook (forming headwaters Silver Brook), Sandisfield.
AU Type:	RIVER
AU Size:	1.3 MILES
Classification/Qualifier:	B: CWF, HQW

No usable data were available for South Branch Silver Brook (MA31-26) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Spectacle Pond Brook (MA31-27)

Location:	Headwaters, south of West Center Road, Otis to mouth at inlet Upper Spectacle Pond, Otis.
AU Type:	RIVER
AU Size:	1.5 MILES
Classification/Qualifier:	B: CWF, HQW

No usable data were available for Spectacle Pond Brook (MA31-27) 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	Lack of a Coldwater Assemblage	--	Unchanged

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

Taylor Brook (MA31-20)

Location:	Headwaters, west of Clubhouse Road, Tolland to mouth at confluence with Slocum Brook, Tolland.
AU Type:	RIVER
AU Size:	3.3 MILES
Classification/Qualifier:	B: CWF, HQW

No usable data were available for Taylor Brook (MA31-20) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

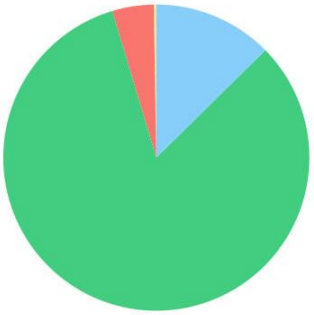
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Thomas Brook (MA31-06)

Location:	Headwaters, outlet Thomas Pond, Becket to mouth at confluence with unnamed tributary to Hayden Pond, Otis.
AU Type:	RIVER
AU Size:	0.8 MILES
Classification/Qualifier:	B: CWF, HQW

Thomas Brook (MA31-06)

Watershed Area: 6.31 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	6.31	4.30	1.80	1.32
Agriculture	0.3%	0.4%	0.7%	1%
Developed	4.4%	6.2%	5.2%	6.9%
Natural	82.7%	79.8%	72.8%	71.4%
Wetland	12.6%	13.6%	21.3%	20.7%
Impervious	2.5%	3.5%	2.5%	3.3%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Lack of a Coldwater Assemblage	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Lack of a Coldwater Assemblage	Dam or Impoundment (N)	X	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Thomas Brook (MA31-06) was Not Assessed because fish toxics sampling was not conducted.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Thomas Brook (MA31-06) is assessed as Fully Supporting. MassDEP staff recorded aesthetics observations at one station in the upstream half of this Thomas Brook AU ~1025 feet downstream of Werden Road, Otis (W2274) in summer 2012 (n=6). 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
W2274	MassDEP	Water Quality	Thomas Brook	[approximately 1025 feet downstream of Werden Road, Otis]	42.245391	-73.113919

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
W2274	2012	6	Aesthetic observations were made by MassDEP field sampling crews at Station W2274 on Thomas Brook (MA31-06) 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
W2274	2012	6	6	2

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

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2274	Thomas Brook	2012	Aquatic Plant Density, Overall	None	6	6
W2274	Thomas Brook	2012	Color	Brownish	1	6
W2274	Thomas Brook	2012	Color	Light Yellow/Tan	3	6
W2274	Thomas Brook	2012	Color	None	1	6
W2274	Thomas Brook	2012	Color	Rusty	1	6
W2274	Thomas Brook	2012	Objectionable Deposits	No	6	6
W2274	Thomas Brook	2012	Odor	Musty (Basement)	2	6
W2274	Thomas Brook	2012	Odor	None	4	6
W2274	Thomas Brook	2012	Periphyton Density, Filamentous	Moderate	1	6
W2274	Thomas Brook	2012	Periphyton Density, Filamentous	None	4	6
W2274	Thomas Brook	2012	Periphyton Density, Filamentous	Sparse	1	6
W2274	Thomas Brook	2012	Periphyton Density, Film	None	2	6
W2274	Thomas Brook	2012	Periphyton Density, Film	Sparse	2	6
W2274	Thomas Brook	2012	Periphyton Density, Film	Very Dense	2	6
W2274	Thomas Brook	2012	Scum	No	4	6
W2274	Thomas Brook	2012	Scum	Yes	2	6
W2274	Thomas Brook	2012	Turbidity	None	5	6
W2274	Thomas Brook	2012	Turbidity	Slightly Turbid	1	6

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Thomas Brook (MA31-06) continues to be assessed as Fully Supporting based on bacteria data collected in 2012, 2021 & 2022 at 2 stations. MassDEP and Farmington River Watershed Association (FRWA) staff/volunteers collected *E. coli* bacteria samples for this Thomas Brook AU from 2012-2022 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: about a third of the way down the AU at W2274 [~1025 ft downstream of Werden Rd, Otis] from May-Sep 2012 (n=6), and close to the downstream end of the AU at FRWA_Thom-140 [1900 N Main Rd Rt 8, Otis] in 2021-2022 (n=6/yr). Analysis of the single year limited frequency *E. coli* dataset from W2274 indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 17 CFU/100ml. Analysis of the multi-year limited frequency *E. coli* dataset from FRWA_Thom-140 indicated 0 out of 2 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 0% of intervals had GMs >126 CFU/100ml. *E. coli* data from W2274 and FRWA_Thom-140 were both indicative of good water quality conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
FRWA_Thom-140	Farmington River Watershed Association	Water Quality	Thomas Brook	1900 North Main Rd Rt 8, Otis	42.24081	-73.11721
W2274	MassDEP	Water Quality	Thomas Brook	[approximately 1025 feet downstream of Werden Road, Otis]	42.245391	-73.113919

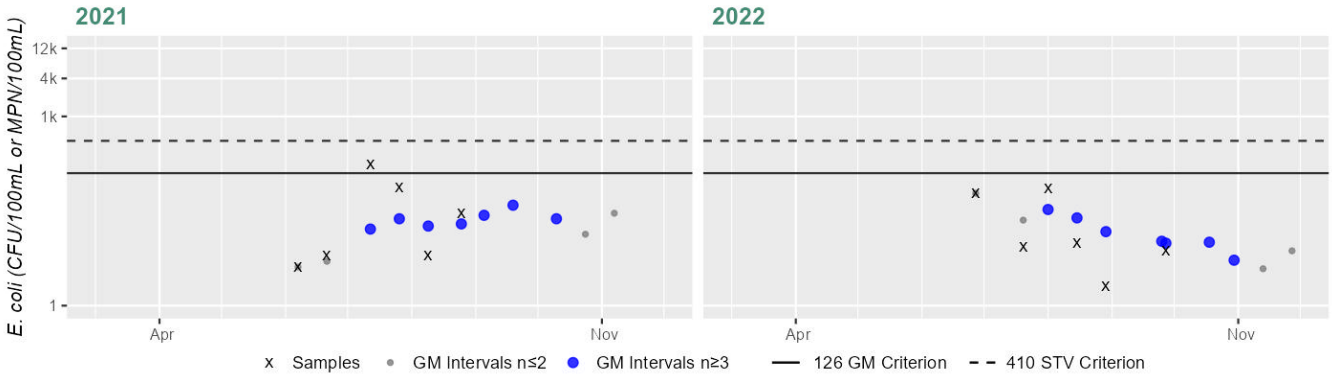
Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)
(FRWA 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
FRWA_Thom-140	Farmington River Watershed Association	E. coli	06/07/21	08/25/21	6	4	172	19
FRWA_Thom-140	Farmington River Watershed Association	E. coli	06/27/22	09/27/22	6	2	72	13
W2274	MassDEP	E. coli	05/10/12	09/13/12	6	8	32	17

Station FRWA_Thom-140 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	19
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

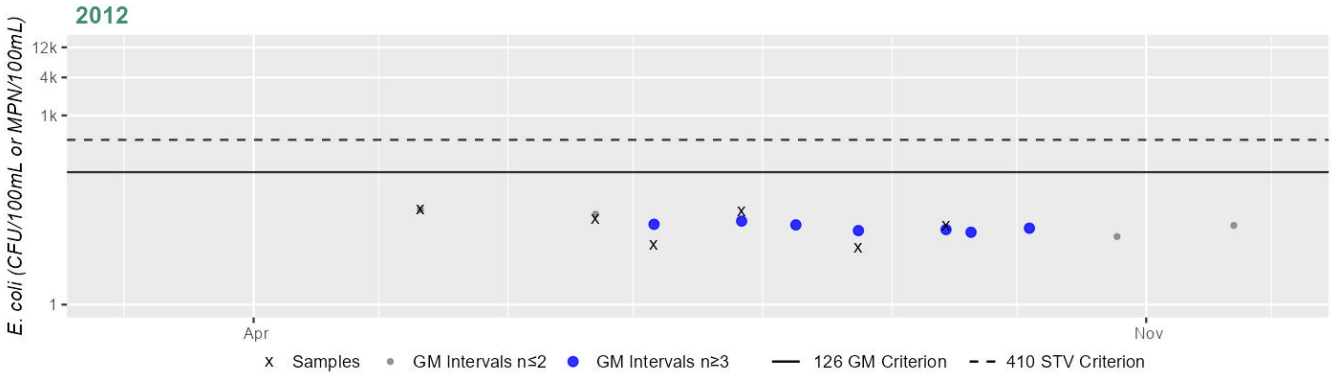
Variable*	Result
Samples	6
SeasGM	13
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Station MASSDEP_W2274 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	17
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Thomas Brook (MA31-06) continues to be assessed as Fully Supporting based on a re-evaluation of bacteria data collected in 2006, 2012, 2021 & 2022 at 3 stations. MassDEP and Farmington River Watershed Association (FRWA) staff/volunteers collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) for this Thomas Brook AU from 2006-2022 at 3 stations. Samples were collected from the following stations/sample years from upstream to downstream: Close to the upstream end of the AU at W0212 [Werden Rd bridge, Becket] from Apr-Sep 2006 (n=5), about a third of the way down the AU at W2274 [~1025 ft downstream of Werden Rd, Otis] from May-Sep 2012 (n=6) and close to the downstream end of the AU at FRWA_Thom-140 [1900 N Main Rd Rt 8, Otis] in 2021-2022 (n=6/yr). Analysis of the single year limited frequency *E. coli* dataset from W2274 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 17 CFU/100ml. Analysis of the multi-year limited frequency *E. coli* dataset from FRWA_Thom-140 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. Overall, *E. coli* data collected in both the historic & the current IR window from Thomas Brook were all indicative of good water quality conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
FRWA_Thom-140	Farmington River Watershed Association	Water Quality	Thomas Brook	1900 North Main Rd Rt 8, Otis	42.24081	-73.11721
W0212	MassDEP	Water Quality	Thomas Brook	[Werden Road bridge, Becket]	42.247125	-73.112083
W2274	MassDEP	Water Quality	Thomas Brook	[approximately 1025 feet downstream of Werden Road, Otis]	42.245391	-73.113919

Bacteria Data

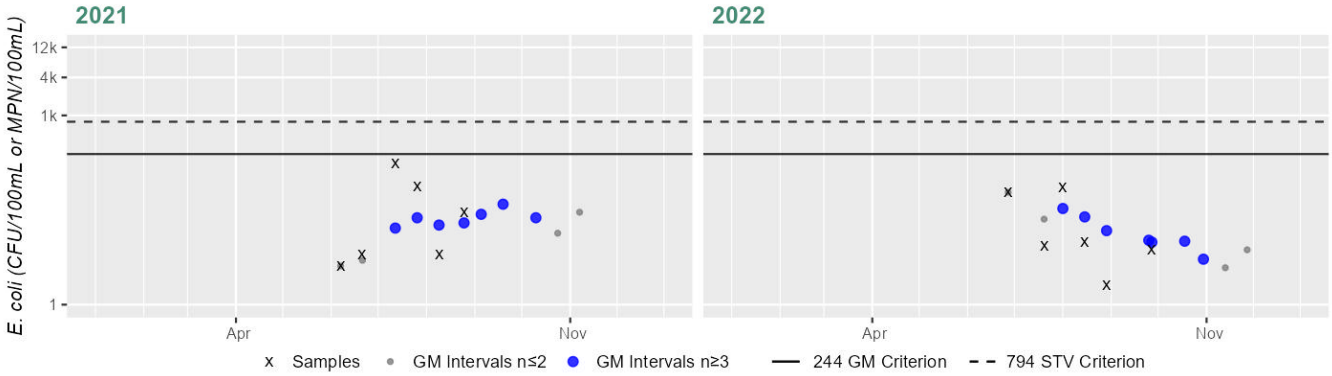
Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(FRWA 2023) (MassDEP Undated 1) (MassDEP Undated 6) (MassDEP Undated 3)
[Result units are CFU/100ml or MPN/100ml]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
FRWA_Thom-140	Farmington River Watershed Association	E. coli	06/07/21	08/25/21	6	4	172	19

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
FRWA_Thom-140	Farmington River Watershed Association	E. coli	06/27/22	09/27/22	6	2	72	13
W0212	MassDEP	E. coli	04/25/06	09/19/06	5	4	80	24
W2274	MassDEP	E. coli	05/10/12	09/13/12	6	8	32	17

Station FRWA_Thom-140 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	19
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	13
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

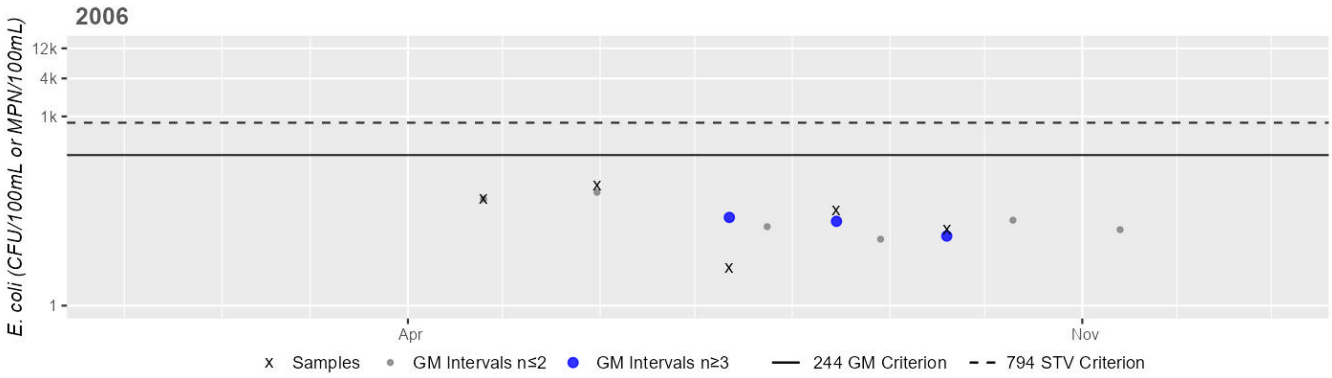
Current (2011-2022)

0%

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

Station MASSDEP_W0212 - Escherichia coli

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



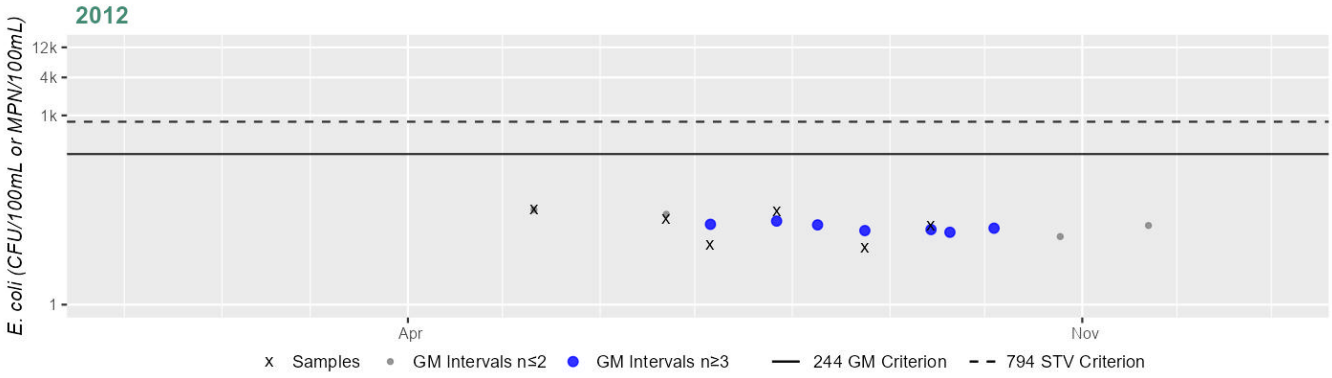
Variable*	Result
Samples	5
SeasGM	24
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Station MASSDEP_W2274 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	17
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Thorp Brook (MA31-22)

Location:	Headwaters, east of Dodds Mountain, south of Sears Road, Sandisfield to mouth at confluence with West Branch Farmington River, Sandisfield.
AU Type:	RIVER
AU Size:	2.7 MILES
Classification/Qualifier:	B: CWF, HQW

No usable data were available for Thorp Brook (MA31-22) 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 (MA31-05)

Location:	Unnamed tributary to Shaw Pond, source in wetlands southwest of Route 90 and east of Route 20, Becket to mouth at inlet Shaw Pond, Becket (excluding "gravel pit" pond).
AU Type:	RIVER
AU Size:	1.3 MILES
Classification/Qualifier:	B: CWF, HQW

No usable data were available for Unnamed Tributary (MA31-05) 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 (MA31-07)

Location:	Source, outlet Shaw Pond, Becket/Otis to mouth at inlet Hayden Pond, Otis.
AU Type:	RIVER
AU Size:	0.9 MILES
Classification/Qualifier:	B: CWF, HQW

Unnamed Tributary (MA31-07)

Watershed Area: 11.50 square miles

Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	11.50	9.35	2.91	2.39
Agriculture	0.3%	0.4%	0.5%	0.7%
Developed	5.5%	6.6%	7.2%	8.6%
Natural	83.9%	82.9%	72.7%	72%
Wetland	10.3%	10.1%	19.5%	18.6%
Impervious	2.9%	3.5%	3.7%	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
The Fish Consumption Use for Unnamed Tributary (MA31-07) was Not Assessed because fish toxics sampling was not conducted.

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 Unnamed Tributary AU (MA31-07), so it 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 Unnamed Tributary (MA31-07) continues to be assessed as Fully Supporting based on bacteria data collected in 2021 and 2022 at 1 station. Farmington River Watershed Association (FRWA) staff/volunteers collected *E. coli* bacteria samples halfway down this Unnamed Tributary AU at FRWA_Shal-716 [2034 N Main Rd, Otis] in 2021-2022 (n=5-6/yr). Analysis of the multi-year limited frequency *E. coli* dataset from FRWA_Shal-716 indicated 1 out of 2 sufficient data yrs had intervals where >20% of the GMs were >126 CFU/100ml (2021, 20%), 0 yrs had ≥2 samples exceed the 410 CFU/100ml STV, and cumulatively across years 16% of intervals had GMs >126 CFU/100ml. *E. coli* data from FRWA_Shal-716 were indicative of good water quality conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
FRWA_Shal-716	Farmington River Watershed Association	Water Quality	Shales Brook	2034 North Main Rd, Otis	42.243067	-73.120756

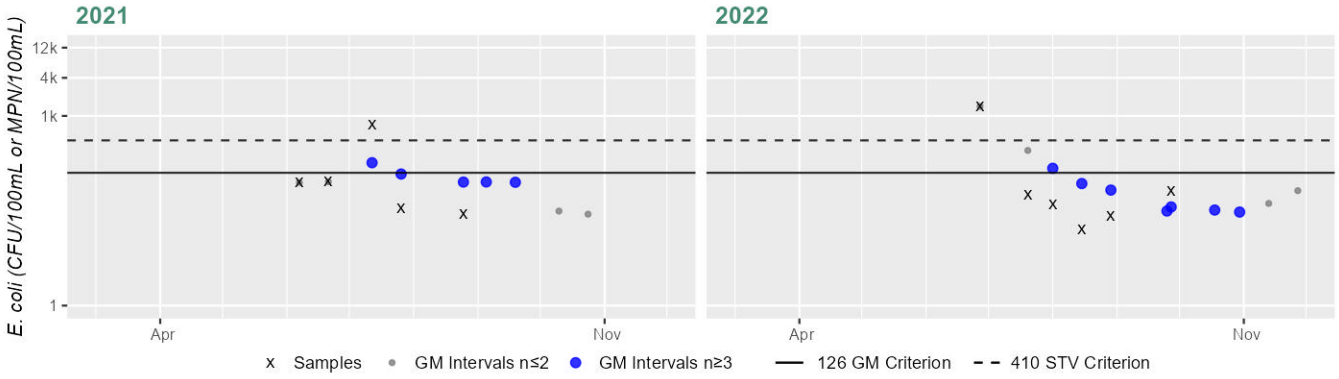
Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)
(FRWA 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
FRWA_Shal-716	Farmington River Watershed Association	E. coli	06/07/21	08/25/21	5	27	727	89
FRWA_Shal-716	Farmington River Watershed Association	E. coli	06/27/22	09/27/22	6	16	1413	66

Station FRWA_Shal-716 & MASSDEP_W1443 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	89
#GMI	5
#GMI Ex	1
%GMI Ex	20%
n>STV	1
%n>STV	20%

Variable*	Result
Samples	6
SeasGM	66
#GMI	7
#GMI Ex	1
%GMI Ex	14%
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 Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Unnamed Tributary (MA31-07) continues to be assessed as Fully Supporting based on a re-evaluation of bacteria data collected in 2006, 2021 and 2022 at 1 combined station. MassDEP and Farmington River Watershed Association (FRWA) staff/volunteers collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) halfway down this Unnamed Tributary AU at FRWA_Shal-716 & W1443 [2034 N Main Rd, Otis & outlet Shaw Pond inlet Hayden Pond, Rt. 8, Otis] from Apr-Sep 2006 (historic n=5) and 2021-2022 (current n=5-6/yr). Analysis of the multi-year limited frequency *E. coli* dataset from FRWA_Shal-716 & W1443 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. Overall, *E. coli* data collected in both the historic & the current IR window from this Unnamed Tributary were all indicative of good water quality conditions.

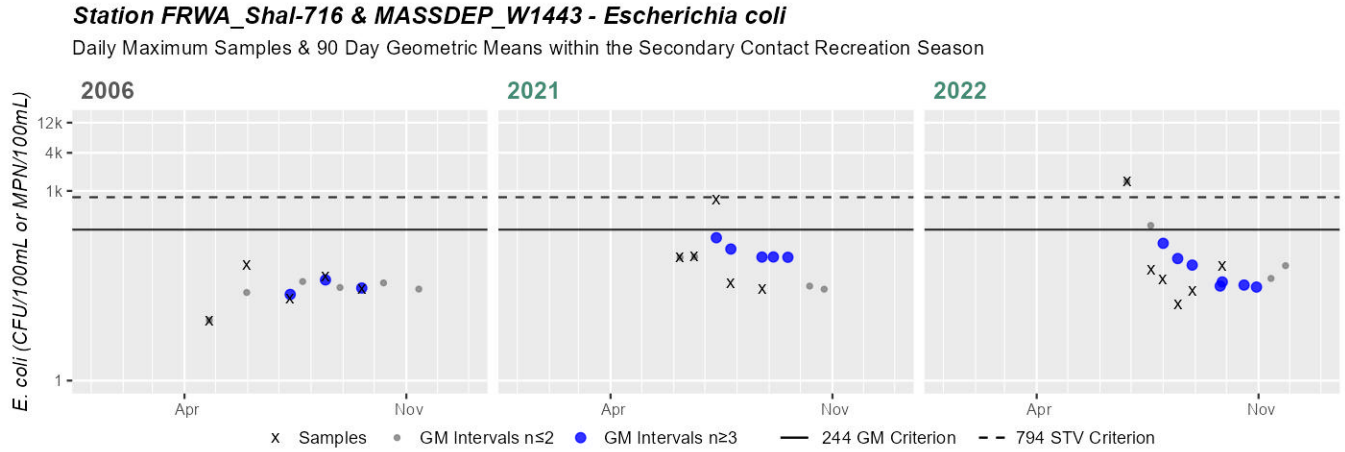
Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
FRWA_Shal-716	Farmington River Watershed Association	Water Quality	Shales Brook	2034 North Main Rd, Otis	42.243067	-73.120756
W1443	MassDEP	Water Quality	Unnamed Tributary	[unnamed tributary, outlet Shaw Pond inlet Hayden Pond, Route 8, Otis]	42.243072	-73.120770

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(FRWA 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
FRWA_Shal-716	Farmington River Watershed Association	E. coli	06/07/21	08/25/21	5	27	727	89
FRWA_Shal-716	Farmington River Watershed Association	E. coli	06/27/22	09/27/22	6	16	1413	66
W1443	MassDEP	E. coli	04/25/06	09/19/06	5	9	68	27



Variable*	Result
Samples	5
SeasGM	27
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	5
SeasGM	89
#GMI	5
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	66
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	16%

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

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

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

Unnamed Tributary (MA31-09)

Location:	Unnamed tributary to West Branch Farmington River, source north of Route 23 and east of Harrington Road, Otis to mouth at confluence with West Branch Farmington River, Otis.
AU Type:	RIVER
AU Size:	2 MILES
Classification/Qualifier:	B: CWF, HQW

Unnamed Tributary (MA31-09)

Watershed Area: 1.07 square miles

Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	1.07	1.07	0.39	0.39
Agriculture	0.3%	0.3%	0.1%	0.1%
Developed	11.7%	11.7%	13.4%	13.4%
Natural	76.4%	76.4%	66.9%	66.9%
Wetland	11.5%	11.5%	19.6%	19.6%
Impervious	4.5%	4.5%	5.2%	5.2%

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Unnamed Tributary (MA31-09) was Not Assessed because fish toxics sampling was not conducted.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Unnamed Tributary (MA31-09) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Unnamed Tributary (MA31-09) are available, so the Primary Contact Recreation Use is Not Assessed.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Unnamed Tributary (MA31-09) 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 ~ three-quarters of the way down this Unnamed Tributary AU to the W Branch Farmington River, at W0351 [W Center Rd bridge, Otis (downstream Otis Ridge Ski Area)] from Apr-Sep 2006 (n=5). Analysis of this historic single year limited frequency *E. coli* dataset from W0351 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 55 CFU/100ml. Historic *E. coli* data from W0351 were indicative of good water quality conditions. 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

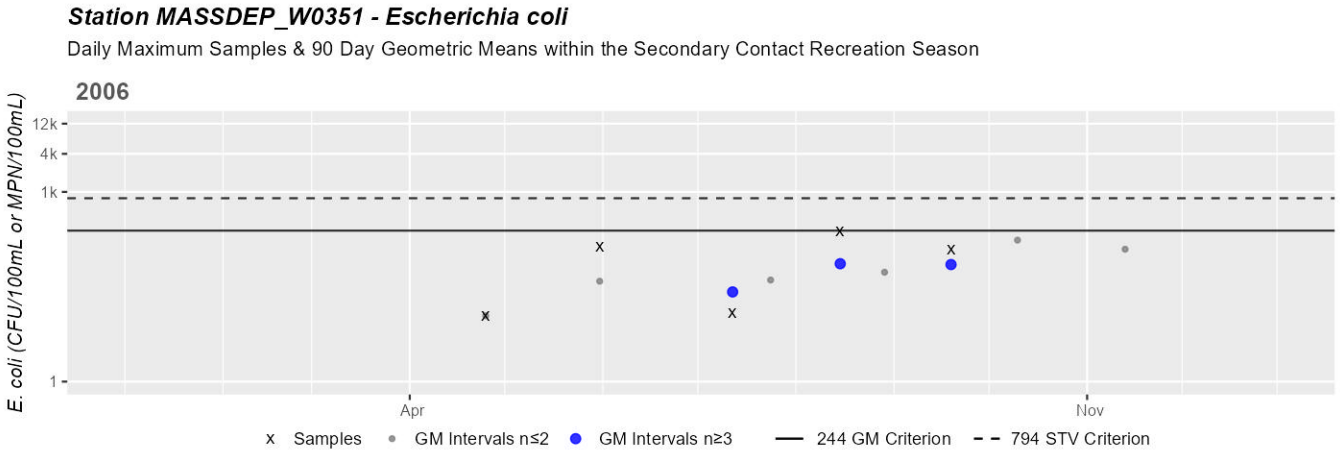
Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0351	MassDEP	Water Quality	Unnamed Tributary	[unnamed tributary to West Branch Farmington River, West Center Road bridge, Otis (downstream Otis Ridge Ski Area)]	42.197150	-73.097079

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
W0351	MassDEP	E. coli	04/25/06	09/19/06	5	11	240	55



Variable*	Result
Samples	5
SeasGM	55
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Upper Spectacle Pond (MA31044)

Location:	Sandisfield/Otis.
AU Type:	FRESHWATER LAKE
AU Size:	53 ACRES
Classification/Qualifier:	B: HQW (no lakes in the state have a CWF designation)

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

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Dissolved Oxygen	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 Upper Spectacle Pond (MA31044) is assessed as Not Supporting with a new impairment being added for PFAS in Fish Tissue. Fish toxics sampling was conducted in Upper Spectacle Pond (MA31044) at station F0471 (PFAS Study ID 4) on 06/02/2022 as part of a MassDEP-funded project evaluating 40 PFAS analytes in selected fresh waters. MA DPH issued a site-specific advisory for PFAS in Upper Spectacle Pond in their May 2024 Freshwater Fish Consumption Advisory List and retained it in the January 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
F0471	MassDEP	Fish Toxics	Upper Spectacle Pond	[Sandisfield/Otis (impounded by Upper Spectacle Pond Dam NAT ID: MA00304)]	42.182028	-73.117902

Fish Tissue Data

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

Summary
Fish toxics sampling was conducted in Upper Spectacle Pond (MA31044) at station F0471 (PFAS Study ID 4) on 06/02/2022 as part of a MassDEP-funded project evaluating 40 PFAS analytes in selected fresh waters. Because of elevated PFAS measured in fish filets, MA DPH issued a site-specific fish consumption advisory for Upper Spectacle Pond in their May 2024 Freshwater Fish Consumption Advisory List and retained it in the January 2025 list. The site specific DPH advisory is indicative of a Fish Consumption Use impairment for PFAS in Fish Tissue for Upper Spectacle Pond (MA31044).

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

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

[Species List: B = bluegill, LMB = largemouth bass, P = pumpkinseed]

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
F0471	4	06/02/2022	B	ND	ND	ND	2.07	PFOS
F0471	4	06/02/2022	LMB	ND	ND	ND	2.30	PFOS
F0471	4	06/02/2022	P	ND	ND	ND	1.42	PFOS

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Upper Spectacle Pond (MA31044) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
While surface water samples collected at one station for Upper Spectacle Pond (MA31044) did not contain elevated PFAS concentrations, there are no bacteria data available for this AU, so there is Insufficient Information to assess the Primary Contact Recreation Use. Surface water sampling was conducted for this Upper Spectacle Pond AU at station W3262 (PFAS Study ID 4) on 06/02/2022 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. No bacteria or other indicator data for Upper Spectacle Pond are available.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W3262	MassDEP	Water Quality	Upper Spectacle Pond	[the default location representing co-located water/fish PFAS sampling, Sandisfield/Otis]	42.182028	-73.117902

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 Upper Spectacle Pond (MA31044) at station W3262 (PFAS Study ID 4) on 06/02/2022 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 ∑PFAS6 equals the sum of PFOA, PFOS, PFNA, PFHxS, PFDA, PFHpA (not all shown individually here); * indicates the ∑PFAS6 concentration was qualified since data for one or more individual PFAS6 analytes were qualified; b = blank contamination qualifier, d = qualifier indicating precision of field duplicates did not meet project data quality objectives; j = 'estimated' value qualifier; ## = censored data.]

Station Code	PFAS Study ID	Sample Date	PFOA ng/L	PFOS ng/L	PFNA ng/L	PFHxS ng/L	PFBA ng/L	PFBS ng/L	HFPO-DA ng/L	∑PFAS6 ng/L
W3262	4	06/02/2022	1.3j	0.78j	0.6j	<0.62	<2.2	<0.32	<2.2	4.7*

Secondary Contact Recreation

2024/26 Use Attainment	Alert

Not Assessed	NO

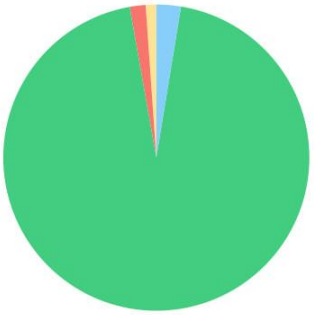
2024/26 Use Attainment Summary
No bacteria or other indicator data for Upper Spectacle Pond (MA31044) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Valley Brook (MA31-15)

Location:	Source, northwest of Holden Hill, Granville to MA/CT border, Granville.
AU Type:	RIVER
AU Size:	5.9 MILES
Classification/Qualifier:	B: CWF, HQW

Valley Brook (MA31-15)

Watershed Area: 6.99 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area* (square miles)	6.71	4.01	1.90	1.05
Agriculture	1.1%	0.7%	1%	0.1%
Developed	1.7%	2.3%	1.6%	2.5%
Natural	94.6%	94.2%	93.7%	93.5%
Wetland	2.6%	2.7%	3.7%	3.9%
Impervious	0.7%	1%	0.7%	1.1%

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

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Valley Brook (MA31-15) was Not Assessed because fish toxics sampling was not conducted.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Valley Brook (MA31-15) is assessed as Fully Supporting. MassDEP staff recorded aesthetics observations at one station close to the downstream end of this Valley Brook AU ~1/2 mile upstream of MA/CT state line, west of Clark Road, Granville (W2721) in summer 2017 (n=5), as part of the Reference Site Network monitoring project. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2721	MassDEP	Water Quality	Valley Brook	[approximately 1/2 mile upstream of MA/CT state line, west of Clark Road, Granville]	42.042005	-72.918377

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
W2721	2017	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2721 on Valley Brook (MA31-15) during 5 site visits between May 2017 and Sep 2017. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

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

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2721	2017	5	5	0

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

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2721	Valley Brook	2017	Aesthetics Impaired?	No	5	5
W2721	Valley Brook	2017	Aquatic Plant Density, Overall	None	5	5
W2721	Valley Brook	2017	Color	None	5	5

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2721	Valley Brook	2017	Objectionable Deposits	No	5	5
W2721	Valley Brook	2017	Odor	None	5	5
W2721	Valley Brook	2017	Periphyton Density, Filamentous	None	4	5
W2721	Valley Brook	2017	Periphyton Density, Filamentous	Sparse	1	5
W2721	Valley Brook	2017	Periphyton Density, Film	None	2	5
W2721	Valley Brook	2017	Periphyton Density, Film	Sparse	3	5
W2721	Valley Brook	2017	Scum	No	5	5
W2721	Valley Brook	2017	Turbidity	None	5	5

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 Valley Brook (MA31-15) 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 Valley Brook (MA31-15) 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 about halfway down this Valley Brook AU at W1447 [Rt. 57 bridge, Granville] from Apr-Sep 2006 (n=5). Analysis of this historic single year limited frequency *E. coli* dataset from W1447 indicated 0% of intervals had GMs >244 CFU/100ml, 1 sample exceeded the 794 CFU/100ml STV, and the overall GM was 25 CFU/100ml. Historic *E. coli* data from W1447 were indicative of good water quality conditions. 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
W1447	MassDEP	Water Quality	Valley Brook	[Route 57 bridge, Granville]	42.081142	-72.909907

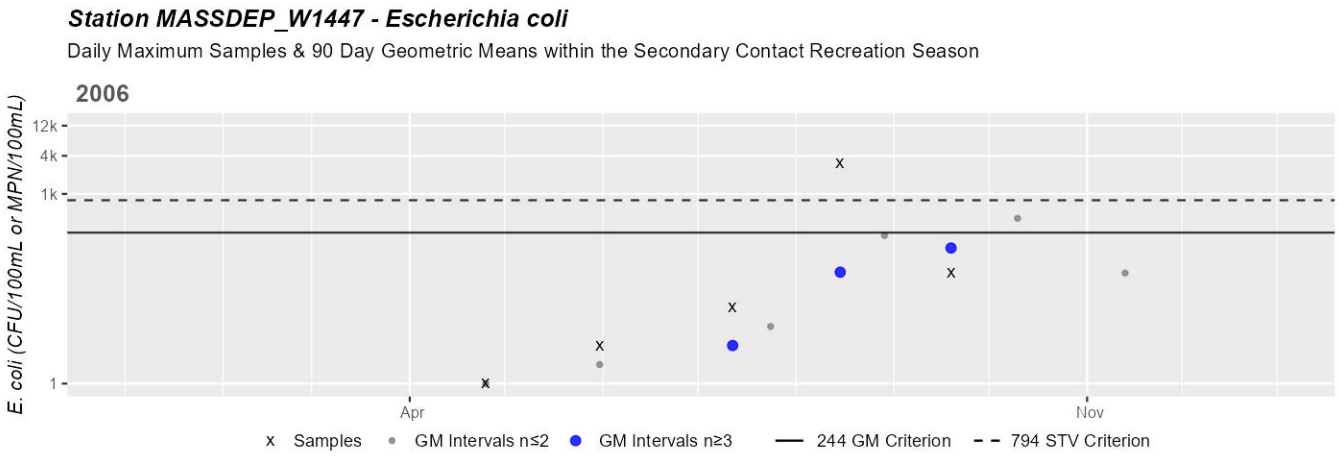
Bacteria Data

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
W1447	MassDEP	E. coli	04/25/06	09/19/06	5	1	3020	25



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

Ward Pond (MA31047)

Location:	Becket.
AU Type:	FRESHWATER LAKE
AU Size:	27 ACRES
Classification/Qualifier:	B: HQW (no lakes in the state have a CWF designation)

No usable data were available for Ward Pond (MA31047) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

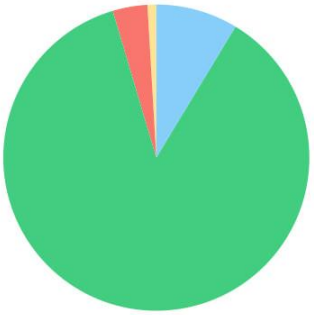
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

West Branch Farmington River (MA31-01)

Location:	Headwaters, outlet Hayden Pond, Otis to the MA/CT border in the Colebrook Reservoir, Sandisfield/Tolland.
AU Type:	RIVER
AU Size:	16.1 MILES
Classification/Qualifier:	B: CWF, HQW

West Branch Farmington River (MA31-01)

Watershed Area: 101.99 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area* (square miles)	101.33	8.47	26.29	2.33
Agriculture	0.9%	1.2%	1%	1.9%
Developed	3.7%	2.1%	5.4%	6.3%
Natural	86.7%	93.3%	80.4%	85.9%
Wetland	8.7%	3.4%	13.2%	6%
Impervious	1.8%	0.8%	2.6%	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	Fish Bioassessments	--	Unchanged
5	5	Lack of a Coldwater Assemblage	--	Unchanged
5	5	Temperature	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Fish Bioassessments	Source Unknown (N)	X	--	--	--	--
Lack of a Coldwater Assemblage	Dam or Impoundment (Y)	X	--	--	--	--
Temperature	Dam or Impoundment (Y)	X	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for West Branch Farmington River (MA31-01) was Not Assessed because fish toxics sampling was not conducted.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for West Branch Farmington River (MA31-01) 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 West Branch Farmington River (MA31-01) is assessed as Fully Supporting, based on *E. coli* data collected in 2021 & 2022 at 5 stations. Farmington River Watershed Association (FRWA) staff/volunteers collected *E. coli* bacteria samples in this West Branch Farmington River AU from 2021-2022 at 5 stations/sample years from upstream to downstream as follows: Close to the upstream end of the AU at FRWA_WBFR-20220 [Rt. 8 bridge (Rt 8 N Main Rd at 20 Soucie Ln, Otis] in 2021-2022 (n=6/yr) and FRWA_WBFR-19312 [86 Tannery Rd, Otis] in 2021-2022 (n=6/yr), a third of the way down the AU at FRWA_WBFR-15577 [Rt 8, Otis] in 2021-2022 (n=6/yr), three-quarters of the way down the AU at FRWA_WBFR-5680 [Rt 8 N Main St #151, Sandisfield] in 2021-2022 (n=6/yr), and close to the downstream end of the AU at FRWA_WBFR-727 [unnamed rd. off Rt 8 S Main St, Tolland] in 2021-2022 (n=6/yr). Analysis of the multi-year limited frequency *E. coli* datasets from these stations indicated that generally none of the sufficient data yrs had intervals where >20% of the GMs were >126 CFU/100ml (with the exception of FRWA_WBFR-15577 with 29% in 2022), no yrs had ≥2 samples exceed the 410 CFU/100ml STV and cumulatively (per station) across years usually 0% of the intervals had GMs >126 CFU/100ml (with the exception of FRWA_WBFR-15577 with 14% cumulative). Overall, the *E. coli* data collected in the West Branch Farmington River are indicative of good water quality conditions. Surface water sampling was conducted by the USGS on the West Branch of the Farmington River at station USGS-01185500 near New Boston 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).

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
FRWA_WBFR-15577	Farmington River Watershed Association	Water Quality	West Branch Farmington River	Rt 8, Otis	42.185751	-73.084698
FRWA_WBFR-19312	Farmington River Watershed Association	Water Quality	West Branch Farmington River	86 Tannery Rd, Otis	42.21	-73.09505
FRWA_WBFR-20220	Farmington River Watershed Association	Water Quality	West Branch Farmington River	Rt 8 North Main Rd at 20 Soucie Ln, Otis	42.21667	-73.10089
FRWA_WBFR-5680	Farmington River Watershed Association	Water Quality	West Branch Farmington River	Rt 8 North Main St #151, Sandisfield	42.108921	-73.071843

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
FRWA_WBFR-727	Farmington River Watershed Association	Water Quality	West Branch Farmington River	unnamed rd. off Rt 8 South Main St, Tolland	42.071058	-73.062281
USGS-01185500	U.S. Geological Survey	Water Quality	West Branch Farmington River	WEST BRANCH FARMINGTON RIVER NEAR NEW BOSTON, MA; no WWTF	42.079000	-73.073000

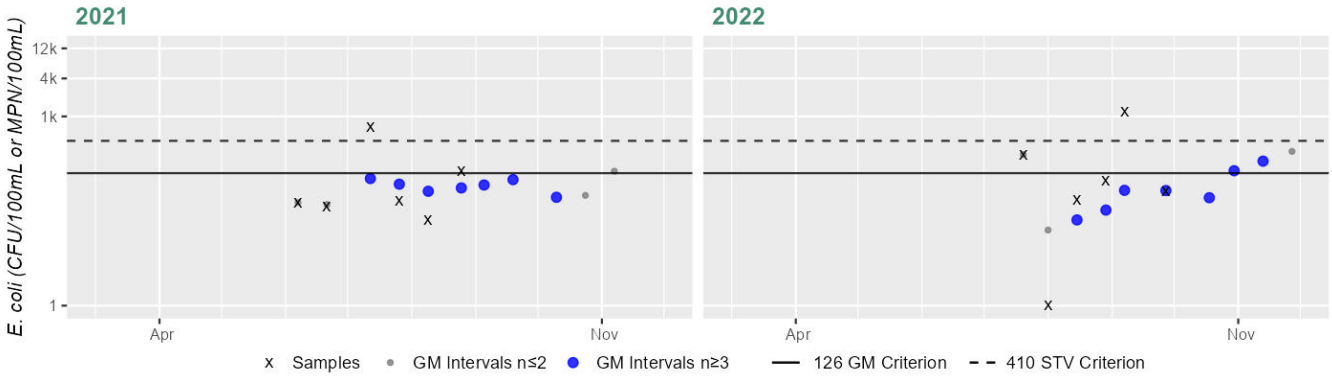
Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)
(FRWA 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
FRWA_WBFR-15577	Farmington River Watershed Association	E. coli	06/07/21	08/25/21	6	23	686	73
FRWA_WBFR-15577	Farmington River Watershed Association	E. coli	07/20/22	09/27/22	6	1	1203	66
FRWA_WBFR-19312	Farmington River Watershed Association	E. coli	06/07/21	08/25/21	6	6	960	36
FRWA_WBFR-19312	Farmington River Watershed Association	E. coli	07/20/22	09/27/22	6	4	866	31
FRWA_WBFR-20220	Farmington River Watershed Association	E. coli	06/07/21	08/25/21	6	14	410	37
FRWA_WBFR-20220	Farmington River Watershed Association	E. coli	06/27/22	09/27/22	6	6	1413	39
FRWA_WBFR-5680	Farmington River Watershed Association	E. coli	06/07/21	08/25/21	6	6	365	28
FRWA_WBFR-5680	Farmington River Watershed Association	E. coli	06/27/22	09/27/22	6	12	54	21
FRWA_WBFR-727	Farmington River Watershed Association	E. coli	06/07/21	08/25/21	6	18	1203	58
FRWA_WBFR-727	Farmington River Watershed Association	E. coli	06/27/22	09/27/22	6	9	59	28

Station FRWA_WBFR-15577 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	73
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	16%

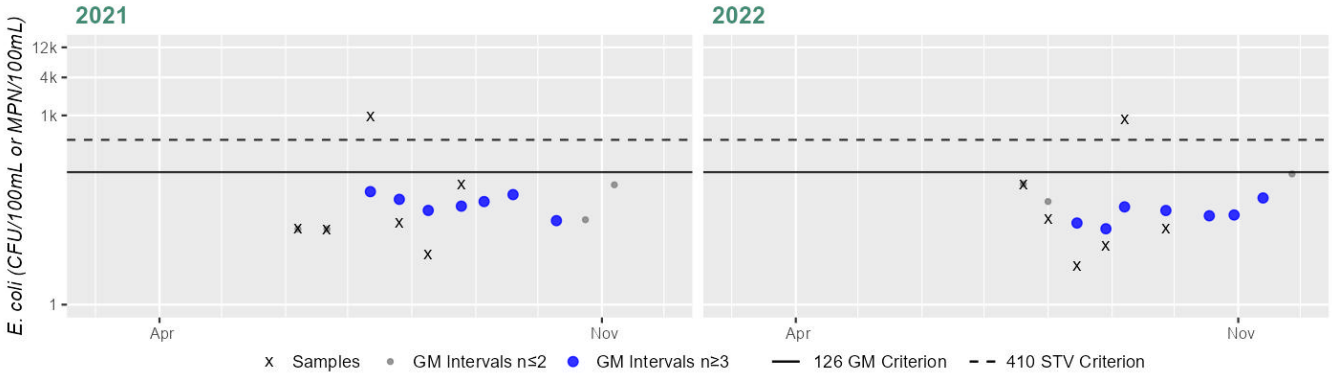
Variable*	Result
Samples	6
SeasGM	66
#GMI	7
#GMI Ex	2
%GMI Ex	28%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance
Current (2011-2022)
14%

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

Station FRWA_WBFR-19312 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	36
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	16%

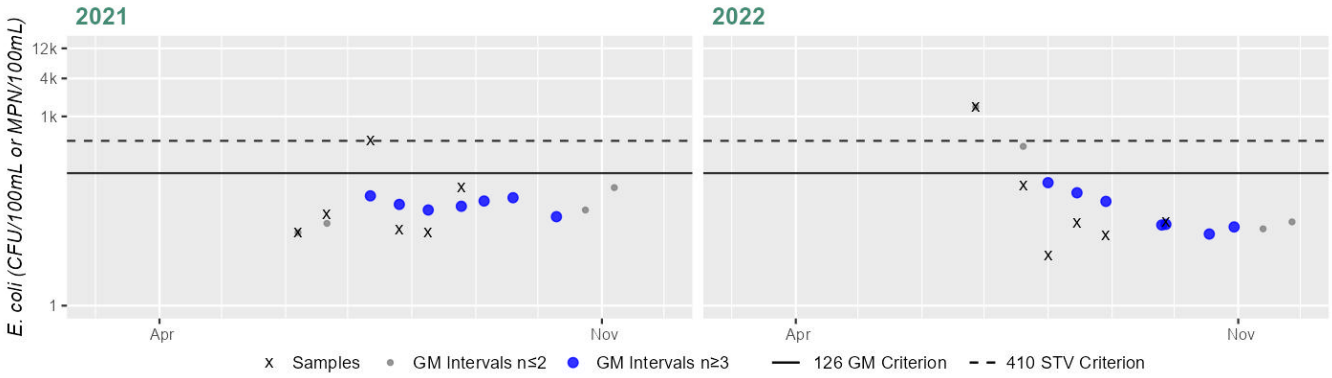
Variable*	Result
Samples	6
SeasGM	31
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	16%

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

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

Station FRWA_WBFR-20220 & MASSDEP_W1599 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	37
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	16%

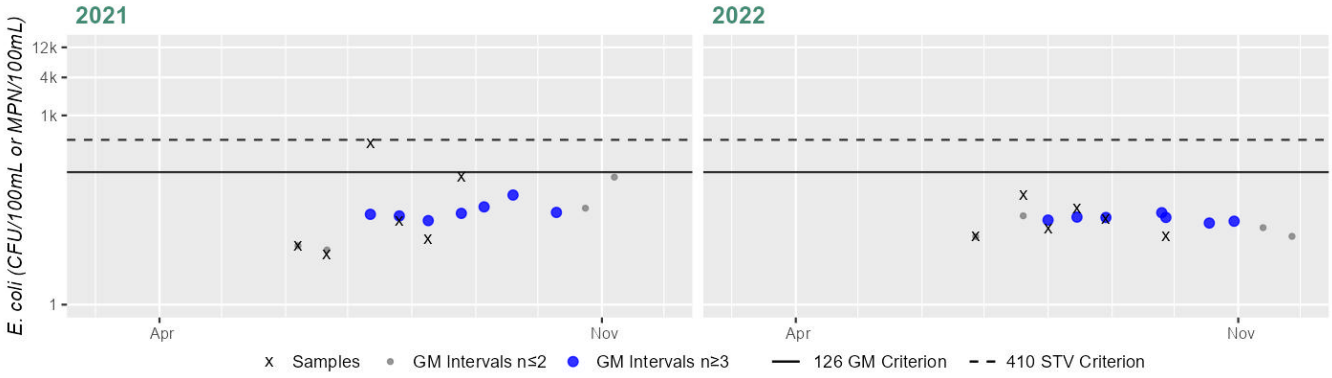
Variable*	Result
Samples	6
SeasGM	39
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	16%

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

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

Station FRWA_WBFR-5680 - Escherichia coli

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

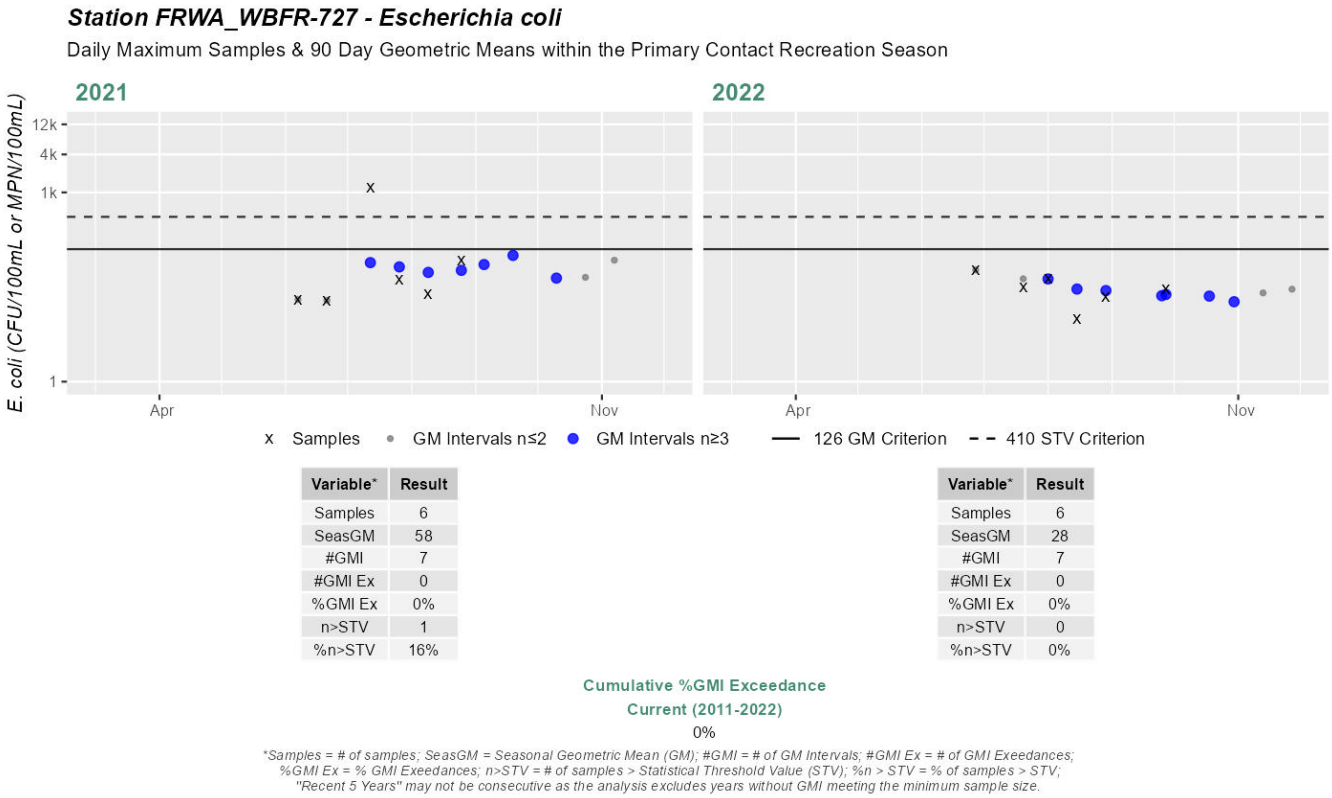


Variable*	Result
Samples	6
SeasGM	28
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	21
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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



Other Indicators

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

Summary
Surface water sampling was conducted by the USGS on the West Branch of the Farmington River (MA31-01) at station USGS-01185500 near New Boston, MA on three dates during August to October 2020 as part of a MassDEP funded project to evaluate 24 PFAS analytes in ambient water samples upstream and downstream of wastewater treatment facilities (however, this station was not associated with a WWTF). The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS) were all less than the 90 ng/L (ppt) recreational screening value (HFPO-DA/GenX was not analyzed in this study).

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

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

Station Code	Sample Date	PFOA ng/L	PFOS ng/L	PFNA ng/L	PFHxS ng/L	PFBA ng/L	PFBS ng/L	ΣPFAS6 ng/L
USGS-01185500	8/25/2020	E1.27	E1.01	E0.539	<1.82	E0.987	<1.82	7.0*
USGS-01185500	9/28/2020	E0.997	E0.739	E0.352	<1.9	E0.694	<1.9	6.5*
USGS-01185500	10/15/2020	E1.05	E0.543	E0.372	<1.94	E1.24	<1.94	6.6*

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 Farmington River (MA31-01) is assessed as Fully Supporting based on a re-evaluation of bacteria data collected in 2006, 2021 & 2022 at 8 stations/combined stations. MassDEP and Farmington River Watershed Association (FRWA) staff/volunteers collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in the West Branch Farmington River, from 2006-2022 at 8 stations/combined stations. Samples were collected from the following stations/sample years from upstream to downstream: Close to the upstream end of the AU at FRWA_WBFR-20220 & W1599 [Rt 8 N Main Rd at 20 Soucie Ln, Otis & Rt. 8 bridge (near Soucie Lane), Otis] from Apr-Sep 2006 (historic n=5) and 2021-2022 (current n=6/yr), FRWA_WBFR-19312 [86 Tannery Rd, Otis] in 2021-2022 (n=6/yr), a third of the way down the AU at FRWA_WBFR-15577 [Rt 8, Otis] in 2021-2022 (n=6/yr), halfway down the AU at W0198 [Reservoir Rd bridge, Otis] from Apr-Sep 2006 (n=5), three-quarters of the way down the AU at FRWA_WBFR-5680 [Rt 8 N Main St #151, Sandisfield] in 2021-2022 (n=6/yr), closer to the downstream end of the AU (though all still upstream of Thorp Brook discharge point) at W0201 [Clark Rd bridge, near USGS Gage #01185500, Sandisfield] from Apr-Sep 2006 (n=5), FRWA_WBFR-727 [unnamed rd. off Rt 8 S Main St, Tolland] in 2021-2022 (n=6/yr) and W1440 [Roosterville Rd bridge, Sandisfield] from Apr-Sep 2006 (n=5). Analysis of the multi-year limited frequency *E. coli* datasets from these stations indicated that generally none of the sufficient data yrs had intervals where >20% of the GMs were >244 CFU/100ml, no yrs had ≥2 samples exceed the 794 CFU/100ml STV and cumulatively (per station) across years 0% of the intervals had GMs >244 CFU/100ml. Overall, the *E. coli* data collected in both the historic & the current IR window for the West Branch Farmington River are all indicative of good water quality conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
FRWA_WBFR-15577	Farmington River Watershed Association	Water Quality	West Branch Farmington River	Rt 8, Otis	42.185751	-73.084698
FRWA_WBFR-19312	Farmington River Watershed Association	Water Quality	West Branch Farmington River	86 Tannery Rd, Otis	42.21	-73.09505
FRWA_WBFR-20220	Farmington River Watershed Association	Water Quality	West Branch Farmington River	Rt 8 North Main Rd at 20 Soucie Ln, Otis	42.21667	-73.10089

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
FRWA_WBFR-5680	Farmington River Watershed Association	Water Quality	West Branch Farmington River	Rt 8 North Main St #151, Sandisfield	42.108921	-73.071843
FRWA_WBFR-727	Farmington River Watershed Association	Water Quality	West Branch Farmington River	unnamed rd. off Rt 8 South Main St, Tolland	42.071058	-73.062281
W0198	MassDEP	Water Quality	West Branch Farmington River	[Reservoir Road bridge, Otis]	42.156888	-73.073528
W0201	MassDEP	Water Quality	West Branch Farmington River	[Clark Road bridge, near USGS Gage #01185500, Sandisfield]	42.078858	-73.073102
W1440	MassDEP	Water Quality	West Branch Farmington River	[Roosterville Road bridge, Sandisfield]	42.070432	-73.061979
W1599	MassDEP	Water Quality	West Branch Farmington River	[Route 8 bridge (near Soucie Lane), Otis]	42.216522	-73.100661

Bacteria Data

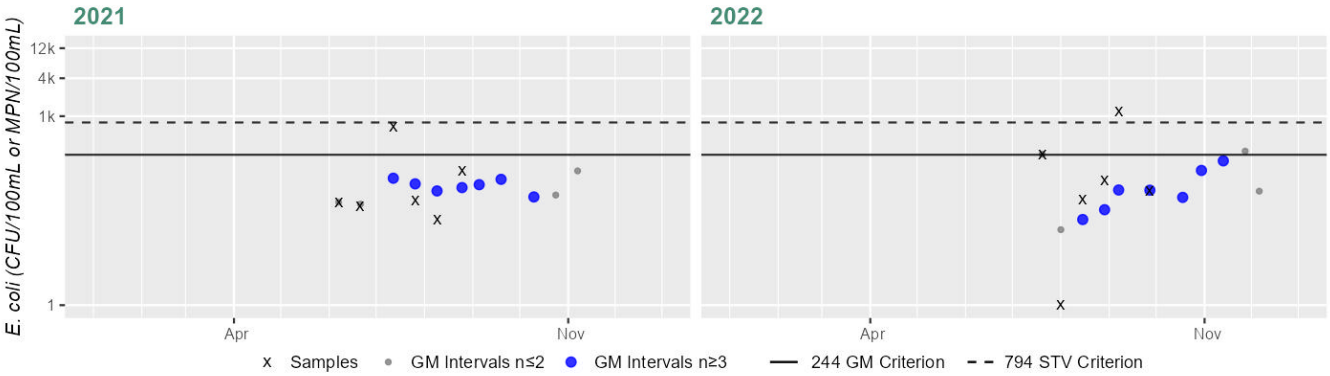
Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(FRWA 2023) (MassDEP Undated 1) (MassDEP Undated 6) (MassDEP Undated 3)
[Result units are CFU/100ml or MPN/100ml]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
FRWA_WBFR-15577	Farmington River Watershed Association	E. coli	06/07/21	08/25/21	6	23	686	73
FRWA_WBFR-15577	Farmington River Watershed Association	E. coli	07/20/22	09/27/22	6	1	1203	66
FRWA_WBFR-19312	Farmington River Watershed Association	E. coli	06/07/21	08/25/21	6	6	960	36
FRWA_WBFR-19312	Farmington River Watershed Association	E. coli	07/20/22	09/27/22	6	4	866	31
FRWA_WBFR-20220	Farmington River Watershed Association	E. coli	06/07/21	08/25/21	6	14	410	37
FRWA_WBFR-20220	Farmington River Watershed Association	E. coli	06/27/22	09/27/22	6	6	1413	39
FRWA_WBFR-5680	Farmington River Watershed Association	E. coli	06/07/21	08/25/21	6	6	365	28
FRWA_WBFR-5680	Farmington River Watershed Association	E. coli	06/27/22	09/27/22	6	12	54	21

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
FRWA_WBFR-727	Farmington River Watershed Association	E. coli	06/07/21	08/25/21	6	18	1203	58
FRWA_WBFR-727	Farmington River Watershed Association	E. coli	06/27/22	09/27/22	6	9	59	28
W0198	MassDEP	E. coli	04/25/06	09/19/06	5	12	296	60
W0201	MassDEP	E. coli	04/25/06	09/19/06	5	4	208	46
W1440	MassDEP	E. coli	04/25/06	09/19/06	5	8	188	50
W1599	MassDEP	E. coli	04/25/06	09/19/06	5	17	124	33

Station FRWA_WBFR-15577 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	73
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	66
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance

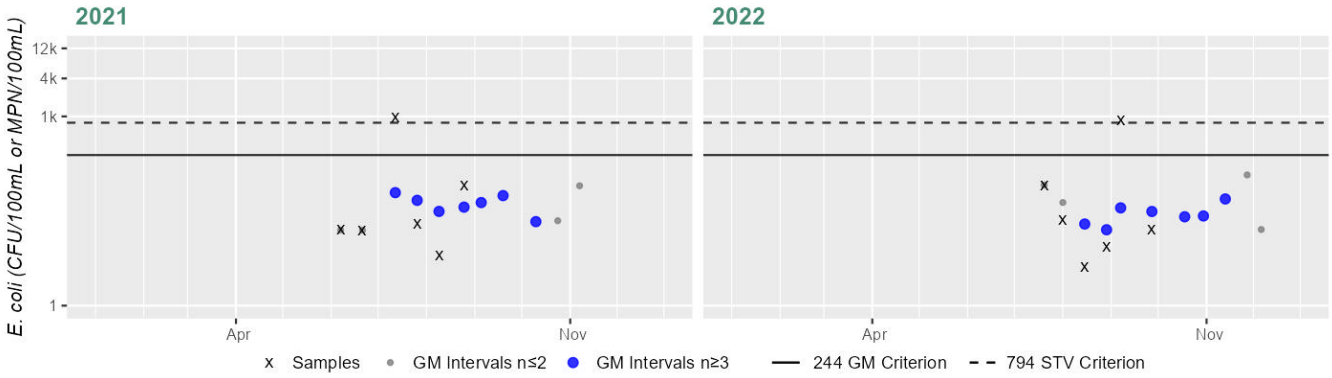
Current (2011-2022)

0%

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

Station FRWA_WBFR-19312 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	36
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	16%

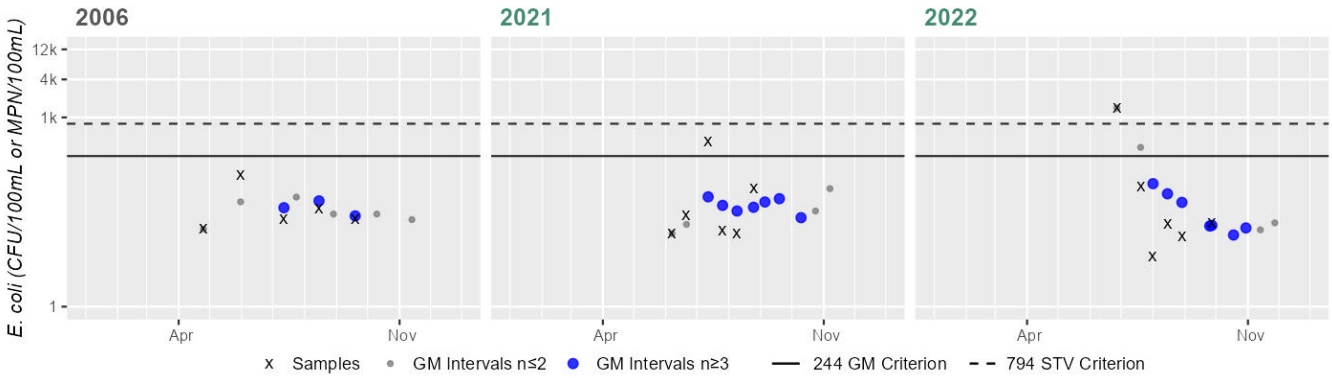
Variable*	Result
Samples	6
SeasGM	31
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	16%

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

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

Station FRWA_WBFR-20220 & MASSDEP_W1599 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	33
#GMI	3
#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	39
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	16%

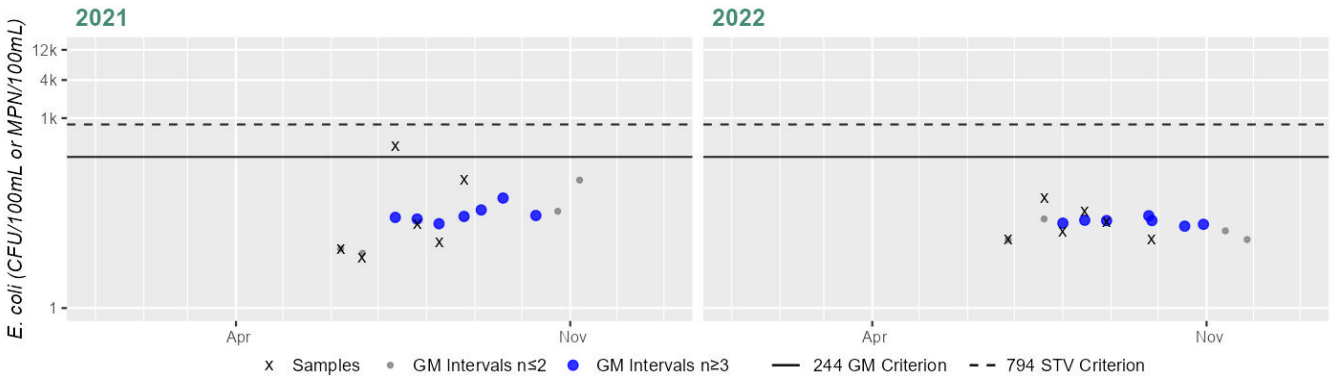
Cumulative %GMI Exceedance
Historic (1997-2010)
0%

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

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

Station FRWA_WBFR-5680 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	28
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

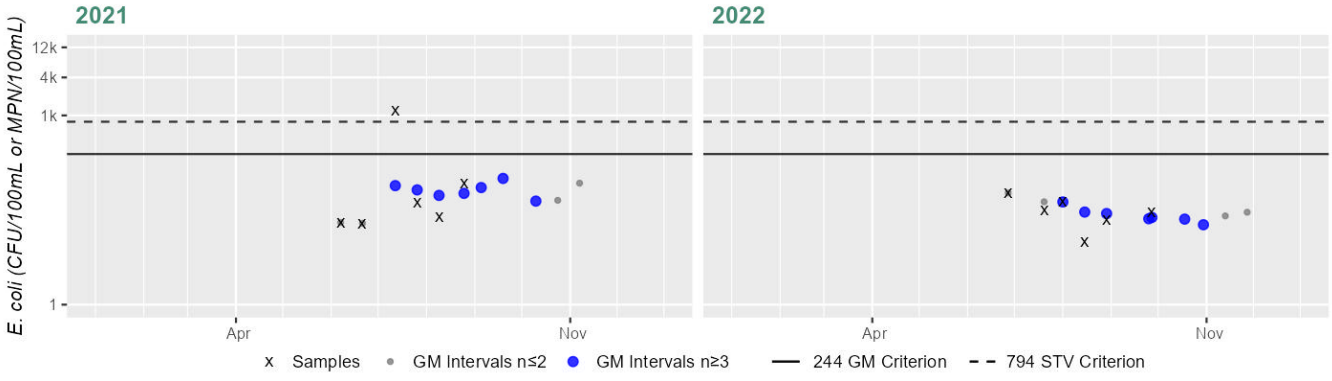
Variable*	Result
Samples	6
SeasGM	21
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Station FRWA_WBFR-727 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	58
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	16%

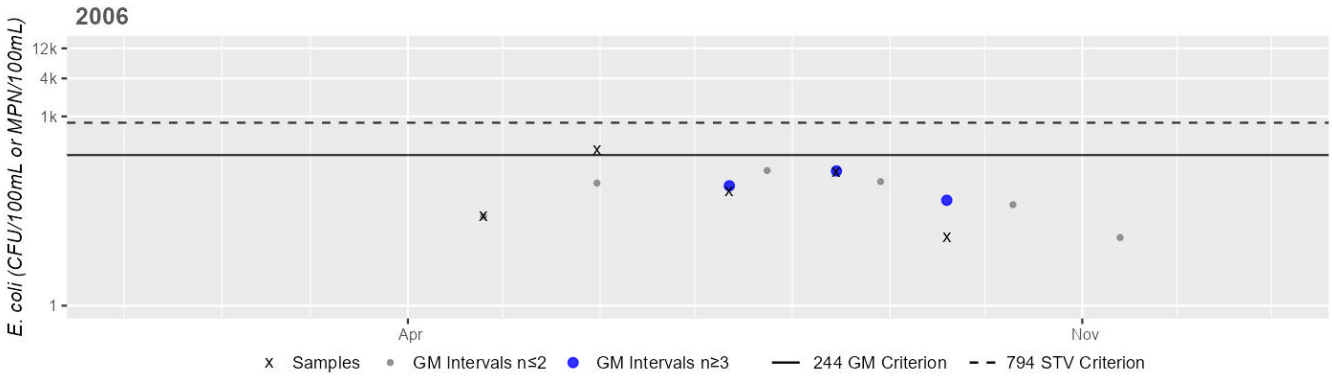
Variable*	Result
Samples	6
SeasGM	28
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Station MASSDEP_W0198 - Escherichia coli

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



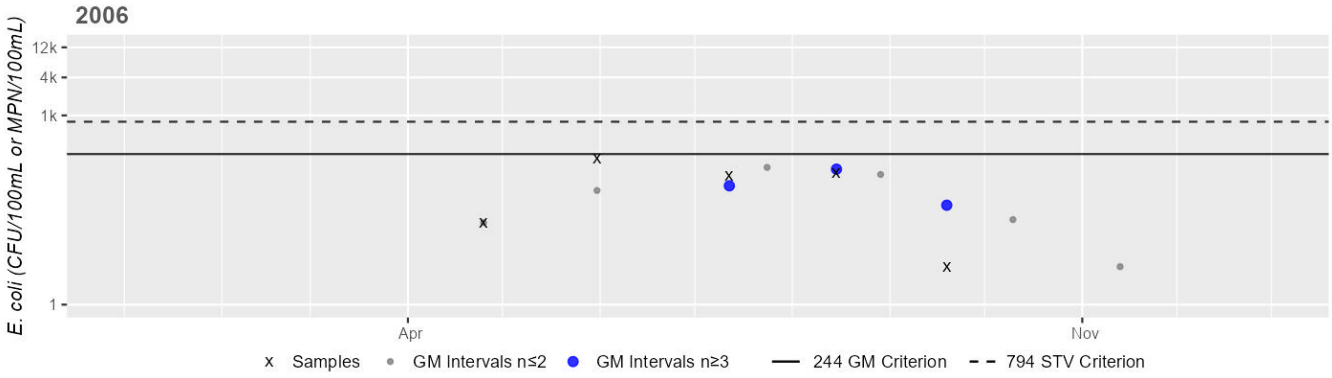
Variable*	Result
Samples	5
SeasGM	60
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Station MASSDEP_W0201 - Escherichia coli

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



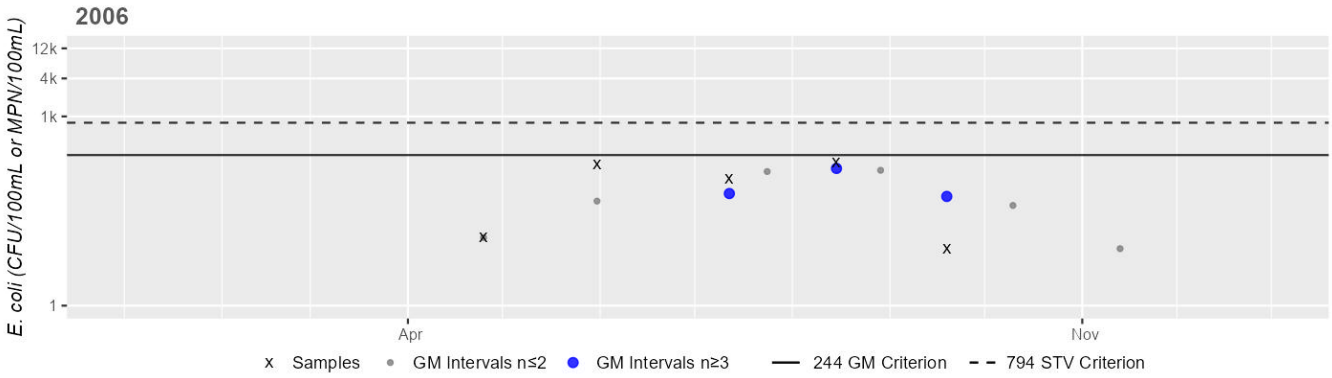
Variable*	Result
Samples	5
SeasGM	46
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Station MASSDEP_W1440 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	50
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

West Lake (MA31050)

Location:	Sandisfield.
AU Type:	FRESHWATER LAKE
AU Size:	60 ACRES
Classification/Qualifier:	B: HQW (no lakes in the state have a CWF designation)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	5	PFAS in Fish Tissue	--	Added

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
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 West Lake (MA31050) is assessed as Not Supporting with a new impairment being added for PFAS in Fish Tissue. Fish toxics sampling was conducted in this West Lake AU at station F0483 (PFAS Study ID 39) on 09/27/2022 as part of a MassDEP-funded project evaluating 40 PFAS analytes in selected fresh waters. MA DPH issued a site-specific advisory for PFAS in West Lake in their May 2024 Freshwater Fish Consumption Advisory List and retained it in the January 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
F0483	MassDEP	Fish Toxics	West Lake	[Sandisfield (impounded by West Lake Dam NAT ID: MA00288)]	42.132215	-73.163459

Fish Tissue Data

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

Summary
Fish toxics sampling was conducted in West Lake (MA31050) at station F0483 (PFAS Study ID 39) on 09/27/2022 as part of a MassDEP-funded project evaluating 40 PFAS analytes in selected fresh waters. Because of elevated PFAS measured in fish filets, MA DPH issued a site-specific fish consumption advisory for West Lake in their May 2024 Freshwater Fish Consumption Advisory List and retained it in the January 2025 list. The site specific DPH advisory is indicative of a Fish Consumption Use impairment for PFAS in Fish Tissue for West Lake (MA31050).

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

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

[Species List: BC = black crappie, 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
F0483	39	09/27/2022	BC	ND	0.14	ND	1.41	PFNA
F0483	39	09/27/2022	P	ND	ND	ND	0.45	PFOS
F0483	39	09/27/2022	YP	ND	ND	ND	0.46	PFOS

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for West Lake (MA31050) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary

While surface water samples collected at one station for West Lake (MA31050) did not contain elevated PFAS concentrations, there are no bacteria data available for this AU, so there is Insufficient Information to assess the Primary Contact Recreation Use. Surface water sampling was conducted in West Lake at station W3304 (PFAS Study ID 39) on 09/27/2022 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
W3304	MassDEP	Water Quality	West Lake	[the default location representing co-located water/fish PFAS sampling, Sandisfield]	42.132215	-73.163459

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 West Lake (MA31050) at station W3304 (PFAS Study ID 39) on 09/27/2022 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 ∑PFAS6 equals the sum of PFOA, PFOS, PFNA, PFHxS, PFDA, PFHpA (not all shown individually here); * indicates the ∑PFAS6 concentration was qualified since data for one or more individual PFAS6 analytes were qualified; b = blank contamination qualifier, d = qualifier indicating precision of field duplicates did not meet project data quality objectives; j = 'estimated' value qualifier; ## = censored data.]

Station Code	PFAS Study ID	Sample Date	PFOA ng/L	PFOS ng/L	PFNA ng/L	PFHxS ng/L	PFBA ng/L	PFBS ng/L	HFPO-DA ng/L	∑PFAS6 ng/L
W3304	39	09/27/2022	1.4j	<0.53	<0.53	<0.61	<2.1	<0.32	<2.1	4.7*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for West Lake (MA31050) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

White Lily Pond (MA31051)

Location:	Otis.
AU Type:	FRESHWATER LAKE
AU Size:	62 ACRES
Classification/Qualifier:	B: HQW (no lakes in the state have a CWF designation)

No usable data were available for White Lily Pond (MA31051) 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

York Lake (MA31052)

Location:	New Marlborough.
AU Type:	FRESHWATER LAKE
AU Size:	29 ACRES
Classification/Qualifier:	B: HQW (no lakes in the state have a CWF designation)

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

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for York Lake (MA31052) was Not Assessed because fish toxics sampling was not conducted.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for York Lake (MA31052) 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 York Lake (MA31052) continues to be assessed as Fully Supporting. York Lake has a beach with DPH Beach Closure data: York Lake (DCR) [Beach ID: 4834] beach in New Marlborough. The beach was rarely, if at all, posted for swimming from 2018-2022.

Beach Postings

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

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
4834	York Lake Beach (DCR)/ New Marlborough	42.09638, -73.18090	42.09585, -73.18070	0%	4%	2%	0%	0%	0%	0%	7%	7%	0

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for York Lake (MA31052) continues to be assessed as Fully Supporting. York Lake has a beach with DPH Beach Closure data: York Lake (DCR) [Beach ID: 4834] beach in New Marlborough. The beach was rarely, if at all, posted for swimming from 2018-2022.

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.

EPA. "EPA National Aquatic Resources Survey (NARS) 2017 bacteria data downloaded from WQX 10/21/2024." United States Environmental Protection Agency, 2024.

FRWA. "2021-2022 bacteria data submitted to MassDEP WPP portal over multiple dates or downloaded from WQX (last submittal/download 1/3/2023)." Farmington River Watershed Association, Simsbury, CT, 2023.

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.

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

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).

NWQMC. "Water Quality Portal." National Water Quality Monitoring Council, Water Quality Data from 2011-2022. 2025. https://www.waterqualitydata.us (accessed January 2025).

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).