

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

**Appendix 38
Westfield 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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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
Abbott Brook	MA32-62	3	3	None	--	Unchanged
Arm Brook	MA32-58	5	5	Temperature	--	Unchanged
Ashley Brook	MA32-37	5	5	Escherichia Coli (E. Coli)	--	Unchanged
Ashley Cutoff	MA32001	3	3	None	--	Unchanged
Ashley Pond	MA32002	4c	4c	(Water Chestnut*)	--	Unchanged
Austin Brook	MA32-70	3	3	None	--	Unchanged
Barry Brook	MA32-57	3	3	None	--	Unchanged
Bartlett Brook	MA32-50	2	2	None	--	Unchanged
Bedlam Brook	MA32-33	2	2	None	--	Unchanged
Billings Brook	MA32-69	2	2	None	--	Unchanged
Blair Brook	MA32-71	3	3	None	--	Unchanged
Blair Pond	MA32009	4c	4c	(Fanwort*)	--	Unchanged
Borden Brook Reservoir	MA32011	3	3	None	--	Unchanged
Bradley Brook	MA32-21	2	3	None	--	Unchanged
Bronson Brook	MA32-45	2	2	None	--	Unchanged
Buck Pond	MA32012	5	5	(Non-Native Aquatic Plants*)	--	Unchanged
Buck Pond	MA32012	5	5	Chlorophyll-a	--	Unchanged
Buck Pond	MA32012	5	5	Dissolved Oxygen	--	Unchanged
Buck Pond	MA32012	5	5	PFAS in Fish Tissue	--	Added
Buckley-Dunton Lake	MA32013	4a	4a	Mercury in Fish Tissue	42411	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Bush Brook	MA32-56	3	3	None	--	Unchanged
Center Pond	MA32015	4c	4c	(Curly-leaf Pondweed*)	--	Unchanged
Center Pond	MA32015	4c	4c	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
Clear Pond	MA32077	3	3	None	--	Unchanged
Cobble Mountain Reservoir	MA32018	3	3	None	--	Unchanged
Cone Brook	MA32-72	3	3	None	--	Unchanged
Congamond Lakes	MA32021	5	5	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
Congamond Lakes	MA32021	5	5	(Non-Native Fish/Shellfish/Zooplankton*)	--	Unchanged
Congamond Lakes	MA32021	5	5	Dissolved Oxygen	--	Unchanged
Congamond Lakes	MA32021	5	5	Harmful Algal Blooms	--	Unchanged
Congamond Lakes	MA32021	5	5	PFAS in Fish Tissue	--	Added
Congamond Lakes	MA32022	5	5	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
Congamond Lakes	MA32022	5	5	Dissolved Oxygen	--	Unchanged
Congamond Lakes	MA32022	5	5	PFAS in Fish Tissue	--	Added

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Congamond Lakes	MA32023	5	5	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
Congamond Lakes	MA32023	5	5	Dissolved Oxygen	--	Unchanged
Congamond Lakes	MA32023	5	5	Nutrient/Eutrophication Biological Indicators	--	Unchanged
Congamond Lakes	MA32023	5	5	PFAS in Fish Tissue	--	Added
Connor Reservoir	MA32024	3	3	None	--	Unchanged
Cook Brook	MA32-38	3	3	None	--	Unchanged
Cooley Lake	MA32026	3	3	None	--	Unchanged
Crooked Pond	MA32028	3	3	None	--	Unchanged
Damon Pond	MA32029	5	5	(Aquatic Plants (Macrophytes)*)	--	Added
Damon Pond	MA32029	5	5	Mercury in Fish Tissue	--	Unchanged
Dead Branch (Brook)	MA32-63	2	2	None	--	Unchanged
Depot Brook	MA32-17	2	2	None	--	Unchanged
Dickinson Brook	MA32-34	2	2	None	--	Unchanged
Factory Brook	MA32-42	2	2	None	--	Unchanged
Freeland Brook	MA32-73	2	2	None	--	Unchanged
Fuller Brook	MA32-64	2	2	None	--	Unchanged
Garnet Lake	MA32037	3	3	None	--	Unchanged
Geer Brook	MA32-43	3	3	None	--	Unchanged
Glendale Brook	MA32-10	2	2	None	--	Unchanged
Granville Reservoir	MA32038	3	3	None	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Great Brook	MA32-25	5	5	Escherichia Coli (E. Coli)	--	Unchanged
Great Brook	MA32-25	5	5	Temperature	--	Unchanged
Hamilton Brook	MA32-74	3	3	None	--	Unchanged
Hammond Pond	MA32040	3	3	None	--	Unchanged
Hollister Brook	MA32-75	3	3	None	--	Unchanged
Horse Pond	MA32043	5	5	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
Horse Pond	MA32043	5	5	(Non-Native Aquatic Plants*)	--	Unchanged
Horse Pond	MA32043	5	5	Chlorophyll-a	--	Unchanged
Horse Pond	MA32043	5	5	Dissolved Oxygen	--	Unchanged
Hume Brook	MA32-76	3	3	None	--	Unchanged
Hundred Acre Brook	MA32-77	2	2	None	--	Unchanged
Jacks Brook	MA32-39	5	5	Escherichia Coli (E. Coli)	--	Unchanged
Kearnery Brook	MA32-46	2	2	None	--	Unchanged
Kellog Brook	MA32-55	3	3	None	--	Unchanged
Kinne Brook	MA32-32	2	2	None	--	Unchanged
Little River	MA32-08	5	5	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed
Little River	MA32-08	5	5	Fecal Coliform	R1_MA_2024_04	Changed
Little River	MA32-08	5	5	Temperature	--	Unchanged
Little River	MA32-16	5	5	Temperature	--	Unchanged
Little River	MA32-35	3	3	None	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Little River	MA32-36	5	5	Combined Biota/Habitat Bioassessments	--	Unchanged
Little River	MA32-36	5	5	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed
Little River	MA32-36	5	5	Temperature	--	Unchanged
Littleville Lake	MA32046	3	3	None	--	Unchanged
McLean Reservoir	MA32050	3	3	None	--	Unchanged
Meadow Brook	MA32-11	2	2	None	--	Unchanged
Mica Mill Brook	MA32-78	3	3	None	--	Unchanged
Middle Branch Westfield River	MA32-03	2	2	None	--	Unchanged
Middle Branch Westfield River	MA32-65	5	5	Temperature	--	Unchanged
Middle Branch Westfield River	MA32-66	2	2	None	--	Unchanged
Mill Brook	MA32-49	2	2	None	--	Unchanged
Miller Brook	MA32-27	5	4a	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed
Mongue Meadow Brook	MA32-79	3	3	None	--	Unchanged
Moose Meadow Brook	MA32-40	2	2	None	--	Unchanged
Moose Meadow Brook	MA32-41	5	4a	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed
Moose Meadow Brook	MA32-41	5	4a	Fecal Coliform	R1_MA_2024_04	Changed

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Munn Brook	MA32-59	5	5	Escherichia Coli (E. Coli)	--	Unchanged
North Branch Swift River	MA32-54	2	2	None	--	Unchanged
North Railroad Pond	MA32053	3	3	None	--	Unchanged
Norwich Pond	MA32054	3	3	None	--	Unchanged
Otis Wait Brook	MA32-80	3	3	None	--	Unchanged
Paucatuck Brook	MA32-29	2	2	None	--	Unchanged
Pequot Pond	MA32055	5	5	(Curly-leaf Pondweed*)	--	Unchanged
Pequot Pond	MA32055	5	5	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
Pequot Pond	MA32055	5	5	(Non-Native Aquatic Plants*)	--	Unchanged
Pequot Pond	MA32055	5	5	(Water Chestnut*)	--	Unchanged
Pequot Pond	MA32055	5	5	Chlorophyll-a	--	Unchanged
Pequot Pond	MA32055	5	5	Dissolved Oxygen	--	Unchanged
Pequot Pond	MA32055	5	5	Enterococcus	--	Unchanged
Pequot Pond	MA32055	5	5	PFAS in Fish Tissue	--	Added
Pequot Pond	MA32055	5	5	Phosphorus, Total	--	Unchanged
Pixley Brook	MA32-81	3	3	None	--	Unchanged
Pond Brook	MA32-24	2	2	None	--	Unchanged
Pond Brook	MA32-44	2	2	None	--	Unchanged
Pond Brook	MA32-67	2	2	None	--	Unchanged
Potash Brook	MA32-22	5	5	Chloride	--	Unchanged
Potash Brook	MA32-22	5	5	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Potash Brook	MA32-22	5	5	Temperature	--	Unchanged
Powdermill Brook	MA32-09	5	5	Algae	--	Unchanged
Powdermill Brook	MA32-09	5	5	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed
Powdermill Brook	MA32-09	5	5	Sedimentation/Siltation	--	Unchanged
Powdermill Brook	MA32-09	5	5	Turbidity	--	Unchanged
Powell Brook	MA32-82	3	3	None	--	Unchanged
Roaring Brook	MA32-30	2	2	None	--	Unchanged
Roaring Brook	MA32-61	2	2	None	--	Unchanged
Robin Hood Lake	MA32057	3	2	None	--	Unchanged
Rudd Pond	MA32060	3	3	None	--	Unchanged
Russell Pond	MA32061	3	3	None	--	Unchanged
Sanderson Brook	MA32-31	2	2	None	--	Unchanged
Scout Pond	MA32063	3	3	None	--	Unchanged
Shaker Mill Brook	MA32-18	2	2	None	--	Unchanged
Shaw Brook	MA32-52	2	2	None	--	Unchanged
Skunk Brook	MA32-83	2	2	None	--	Unchanged
Sodum Brook	MA32-84	3	3	None	--	Unchanged
Stage Brook	MA32-60	2	2	None	--	Unchanged
Steep Bank Brook	MA32-53	2	2	None	--	Unchanged
Stones Brook	MA32-48	2	2	None	--	Unchanged
Swift River	MA32-12	2	2	None	--	Unchanged
Sykes Brook	MA32-85	3	3	None	--	Unchanged
Tannery Brook	MA32-86	3	3	None	--	Unchanged
Tower Brook	MA32-47	2	2	None	--	Unchanged
Walker Brook	MA32-20	2	2	None	--	Unchanged
Wards Stream	MA32-15	2	2	None	--	Unchanged
Watts Stream	MA32-14	3	3	None	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Webster Brook	MA32-68	2	2	None	--	Unchanged
West Branch Westfield River	MA32-01	2	2	None	--	Unchanged
West Falls Branch	MA32-13	2	2	None	--	Unchanged
Westfield Brook	MA32-51	2	2	None	--	Unchanged
Westfield Reservoir	MA32074	3	3	None	--	Unchanged
Westfield River	MA32-04	5	5	Enterococcus	R1_MA_2024_04	Changed
Westfield River	MA32-04	5	5	Escherichia Coli (E. Coli)	R1_MA_2024_04 P	Unchanged
Westfield River	MA32-04	5	5	Temperature	--	Unchanged
Westfield River	MA32-05	2	2	None	--	Unchanged
Westfield River	MA32-06	2	2	None	--	Unchanged
Westfield River	MA32-07	2	5	Escherichia Coli (E. Coli)	--	Added
White Brook	MA32-28	5	4a	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed
Whitmarsh Brook	MA32-87	3	3	None	--	Unchanged
Windsor Pond	MA32076	5	5	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
Windsor Pond	MA32076	5	5	Dissolved Oxygen	--	Unchanged
Windsor Pond	MA32076	5	5	Mercury in Fish Tissue	42410	Unchanged
Wright Pond	MA32078	3	3	None	--	Unchanged
Yokum Brook	MA32-19	2	2	None	--	Unchanged
Yokum Pond	MA32079	4c	4c	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged

Abbott Brook (MA32-62)

Location:	Headwaters (perennial portion), north of Abbott Hill Road, Chester to mouth at confluence with West Branch Westfield River, Chester.
AU Type:	RIVER
AU Size:	2.5 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Abbott Brook (MA32-62) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Arm Brook (MA32-58)

Location:	Headwaters (perennial portion), south of Summit Lock Road, Westfield to inlet unnamed pond west of Barbara Street, Westfield.
AU Type:	RIVER
AU Size:	1.7 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Arm Brook (MA32-58) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

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

Ashley Brook (MA32-37)

Location:	Headwaters (perennial portion), south of Hillside Road, Westfield to mouth at confluence with Jacks Brook, Westfield.
AU Type:	RIVER
AU Size:	0.5 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Ashley Brook (MA32-37) 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
5	5	Escherichia Coli (E. Coli)	--	Unchanged

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

Ashley Cutoff (MA32001)

Location:	Holyoke.
AU Type:	FRESHWATER LAKE
AU Size:	31 ACRES
Classification/Qualifier:	A: PWS, ORW

No usable data were available for Ashley Cutoff (MA32001) 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

Ashley Pond (MA32002)

Location:	Holyoke.
AU Type:	FRESHWATER LAKE
AU Size:	133 ACRES
Classification/Qualifier:	A: PWS, ORW

No usable data were available for Ashley Pond (MA32002) 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	(Water Chestnut*)	--	Unchanged

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

Austin Brook (MA32-70)

Location:	Perennial portion, from outlet of Chester Water Works Dam (NATID# MA02644) west of Route 20, Chester to mouth at confluence with Walker Brook, Chester.
AU Type:	RIVER
AU Size:	0.5 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Austin Brook (MA32-70) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Barry Brook (MA32-57)

Location:	Headwaters, outlet Snake Pond, Holyoke to mouth at confluence with Trask Brook (forming headwaters Bush Brook), Westfield.
AU Type:	RIVER
AU Size:	2.6 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Barry Brook (MA32-57) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Bartlett Brook (MA32-50)

Location:	Headwaters (perennial portion), between Mountain and Prospect streets, Plainfield to mouth at confluence with Westfield River, Cummington.
AU Type:	RIVER
AU Size:	2 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Bartlett Brook (MA32-50) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

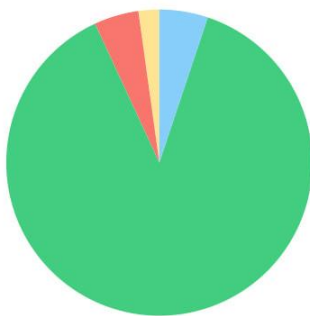
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Bedlam Brook (MA32-33)

Location:	Headwaters (perennial portion), north of Blandford Road, Blandford to mouth at confluence with Peebles Brook, Blandford.
AU Type:	RIVER
AU Size:	2.8 MILES
Classification/Qualifier:	A: PWS, ORW (Tributary)

Bedlam Brook (MA32-33)

Watershed Area: 14.28 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	14.28	6.40	3.75	1.76
Agriculture	2.2%	2.9%	1.2%	1.2%
Developed	4.7%	6.1%	4.2%	3.5%
Natural	88%	87%	83%	85.8%
Wetland	5.1%	4%	11.6%	9.5%
Impervious	1.9%	2.1%	1.9%	1.3%

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Bedlam Brook (MA32-33) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
There are no data available to assess the status of the Aesthetics Use for this Bedlam Brook AU (MA32-33), 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 Bedlam Brook (MA32-33) 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 Bedlam Brook (MA32-33) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in Bedlam Brook (MA32-33) at W1460 [Rt. 23 bridge, Blandford] from May-Oct 2006 (n=5). Historic <i>E. coli</i> data from W1460 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1460	MassDEP	Water Quality	Bedlam Brook	[Route 23 bridge, Blandford]	42.178012	-72.945610

Bacteria Data

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

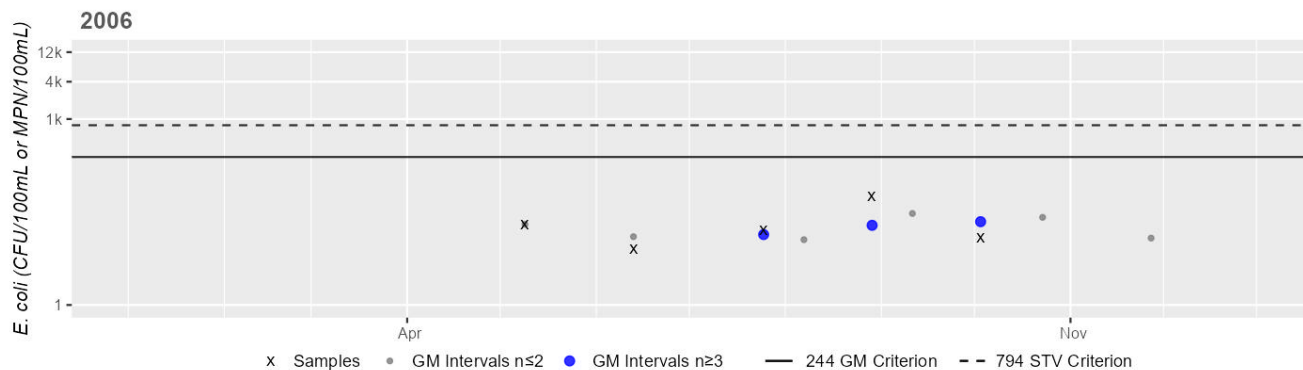
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1460	MassDEP	E. coli	05/09/06	10/03/06	5	8	56	17

Station MASSDEP_W1460 - Escherichia coli

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



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

Cumulative %GMI Exceedance

Historic (1997-2010)

0%

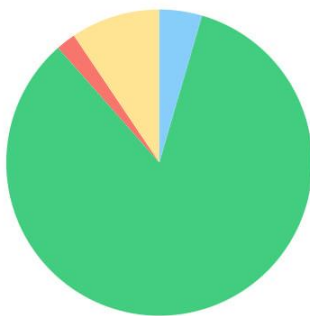
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes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

Billings Brook (MA32-69)

Location:	Headwaters west of Plainfield Road, Hawley to mouth at confluence with Swift River, Ashfield.
AU Type:	RIVER
AU Size:	1.6 MILES
Classification/Qualifier:	B

Billings Brook (MA32-69)

Watershed Area: 2.04 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	2.04	2.04	0.47	0.47
Agriculture	9.4%	9.4%	13.3%	13.3%
Developed	2.1%	2.1%	1.9%	1.9%
Natural	84%	84%	73%	73%
Wetland	4.5%	4.5%	11.8%	11.8%
Impervious	1.2%	1.2%	1.4%	1.4%

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Billings Brook (MA32-69) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Billings Brook (MA32-69) is assessed as Fully Supporting based on the lack of aesthetically objectionable conditions during summer 2012. MassDEP staff recorded aesthetics observations at one station at the upstream end of this Billings Brook AU in summer of 2012 (n=6), ~1600 ft downstream of the Plainfield Rd/North St crossing Hawley/Grant St, Plainfield (W2243). There were generally no noted objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2243	MassDEP	Water Quality	Billings Brook	[approximately 1600 feet downstream of Plainfield Road, Hawley/Grant Street, Plainfield]	42.541412	-72.884200

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
W2243	2012	6	Aesthetic observations were made by MassDEP field sampling crews at Station W2243 on Billings Brook (MA32-69) 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
W2243	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
W2243	Billings Brook	2012	Aquatic Plant Density, Overall	None	6	6
W2243	Billings Brook	2012	Color	None	6	6
W2243	Billings Brook	2012	Objectionable Deposits	No	6	6

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2243	Billings Brook	2012	Odor	None	6	6
W2243	Billings Brook	2012	Periphyton Density, Filamentous	None	6	6
W2243	Billings Brook	2012	Periphyton Density, Film	None	6	6
W2243	Billings Brook	2012	Scum	No	6	6
W2243	Billings 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 Billings Brook (MA32-69) continues to be assessed as Fully Supporting. MassDEP staff collected <i>E. coli</i> bacteria samples in Billings Brook (MA32-69) at W2243 [~1600 ft downstream of Plainfield Rd, Hawley/Grant St, Plainfield] from May-Sep 2012 (n=6). <i>E. coli</i> data from W2243 meet 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2243	MassDEP	Water Quality	Billings Brook	[approximately 1600 feet downstream of Plainfield Road, Hawley/Grant Street, Plainfield]	42.541412	-72.884200

Bacteria Data

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

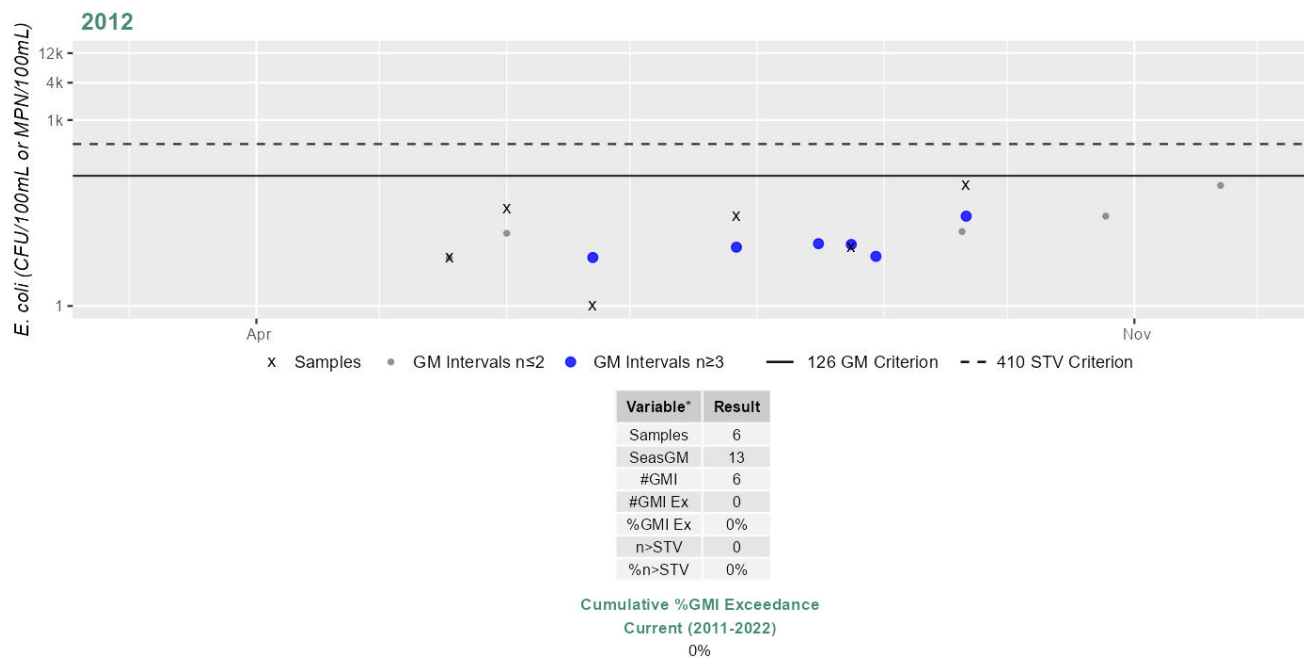
(MassDEP Undated 6) (MassDEP Undated 4)

[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
W2243	MassDEP	E. coli	05/17/12	09/20/12	6	1	88	13

Station MASSDEP_W2243 - *Escherichia coli*

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



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

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Billings Brook (MA32-69) continues to be assessed as Fully Supporting. MassDEP staff collected <i>E. coli</i> bacteria samples in Billings Brook (MA32-69) at W2243 [~1600 ft downstream of Plainfield Rd, Hawley/Grant St, Plainfield] from May-Sep 2012 (n=6). <i>E. coli</i> data from W2243 meet 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2243	MassDEP	Water Quality	Billings Brook	[approximately 1600 feet downstream of Plainfield Road, Hawley/Grant Street, Plainfield]	42.541412	-72.884200

Bacteria Data

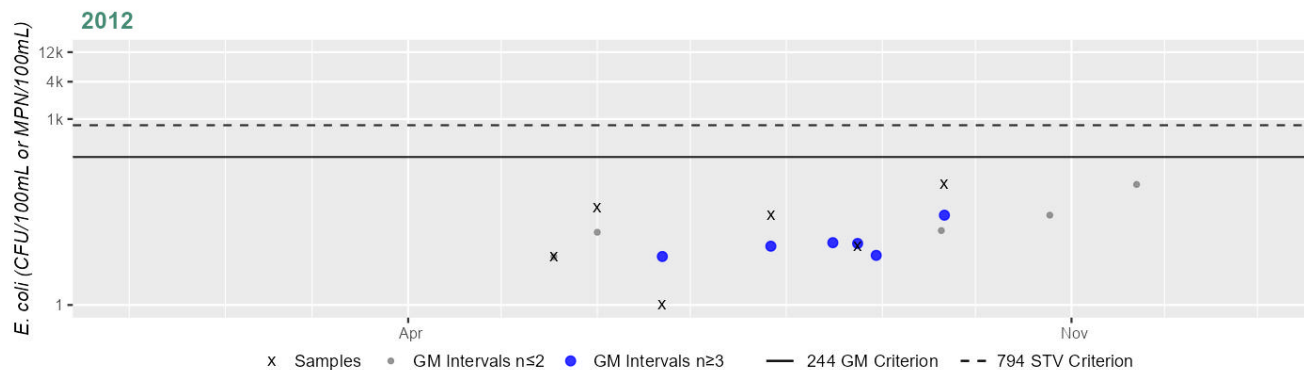
Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W2243	MassDEP	E. coli	05/17/12	09/20/12	6	1	88	13

Station MASSDEP_W2243 - Escherichia coli

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



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

Cumulative %GMI Exceedance

Current (2011-2022)

0%

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

Blair Brook (MA32-71)

Location:	Headwaters, outlet Round Hill Pond, west of Round Hill Road, Chester in the Chester State Wildlife Management Area, to mouth at confluence with West Branch Westfield River, Chester.
AU Type:	RIVER
AU Size:	1.5 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Blair Brook (MA32-71) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Blair Pond (MA32009)

Location:	Blandford.
AU Type:	FRESHWATER LAKE
AU Size:	69 ACRES
Classification/Qualifier:	A: PWS, ORW (Tributary)

No usable data were available for Blair Pond (MA32009) 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	(Fanwort*)	--	Unchanged

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

Borden Brook Reservoir (MA32011)

Location:	Granville/Blandford.
AU Type:	FRESHWATER LAKE
AU Size:	211 ACRES
Classification/Qualifier:	A: PWS, ORW (Tributary)

No usable data were available for Borden Brook Reservoir (MA32011) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

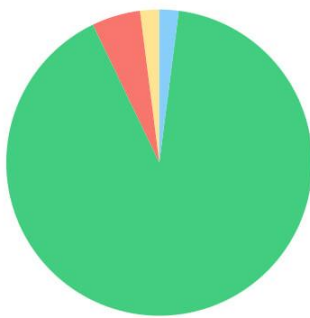
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Bradley Brook (MA32-21)

Location:	Headwaters, confluence Black and Stage brooks, Russell to mouth at confluence with Westfield River, Russell.
AU Type:	RIVER
AU Size:	0.7 MILES
Classification/Qualifier:	B

Bradley Brook (MA32-21)

Watershed Area: 10.97 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	10.97	7.02	4.00	2.57
Agriculture	2%	1.3%	0.6%	0.6%
Developed	5.1%	4.4%	4.3%	5%
Natural	90.8%	92.3%	90.7%	89.7%
Wetland	2%	2.1%	4.4%	4.7%
Impervious	2%	1.9%	2%	2.5%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	3	None	--	Unchanged

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Bradley Brook (MA32-21) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
There are no data available to assess the status of the Aesthetics Use for this Bradley Brook AU (MA32-21), 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 Bradley Brook (MA32-21) 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 Bradley Brook (MA32-21) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in Bradley Brook (MA32-21) at W1453 [Old Westfield Rd bridge, Russell] from May-Oct 2006 (n=5). Historic <i>E. coli</i> data from W1453 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1453	MassDEP	Water Quality	Bradley Brook	[Old Westfield Road bridge, Russell]	42.189154	-72.856148

Bacteria Data

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

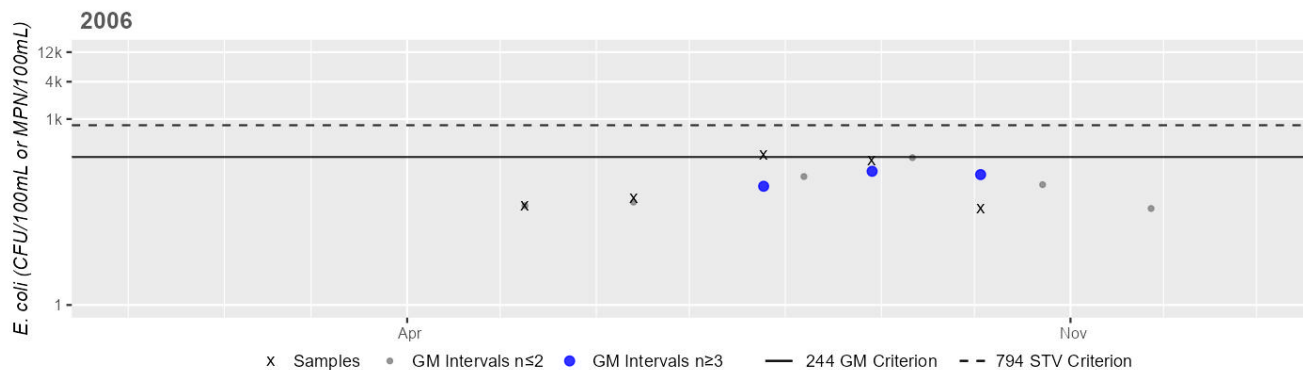
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1453	MassDEP	E. coli	05/09/06	10/03/06	5	36	268	84

Station MASSDEP_W1453 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	84
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Historic (1997-2010)

0%

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

Bronson Brook (MA32-45)

Location:	Headwaters, north of Trouble Road, Cummington to mouth at confluence with West Falls Branch, Worthington. (formerly identified by the Massachusetts Stream Classification Program as West Branch).
AU Type:	RIVER
AU Size:	4.2 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Bronson Brook (MA32-45) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Buck Pond (MA32012)

Location:	Westfield.
AU Type:	FRESHWATER LAKE
AU Size:	23 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Non-Native Aquatic Plants*)	--	Unchanged
5	5	Chlorophyll-a	--	Unchanged
5	5	Dissolved Oxygen	--	Unchanged
5	5	PFAS in Fish Tissue	--	Added

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Non-Native Aquatic Plants*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
Chlorophyll-a	Source Unknown (N)	X	--	--	--	--
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 Buck Pond (MA32012) is assessed as Not Supporting with a new impairment being added for PFAS in Fish Tissue. Fish toxics sampling was conducted in Buck Pond (MA32012) at station F0161 (PFAS Study ID 7) on 11/07/2022 as part of a MassDEP-funded project evaluating 40 PFAS analytes in selected fresh waters. MDPH issued a site-specific advisory for PFAS in Buck Pond in their May 2024 Freshwater Fish Consumption Advisory List and retained it in the 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
F0161	MassDEP	Fish Toxics	Buck Pond	[Westfield]	42.171253	-72.702581

Fish Tissue Data

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

Summary
Fish toxics sampling was conducted in Buck Pond (MA32012) at station F0161 (PFAS Study ID 7) on 11/07/2022 as part of a MassDEP-funded project evaluating 40 PFAS analytes in selected fresh waters. Because of elevated PFAS measured in fish filets, MDPH issued site-specific fish consumption advisories for Buck Pond in their May 2024 Freshwater Fish Consumption Advisory List and retained them in the 2025 list. The site-specific DPH advisories are indicative of a Fish Consumption Use impairment for PFAS in Fish Tissue for Buck Pond (MA32012).

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

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

[Species List: B = bluegill, LMB = largemouth bass, 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
F0161	7	11/07/2022	B	ND	ND	ND	2.30	PFOS
F0161	7	11/07/2022	LMB	ND	ND	ND	6.10	PFOS
F0161	7	11/07/2022	YP	ND	ND	ND	0.61	PFOS

Aesthetic

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

There are no data available to assess the status of the Aesthetics Use for this Buck Pond AU (MA32012), so it is Not Assessed. Since the Chlorophyll-a Alert was redundantly duplicated across multiple uses for this waterbody, the Chlorophyll-a Alert is being removed from the Aesthetics Use but is currently maintained as an impairment under the Aquatic Life Use.

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 Buck Pond (MA32012) and available other indicators for this waterbody did not result in any impairment, so it is assessed as having Insufficient Information. Since the prior Chlorophyll-a Alert is being removed from Aesthetics it is also being removed from the Primary Contact Recreation Use. The Chlorophyll-a Alert will be maintained under the Aquatic Life Use. Surface water sampling was conducted in Buck Pond (MA32012) at station W3266 (PFAS Study ID 7) on 11/07/2022 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
W3266	MassDEP	Water Quality	Buck Pond	[the default location representing co-located water/fish PFAS sampling, Westfield]	42.171253	-72.702581

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 Buck Pond (MA32012) at station W3266 (PFAS Study ID 7) on 11/07/2022 as part of a 2022 MassDEP funded project with ERG evaluating 40 PFAS analytes in selected fresh waters. The concentrations of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS, HFPO-DA/GenX) were all less than the 90 ng/L (ppt) recreational screening value.

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

[HFPO-DA is also known as GenX; the Σ PFAS6 equals the sum of PFOA, PFOS, PFNA, PFHxS, PFDA, PFHpA (not all shown individually here); * indicates the Σ PFAS6 concentration was qualified since data for one or more individual PFAS6 analytes were

qualified; b = blank contamination qualifier, d = qualifier indicating precision of field duplicates did not meet project data quality objectives; j = 'estimated' value qualifier; ## = censored data.]

Station Code	PFAS Study ID	Sample Date	PFOA ng/L	PFOS ng/L	PFNA ng/L	PFHxS ng/L	PFBA ng/L	PFBS ng/L	HFPO-DA ng/L	ΣPFAS6 ng/L
W3266	7	11/07/2022	3.7b	2	<0.49	2.8	2.4j	1.3j	<1.9	10.6*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Buck Pond (MA32012) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. Since the prior Chlorophyll-a Alert is being removed from Aesthetics it is also being removed from the Secondary Contact Recreation Use. The Chlorophyll-a Alert will be maintained under the Aquatic Life Use.

Buckley-Dunton Lake (MA32013)

Location:	Becket.
AU Type:	FRESHWATER LAKE
AU Size:	154 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Mercury in Fish Tissue	42411	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	--	--	--

Recommendations

2024/26 Recommendations
2024/2026 IR [Harmful Algal Blooms, Medium] Follow-up monitoring should be conducted in Buckley-Dunton Lake (MA32013) to determine if Harmful Algal Blooms may be impairing the Recreational and Aesthetic uses. Monitoring should include observational data and collection of cyanobacteria cell count data, as well as continued reporting of algal blooms to MDPH.

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	No

2024/26 Use Attainment Summary

The Fish Consumption Use for Buckley-Dunton Lake (MA32013) continues to be assessed as Not Supporting and the prior Mercury in Fish Tissue impairment is being carried forward. Fish toxics sampling was conducted in Buckley-Dunton Lake (MA32013) at station F0248 in 2019 and 2023 as part of the MassDEP Office of Research and Standards Mercury Initiative. MDPH included a site-specific advisory for Buckley-Dunton Lake in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent DPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations.

Fish Consumption Advisories

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

Summary Statement
Fish toxics sampling was conducted in Buckley-Dunton Lake (MA32013) at station F0248 in 2019 and 2023 as part of the MassDEP Office of Research and Standards Mercury Initiative. MDPH retained the existing site-specific fish consumption advisories for Mercury associated with Buckley-Dunton Lake in their 2025 Freshwater Fish Consumption Advisory List. The site-specific DPH advisories are indicative of a Fish Consumption Use impairment for Mercury in Fish Tissue for Buckley-Dunton Lake (MA32013).

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	YES

2024/26 Use Attainment Summary
The Aesthetics Use for Buckley-Dunton Lake (MA32013) is assessed as Fully Supporting based on the observations from the 2016 MAP2 macrophyte mapping survey. The Alert previously identified for Harmful Algal Blooms (due to a bloom of >15 days duration reported to MDPH in 2016) will be carried forward. MassDEP staff recorded aesthetics observations as part of the MAP2 lake monitoring project in summer 2016 at two sites for this Buckley-Dunton Lake AU; on the eastern side of lake, at southern end of Buckley-Dunton Lake Dam (NAT ID: MA00202), west of Buckley Dam Road, Becket (W2615/MAP2L-006S, n=5) and at the deep hole index site, south eastern quadrant, Becket (W2622/MAP2L-006, 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). During the MAP2 macrophyte mapping survey in Aug 2016 (n=1), less than 25% (16.3%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%. During the period 2015 through 2022, C-HAB postings for Buckley-Dunton Lake were reported to MDPH based on visual observations for 26 days in 2016, but no blooms were reported in other years. Since no extended blooms (>20 days in duration) based on cell count data were reported in recent years, an impairment decision will not be made at this time based on C-HAB postings. However, an Alert is being identified for Harmful Algal Blooms and a recommendation for follow-up sampling will be made.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2615	MassDEP	Water Quality	Buckley-Dunton Lake	[eastern side of lake, at southern end of Buckley-Dunton Lake Dam (NAT ID: MA00202), west of Buckley Dam Road, Becket]	42.312243	-73.132109
W2622	MassDEP	Water Quality	Buckley-Dunton Lake	[index site, south eastern quadrant, Becket]	42.312381	-73.133345

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
W2615	2016	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2615 (MAP2L-006S) on Buckley-Dunton Lake (MA32013) 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.
W2622	2016	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2622 (MAP2L-006) on Buckley-Dunton Lake (MA32013) 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% (16.3%) 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
W2615	Buckley-Dunton Lake	2016	Aesthetics Impaired?	No	5	5
W2615	Buckley-Dunton Lake	2016	Color	Dark Tan	1	5
W2615	Buckley-Dunton Lake	2016	Color	Light Yellow/Tan	2	5
W2615	Buckley-Dunton Lake	2016	Color	None	2	5
W2615	Buckley-Dunton Lake	2016	Objectionable Deposits	No	5	5
W2615	Buckley-Dunton Lake	2016	Odor	None	5	5
W2615	Buckley-Dunton Lake	2016	Scum	No	5	5

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2615	Buckley-Dunton Lake	2016	Turbidity	None	5	5
W2622	Buckley-Dunton Lake	2016	Aesthetics Impaired?	No	3	3
W2622	Buckley-Dunton Lake	2016	Aquatic Plant Density, Overall	None	3	3
W2622	Buckley-Dunton Lake	2016	Color	Light Yellow/Tan	3	3
W2622	Buckley-Dunton Lake	2016	Objectionable Deposits	No	3	3
W2622	Buckley-Dunton Lake	2016	Odor	None	3	3
W2622	Buckley-Dunton Lake	2016	Scum	No	3	3
W2622	Buckley-Dunton Lake	2016	Turbidity	None	2	3
W2622	Buckley-Dunton Lake	2016	Turbidity	Slightly Turbid	1	3

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 1)

C-HAB Summary Statement
During the period 2015 through 2022, C-HAB postings for Buckley-Dunton Lake (MA32013) were reported to MDPH based on visual observations for 26 days in 2016. No blooms were reported in other years. Since no extended blooms (>20 days in duration) based on cell count data were reported in recent years, an impairment decision will not be made at this time based on C-HAB postings. However, an Alert is being identified for C-HABs in this waterbody and a recommendation for follow-up sampling will be made.

Cyanobacteria Harmful Algal Bloom (C-HAB) Data (2015-2022) Provided by MDPH (Bailey, Logan April 26, 2023) (MassDEP Undated 1)

DEP Waterbody (DPH Waterbody)	DPH Town	Posting Days 2015	Posting Days 2016	Posting Days 2017	Posting Days 2018	Posting Days 2019	Posting Days 2020	Posting Days 2021	Posting Days 2022
Buckley Dunton Lake	Becket		26						

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	YES

2024/26 Use Attainment Summary
<p>The Primary Contact Recreation Use for Buckley-Dunton Lake (MA32013) is assessed as Fully Supporting. An Alert is being identified for Harmful Algal Bloom and additional sampling is recommended for this AU.</p> <p>During the period 2015 through 2022, C-HAB postings for Buckley-Dunton Lake (MA32013) were reported to MDPH based on visual observations for 26 days in 2016. No blooms were reported in other years. Since no extended blooms (>20 days in duration) based on cell count data were reported in recent years, an impairment decision will not be made at this time based on C-HAB postings. However, a Harmful Algal Bloom Alert is being identified for this waterbody and a recommendation for follow-up sampling will be made.</p> <p>In Buckley-Dunton Lake (MA32013), EPA (NARS_WQX) collected Secchi and cyanotoxin data at NARS_WQX-NLA_MA-10006 (2017) and Secchi, cyanobacteria cell count, and cyanotoxin data at NARS_WQX-NLA12_MA-103 [42.313021, -73.137139, NLA12_MA-103] (2012) and MassDEP collected Secchi and cyanobacteria cell count data at W2622 [MAP2L-006, Index-deep hole] (2016) and cyanobacteria cell count and cyanotoxin data at W2615 [MAP2L-006S, Shoreline] (2016). In 2012 at station NARS_WQX-NLA12_MA-103 (station depth=not recorded) the Secchi depth (n=1) was measured to be 1.85 m on Sep 17, 2012 indicating water clarity meeting the 1.2 m (4 ft) threshold. In 2017 at station NARS_WQX-NLA_MA-10006 (station depth=2.7 m) the Secchi depth (n=1) was measured to be 1.55 m on Aug 02, 2017 indicating water clarity meeting the 1.2 m (4 ft) threshold. In 2016 at station W2622 (station depth=3.2 m) the Secchi depth measurements ranged from 2.37-2.9 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 in 2012 (n=1) or 2016 (n=6). Analysis of microcystins and cylindrospermopsin samples from W2615 in 2016 (n=5), NARS_WQX-NLA12_MA-103 in 2012 (n=1), and NARS_WQX-NLA_MA-10006 in 2017 (n=2) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L.</p> <p>MassDEP and EPA (NARS_WQX) staff collected <i>E. coli</i> bacteria samples in Buckley-Dunton Lake (MA32013) from 2016-2017 at 2 stations. Samples were collected from the following stations/sample years: W2615 [eastern side of lake, at southern end of Buckley-Dunton Lake Dam (T ID: MA00202), West of Buckley Dam Rd, Becket] from May-Sep 2016 (n=5), NARS_WQX-NLA_MA-10006 [Buckley Dunton Lake] from Aug 2017 (n=1). <i>E. coli</i> data from NARS_WQX-NLA_MA-10006 are too limited according to the 2024 CALM to assess the Primary Contact Recreation Use. <i>E. coli</i> data from W2615 meet 2024 CALM guidance.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
NARS_WQX-NLA_MA-10006	EPA National Aquatic Resources Survey (NARS)	Water Quality	Buckley-Dunton Lake	Buckley Dunton Lake	42.312890	-73.137140

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2615	MassDEP	Water Quality	Buckley-Dunton Lake	[eastern side of lake, at southern end of Buckley-Dunton Lake Dam (NAT ID: MA00202), west of Buckley Dam Road, Becket]	42.312243	-73.132109
W2622	MassDEP	Water Quality	Buckley-Dunton Lake	[index site, south eastern quadrant, Becket]	42.312381	-73.133345

Bacteria Data

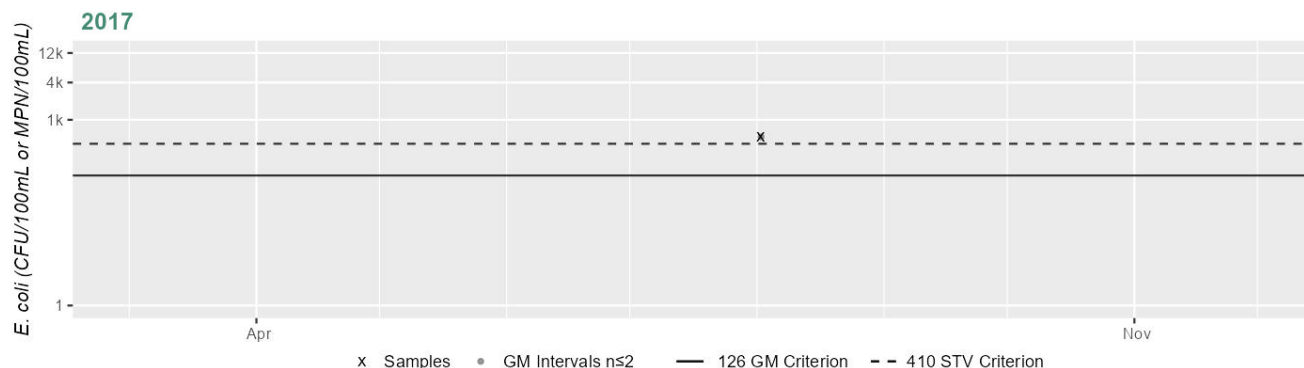
Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (EPA 2024) (MassDEP Undated 2) (MassDEP Undated 6) (MassDEP Undated 4)

[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-10006	EPA National Aquatic Resources Survey (NARS)	E. coli	08/02/17	08/02/17	1	529	529	529
W2615	MassDEP	E. coli	05/23/16	09/26/16	5	1	56	3

Station NARS_WQX-NLA_MA-10006 - *Escherichia coli*

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



Variable*	Result
Samples	1
SeasGM	529
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	100%

Cumulative %GMI Exceedance

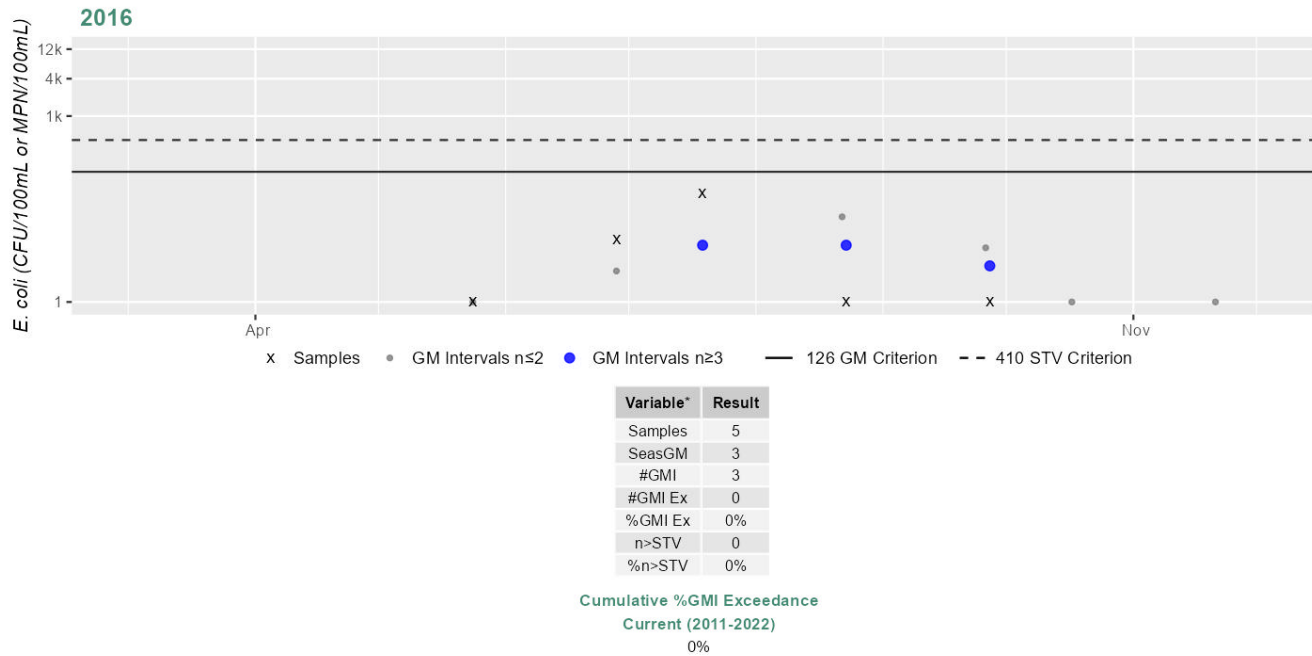
Current (2011-2022)

0%

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

Station MASSDEP_W2615 - *Escherichia coli*

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



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

Other Indicators

Summary Statement 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(s)	Summary
2012, 2016-2017	<p>In Buckley-Dunton Lake (MA32013), EPA (NARS_WQX) collected Secchi and cyanotoxin data at NARS_WQX-NLA_MA-10006 (2017) and Secchi, cyanobacteria cell count, and cyanotoxin data at NARS_WQX-NLA12_MA-103 [42.313021, -73.137139, NLA12_MA-103] (2012) and MassDEP collected Secchi and cyanobacteria cell count data at W2622 [MAP2L-006, Index-deep hole] (2016) and cyanobacteria cell count and cyanotoxin data at W2615 [MAP2L-006S, Shoreline] (2016). In 2012 at station NARS_WQX-NLA12_MA-103 (station depth=not recorded) the Secchi depth (n=1) was measured to be 1.85 m on Sep 17, 2012 indicating water clarity meeting the 1.2 m (4 ft) threshold. In 2017 at station NARS_WQX-NLA_MA-10006 (station depth=2.7 m) the Secchi depth (n=1) was measured to be 1.55 m on Aug 02, 2017 indicating water clarity meeting the 1.2 m (4 ft) threshold. In 2016 at station W2622 (station depth=3.2 m) the Secchi depth measurements ranged from 2.37-2.9 m (n=3) indicating water clarity meeting the 1.2 m (4 ft) threshold.</p> <p>The cyanobacteria cell count did not exceed 70,000 cells/ml in any of the water samples in 2012 (n=1) or 2016 (n=6). Analysis of microcystins and cylindrospermopsin samples from W2615 in 2016 (n=5), NARS_WQX-NLA12_MA-103 in 2012 (n=1), and NARS_WQX-NLA_MA-10006 in 2017 (n=2) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L.</p>

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)
W2615	Buckley-Dunton Lake	Shoreline	2016	3	0	NA
W2622	Buckley-Dunton Lake	Index	2016	3	0	NA

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	YES

2024/26 Use Attainment Summary
<p>The Secondary Contact Recreation Use for Buckley-Dunton Lake (MA32013) is assessed as Fully Supporting. An Alert is being identified for Harmful Algal Bloom and additional sampling is recommended for this AU. During the period 2015 through 2022, C-HAB postings for Buckley-Dunton Lake (MA32013) were reported to MDPH based on visual observations for 26 days in 2016. No blooms were reported in other years. Since no extended blooms (>20 days in duration) based on cell count data were reported in recent years, an impairment decision will not be made at this time based on C-HAB postings. However, a Harmful Algal Bloom Alert is being identified for this waterbody and a recommendation for follow-up sampling will be made.</p> <p>In Buckley-Dunton Lake (MA32013), EPA (NARS_WQX) collected cyanobacteria cell count and cyanotoxins data at NARS_WQX-NLA12_MA-103 (2012) and cyanotoxins data at NARS_WQX-NLA_MA-10006 (2017) and MassDEP collected cyanobacteria cell count data at W2622 [MAP2L-006, Index-deep hole] (2016) and cyanobacteria cell count and cyanotoxins data at W2615 [MAP2L-006S, Shoreline] (2016). The cyanobacteria cell count did not exceed 70,000 cells/ml in any of the water samples in 2012 (n=1) or 2016 (n=6). Analysis of microcystins and cylindrospermopsin samples from W2615 in 2016 (n=5), NARS_WQX-NLA12_MA-103 in 2012 (n=1), and NARS_WQX-NLA_MA-10006 in 2017 (n=2) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L.</p> <p>MassDEP and EPA (NARS_WQX) staff collected <i>E. coli</i> bacteria samples in Buckley-Dunton Lake (MA32013) from 2016-2017 at 2 stations. Samples were collected from the following stations/sample years: W2615 [eastern side of lake, at southern end of Buckley-Dunton Lake Dam (T ID: MA00202), W of Buckley Dam Rd, Becket] from May-Sep 2016 (n=5), NARS_WQX-NLA_MA-10006 [Buckley Dunton Lake] from Aug 2017 (n=1). <i>E. coli</i> data from NARS_WQX-NLA_MA-10006 are too limited according to the 2024 CALM to assess the Secondary Contact Recreation Use. <i>E. coli</i> data from W2615 meet 2024 CALM guidance.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
NARS_WQX-NLA_MA-10006	EPA National Aquatic Resources Survey (NARS)	Water Quality	Buckley-Dunton Lake	Buckley Dunton Lake	42.312890	-73.137140
W2615	MassDEP	Water Quality	Buckley-Dunton Lake	[eastern side of lake, at southern end of Buckley-Dunton Lake Dam (NAT ID: MA00202), west of Buckley Dam Road, Becket]	42.312243	-73.132109

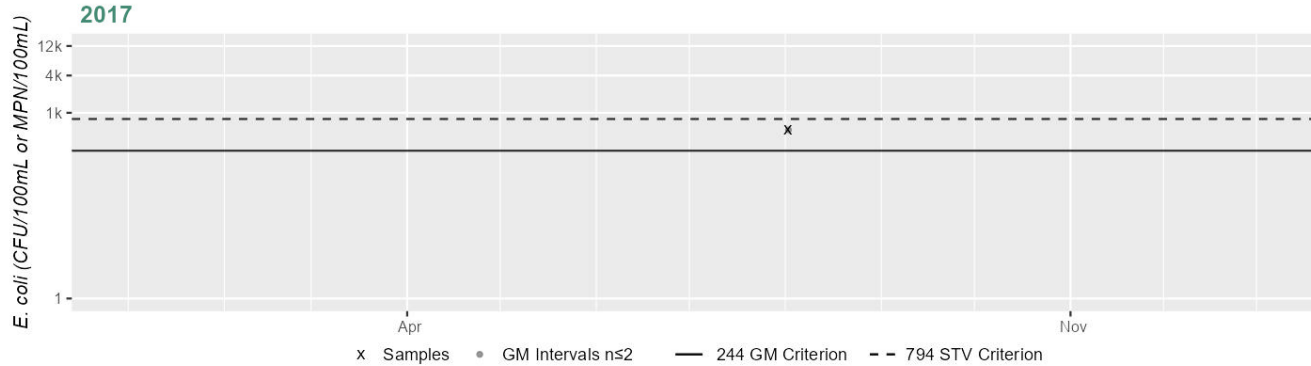
Bacteria Data

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-10006	EPA National Aquatic Resources Survey (NARS)	E. coli	08/02/17	08/02/17	1	529	529	529
W2615	MassDEP	E. coli	05/23/16	09/26/16	5	1	56	3

Station NARS_WQX-NLA_MA-10006 - Escherichia coli

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



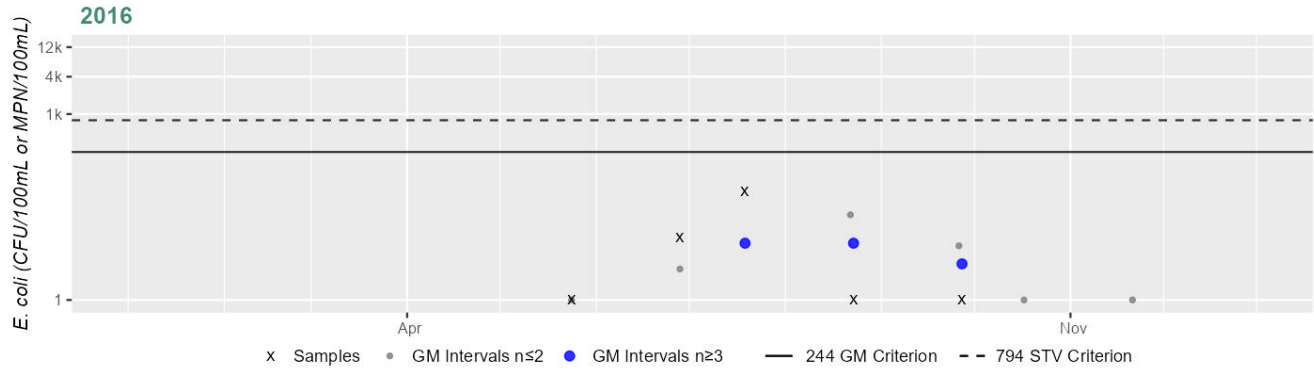
Variable*	Result
Samples	1
SeasGM	529
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Station MASSDEP_W2615 - Escherichia coli

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



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

Cumulative %GMI Exceedance

Current (2011-2022)

0%

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

Bush Brook (MA32-56)

Location:	Headwaters, confluence of Barry and Trask brooks, east of Sherwood Avenue, Westfield to mouth at confluence with Pond Brook, Westfield.
AU Type:	RIVER
AU Size:	0.7 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Bush Brook (MA32-56) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Center Pond (MA32015)

Location:	Becket.
AU Type:	FRESHWATER LAKE
AU Size:	114 ACRES
Classification/Qualifier:	B

No usable data were available for Center Pond (MA32015) 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	(Curly-leaf Pondweed*)	--	Unchanged
4c	4c	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged

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

Clear Pond (MA32077)

Location:	Holyoke.
AU Type:	FRESHWATER LAKE
AU Size:	10 ACRES
Classification/Qualifier:	A: PWS, ORW (Tributary)

No usable data were available for Clear Pond (MA32077) 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

Cobble Mountain Reservoir (MA32018)

Location:	Blandford/Granville/Russell.
AU Type:	FRESHWATER LAKE
AU Size:	1034 ACRES
Classification/Qualifier:	A: PWS, ORW

No usable data were available for Cobble Mountain Reservoir (MA32018) 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

Cone Brook (MA32-72)

Location:	Headwaters, perennial portion, west of Curtin Road, Peru to mouth at confluence with Tuttle Brook, Peru.
AU Type:	RIVER
AU Size:	1 MILES
Classification/Qualifier:	A: PWS, ORW, CWF (Tributary)

No usable data were available for Cone Brook (MA32-72) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Congamond Lakes (MA32021)

Location:	[Middle Basin] Southwick.
AU Type:	FRESHWATER LAKE
AU Size:	279 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
5	5	(Non-Native Fish/Shellfish/Zooplankton*)	--	Unchanged
5	5	Dissolved Oxygen	--	Unchanged
5	5	Harmful Algal Blooms	--	Unchanged
5	5	PFAS in Fish Tissue	--	Added

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	--	--	--	--
(Non-Native Fish/Shellfish/Zooplankton*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
Dissolved Oxygen	Source Unknown (N)	X	--	--	--	--
Harmful Algal Blooms	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	--	--	X	X	X
Harmful Algal Blooms	Source Unknown (N)	--	--	X	X	X
PFAS in Fish Tissue	Source Unknown (N)	--	X	--	--	--

Recommendations

2024/26 Recommendations
2024/2026 IR [Harmful Algal Blooms, Medium] Follow-up monitoring should be conducted in Congamond Lakes [Middle Basin] (MA32021) to determine if Harmful Algal Blooms continue to impair the Recreational and Aesthetic uses. Monitoring should include observational data and collection of cyanobacteria cell count data, as well as continued reporting of algal blooms to MDPH.

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	No

2024/26 Use Attainment Summary
The Fish Consumption Use for this Congamond Lakes [Middle Basin] AU (MA32021) is assessed as Not Supporting with a new impairment being added for PFAS in Fish Tissue. Fish toxics sampling was conducted in this Congamond Lakes AU (MA32021) at station F0116 (PFAS Study ID 8) on 08/17/2022 as part of a MassDEP-funded project evaluating 40 PFAS analytes in selected fresh waters. MDPH issued a site-specific advisory for PFAS in the Congamond Lakes (referred to by MDPH as "Congomond Lake") in their May 2024 Freshwater Fish Consumption Advisory List and retained it in the 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
F0116	MassDEP	Fish Toxics	Congamond Lakes	[(Middle Basin) Southwick (impounded by Congamond Lake Outlet - Middle Pond, NAT ID: MA00071)]	42.027766	-72.756914

Fish Tissue Data

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

Summary
Fish toxics sampling was conducted in this Congamond Lakes [Middle Basin] AU (MA32021) at station F0116 (PFAS Study ID 8) on 08/17/2022 as part of a MassDEP-funded project evaluating 40 PFAS analytes in selected fresh waters. Because of elevated PFAS measured in fish filets, MDPH issued site-specific fish consumption advisories for the Congamond Lakes (referred to by MDPH as Congomond Lake) in their May 2024 Freshwater Fish Consumption Advisory List and retained them in the 2025 list. The site-specific DPH advisories are indicative of a Fish Consumption Use impairment for PFAS in Fish Tissue for this Congamond Lakes [Middle Basin] AU (MA32021).

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

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

[Species List: B = bluegill, BB = brown bullhead, 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
F0116	8	08/17/2022	B	ND	ND	ND	2.95	
F0116	8	08/17/2022	BB	ND	ND	ND	0.59	
F0116	8	08/17/2022	P	ND	ND	ND	3.00	

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Congamond Lakes [Middle Basin] (MA32021) continues to be assessed as Not Supporting, with the prior Harmful Algal Blooms impairment being carried forward, since C-HAB postings (>20 days in duration) were reported to MDPH in 2011 & 2014 MassDEP staff recorded aesthetics observations at one station on this Congamond Lakes [Middle Basin] AU at the deep hole, center of Middle Basin, Southwick (W0923) in summer 2016 (n=3). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted green water color (n=1). During the period 2009 through 2014, C-HAB postings for Congamond Lakes were reported to MDPH based on visual observations for 49 days in 2011 and 36 days in 2014 and no blooms were reported in other years. Since the existing Harmful Algal Blooms impairment was based on visual observations a recommendation is being made to confirm the impairment with cyanobacteria cell count data.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0923	MassDEP	Water Quality	Congamond Lakes	[deep hole, center of Middle Basin, Southwick]	42.027154	-72.757173

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
W0923	2016	3	Aesthetic observations were made by MassDEP field sampling crews at Station W0923 on Congamond Lakes (MA32021) during 3 site visits between Jun 2016 and Sep 2016. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted green water color (n=1).

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

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W0923	Congamond Lakes	2016	Aesthetics Impaired?	No	3	3
W0923	Congamond Lakes	2016	Aquatic Plant Density, Overall	NR	2	3
W0923	Congamond Lakes	2016	Aquatic Plant Density, Overall	Unobservable	1	3
W0923	Congamond Lakes	2016	Color	Greenish	1	3
W0923	Congamond Lakes	2016	Color	Light Yellow/Tan	1	3
W0923	Congamond Lakes	2016	Color	None	1	3
W0923	Congamond Lakes	2016	Objectionable Deposits	No	3	3
W0923	Congamond Lakes	2016	Odor	None	3	3
W0923	Congamond Lakes	2016	Scum	No	3	3
W0923	Congamond Lakes	2016	Turbidity	Moderately Turbid	1	3
W0923	Congamond Lakes	2016	Turbidity	Slightly Turbid	2	3

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 1)

C-HAB Summary Statement
During the period 2009 through 2014, C-HAB postings for Congamond Lakes [Middle Basin] (MA32021) were reported to MDPH based on visual observations for 49 days in 2011 and 36 days in 2014. No blooms were reported in other years. The prior Harmful Algal Bloom impairment is being carried forward and the Aesthetics Use and Primary/Secondary Contact Recreational Uses continue to be assessed as Not Supporting. Since the existing Harmful Algal Blooms impairment was based on visual observations, a recommendation is being made to confirm the impairment with cyanobacteria cell count data.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
<p>The Primary Contact Recreation Use for Congamond Lakes (MA32021) continues to be assessed as Not Supporting.</p> <p>The prior Harmful Algal Blooms impairment is being carried forward based on the occurrence of C-HAB postings extending >20 days in 2 yrs. During the period 2009 through 2014, C-HAB postings for Congamond Lakes [Middle Basin] (MA32021) were reported to MDPH based on visual observations for 49 days in 2011 and 36 days in 2014. No blooms were reported in other years. The prior Harmful Algal Bloom impairment is being carried forward and the C-HAB data continues to be indicative of a Harmful Algal Bloom impairment. Since the existing Harmful Algal Blooms impairment was based on visual observations, a recommendation is being made to confirm the impairment with cyanobacteria cell count data. In Congamond Lakes (MA32021), MassDEP collected Secchi data at W0923 [42.027154, -72.757173, deep hole, center of Middle Basin, Southwick] (2016). Secchi depth data indicated water clarity meeting the 1.2m (4ft) threshold at W0923 in 2016 (n=3, 2-3.2m). Surface water sampling was conducted in this Congamond Lakes [Middle Basin] AU (MA32021) at station W3267 (PFAS Study ID 8) on 08/17/2022. 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.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W3267	MassDEP	Water Quality	Congamond Lakes	[the default location representing co-located water/fish PFAS sampling, (Middle Basin) Southwick]	42.027766	-72.756914

Other Indicators

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

Summary
Surface water sampling was conducted in this Congamond Lakes [Middle Basin] AU (MA32021) at station W3267 (PFAS Study ID 8) on 08/17/2022 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 ΣPFAS6 equals the sum of PFOA, PFOS, PFNA, PFHxS, PFDA, PFHpA (not all shown individually here); * indicates the ΣPFAS6 concentration was qualified since data for one or more individual PFAS6 analytes were qualified; b = blank contamination qualifier, d = qualifier indicating precision of field duplicates did not meet project data quality objectives; j = 'estimated' value qualifier; ## = censored data.]

Station Code	PFAS Study ID	Sample Date	PFOA ng/L	PFOS ng/L	PFNA ng/L	PFHxS ng/L	PFBA ng/L	PFBS ng/L	HFPO-DA ng/L	ΣPFAS6 ng/L
W3267	8	08/17/2022	3.9	1.8j	0.65j	1.2j	2.6j	1.3dj	<2.1	9.7*

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

Data Year(s)	Summary
2016	In this Congamond Lakes [Middle Basin] AU (MA32021), MassDEP collected Secchi data at W0923 [42.027154, -72.757173, deep hole, center of Middle Basin, Southwick] in 2016. At station W0923 (station depth=11.8 m) the Secchi depth measurements ranged from 2-3.2 m (n=3) indicating water clarity meeting the 1.2 m (4 ft) threshold.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Congamond Lakes (MA32021) continues to be assessed as Not Supporting. The prior Harmful Algal Blooms impairment is being carried forward based on the occurrence of C-HAB postings extending >20 days in 2 yrs. During the period 2009 through 2014, C-HAB postings for Congamond Lakes [Middle Basin] (MA32021) were reported to MDPH based on visual observations for 49 days in 2011 and 36 days in 2014. No blooms were reported in other years. The prior Harmful Algal Bloom impairment is being carried forward and the C-HAB data continues to be indicative of a Harmful Algal Bloom impairment. Since the existing Harmful Algal Blooms impairment was based on visual observations, a recommendation is being made to confirm the impairment with cyanobacteria cell count data.

Congamond Lakes (MA32022)

Location:	[North Basin] Southwick.
AU Type:	FRESHWATER LAKE
AU Size:	46 ACRES
Classification/Qualifier:	B

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
5	5	PFAS in Fish Tissue	--	Added

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	--	--	--	--
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 this Congamond Lakes [North Basin] AU (MA32022) is assessed as Not Supporting with a new impairment being added for PFAS in Fish Tissue. Fish toxics sampling was conducted in the Congamond Lakes [Middle Basin] AU (MA32021) at station F0116 (PFAS Study ID 8) on 08/17/2022 as part of a MassDEP-funded project evaluating 40 PFAS analytes in selected fresh waters. MDPH issued a site-specific advisory for PFAS in the Congamond Lakes (referred to by MDPH as "Congomond Lake") in their May 2024 Freshwater Fish Consumption Advisory List and retained it in the 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.

Fish Tissue Data

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

Summary
Fish toxics sampling was conducted in the Congamond Lakes [Middle Basin] AU (MA32021) at station F0116 (PFAS Study ID 8) on 08/17/2022 as part of a MassDEP-funded project evaluating 40 PFAS analytes in selected fresh waters. Because of elevated PFAS measured in fish filets, MDPH issued site-specific fish consumption advisories for the Congamond Lakes (referred to by MDPH as Congomond Lake) in their May 2024 Freshwater Fish Consumption Advisory List and retained them in the 2025 list. The site-specific DPH advisories are indicative of a Fish Consumption Use impairment for PFAS in Fish Tissue for this Congamond Lakes [North Basin] AU (MA32022).

Aesthetic

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
Too limited data are available to evaluate the Aesthetics Use of Congamond Lakes [North Basin] (MA32022) so it is assessed as having Insufficient Information. During the period 2009 through 2014, C-HAB postings for this Congamond Lakes AU were reported to MDPH based on visual observations for 49 days in 2011 and 36 days in 2014. No blooms were reported from 2015 through 2022. Since no extended blooms (>20 days in duration) based on cell count data were reported in recent years, an impairment decision will not be made at this time based on C-HAB postings. There are no other data available to assess the status of the Aesthetics Use for Congamond Lakes [North Basin].

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 1)

C-HAB Summary Statement
During the period 2009 through 2014, C-HAB postings for Congamond Lakes [North Basin] (MA32022) were reported to MDPH based on visual observations for 49 days in 2011 and 36 days in 2014. No blooms were reported from 2015 through 2022. Since no extended blooms (>20 days in duration) based on cell count data were reported in recent years, an impairment decision will not be made at this time based on C-HAB postings.

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 Congamond Lakes (MA32022) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information. During the period 2009 through 2014, C-HAB postings for Congamond Lakes [North Basin] (MA32022) were reported to MDPH based on visual observations for 49 days in 2011 and 36 days in 2014. No blooms were reported from 2015 through 2022. Since no extended blooms (>20 days in duration) based on cell count data were reported in recent years, an impairment decision will not be made at this time based on C-HAB postings.

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 Congamond Lakes (MA32022) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information. During the period 2009 through 2014, C-HAB postings for Congamond Lakes [North Basin] (MA32022) were reported to MDPH based on visual observations for 49 days in 2011 and 36 days in 2014. No blooms were reported from 2015 through 2022. Since no extended blooms (>20 days in duration) based on cell count data were reported in recent years, an impairment decision will not be made at this time based on C-HAB postings.

Congamond Lakes (MA32023)

Location:	[South Basin] Southwick.
AU Type:	FRESHWATER LAKE
AU Size:	144 ACRES
Classification/Qualifier:	B

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
5	5	Nutrient/Eutrophication Biological Indicators	--	Unchanged
5	5	PFAS in Fish Tissue	--	Added

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	Internal Nutrient Recycling (N)	X	--	--	--	--
Dissolved Oxygen	Source Unknown (N)	X	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Internal Nutrient Recycling (N)	X	--	--	--	--
Nutrient/Eutrophication Biological Indicators	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 this Congamond Lakes [South Basin] AU (MA32023) is assessed as Not Supporting with a new impairment being added for PFAS in Fish Tissue. Fish toxics sampling was conducted in the Congamond Lakes [Middle Basin] AU (MA32021) at station F0116 (PFAS Study ID 8) on 08/17/2022 as part of a MassDEP-funded project evaluating 40 PFAS analytes in selected fresh waters. MDPH issued a site-specific advisory for PFAS in the Congamond Lakes (referred to by MDPH as "Congomond Lake") in their May 2024 Freshwater Fish Consumption Advisory List and retained it in the 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.

Fish Tissue Data

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

Summary
Fish toxics sampling was conducted in the Congamond Lakes [Middle Basin] AU (MA32021) at station F0116 (PFAS Study ID 8) on 08/17/2022 as part of a MassDEP-funded project evaluating 40 PFAS analytes in selected fresh waters. Because of elevated PFAS measured in fish filets, MDPH issued site-specific fish consumption advisories for the Congamond Lakes (referred to by MDPH as Congomond Lake) in their May 2024 Freshwater Fish Consumption Advisory List and retained them in the 2025 list. The site-specific DPH advisories are indicative of a Fish Consumption Use impairment for PFAS in Fish Tissue for this Congamond Lakes [South Basin] AU (MA32023).

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for Congamond Lakes [South Basin] (MA32023) is assessed as Fully Supporting based on the observations from the 2016 MAP2 macrophyte mapping survey. MassDEP staff recorded aesthetics observations as part of the MAP2 lake monitoring project in summer 2016 at two stations in Southwick for this Congamond Lakes AU; South Basin, beach east of Beach Road, south off Rt. 168 (Congamond Road) (W2608/MAP2L-037S) in summer 2016 (n=5) and at the deep hole index site, center of South Pond (W0925/MAP2L-037) in summer 2016 (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). During the MAP2 macrophyte mapping survey in Aug 2016 (n=1), less than 25% (0.7%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%, though field staff did consider the aesthetics to be affected by turbidity/green water color at that time. During the period 2009 through 2014, C-HAB postings for Congamond Lakes [South Basin] were reported to MDPH based on visual observations for 49 days in 2011, 14 days in 2012, and 36 days in 2014. No blooms were reported from 2015 through 2022. Since no extended blooms (>20 days in duration) based on cell count data were reported in recent years, an impairment decision will not be made at this time based on C-HAB postings.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0925	MassDEP	Water Quality	Congamond Lakes	[deep hole, center of South Pond, Southwick]	42.014718	-72.763617
W2608	MassDEP	Water Quality	Congamond Lakes	[South Basin, beach east of Beach Road, south off Route 168 (Congamond Road), Southwick]	42.017768	-72.766725

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
W0925	2016	3	Aesthetic observations were made by MassDEP field sampling crews at Station W0925 (MAP2L-037) on Congamond Lakes (MA32023) during 3 site visits between Jun 2016 and Sep 2016. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted green water color (n=1). During the MAP2 macrophyte mapping survey (n=1) in Aug 2016, less than 25% (0.7%) of the waterbody was determined to have an aquatic macrophyte biovolume >50% and the survey also noted an aesthetics impairment flag due to turbidity.
W2608	2016	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2608 (MAP2L-037S) on Congamond Lakes (MA32023) 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
W0925	Congamond Lakes	2016	Aesthetics Impaired?	No	3	3
W0925	Congamond Lakes	2016	Aquatic Plant Density, Overall	None	1	3
W0925	Congamond Lakes	2016	Aquatic Plant Density, Overall	NR	2	3
W0925	Congamond Lakes	2016	Color	Greenish	1	3
W0925	Congamond Lakes	2016	Color	None	2	3
W0925	Congamond Lakes	2016	Objectionable Deposits	No	3	3
W0925	Congamond Lakes	2016	Odor	None	3	3
W0925	Congamond Lakes	2016	Scum	No	3	3
W0925	Congamond Lakes	2016	Turbidity	Moderately Turbid	1	3
W0925	Congamond Lakes	2016	Turbidity	None	1	3
W0925	Congamond Lakes	2016	Turbidity	Slightly Turbid	1	3
W2608	Congamond Lakes	2016	Aesthetics Impaired?	No	5	5
W2608	Congamond Lakes	2016	Color	Light Yellow/Tan	2	5
W2608	Congamond Lakes	2016	Color	None	3	5
W2608	Congamond Lakes	2016	Objectionable Deposits	No	4	5
W2608	Congamond Lakes	2016	Objectionable Deposits	Yes	1	5
W2608	Congamond Lakes	2016	Odor	None	5	5
W2608	Congamond Lakes	2016	Scum	No	3	5
W2608	Congamond Lakes	2016	Scum	Yes	2	5
W2608	Congamond Lakes	2016	Turbidity	None	5	5

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 1)

C-HAB Summary Statement
During the period 2009 through 2014, C-HAB postings for this Congamond Lakes [South Basin] AU (MA32023) were reported to MDPH based on visual observations for 49 days in 2011, 14 days in 2012, and 36 days in 2014. No blooms were reported from 2015 through 2022. Since no extended blooms (>20 days in duration) based on cell count data were reported in recent years, an impairment decision will not be made at this time based on C-HAB postings.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
<p>Too limited bacteria data are available to assess the Primary Contact Recreation Use for Congamond Lakes (MA32023) and available other indicators and aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information. MassDEP staff collected <i>E. coli</i> bacteria samples in Congamond Lakes (MA32023) at W2608 [S Basin, beach E of Beach Rd, S off Rt. 168 (Congamond Rd), Southwick] from May-Sep 2016 (n=5). <i>E. coli</i> data from W2608 are inconclusive according to the 2024 CALM to assess the Primary Contact Recreation Use because this single year, limited frequency dataset included both GMs below the threshold and STV exceedance of the threshold.</p> <p>During the period 2009 through 2014, C-HAB postings for Congamond Lakes [South Basin] (MA32023) were reported to MDPH based on visual observations for 49 days in 2011, 14 days in 2012, and 36 days in 2014. No blooms were reported from 2015 through 2022. Since no extended blooms (>20 days in duration) based on cell count data were reported in recent years, an impairment decision will not be made at this time based on C-HAB postings. In Congamond Lakes (MA32023), MassDEP collected Secchi and cyanobacteria cell count data at W0925 [MAP2L-037, Index-deep hole] (2016) and cyanobacteria cell count and cyanotoxins data at W2608 [MAP2L-037S, Shoreline] (2016). Secchi depth data indicated water clarity meeting the 1.2m (4ft) threshold at W0925 in 2016 (n=3, 2.15-2.4m). The cyanobacteria cell count did not exceed 70,000 cells/ml in any of the water samples in 2016 (n=6). Analysis of microcystins samples from W2608 in 2016 (n=3) indicated that the concentrations did not exceed the threshold of 8 µg/L.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0925	MassDEP	Water Quality	Congamond Lakes	[deep hole, center of South Pond, Southwick]	42.014718	-72.763617
W2608	MassDEP	Water Quality	Congamond Lakes	[South Basin, beach east of Beach Road, south off Route 168 (Congamond Road), Southwick]	42.017768	-72.766725

Bacteria Data

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

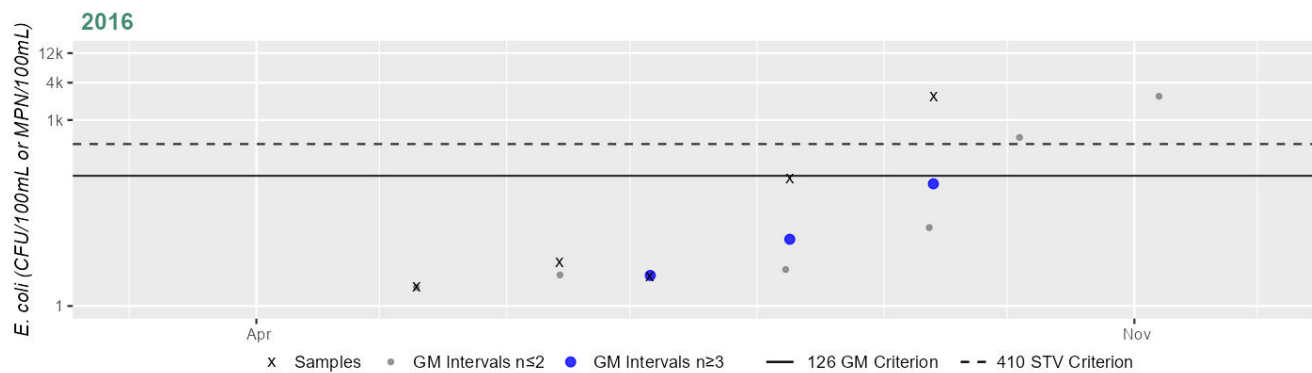
(MassDEP Undated 6) (MassDEP Undated 4)

[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
W2608	MassDEP	E. coli	05/09/16	09/12/16	5	2	2420	24

Station MASSDEP_W2608 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	24
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	20%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

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

Other Indicators

Summary Statement for 2011-2022 Cyanobacteria Cell Count and Cyanotoxin Data, and Secchi Depth Data

(MassDEP Undated 6) (MassDEP Undated 4)

Data Year(s)	Summary
2016	In this Congamond Lakes [South Basin] AU (MA32023) in 2016, MassDEP collected Secchi and cyanobacteria cell count data at W0925 [MAP2L-037, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at W2608 [MAP2L-037S, Shoreline]. At the index station W0925 (station depth=7 m) the Secchi depth measurements ranged from 2.15-2.4 m (n=3) indicating water clarity meeting the 1.2 m (4 ft) threshold. The cyanobacteria cell count did not exceed 70,000 cells/mL in any of the water samples (n=6). Analysis of microcystins samples from the shoreline station W2608 (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)
W0925	Congamond Lakes	Index	2016	3	0	NA
W2608	Congamond Lakes	Shoreline	2016	3	0	NA

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
<p>Too limited bacteria data are available to assess the Secondary Contact Recreation Use for Congamond Lakes (MA32023) and available other indicators and aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information. MassDEP staff collected <i>E. coli</i> bacteria samples in Congamond Lakes (MA32023) at W2608 [S Basin, beach E of Beach Rd, S off Rt. 168 (Congamond Rd), Southwick] from May-Sep 2016 (n=5). <i>E. coli</i> data from W2608 are inconclusive according to the 2024 CALM to assess the Secondary Contact Recreation Use because this single year, limited frequency dataset included both GMs below the threshold and STV exceedance of the threshold During the period 2009 through 2014, C-HAB postings for Congamond Lakes [South Basin] (MA32023) were reported to MDPH based on visual observations for 49 days in 2011, 14 days in 2012, and 36 days in 2014. No blooms were reported from 2015 through 2022. Since no extended blooms (>20 days in duration) based on cell count data were reported in recent years, an impairment decision will not be made at this time based on C-HAB postings. In Congamond Lakes (MA32023), MassDEP collected cyanobacteria cell count data at W0925 [MAP2L-037, Index-deep hole] (2016) and cyanobacteria cell count and cyanotoxins data at W2608 [MAP2L-037S, Shoreline] (2016). The cyanobacteria cell count did not exceed 70,000 cells/ml in any of the water samples in 2016 (n=6). Analysis of microcystins samples from W2608 in 2016 (n=3) indicated that the concentrations did not exceed the threshold of 8 µg/L.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2608	MassDEP	Water Quality	Congamond Lakes	[South Basin, beach east of Beach Road, south off Route 168 (Congamond Road), Southwick]	42.017768	-72.766725

Bacteria Data

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

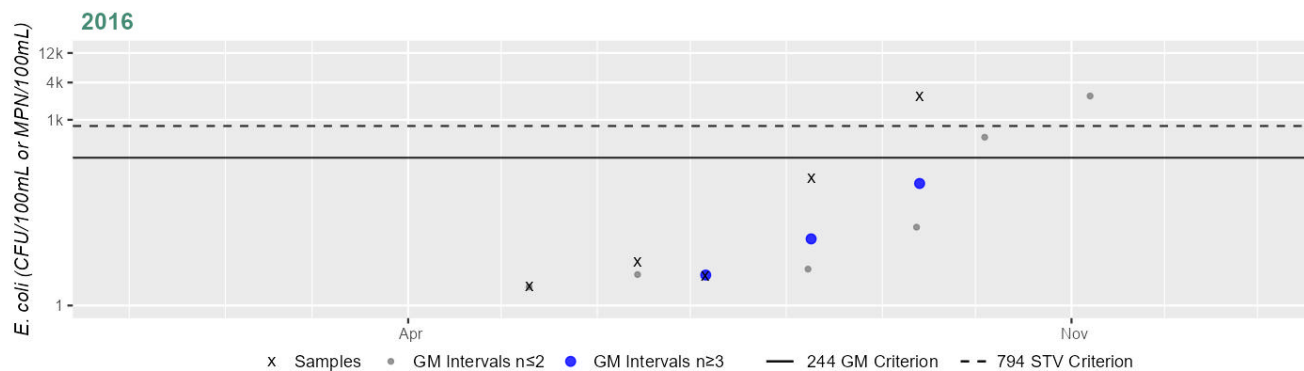
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W2608	MassDEP	E. coli	05/09/16	09/12/16	5	2	2420	24

Station MASSDEP_W2608 - 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	1
%n>STV	20%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

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

Connor Reservoir (MA32024)

Location:	Holyoke.
AU Type:	FRESHWATER LAKE
AU Size:	17 ACRES
Classification/Qualifier:	A: PWS, ORW (Tributary)

No usable data were available for Connor Reservoir (MA32024) 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

Cook Brook (MA32-38)

Location:	Headwaters, outlet small unnamed pond west of the intersection of Gorge and Granville roads, Westfield to mouth at confluence with Little River, Westfield.
AU Type:	RIVER
AU Size:	2 MILES
Classification/Qualifier:	B

No usable data were available for Cook Brook (MA32-38) 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

Cooley Lake (MA32026)

Location:	Granville.
AU Type:	FRESHWATER LAKE
AU Size:	66 ACRES
Classification/Qualifier:	B

No usable data were available for Cooley Lake (MA32026) 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

Crooked Pond (MA32028)

Location:	Plainfield.
AU Type:	FRESHWATER LAKE
AU Size:	34 ACRES
Classification/Qualifier:	B

No usable data were available for Crooked Pond (MA32028) 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

Damon Pond (MA32029)

Location:	Chesterfield/Goshen.
AU Type:	FRESHWATER LAKE
AU Size:	77 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Aquatic Plants (Macrophytes)*)	--	Added
5	5	Mercury in Fish Tissue	--	Unchanged

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

Designated Use Attainment Decisions

Fish Consumption

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

The Fish Consumption Use for Damon Pond (MA32029) 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 Damon 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 Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for Damon Pond (MA32029) is assessed as Not Supporting based on the observations from the 2016 MAP2 macrophyte mapping survey, with an Aquatic Plants (Macrophytes) non-pollutant impairment being added. MassDEP staff recorded aesthetics observations as part of the MAP2 lake monitoring project in summer 2016 at two stations in Chesterfield for this Damon Pond AU; at the southern end of pond, at beach west of Damon Pond Dam (NAT ID: MA00060), west off Damon Pond Rd (W2609/MAP2L-015S) in summer 2016 (n=5) and at the deep hole index site, southern end of pond (W2626/MAP2L-015) in summer 2016 (n=3). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded at either station, or littoral zone duckweed recorded in ten shoreline plots (n=1). During the MAP2 macrophyte mapping survey in Sep 2016 (n=1), greater than 25% (80.1%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2609	MassDEP	Water Quality	Damon Pond	[southern end of pond, at beach west of Damon Pond Dam (NAT ID: MA00060), west off Damon Pond Road, Chesterfield]	42.411932	-72.834672
W2626	MassDEP	Water Quality	Damon Pond	[index site, southern end of pond, Chesterfield]	42.412211	-72.834257

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
W2609	2016	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2609 (MAP2L-015S) on Damon Pond (MA32029) 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.
W2626	2016	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2626 (MAP2L-015) on Damon Pond (MA32029) during 3 site visits between Jun 2016 and Sep 2016. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. During the MAP2 macrophyte mapping survey (n=1) in Sep 2016, greater than 25% (80.1%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%. The observations from the MAP2 survey are indicative of an Aesthetics Use impairment.

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

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2609	Damon Pond	2016	Aesthetics Impaired?	No	5	5
W2609	Damon Pond	2016	Color	Light Yellow/Tan	3	5
W2609	Damon Pond	2016	Color	None	2	5
W2609	Damon Pond	2016	Objectionable Deposits	No	5	5
W2609	Damon Pond	2016	Odor	None	5	5
W2609	Damon Pond	2016	Scum	No	5	5
W2609	Damon Pond	2016	Turbidity	None	5	5
W2626	Damon Pond	2016	Aesthetics Impaired?	No	2	3
W2626	Damon Pond	2016	Aesthetics Impaired?	NR	1	3
W2626	Damon Pond	2016	Aquatic Plant Density, Overall	None	1	3
W2626	Damon Pond	2016	Aquatic Plant Density, Overall	NR	1	3
W2626	Damon Pond	2016	Aquatic Plant Density, Overall	Sparse	1	3
W2626	Damon Pond	2016	Aquatic Plant Density, Whole Lake	Moderate	1	1
W2626	Damon Pond	2016	Color	Dark Tan	1	3
W2626	Damon Pond	2016	Color	None	1	3
W2626	Damon Pond	2016	Color	NR	1	3
W2626	Damon Pond	2016	Duckweed Density, Whole Lake	None	1	1
W2626	Damon Pond	2016	Objectionable Deposits	No	3	3
W2626	Damon Pond	2016	Odor	None	3	3
W2626	Damon Pond	2016	Scum	No	2	3
W2626	Damon Pond	2016	Scum	Yes	1	3
W2626	Damon Pond	2016	Turbidity	None	2	3
W2626	Damon Pond	2016	Turbidity	Slightly Turbid	1	3

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Damon Pond (MA32029) is assessed as Not Supporting. An Aquatic Plants (Macrophytes) impairment is being added (from the Aesthetics Use). MassDEP staff collected *E. coli* bacteria samples in Damon Pond (MA32029) at W2609 [southern end of pond, at beach West of Damon Pond Dam (NAT ID: MA00060), W off Damon Pond Rd, Chesterfield] from May-Sep 2016 (n=5). *E. coli* data from W2609 meet 2024 CALM guidance. Additionally, MassDEP collected Secchi and cyanobacteria cell count data at W2626 [MAP2L-015, Index-deep hole] (2016) and cyanobacteria cell count and cyanotoxins data at W2609 [MAP2L-015S, Shoreline] (2016). Secchi depth data indicated water clarity meeting the 1.2m (4ft) threshold at W2626 in 2016 (n=3, 1.94-2.14m). The cyanobacteria cell count did not exceed 70,000 cells/ml in any of the water samples in 2016 (n=6). Analysis of microcystins and cylindrospermopsin samples from W2609 in 2016 (n=5) 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
W2609	MassDEP	Water Quality	Damon Pond	[southern end of pond, at beach west of Damon Pond Dam (NAT ID: MA00060), west off Damon Pond Road, Chesterfield]	42.411932	-72.834672
W2626	MassDEP	Water Quality	Damon Pond	[index site, southern end of pond, Chesterfield]	42.412211	-72.834257

Bacteria Data

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

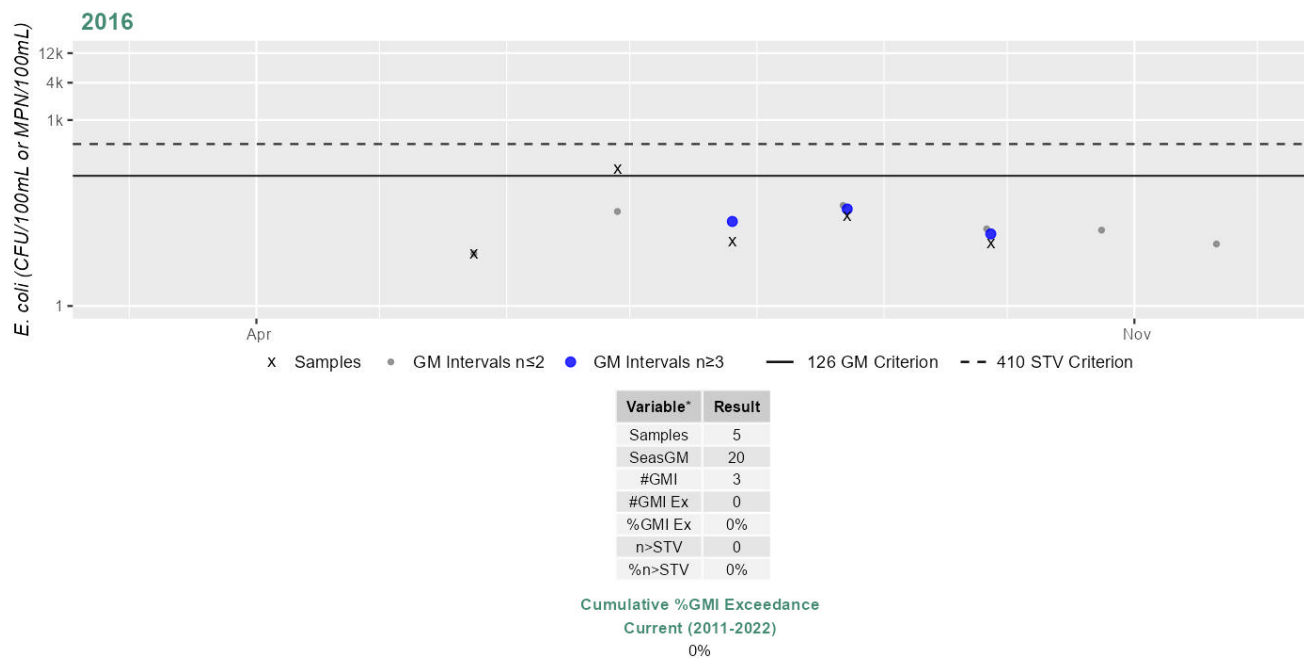
(MassDEP Undated 6) (MassDEP Undated 4)

[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
W2609	MassDEP	E. coli	05/23/16	09/26/16	5	7	160	20

Station MASSDEP_W2609 - *Escherichia coli*

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



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

Other Indicators

Summary Statement for 2011-2022 Cyanobacteria Cell Count and Cyanotoxin Data, and Secchi Depth Data

(MassDEP Undated 6) (MassDEP Undated 4)

Data Year(s)	Summary
2016	In Damon Pond (MA32029) in 2016, MassDEP collected Secchi and cyanobacteria cell count data at W2626 [MAP2L-015, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at W2609 [MAP2L-015S, Shoreline]. At the index station W2626 (station depth=3 m) the Secchi depth measurements ranged from 1.94-2.14 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 and cylindrospermopsin samples from the shoreline station W2609 (n=5) 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)
W2609	Damon Pond	Shoreline	2016	3	0	NA
W2626	Damon Pond	Index	2016	3	0	NA

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
<p>The Secondary Contact Recreation Use for Damon Pond (MA32029) is assessed as Not Supporting. An Aquatic Plants (Macrophytes) impairment is being added (from the Aesthetics Use). In Damon Pond (MA32029), MassDEP collected cyanobacteria cell count data at W2626 [MAP2L-015, Index-deep hole] (2016) and cyanobacteria cell count and cyanotoxins data at W2609 [MAP2L-015S, Shoreline] (2016). The cyanobacteria cell count did not exceed 70,000 cells/ml in any of the water samples in 2016 (n=6). Analysis of microcystins and cylindrospermopsin samples from W2609 in 2016 (n=5) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. MassDEP staff collected <i>E. coli</i> bacteria samples in Damon Pond (MA32029) at W2609 [southern end of pond, at beach W of Damon Pond Dam (NAT ID: MA00060), W off Damon Pond Rd, Chesterfield] from May-Sep 2016 (n=5). <i>E. coli</i> data from W2609 meet 2024 CALM guidance.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2609	MassDEP	Water Quality	Damon Pond	[southern end of pond, at beach west of Damon Pond Dam (NAT ID: MA00060), west off Damon Pond Road, Chesterfield]	42.411932	-72.834672

Bacteria Data

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

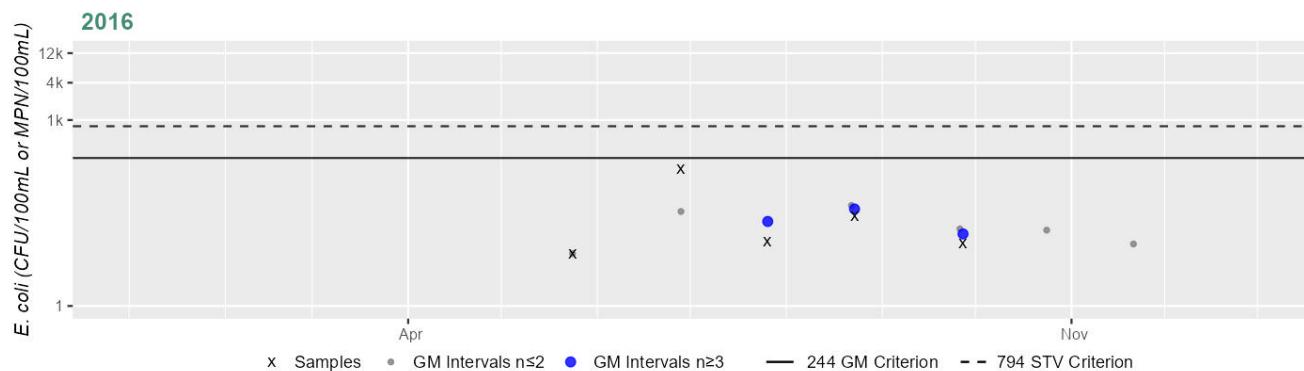
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W2609	MassDEP	<i>E. coli</i>	05/23/16	09/26/16	5	7	160	20

Station MASSDEP_W2609 - Escherichia coli

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



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

Cumulative %GMI Exceedance

Current (2011-2022)

0%

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

Dead Branch (Brook) (MA32-63)

Location:	From outlet of Long Pond, Chesterfield to mouth at confluence with Westfield River (Knightville Reservoir), Huntington/Chesterfield.
AU Type:	RIVER
AU Size:	4.1 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Dead Branch (Brook) (MA32-63) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

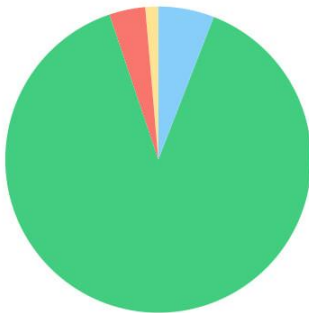
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Depot Brook (MA32-17)

Location:	Source, north of Beach Road, Washington to mouth at confluence with Yokum Brook (forming headwaters of West Branch Westfield River), Becket.
AU Type:	RIVER
AU Size:	5.9 MILES
Classification/Qualifier:	B: CWF

Depot Brook (MA32-17)

Watershed Area: 13.06 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	13.06	8.93	3.41	1.99
Agriculture	1.4%	1.2%	1.4%	0.9%
Developed	3.8%	4.7%	5.4%	8%
Natural	88.9%	87.8%	82.9%	78.9%
Wetland	5.9%	6.3%	10.3%	12.2%
Impervious	1.6%	2%	2.4%	3.4%

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Depot Brook (MA32-17) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No data are available, so the Aesthetics Use for Depot Brook (MA32-17) is Not Assessed.	

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No bacteria or other indicator data for Depot Brook (MA32-17) are available, so the Primary Contact Recreation Use is Not Assessed.	

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No bacteria or other indicator data for Depot Brook (MA32-17) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in Depot Brook (MA32-17) at W1451 [Lower Valley Rd bridge crossing S of Lower Sargent Rd, Washington] from May-Oct 2006 (n=5). Historic <i>E. coli</i> data from W1451 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1451	MassDEP	Water Quality	Depot Brook	[Lower Valley Road bridge crossing south of Lower Sargent Road, Washington]	42.343653	-73.089080

Bacteria Data

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

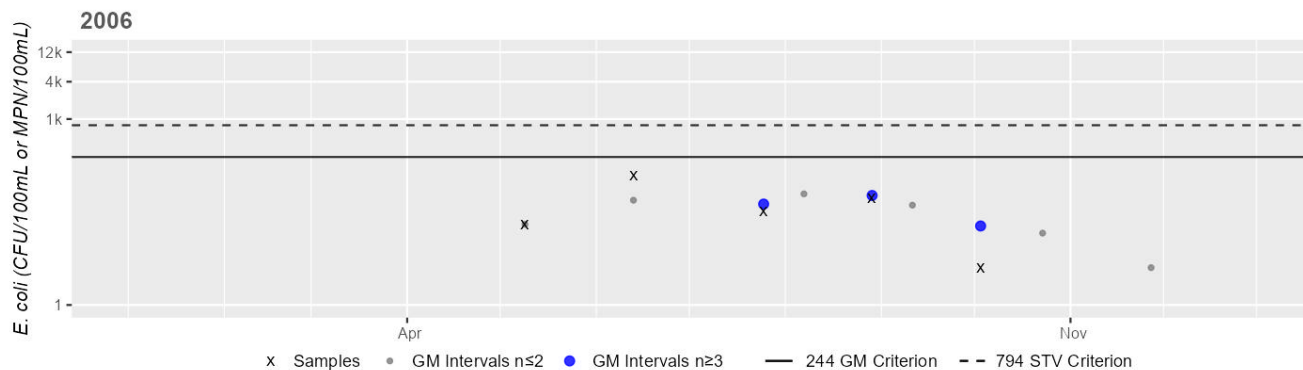
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1451	MassDEP	E. coli	05/09/06	10/03/06	5	4	120	27

Station MASSDEP_W1451 - Escherichia coli

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



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

Cumulative %GMI Exceedance

Historic (1997-2010)

0%

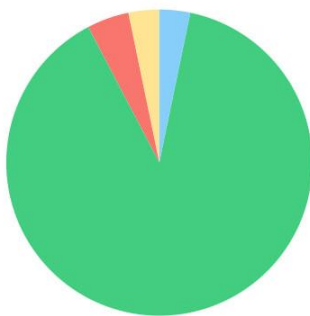
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes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

Dickinson Brook (MA32-34)

Location:	Source, confluence of Trumble Brook and Seymour Brook, Granville to mouth at confluence with Munn Brook, Granville.
AU Type:	RIVER
AU Size:	3.4 MILES
Classification/Qualifier:	B: CWF

Dickinson Brook (MA32-34)

Watershed Area: 13.07 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	13.07	11.87	5.19	4.94
Agriculture	3.3%	3.3%	1.8%	1.8%
Developed	4.4%	4.6%	4.6%	4.7%
Natural	89.1%	89%	88.4%	88.3%
Wetland	3.2%	3.1%	5.2%	5.2%
Impervious	1.9%	1.9%	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	
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Dickinson Brook (MA32-34) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No data are available, so the Aesthetics Use for Dickinson Brook (MA32-34) 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 Dickinson Brook (MA32-34) 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 Dickinson Brook (MA32-34) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in Dickinson Brook (MA32-34) at W1461 [Sodom St bridge, Granville] from May-Oct 2006 (n=5). Historic <i>E. coli</i> data from W1461 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1461	MassDEP	Water Quality	Dickinson Brook	[Sodom Street bridge, Granville]	42.065310	-72.849645

Bacteria Data

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

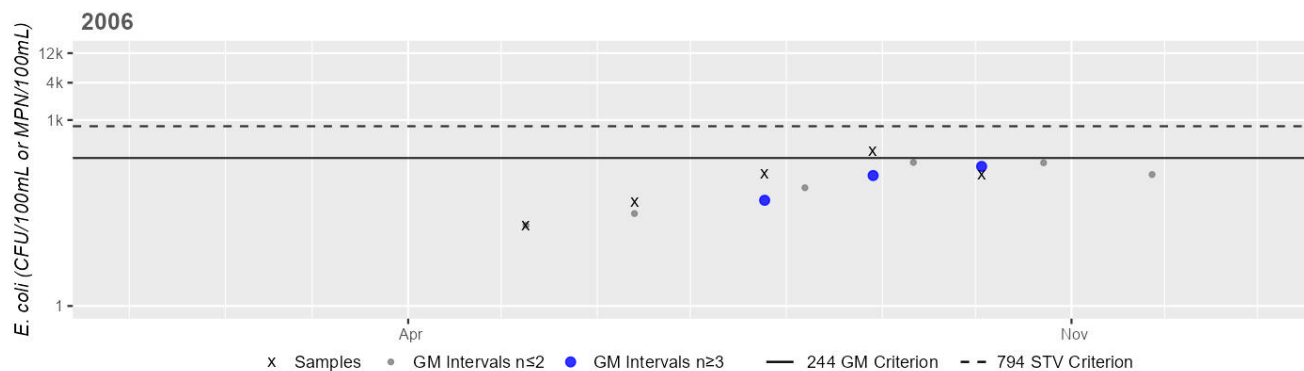
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1461	MassDEP	E. coli	05/09/06	10/03/06	5	20	316	88

Station MASSDEP_W1461 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	88
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Historic (1997-2010)

0%

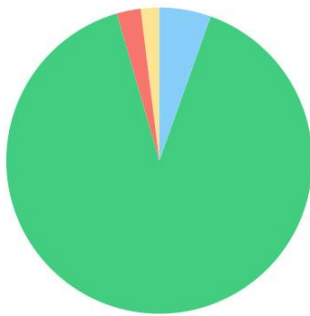
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes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

Factory Brook (MA32-42)

Location:	Headwaters, east of Ridge Road, in Middlefield State Forest, Peru to mouth at confluence with West Branch Westfield River, Middlefield.
AU Type:	RIVER
AU Size:	7.6 MILES
Classification/Qualifier:	B: CWF

Factory Brook (MA32-42)

Watershed Area: 11.29 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	11.29	3.88	2.01	0.76
Agriculture	2%	3.2%	2%	2.6%
Developed	2.5%	3.7%	3.7%	5.3%
Natural	90.1%	88.3%	81.9%	80%
Wetland	5.5%	4.8%	12.4%	12.2%
Impervious	1.1%	1.6%	1.6%	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
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Factory Brook (MA32-42) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for Factory Brook (MA32-42) is assessed as Fully Supporting based on the lack of objectionable conditions observed by MassDEP staff during the summers 2012-2015. MassDEP staff recorded aesthetics observations for one station close to the downstream end of this Factory Brook AU in Middlefield east off Town Hill Road, ~4400 feet upstream of the confluence with the Westfield River (W2283) during the summers of 2012 (n=5), 2013 (n=5), 2014 (n=4), and 2015 (n=4). There were generally no noted objectionable conditions (odors, deposits, growths, or turbidity) recorded by DEP field sampling crews during each year of sampling.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2283	MassDEP	Water Quality	Factory Brook	[east off Town Hill Road, approximately 4400 feet upstream of confluence with the Westfield River, Middlefield]	42.320010	-73.027750

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
W2283	2012	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2283 on Factory Brook (MA32-42) during 5 site visits between May 2012 and Oct 2012. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2283	2013	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2283 on Factory Brook (MA32-42) during 5 site visits between May 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2283	2014	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2283 on Factory Brook (MA32-42) during 4 site visits between May 2014 and Aug 2014. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2283	2015	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2283 on Factory Brook (MA32-42) during 4 site visits between May 2015 and Aug 2015. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

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

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2283	2012	5	5	0
W2283	2013	5	4	0
W2283	2014	4	4	0
W2283	2015	4	4	0

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

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2283	Factory Brook	2012	Aquatic Plant Density, Overall	None	5	5
W2283	Factory Brook	2012	Color	Light Yellow/Tan	2	5
W2283	Factory Brook	2012	Color	None	3	5
W2283	Factory Brook	2012	Objectionable Deposits	No	5	5
W2283	Factory Brook	2012	Odor	None	5	5
W2283	Factory Brook	2012	Periphyton Density, Filamentous	None	5	5
W2283	Factory Brook	2012	Periphyton Density, Film	None	5	5
W2283	Factory Brook	2012	Scum	No	3	5
W2283	Factory Brook	2012	Scum	NR	1	5
W2283	Factory Brook	2012	Scum	Yes	1	5
W2283	Factory Brook	2012	Turbidity	None	5	5
W2283	Factory Brook	2013	Aesthetics Impaired?	No	5	5
W2283	Factory Brook	2013	Aquatic Plant Density, Overall	None	5	5
W2283	Factory Brook	2013	Color	Light Yellow/Tan	4	5
W2283	Factory Brook	2013	Color	None	1	5
W2283	Factory Brook	2013	Objectionable Deposits	No	5	5
W2283	Factory Brook	2013	Odor	None	5	5
W2283	Factory Brook	2013	Periphyton Density, Filamentous	None	2	5
W2283	Factory Brook	2013	Periphyton Density, Filamentous	NR	1	5
W2283	Factory Brook	2013	Periphyton Density, Filamentous	Sparse	2	5
W2283	Factory Brook	2013	Periphyton Density, Film	None	2	5
W2283	Factory Brook	2013	Periphyton Density, Film	NR	1	5
W2283	Factory Brook	2013	Periphyton Density, Film	Sparse	2	5
W2283	Factory Brook	2013	Scum	No	3	5
W2283	Factory Brook	2013	Scum	Yes	2	5
W2283	Factory Brook	2013	Turbidity	None	5	5
W2283	Factory Brook	2014	Aesthetics Impaired?	No	4	4
W2283	Factory Brook	2014	Aquatic Plant Density, Overall	None	3	4
W2283	Factory Brook	2014	Aquatic Plant Density, Overall	Sparse	1	4
W2283	Factory Brook	2014	Color	Light Yellow/Tan	3	4
W2283	Factory Brook	2014	Color	None	1	4

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2283	Factory Brook	2014	Objectionable Deposits	No	4	4
W2283	Factory Brook	2014	Odor	None	4	4
W2283	Factory Brook	2014	Periphyton Density, Filamentous	None	4	4
W2283	Factory Brook	2014	Periphyton Density, Film	None	3	4
W2283	Factory Brook	2014	Periphyton Density, Film	Sparse	1	4
W2283	Factory Brook	2014	Scum	No	3	4
W2283	Factory Brook	2014	Scum	Yes	1	4
W2283	Factory Brook	2014	Turbidity	None	4	4
W2283	Factory Brook	2015	Aesthetics Impaired?	No	4	4
W2283	Factory Brook	2015	Aquatic Plant Density, Overall	None	4	4
W2283	Factory Brook	2015	Color	Light Yellow/Tan	1	4
W2283	Factory Brook	2015	Color	None	3	4
W2283	Factory Brook	2015	Objectionable Deposits	No	4	4
W2283	Factory Brook	2015	Odor	None	4	4
W2283	Factory Brook	2015	Periphyton Density, Filamentous	None	4	4
W2283	Factory Brook	2015	Periphyton Density, Film	None	2	4
W2283	Factory Brook	2015	Periphyton Density, Film	Sparse	2	4
W2283	Factory Brook	2015	Scum	No	4	4
W2283	Factory Brook	2015	Turbidity	None	4	4

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO
2024/26 Use Attainment Summary	
No bacteria data are available to assess the Primary Contact Recreation Use for Factory Brook (MA32-42) 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 Factory Brook (MA32-42) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information.	

Freeland Brook (MA32-73)

Location:	Headwaters, west of Schoolhouse Hill Road, Blandford to confluence with Wigwam Brook, creating headwater of Stage Brook, Russell.
AU Type:	RIVER
AU Size:	2.6 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Freeland Brook (MA32-73) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Fuller Brook (MA32-64)

Location:	Headwaters, outlet wetland west at Mongue Road, Peru to mouth at confluence with Middle Branch Westfield River, Worthington.
AU Type:	RIVER
AU Size:	4.2 MILES
Classification/Qualifier:	A: PWS, ORW, CWF (Tributary)

No usable data were available for Fuller Brook (MA32-64) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Garnet Lake (MA32037)

Location:	Peru.
AU Type:	FRESHWATER LAKE
AU Size:	17 ACRES
Classification/Qualifier:	B

No usable data were available for Garnet Lake (MA32037) 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

Geer Brook (MA32-43)

Location:	Headwaters, outlet Garnet Lake, Peru to mouth at confluence with Factory Brook, Middlefield.
AU Type:	RIVER
AU Size:	1.8 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Geer Brook (MA32-43) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

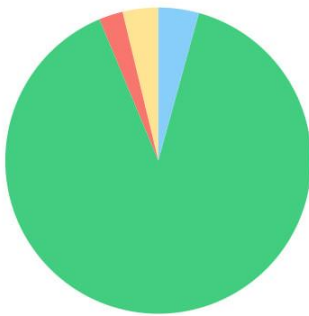
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Glendale Brook (MA32-10)

Location:	Headwaters in a wetland in Peru State Forest, Peru to mouth at confluence with Middle Branch Westfield River, Middlefield.
AU Type:	RIVER
AU Size:	6 MILES
Classification/Qualifier:	A: PWS, ORW (Tributary)

Glendale Brook (MA32-10)

Watershed Area: 6.64 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	6.64	5.66	1.77	1.51
Agriculture	3.8%	4.4%	3.2%	3.8%
Developed	2.5%	2.9%	2.7%	3.1%
Natural	89.4%	88.3%	88.3%	87.4%
Wetland	4.3%	4.4%	5.7%	5.7%
Impervious	1.2%	1.4%	1.4%	1.6%

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Glendale Brook (MA32-10) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No data are available, so the Aesthetics Use for Glendale Brook (MA32-10) 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 Glendale Brook (MA32-10) 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 Glendale Brook (MA32-10) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in Glendale Brook (MA32-10) at W0266 [Clark Wright Rd bridge, Middlefield] from May-Oct 2006 (n=5). Historic <i>E. coli</i> data from W0266 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0266	MassDEP	Water Quality	Glendale Brook	[Clark Wright Road bridge, Middlefield]	42.349539	-72.967411

Bacteria Data

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

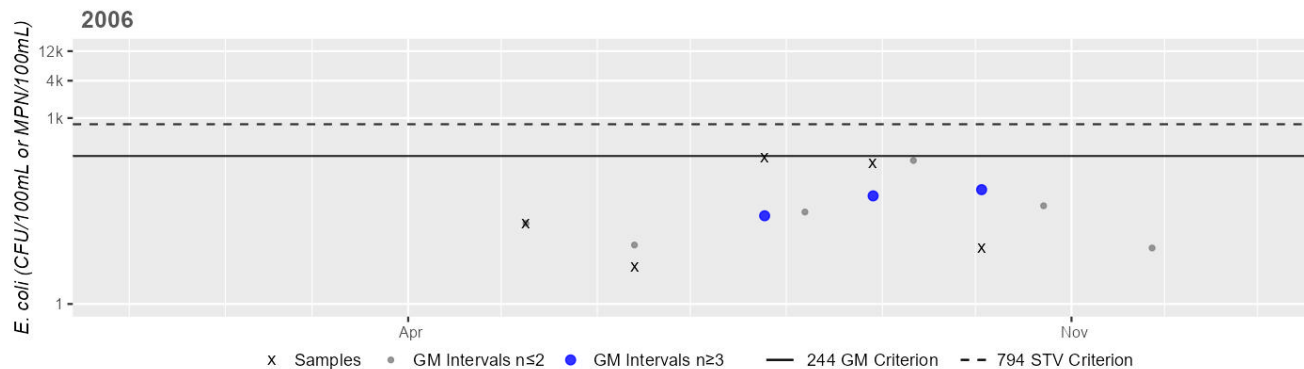
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W0266	MassDEP	E. coli	05/09/06	10/03/06	5	4	232	30

Station MASSDEP_W0266 - 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 Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Granville Reservoir (MA32038)

Location:	Granville.
AU Type:	FRESHWATER LAKE
AU Size:	74 ACRES
Classification/Qualifier:	A: PWS, ORW

No usable data were available for Granville Reservoir (MA32038) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

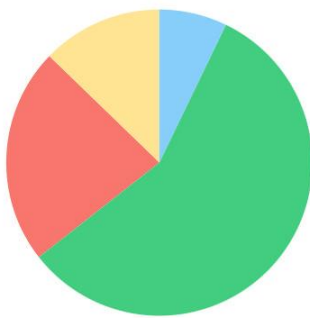
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Great Brook (MA32-25)

Location:	Source, outlet Congamond Lakes, Southwick to mouth at confluence with Westfield River, Westfield.
AU Type:	RIVER
AU Size:	10.8 MILES
Classification/Qualifier:	B

Great Brook (MA32-25)

Watershed Area: 24.00 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area* (square miles)	22.19	7.34	7.46	2.31
Agriculture	12.8%	10.6%	9.1%	5.9%
Developed	22.8%	26.4%	16.2%	18.2%
Natural	57.2%	56.8%	60%	62.2%
Wetland	7.2%	6.2%	14.6%	13.6%
Impervious	7.9%	9.1%	5.8%	5.9%

*Land cover analysis only includes watershed area within Massachusetts.

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

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Escherichia Coli (E. Coli)	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	--	--	--	X	X
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	X
Temperature	Source Unknown (N)	X	--	--	--	--

Recommendations

2024/26 Recommendations
2024 IR [Turbidity, low] Additional monitoring is recommended at {W2276} to follow up on two observations of highly turbid water in 2012.

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Great Brook (MA32-25) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	YES
2024/26 Use Attainment Summary	
The Aesthetics Use for Great Brook (MA32-25) is assessed as Fully Supporting, with an Alert identified for turbidity based on field observations during the summer of 2012. MassDEP staff recorded aesthetics observations for one station in the downstream half of this Great Brook AU ~175 feet downstream of the Shaker Road crossing nearest the Kellog Brook confluence (which is ~600 feet downstream of station), Westfield (W2276) in the summer of 2012 (n=6). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, although there were two observations of highly turbid water.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2276	MassDEP	Water Quality	Great Brook	[approximately 175 feet downstream of the Shaker Road crossing nearest the Kellog Brook confluence (which is approximately 600 feet downstream of station), Westfield]	42.086216	-72.727932

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
W2276	2012	6	Aesthetic observations were made by MassDEP field sampling crews at Station W2276 on Great Brook (MA32-25) during 6 site visits between May 2012 and Sep 2012. There were some objectionable conditions recorded, including high turbidity (n=2). These conditions are indicative of an Alert status.

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
W2276	2012	6	4	0

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

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2276	Great Brook	2012	Aquatic Plant Density, Overall	None	5	6
W2276	Great Brook	2012	Aquatic Plant Density, Overall	Unobservable	1	6
W2276	Great Brook	2012	Color	Light Yellow/Tan	4	6
W2276	Great Brook	2012	Color	None	2	6
W2276	Great Brook	2012	Objectionable Deposits	No	6	6
W2276	Great Brook	2012	Odor	Musty (Basement)	2	6
W2276	Great Brook	2012	Odor	None	4	6
W2276	Great Brook	2012	Periphyton Density, Filamentous	None	2	6
W2276	Great Brook	2012	Periphyton Density, Filamentous	Sparse	2	6
W2276	Great Brook	2012	Periphyton Density, Filamentous	Unobservable	2	6
W2276	Great Brook	2012	Periphyton Density, Film	None	4	6
W2276	Great Brook	2012	Periphyton Density, Film	Unobservable	2	6
W2276	Great Brook	2012	Scum	No	6	6
W2276	Great Brook	2012	Turbidity	Highly Turbid	2	6
W2276	Great Brook	2012	Turbidity	None	2	6
W2276	Great Brook	2012	Turbidity	Slightly Turbid	2	6

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Great Brook (MA32-25) continues to be assessed as Not Supporting. The prior *Escherichia coli* (*E. coli*) impairment is being carried forward based on bacteria data not meeting the threshold at W2276. The prior Alert for Turbidity is being removed and will be maintained under the Aesthetics Use. MassDEP staff collected *E. coli* bacteria samples in Great Brook (MA32-25) at W2276 [~175 ft downstream of the Shaker Rd crossing nearest the Kellog Brook confluence (which is ~600 ft downstream of station), Westfield] from May-Sep 2012 (n=6). Analysis of the single year limited frequency *E. coli* dataset from W2276 indicated 100% of intervals had GMs >126 CFU/100ml, 3 samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 380 CFU/100ml. *E. coli* data from W2276 are indicative of an *E. coli* impairment.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2276	MassDEP	Water Quality	Great Brook	[approximately 175 feet downstream of the Shaker Road crossing nearest the Kellog Brook confluence (which is approximately 600 feet downstream of station), Westfield]	42.086216	-72.727932

Bacteria Data

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

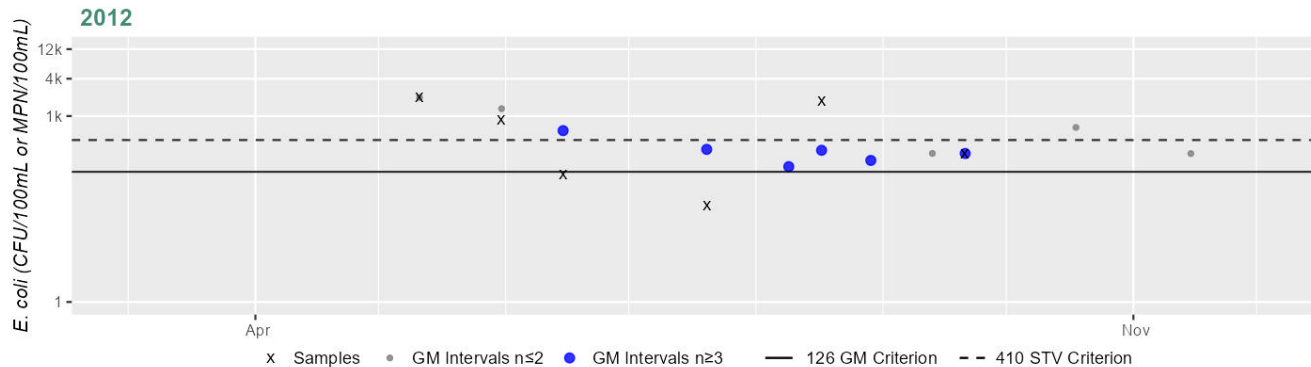
(MassDEP Undated 6) (MassDEP Undated 4)

[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
W2276	MassDEP	E. coli	05/10/12	09/20/12	6	36	1990	380

Station MASSDEP_W2276 - *Escherichia coli*

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



Variable*	Result
Samples	6
SeasGM	380
#GMI	6
#GMI Ex	6
%GMI Ex	100%
n>STV	3
%n>STV	50%

Cumulative %GMI Exceedance

Current (2011-2022)

100%

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

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Great Brook (MA32-25) is assessed as Not Supporting. An *Escherichia coli* (*E. coli*) impairment is being added based on a re-evaluation of bacteria data not meeting the threshold at W2276. The prior Alert for Turbidity is being removed and will be maintained under the Aesthetics Use. MassDEP staff collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in Great Brook (MA32-25) from 2001-2012 at 3 stations. Samples were collected from the following stations/sample years from upstream to downstream: W2276 [~175 ft downstream of the Shaker Rd crossing nearest the Kellog Brook confluence (which is ~600 ft downstream of station), Westfield] from May-Sep 2012 (n=6), W1456 [Shaker Rd bridge nearest Canal Drive, Westfield] from May-Oct 2006 (n=5), W0804 [~250 ft upstream/southwest of Rt. 187 (Little River Rd) bridge, Westfield] from Aug-Oct 2001 (n=4). Analysis of the single year limited frequency *E. coli* dataset from W2276 indicated 66% of intervals had GMs >244 CFU/100ml, 3 samples exceeded the 794 CFU/100ml STV, and the overall GM was 380 CFU/100ml. *E. coli* data from W2276 are indicative of an *E. coli* impairment.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0804	MassDEP	Water Quality	Great Brook	[approximately 250 feet upstream/southwest of Route 187 (Little River Road) bridge, Westfield]	42.097986	-72.713419
W1456	MassDEP	Water Quality	Great Brook	[Shaker Road bridge nearest Canal Drive, Westfield]	42.088635	-72.723301
W2276	MassDEP	Water Quality	Great Brook	[approximately 175 feet downstream of the Shaker Road crossing nearest the Kellog Brook confluence (which is approximately 600 feet downstream of station), Westfield]	42.086216	-72.727932

Bacteria Data

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

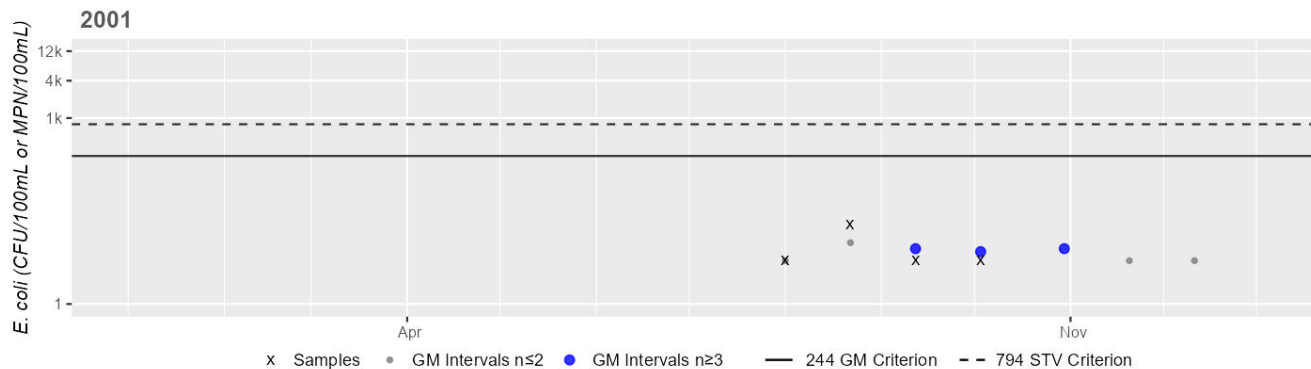
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W0804	MassDEP	E. coli	08/01/01	10/03/01	4	5	19	6
W1456	MassDEP	E. coli	05/09/06	10/03/06	5	20	436	104
W2276	MassDEP	E. coli	05/10/12	09/20/12	6	36	1990	380

Station MASSDEP_W0804 - *Escherichia coli*

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



Variable*	Result
Samples	4
SeasGM	6
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

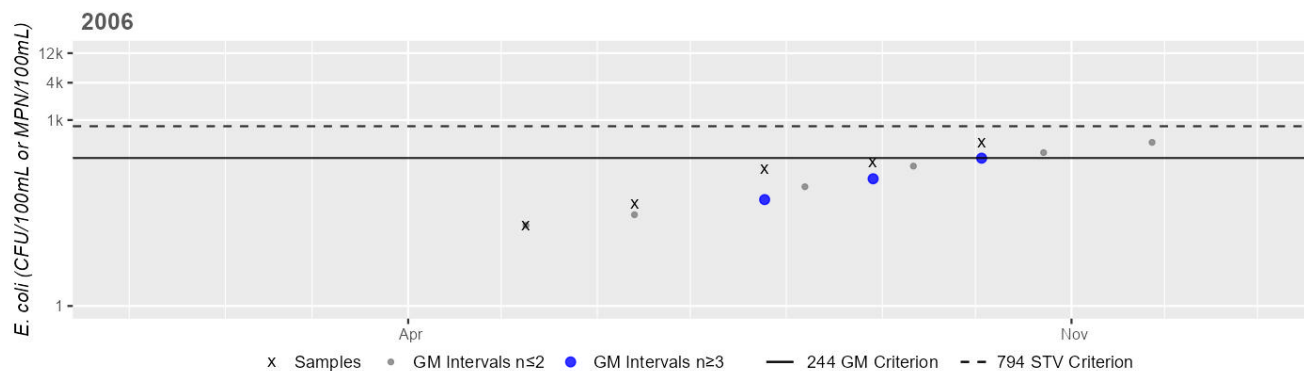
Historic (1997-2010)

0%

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

Station MASSDEP_W1456 - *Escherichia coli*

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



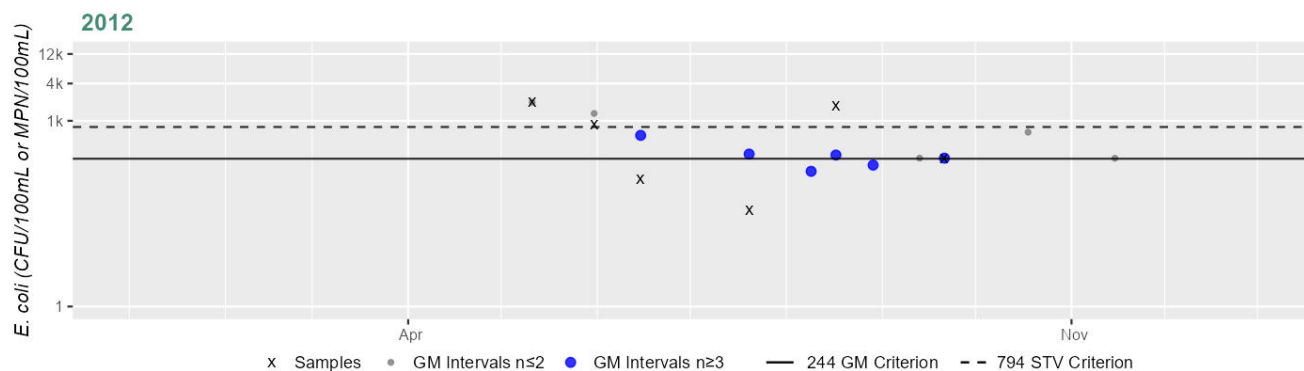
Variable*	Result
Samples	5
SeasGM	104
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Station MASSDEP_W2276 - *Escherichia coli*

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



Variable*	Result
Samples	6
SeasGM	380
#GMI	6
#GMI Ex	4
%GMI Ex	66%
n>STV	3
%n>STV	50%

Cumulative %GMI Exceedance
Current (2011-2022)
66%

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

Hamilton Brook (MA32-74)

Location:	Perennial portion, from outlet of Chimney Corners Pond Dam (NATID# MA00203) west of Hamilton Road, Becket to mouth at confluence with Walker Brook, Becket.
AU Type:	RIVER
AU Size:	1 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Hamilton Brook (MA32-74) 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

Hammond Pond (MA32040)

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

No usable data were available for Hammond Pond (MA32040) 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

Hollister Brook (MA32-75)

Location:	Headwaters, perennial portion, west of Wildcat Road, Granville to mouth at inlet Granville Reservoir, Granville.
AU Type:	RIVER
AU Size:	0.9 MILES
Classification/Qualifier:	A: PWS, ORW, CWF (Tributary)

No usable data were available for Hollister Brook (MA32-75) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Horse Pond (MA32043)

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

No usable data were available for Horse Pond (MA32043) 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	(Non-Native Aquatic Plants*)	--	Unchanged
5	5	Chlorophyll-a	--	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	--	--	--	--
(Non-Native Aquatic Plants*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
Chlorophyll-a	Source Unknown (N)	X	--	--	--	--
Dissolved Oxygen	Source Unknown (N)	X	--	--	--	--

Hume Brook (MA32-76)

Location:	Headwaters north of Shaw Road, Windsor to mouth at confluence with Westfield Brook, Windsor.
AU Type:	RIVER
AU Size:	2.1 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Hume Brook (MA32-76) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Hundred Acre Brook (MA32-77)

Location:	Headwaters, perennial portion, north of Birch Bluffs Drive, Westfield to mouth at confluence with Little River, Westfield.
AU Type:	RIVER
AU Size:	0.6 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Hundred Acre Brook (MA32-77) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Jacks Brook (MA32-39)

Location:	Headwaters (perennial portion), east of Fowler Road, Westfield to inlet of Crane Pond/Little River, Westfield.
AU Type:	RIVER
AU Size:	2.4 MILES
Classification/Qualifier:	B

No usable data were available for Jacks Brook (MA32-39) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

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

Kearnery Brook (MA32-46)

Location:	Headwaters, north of Powell Road and east of FAA Road, Cummington to mouth at confluence with Bronson Brook, Worthington.
AU Type:	RIVER
AU Size:	3.2 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Kearnery Brook (MA32-46) 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

Kellog Brook (MA32-55)

Location:	Headwaters (perennial portion), east of College Highway (Route 202), Southwick to mouth at confluence with Great Brook, Westfield.
AU Type:	RIVER
AU Size:	2.8 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Kellog Brook (MA32-55) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

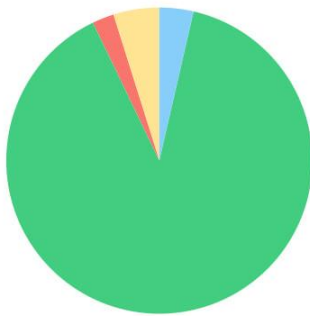
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Kinne Brook (MA32-32)

Location:	Headwaters (perennial portion), north of Adams Road, Worthington to mouth at confluence with Middle Branch Westfield River, Chester.
AU Type:	RIVER
AU Size:	4 MILES
Classification/Qualifier:	A: PWS, ORW, CWF (Tributary)

Kinne Brook (MA32-32)

Watershed Area: 5.73 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	5.73	3.77	1.50	1.01
Agriculture	4.9%	0.9%	5.9%	1.3%
Developed	2.3%	0.9%	2.8%	1.6%
Natural	89.3%	93.6%	86.1%	90.3%
Wetland	3.6%	4.7%	5.2%	6.8%
Impervious	1%	0.5%	1.2%	0.8%

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Kinne Brook (MA32-32) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No data are available, so the Aesthetics Use for Kinne Brook (MA32-32) is Not Assessed.	

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No bacteria or other indicator data for Kinne Brook (MA32-32) are available, so the Primary Contact Recreation Use is Not Assessed.	

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No bacteria or other indicator data for Kinne Brook (MA32-32) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in Kinne Brook (MA32-32) at W1459 [W off Kinney Brook Rd ~0.1 mile from the confluence with the Middle Branch Westfield River, Chester] from May-Oct 2006 (n=5). Historic <i>E. coli</i> data from W1459 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1459	MassDEP	Water Quality	Kinne Brook	[west off Kinney Brook Road approximately 0.1 mile from the confluence with the Middle Branch Westfield River, Chester]	42.306040	-72.906705

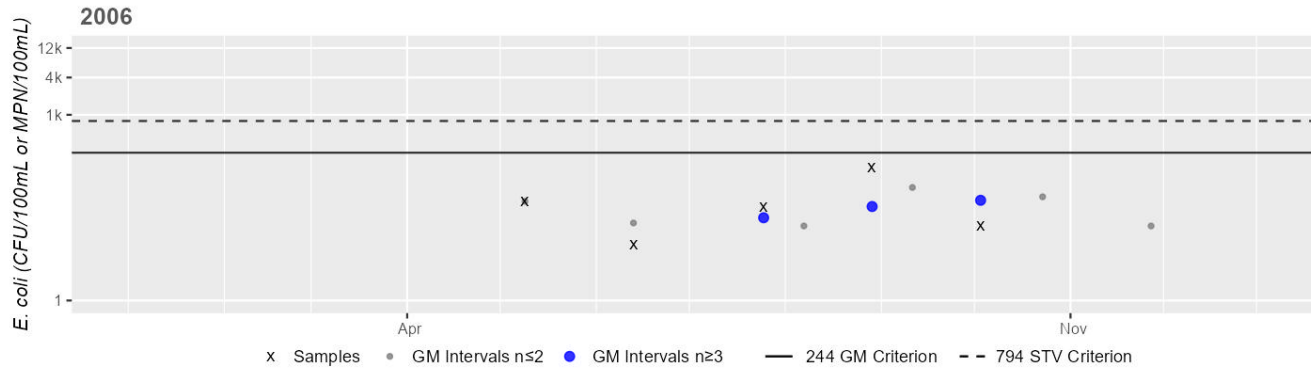
Bacteria Data

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
W1459	MassDEP	E. coli	05/09/06	10/03/06	5	8	140	29

Station MASSDEP_W1459 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	29
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)

0%

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

Little River (MA32-08)

Location:	Horton's Bridge, Westfield to confluence with Westfield River, Westfield.
AU Type:	RIVER
AU Size:	4.9 MILES
Classification/Qualifier:	B: CWF

Little River (MA32-08)

Watershed Area: 85.44 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	85.44	5.97	28.40	1.71
Agriculture	3.3%	9.9%	2.8%	12.8%
Developed	6.9%	41.3%	4.8%	21%
Natural	84.8%	43.2%	83.2%	52.2%
Wetland	5%	5.6%	9.2%	13.9%
Impervious	2.9%	19.1%	2%	8.3%

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

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Escherichia Coli (E. Coli)	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	--	--	--	X	X
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	X

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	--	--	--	X	--
Fecal Coliform	Source Unknown (N)	--	--	--	X	--
Temperature	Impervious Surface/Parking Lot Runoff (N)	X	--	--	--	--
Temperature	Loss of Riparian Habitat (N)	X	--	--	--	--

Supporting Information for Removed Impairments

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

Recommendations

2024/26 Recommendations
2024/2026 IR [Algae, Low] Additional monitoring should be performed on Little River (MA32-08) to confirm the presence of dense filamentous that was observed by MassDEP in 2012 at the downstream end of Little River in Westfield on the Rt 20 bridge at station {W0808}

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary

Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Little River (MA32-08) is Not Assessed.

Aesthetic**2024/26 Use Attainment**

Fully Supporting

Alert

YES

2024/26 Use Attainment Summary

The Aesthetics Use for Little River (MA32-08) continues to be assessed as Fully Supporting. An Alert is being identified, however, due to some observations of excessive algal growth in summer 2012. MassDEP staff recorded aesthetics observations for one station at the downstream end of this Little River AU in Westfield on the Rt 20 bridge (W0808). There were generally no noted objectionable conditions (odors, deposits, or turbidity) recorded by DEP sampling crews during summer 2012 (n=5). However, there were observations of dense/very dense filamentous algae on three site visits.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0808	MassDEP	Water Quality	Little River	[Route 20 bridge, Westfield]	42.116647	-72.733666

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
W0808	2012	5	Aesthetic observations were made by MassDEP field sampling crews at Station W0808 on Little River (MA32-08) during 5 site visits between May 2012 and Sep 2012. There were some objectionable conditions recorded, including dense/very dense filamentous algae (n=3). These conditions are indicative of an Alert status.

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
W0808	2012	5	5	3

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

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W0808	Little River	2012	Aquatic Plant Density, Overall	Moderate	2	5
W0808	Little River	2012	Aquatic Plant Density, Overall	Sparse	3	5
W0808	Little River	2012	Color	None	5	5
W0808	Little River	2012	Objectionable Deposits	No	5	5
W0808	Little River	2012	Odor	None	5	5
W0808	Little River	2012	Periphyton Density, Filamentous	Dense	2	5
W0808	Little River	2012	Periphyton Density, Filamentous	None	1	5
W0808	Little River	2012	Periphyton Density, Filamentous	Sparse	1	5
W0808	Little River	2012	Periphyton Density, Filamentous	Very Dense	1	5
W0808	Little River	2012	Periphyton Density, Film	Moderate	2	5
W0808	Little River	2012	Periphyton Density, Film	Sparse	3	5
W0808	Little River	2012	Scum	No	5	5
W0808	Little River	2012	Turbidity	None	5	5

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for the Little River (MA32-08) continues to be assessed as Not Supporting. The prior <i>Escherichia coli</i> (<i>E. coli</i>) and Fecal Coliform impairments are being carried forward. The prior Alert for Algae is being removed and will be maintained under the Aesthetics Use.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for the Little River (MA32-08) continues to be assessed as Not Supporting. The prior <i>Escherichia coli</i> (<i>E. coli</i>) impairment is being carried forward. The prior Alert for Algae is being removed and will be maintained under the Aesthetics Use.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0808	MassDEP	Water Quality	Little River	[Route 20 bridge, Westfield]	42.116647	-72.733666

Bacteria Data

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

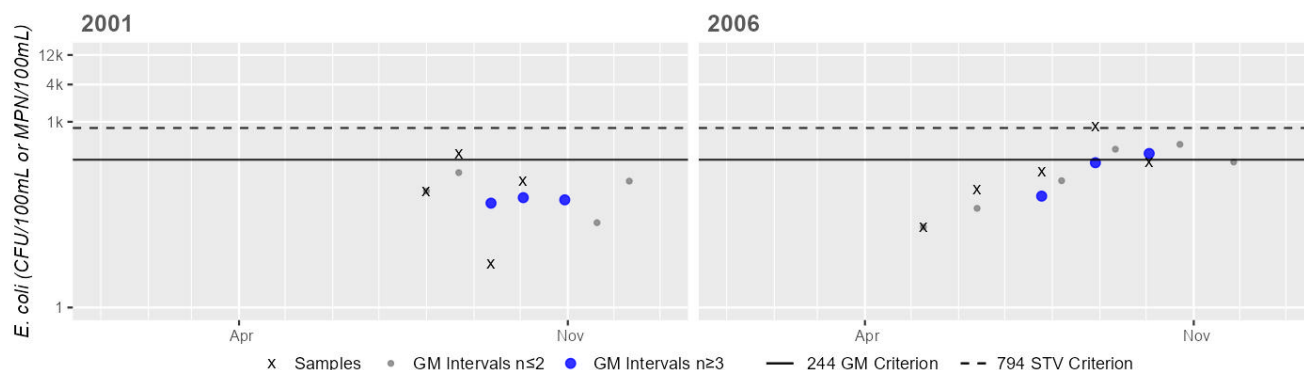
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W0808	MassDEP	E. coli	08/01/01	10/03/01	4	5	300	59
W0808	MassDEP	E. coli	05/09/06	10/03/06	5	20	832	135

Station MASSDEP_W0808 - Escherichia coli

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



Variable*	Result
Samples	4
SeasGM	59
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	5
SeasGM	135
#GMI	3
#GMI Ex	1
%GMI Ex	33%
n>STV	1
%n>STV	20%

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

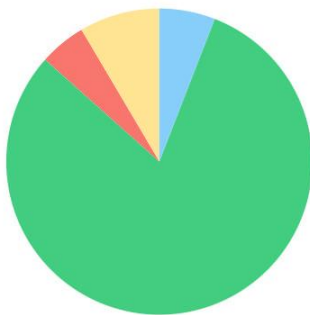
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes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

Little River (MA32-16)

Location:	Headwaters, confluence of Watts and Wards streams, Ringville (locality in Worthington), to mouth at confluence with Westfield River, Huntington.
AU Type:	RIVER
AU Size:	5.7 MILES
Classification/Qualifier:	B

Little River (MA32-16)

Watershed Area: 15.26 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	15.26	3.14	3.64	0.54
Agriculture	8.5%	3.7%	3.1%	1.1%
Developed	4.9%	2.5%	4.6%	6%
Natural	80.7%	89.9%	78.2%	79.2%
Wetland	5.9%	3.9%	14%	13.7%
Impervious	1.9%	1.5%	2.1%	4.2%

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

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Little River (MA32-16) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No data are available, so the Aesthetics Use for Little River (MA32-16) is Not Assessed.	

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No bacteria or other indicator data for the Little River (MA32-16) are available, so the Primary Contact Recreation Use is Not Assessed.	

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No bacteria or other indicator data for the Little River (MA32-16) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in the Little River (MA32-16) at W1450 [Ireland St S bridge, Worthington] from May-Oct 2006 (n=5). Historic <i>E. coli</i> data from W1450 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1450	MassDEP	Water Quality	Little River	[Ireland Street South bridge, Worthington]	42.343354	-72.889984

Bacteria Data

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

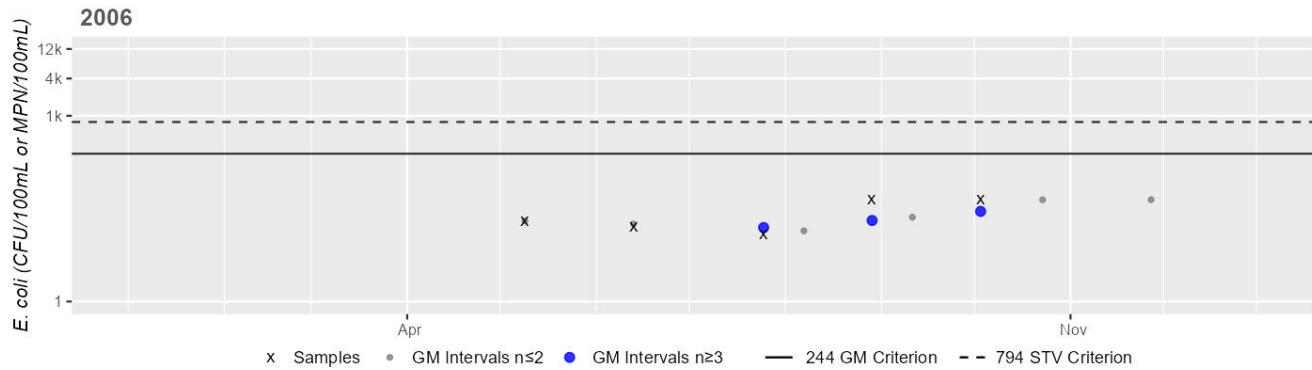
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1450	MassDEP	E. coli	05/09/06	10/03/06	5	12	44	23

Station MASSDEP_W1450 - 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 Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Little River (MA32-35)

Location:	Source, outlet of Cobble Mountain Reservoir, Russell to Springfield Water Works Intake Dam (NATID: MA00708) northwest of Gorge Road, Russell (formerly part of 2004 segment: Little River MA32-26).
AU Type:	RIVER
AU Size:	2.6 MILES
Classification/Qualifier:	A: PWS, ORW, CWF (part PWS and Tributary to PWS)

No usable data were available for Little River (MA32-35) 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

Little River (MA32-36)

Location:	From Springfield Water Works Intake Dam (NATID: MA00708) northwest of Gorge Road, Russell to Horton's Bridge, Westfield (formerly part of 2004 segment: Little River MA32-26).
AU Type:	RIVER
AU Size:	5.8 MILES
Classification/Qualifier:	B: CWF

Little River (MA32-36)

Watershed Area: 78.50 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	78.50	9.77	26.55	3.07
Agriculture	2.8%	4.8%	2%	7.3%
Developed	4.2%	11.2%	3.9%	9.9%
Natural	88.2%	79.4%	85.3%	72.9%
Wetland	4.8%	4.6%	8.8%	9.9%
Impervious	1.7%	4.3%	1.6%	3.7%

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

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Combined Biota/Habitat Bioassessments	Source Unknown (N)	X	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Escherichia Coli (E. Coli)	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	--	--	--	X	--
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	--
Temperature	Dam or Impoundment (Y)	X	--	--	--	--
Temperature	Source Unknown (N)	X	--	--	--	--

Supporting Information for Removed Impairments

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Little River (MA32-36) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Little River (MA32-36) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for the Little River (MA32-36) are available, so the Primary Contact Recreation Use continues to be assessed as Not Supporting. The prior <i>Escherichia coli</i> (<i>E. coli</i>) impairment is being carried forward.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for the Little River (MA32-36) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in the Little River (MA32-36) at W1462 [NW Rd bridge, Westfield] from May-Oct 2006 (n=5). Historic <i>E. coli</i> data from W1462 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1462	MassDEP	Water Quality	Little River	[Northwest Road bridge, Westfield]	42.130364	-72.822661

Bacteria Data

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

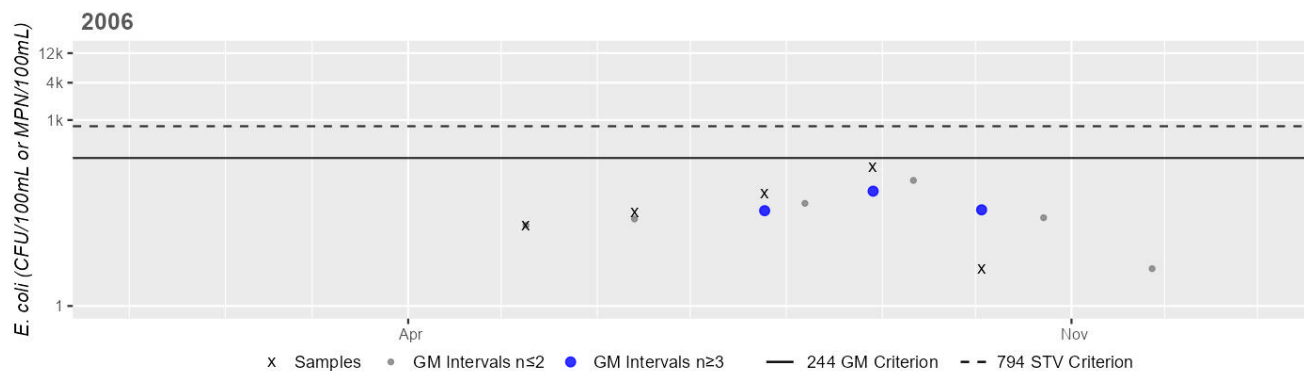
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1462	MassDEP	E. coli	05/09/06	10/03/06	5	4	176	31

Station MASSDEP_W1462 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	31
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Historic (1997-2010)

0%

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

Littleville Lake (MA32046)

Location:	Chester/Huntington.
AU Type:	FRESHWATER LAKE
AU Size:	252 ACRES
Classification/Qualifier:	A: PWS, ORW

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

Recommendations

2024/26 Recommendations
2024/2026 IR [Harmful Algal Blooms, Medium] Follow-up monitoring should be conducted in Littleville Lake (MA32046) to determine if Harmful Algal Blooms may be impairing the Recreational and Aesthetic uses. Monitoring should include observational data and collection of cyanobacteria cell count data, as well as continued reporting of algal blooms to MDPH.

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Littleville Lake (MA32046) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Insufficient Information	YES

2024/26 Use Attainment Summary

Too limited data are available to evaluate the Aesthetics Use of Littleville Lake (MA32046) so it is assessed as having Insufficient Information. The Alert previously identified for Harmful Algal Blooms (due to a bloom of >15 days duration reported to MDPH in 2015) will be carried forward. During the period 2015 through 2022, C-HAB postings for Littleville Lake were reported to MDPH based on visual observations for 33 days in 2015 and no blooms were reported in other years. Since no extended blooms (>20 days in duration) based on cell count data were reported in recent years, an impairment decision will not be made at this time based on C-HAB postings. However, an Alert is being identified for Harmful Algal Blooms and a recommendation for follow-up sampling will be made. There are no other data available to assess the status of the Aesthetics Use for Littleville Lake AU.

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 1)

C-HAB Summary Statement
During the period 2015 through 2022, C-HAB postings for Littleville Lake (MA32046) were reported to MDPH based on visual observations for 33 days in 2015. No blooms were reported in other years. Since no extended blooms (>20 days in duration) based on cell count data were reported in recent years, an impairment decision will not be made at this time based on C-HAB postings. However, an Alert is being identified for C-HABs in this waterbody and a recommendation for follow-up sampling will be made.

Cyanobacteria Harmful Algal Bloom (C-HAB) Data (2015-2022) Provided by MDPH (Bailey, Logan April 26, 2023) (MassDEP Undated 1)

		Posting Days 2015	Posting Days 2016	Posting Days 2017	Posting Days 2018	Posting Days 2019	Posting Days 2020	Posting Days 2021	Posting Days 2022
DEP Waterbody (DPH Waterbody)	DPH Town								
Littleville Lake (Littleville Pond)	Chester/Huntington	33							

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	YES
2024/26 Use Attainment Summary	

No bacteria data are available to assess the Primary Contact Recreation Use for Littleville Lake (MA32046) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information. An Alert is being identified for Harmful Algal Bloom and additional sampling is recommended for this AU. During the period 2015 through 2022, C-HAB postings for Littleville Lake (MA32046) were reported to MDPH based on visual observations for 33 days in 2015. No blooms were reported in other years. Since no extended blooms (>20 days in duration) based on cell count data were reported in recent years, an impairment decision will not be made at this time based on C-HAB postings. However, a Harmful Algal Bloom Alert is being identified for this waterbody and a recommendation for follow-up sampling will be made.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	YES

2024/26 Use Attainment Summary

No bacteria data are available to assess the Secondary Contact Recreation Use for Littleville Lake (MA32046) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information. An Alert is being identified for Harmful Algal Bloom and additional sampling is recommended for this AU. During the period 2015 through 2022, C-HAB postings for Littleville Lake (MA32046) were reported to MDPH based on visual observations for 33 days in 2015. No blooms were reported in other years. Since no extended blooms (>20 days in duration) based on cell count data were reported in recent years, an impairment decision will not be made at this time based on C-HAB postings. However, a Harmful Algal Bloom Alert is being identified for this waterbody and a recommendation for follow-up sampling will be made.

McLean Reservoir (MA32050)

Location:	Holyoke.
AU Type:	FRESHWATER LAKE
AU Size:	55 ACRES
Classification/Qualifier:	A: PWS, ORW

No usable data were available for McLean Reservoir (MA32050) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

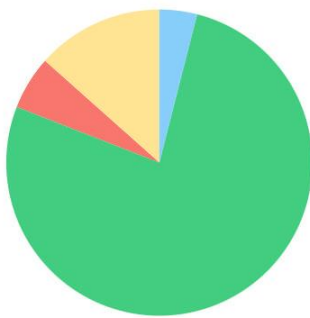
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Meadow Brook (MA32-11)

Location:	Headwaters, outlet unnamed pond south of Route 116, Plainfield to mouth at confluence with Westfield River, Cummington.
AU Type:	RIVER
AU Size:	4.6 MILES
Classification/Qualifier:	B

Meadow Brook (MA32-11)

Watershed Area: 4.16 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	4.16	2.89	1.10	0.83
Agriculture	13.4%	11.7%	7.5%	9.1%
Developed	5.7%	6.4%	4.3%	4.9%
Natural	76.9%	78.1%	80.6%	79.5%
Wetland	4%	3.7%	7.6%	6.5%
Impervious	2.3%	2.5%	1.7%	2%

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Meadow Brook (MA32-11) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
There are no data available to assess the status of the Aesthetics Use for this Meadow Brook AU (MA32-11), 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 Meadow Brook (MA32-11) 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 Meadow Brook (MA32-11) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in Meadow Brook (MA32-11) at W1466 [~500 ft downstream from Nash Rd, Cummington] from May-Oct 2006 (n=5). Historic <i>E. coli</i> data from W1466 are inconclusive according to the 2024 CALM to assess the Secondary Contact Recreation Use because this single year, limited frequency dataset included both GMs below the threshold and STV exceedance of the threshold. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1466	MassDEP	Water Quality	Meadow Brook	[approximately 500 feet downstream from Nash Road, Cummington]	42.462270	-72.889180

Bacteria Data

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

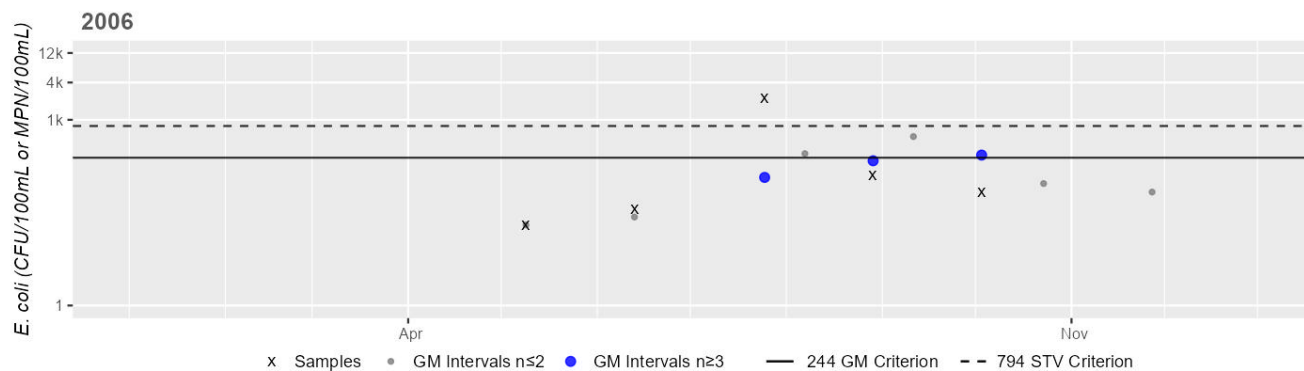
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1466	MassDEP	E. coli	05/09/06	10/03/06	5	20	2240	107

Station MASSDEP_W1466 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	107
#GMI	3
#GMI Ex	1
%GMI Ex	33%
n>STV	1
%n>STV	20%

Cumulative %GMI Exceedance

Historic (1997-2010)

33%

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

Mica Mill Brook (MA32-78)

Location:	Headwaters, west of Mica Mill Road, Chester to mouth at confluence with West Branch Westfield River, Chester.
AU Type:	RIVER
AU Size:	1.6 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Mica Mill Brook (MA32-78) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

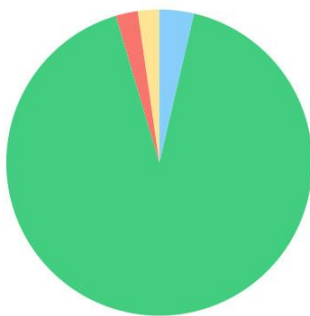
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Middle Branch Westfield River (MA32-03)

Location:	Outlet Littleville Dam, Chester/Huntington to mouth at confluence with Westfield River, Huntington.
AU Type:	RIVER
AU Size:	1.1 MILES
Classification/Qualifier:	B: WWF, HQW

Middle Branch Westfield River (MA32-03)

Watershed Area: 52.86 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	52.86	4.42	12.23	1.27
Agriculture	2.3%	2.5%	2.5%	1.3%
Developed	2.3%	2.7%	3%	4.4%
Natural	91.8%	91.8%	88.3%	88%
Wetland	3.6%	3%	6.2%	6.3%
Impervious	1%	0.9%	1.4%	1.3%

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Middle Branch Westfield River (MA32-03) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Middle Branch Westfield River (MA32-03) is assessed as Fully Supporting based on the lack of aesthetically objectionable conditions in summer 2012. MassDEP staff recorded aesthetics observations for this Middle Branch Westfield River AU in Huntington ~2000 feet upstream of Goss Hill Road (W2270). There were generally no noted objectionable conditions (odors, deposits, growths, or turbidity) recorded by DEP sampling crews during summer 2012 (n=6).

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2270	MassDEP	Water Quality	Middle Branch Westfield River	[approximately 2000 feet upstream of Goss Hill Road, Huntington]	42.260688	-72.878683

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
W2270	2012	6	Aesthetic observations were made by MassDEP field sampling crews at Station W2270 on Middle Branch Westfield River (MA32-03) 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
W2270	2012	6	5	0

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

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2270	Middle Branch Westfield River	2012	Aquatic Plant Density, Overall	None	4	6
W2270	Middle Branch Westfield River	2012	Aquatic Plant Density, Overall	NR	1	6
W2270	Middle Branch Westfield River	2012	Aquatic Plant Density, Overall	Sparse	1	6
W2270	Middle Branch Westfield River	2012	Color	Light Yellow/Tan	1	6
W2270	Middle Branch Westfield River	2012	Color	None	5	6
W2270	Middle Branch Westfield River	2012	Objectionable Deposits	No	6	6
W2270	Middle Branch Westfield River	2012	Odor	None	6	6
W2270	Middle Branch Westfield River	2012	Periphyton Density, Filamentous	None	3	6
W2270	Middle Branch Westfield River	2012	Periphyton Density, Filamentous	Sparse	2	6
W2270	Middle Branch Westfield River	2012	Periphyton Density, Filamentous	Unobservable	1	6
W2270	Middle Branch Westfield River	2012	Periphyton Density, Film	Moderate	2	6
W2270	Middle Branch Westfield River	2012	Periphyton Density, Film	None	2	6
W2270	Middle Branch Westfield River	2012	Periphyton Density, Film	Sparse	1	6
W2270	Middle Branch Westfield River	2012	Periphyton Density, Film	Unobservable	1	6
W2270	Middle Branch Westfield River	2012	Scum	No	6	6
W2270	Middle Branch Westfield River	2012	Turbidity	None	6	6

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO
2024/26 Use Attainment Summary	

The Primary Contact Recreation Use for the Middle Branch Westfield River (MA32-03) continues to be assessed as Fully Supporting. MassDEP staff collected *E. coli* bacteria samples in the Middle Branch Westfield River (MA32-03) at W2270 [~2000 ft upstream of Goss Hill Rd, Huntington] from May-Sep 2012 (n=6). *E. coli* data from W2270 meet 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2270	MassDEP	Water Quality	Middle Branch Westfield River	[approximately 2000 feet upstream of Goss Hill Road, Huntington]	42.260688	-72.878683

Bacteria Data

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

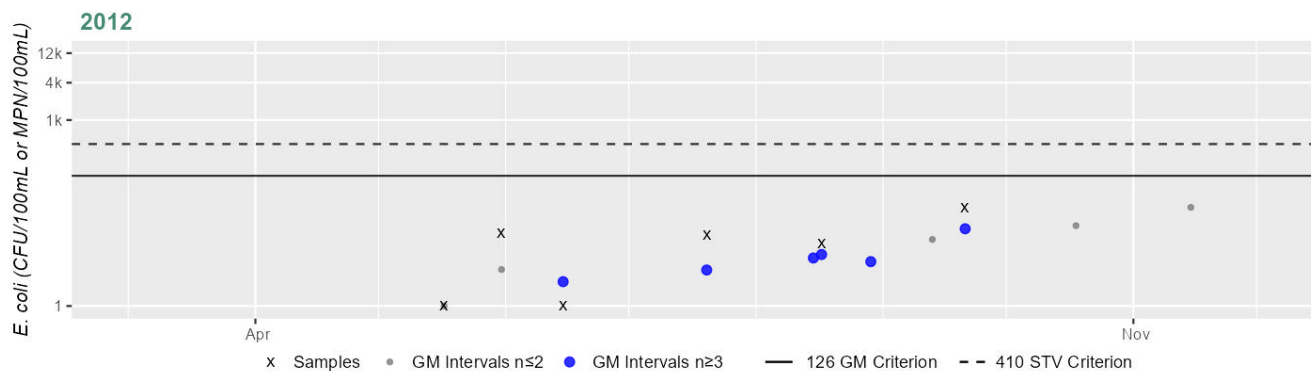
(MassDEP Undated 6) (MassDEP Undated 4)

[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
W2270	MassDEP	E. coli	05/16/12	09/20/12	6	1	39	6

Station MASSDEP_W2270 - *Escherichia coli*

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



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

Cumulative %GMI Exceedance

Current (2011-2022)

0%

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

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
<p>The Secondary Contact Recreation Use for the Middle Branch Westfield River (MA32-03) continues to be assessed as Fully Supporting. MassDEP staff collected <i>E. coli</i> bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in the Middle Branch Westfield River (MA32-03) from 2006-2012 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: W2270 [~2000 ft upstream of Goss Hill Rd, Huntington] from May-Sep 2012 (n=6), W0264 [Goss Hill Rd bridge, Huntington] from May-Oct 2006 (n=5). <i>E. coli</i> data from W2270 meet 2024 CALM guidance.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0264	MassDEP	Water Quality	Middle Branch Westfield River	[Goss Hill Road bridge, Huntington]	42.258769	-72.872402
W2270	MassDEP	Water Quality	Middle Branch Westfield River	[approximately 2000 feet upstream of Goss Hill Road, Huntington]	42.260688	-72.878683

Bacteria Data

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

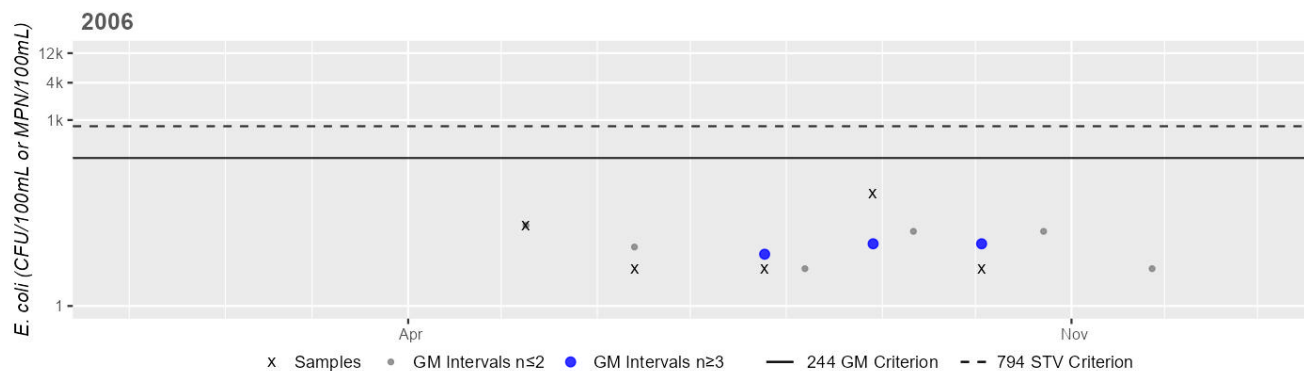
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W0264	MassDEP	E. coli	05/09/06	10/03/06	5	4	64	9
W2270	MassDEP	E. coli	05/16/12	09/20/12	6	1	39	6

Station MASSDEP_W0264 - *Escherichia coli*

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



Variable*	Result
Samples	5
SeasGM	9
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

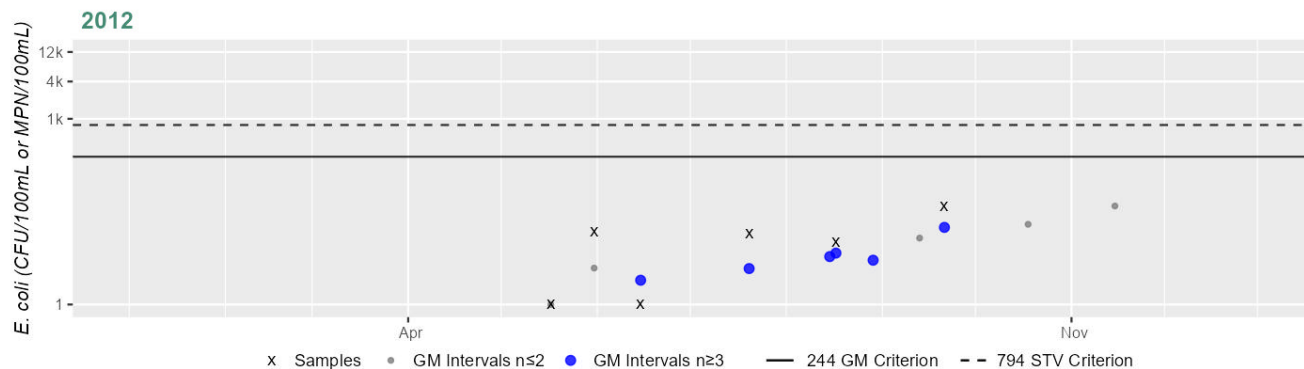
Historic (1997-2010)

0%

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

Station MASSDEP_W2270 - *Escherichia coli*

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



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

Cumulative %GMI Exceedance

Current (2011-2022)

0%

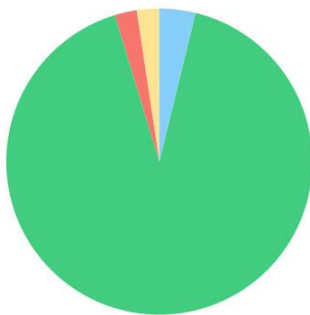
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes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

Middle Branch Westfield River (MA32-65)

Location:	Source in Peru State Wildlife Management Area, north of Pierce Road, Peru to Kinnebrook Road, Dayville (locality in Chester) (formerly part of 2014 segment: Middle Branch Westfield River MA32-02).
AU Type:	RIVER
AU Size:	13.7 MILES
Classification/Qualifier:	A: PWS, ORW, CWF (PWS and Tributary to PWS)

Middle Branch Westfield River (MA32-65)

Watershed Area: 48.16 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	48.16	9.79	10.99	2.05
Agriculture	2.4%	2.7%	2.7%	2.3%
Developed	2.3%	2.2%	2.8%	3.3%
Natural	91.5%	91.1%	88.2%	87.6%
Wetland	3.8%	3.9%	6.3%	6.8%
Impervious	1%	1.1%	1.4%	1.6%

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

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Middle Branch Westfield River (MA32-65) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Middle Branch Westfield River (MA32-65) is assessed as Fully Supporting based on the lack of objectionable conditions during site visits conducted in summers 2012, 2015, 2017 and 2019. MassDEP staff recorded aesthetics observations at four stations throughout this Middle Branch Westfield River AU from up to downstream as follows: close to the upstream end of the AU at Parish Road, Worthington (W2908 in 2019, n=4); about a quarter of the way downstream the AU ~200 feet downstream of River Rd in Worthington (W2262 in 2012, n=6), about halfway down the AU ~1000 feet upstream/north of Bailey Rd in Chester (W2545 in 2015, n=4), and about three-quarters of the way down the AU ~550 feet downstream of Smith Road in Chester (W2719 in 2017, n=5). There were generally no noted objectionable conditions (odors, deposits, growths, or turbidity) recorded at any of the stations.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2262	MassDEP	Water Quality	Middle Branch Westfield River	[approximately 200 feet downstream of River Road, Worthington]	42.402270	-72.979591
W2545	MassDEP	Water Quality	Middle Branch Westfield River	[approximately 1000 feet upstream/north of Bailey Road, Chester]	42.343768	-72.953342
W2719	MassDEP	Water Quality	Middle Branch Westfield River	[approximately 550 feet downstream of Smith Road, Chester]	42.322853	-72.926200

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
W2262	2012	6	Aesthetic observations were made by MassDEP field sampling crews at Station W2262 on Middle Branch Westfield River (MA32-65) during 6 site visits between May 2012 and Sep 2012. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2545	2015	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2545 on Middle Branch Westfield River (MA32-65) during 4 site visits between May 2015 and Aug 2015. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2719	2017	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2719 on Middle Branch Westfield River (MA32-65) 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
W2262	2012	6	6	2
W2545	2015	4	4	1
W2719	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
W2262	Middle Branch Westfield River	2012	Aquatic Plant Density, Overall	None	6	6
W2262	Middle Branch Westfield River	2012	Color	Light Yellow/Tan	2	6
W2262	Middle Branch Westfield River	2012	Color	None	4	6
W2262	Middle Branch Westfield River	2012	Objectionable Deposits	No	6	6
W2262	Middle Branch Westfield River	2012	Odor	None	6	6
W2262	Middle Branch Westfield River	2012	Periphyton Density, Filamentous	None	6	6
W2262	Middle Branch Westfield River	2012	Periphyton Density, Film	Dense	2	6
W2262	Middle Branch Westfield River	2012	Periphyton Density, Film	None	4	6
W2262	Middle Branch Westfield River	2012	Scum	No	6	6

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2262	Middle Branch Westfield River	2012	Turbidity	None	6	6
W2545	Middle Branch Westfield River	2015	Aesthetics Impaired?	No	4	4
W2545	Middle Branch Westfield River	2015	Aquatic Plant Density, Overall	None	4	4
W2545	Middle Branch Westfield River	2015	Color	None	4	4
W2545	Middle Branch Westfield River	2015	Objectionable Deposits	No	4	4
W2545	Middle Branch Westfield River	2015	Odor	None	4	4
W2545	Middle Branch Westfield River	2015	Periphyton Density, Filamentous	None	3	4
W2545	Middle Branch Westfield River	2015	Periphyton Density, Filamentous	Sparse	1	4
W2545	Middle Branch Westfield River	2015	Periphyton Density, Film	Dense	1	4
W2545	Middle Branch Westfield River	2015	Periphyton Density, Film	Moderate	1	4
W2545	Middle Branch Westfield River	2015	Periphyton Density, Film	None	1	4
W2545	Middle Branch Westfield River	2015	Periphyton Density, Film	Sparse	1	4
W2545	Middle Branch Westfield River	2015	Scum	No	4	4
W2545	Middle Branch Westfield River	2015	Turbidity	None	4	4
W2719	Middle Branch Westfield River	2017	Aesthetics Impaired?	No	5	5
W2719	Middle Branch Westfield River	2017	Aquatic Plant Density, Overall	None	5	5
W2719	Middle Branch Westfield River	2017	Color	Light Yellow/Tan	1	5
W2719	Middle Branch Westfield River	2017	Color	None	4	5
W2719	Middle Branch Westfield River	2017	Objectionable Deposits	No	5	5
W2719	Middle Branch Westfield River	2017	Odor	None	5	5
W2719	Middle Branch Westfield River	2017	Periphyton Density, Filamentous	None	5	5
W2719	Middle Branch Westfield River	2017	Periphyton Density, Film	Moderate	1	5

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2719	Middle Branch Westfield River	2017	Periphyton Density, Film	None	2	5
W2719	Middle Branch Westfield River	2017	Periphyton Density, Film	Sparse	2	5
W2719	Middle Branch Westfield River	2017	Scum	No	5	5
W2719	Middle Branch Westfield River	2017	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 the Middle Branch Westfield River (MA32-65) continues to be assessed as Fully Supporting. MassDEP staff collected <i>E. coli</i> bacteria samples in the Middle Branch Westfield River (MA32-65) at W2262 [~200 ft downstream of River Rd, Worthington] from May-Sep 2012 (n=6). <i>E. coli</i> data from W2262 meet 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2262	MassDEP	Water Quality	Middle Branch Westfield River	[approximately 200 feet downstream of River Road, Worthington]	42.402270	-72.979591

Bacteria Data

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

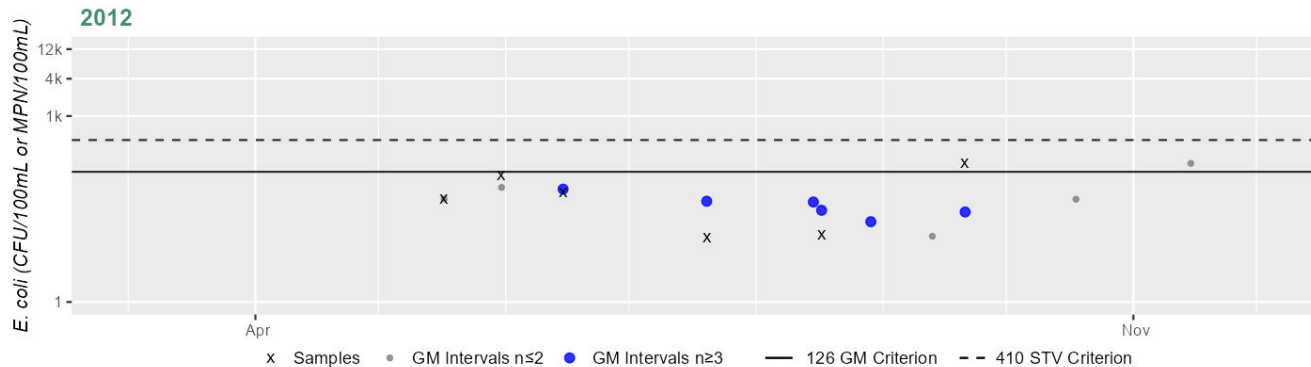
(MassDEP Undated 6) (MassDEP Undated 4)

[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
W2262	MassDEP	E. coli	05/16/12	09/20/12	6	11	172	43

Station MASSDEP_W2262 - *Escherichia coli*

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



Variable*	Result
Samples	6
SeasGM	43
#GMI	6
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

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

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for the Middle Branch Westfield River (MA32-65) continues to be assessed as Fully Supporting. MassDEP staff collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in the Middle Branch Westfield River (MA32-65) from 2006-2012 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: W2262 [~200 ft downstream of River Rd, Worthington] from May-Sep 2012 (n=6), W0263 [Kinne Brook Rd bridge, Chester] from May-Oct 2006 (n=5). *E. coli* data from W2262 meet 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0263	MassDEP	Water Quality	Middle Branch Westfield River	[Kinne Brook Road bridge, Chester]	42.301926	-72.904658

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2262	MassDEP	Water Quality	Middle Branch Westfield River	[approximately 200 feet downstream of River Road, Worthington]	42.402270	-72.979591

Bacteria Data

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

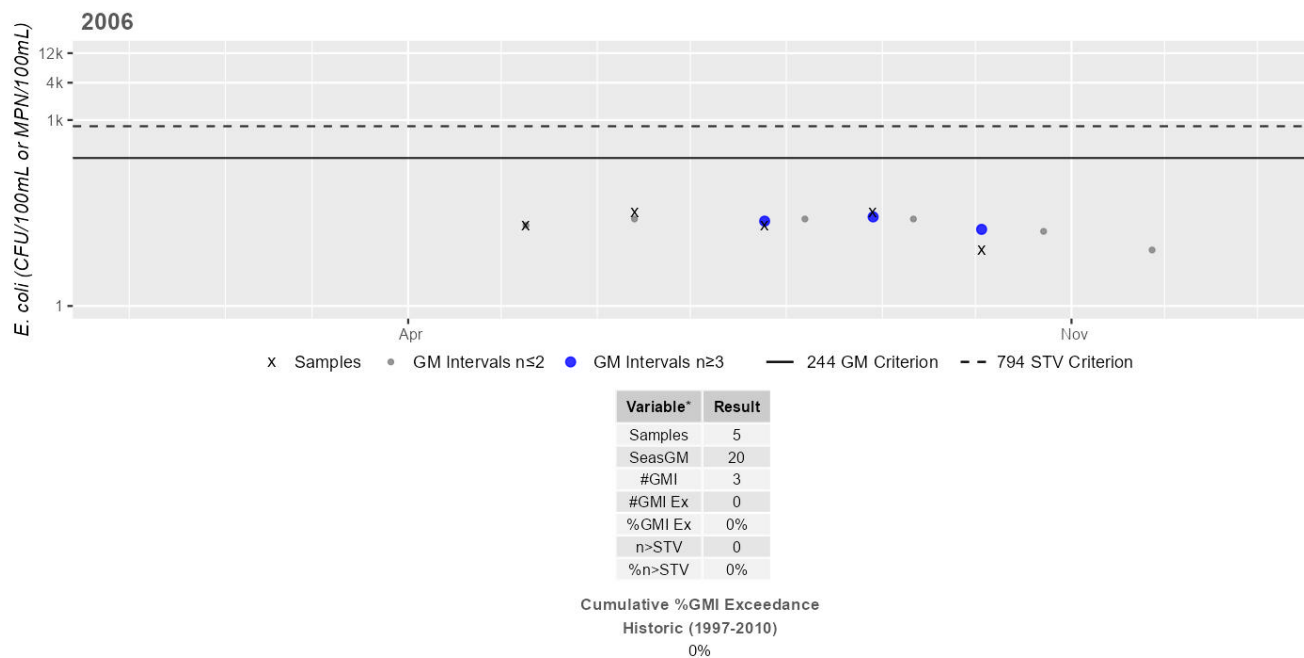
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W0263	MassDEP	E. coli	05/09/06	10/03/06	5	8	32	20
W2262	MassDEP	E. coli	05/16/12	09/20/12	6	11	172	43

Station MASSDEP_W0263 - Escherichia coli

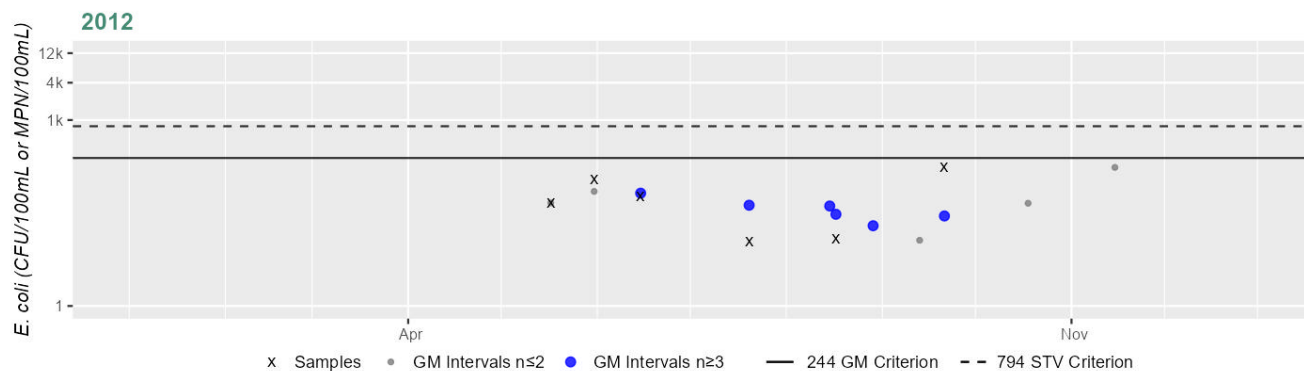
Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



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

Station MASSDEP_W2262 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	43
#GMI	6
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

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

Middle Branch Westfield River (MA32-66)

Location:	From Kinnebrook Road, Dayville (locality in Chester) to inlet of Littleville Lake, just upstream from boat ramp (off southern end of Kinnebrook Road), Chester (formerly part of 2014 segment: Middle Branch Westfield River MA32-02).
AU Type:	RIVER
AU Size:	0.6 MILES
Classification/Qualifier:	A: PWS, ORW (PWS and Tributary to PWS)

No usable data were available for Middle Branch Westfield River (MA32-66) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Mill Brook (MA32-49)

Location:	Headwaters, south of Hawley Street, Plainfield to mouth at confluence with Westfield River, Cummington.
AU Type:	RIVER
AU Size:	6 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Mill Brook (MA32-49) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

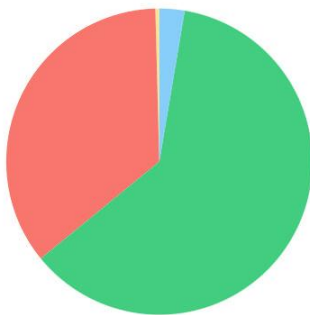
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Miller Brook (MA32-27)

Location:	Source, outlet small unnamed pond in Robinson State Park, north of North Street, Agawam to mouth at confluence with Westfield River, Agawam.
AU Type:	RIVER
AU Size:	0.6 MILES
Classification/Qualifier:	B: CWF

Miller Brook (MA32-27)

Watershed Area: 0.50 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	0.50	0.50	0.12	0.12
Agriculture	0.4%	0.4%	0%	0%
Developed	35.5%	35.5%	5.8%	5.8%
Natural	61.4%	61.4%	90.5%	90.5%
Wetland	2.7%	2.7%	3.7%	3.7%
Impervious	14.1%	14.1%	3.8%	3.8%

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

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Escherichia Coli (E. Coli)	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	--	--	--	X	--
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	--

Supporting Information for Removed Impairments

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Miller Brook (MA32-27) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
There are no data available to assess the status of the Aesthetics Use for this Miller Brook AU (MA32-27), so it is Not Assessed.	

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO
2024/26 Use Attainment Summary	
No bacteria or other indicator data for Miller Brook (MA32-27) are available, so the Primary Contact Recreation Use continues to be assessed as Not Supporting. The prior <i>Escherichia coli</i> (<i>E. coli</i>) impairment is being carried forward.	

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary

No bacteria or other indicator data for Miller Brook (MA32-27) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected *E. coli* bacteria samples in Miller Brook (MA32-27) at W0228 [Robinson State Park entrance Rd bridge, Agawam] from May-Oct 2006 (n=5). Historic *E. coli* data from W0228 are inconclusive according to the 2024 CALM to assess the Secondary Contact Recreation Use because this single year, limited frequency dataset included both GMs below the threshold and STV exceedance of the threshold. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0228	MassDEP	Water Quality	Miller Brook	[Robinson State Park entrance road bridge, Agawam]	42.084009	-72.669901

Bacteria Data

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

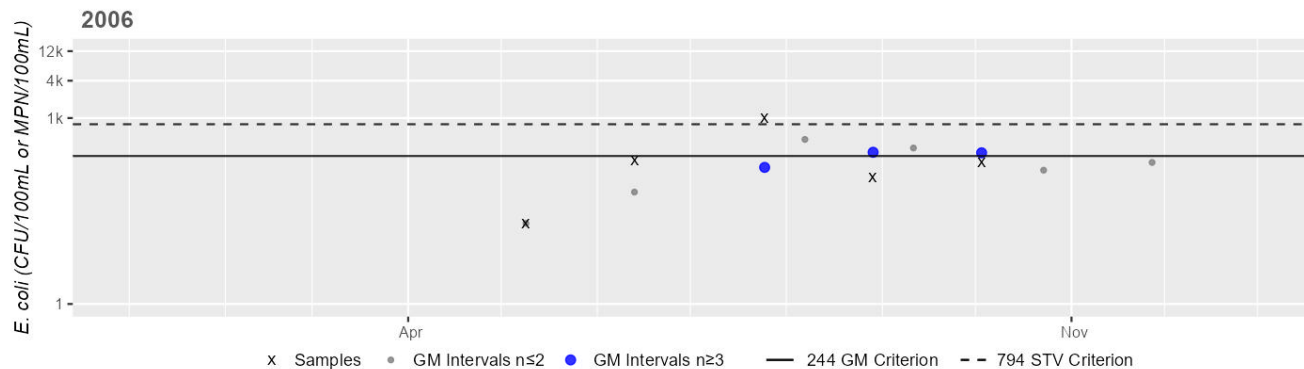
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W0228	MassDEP	E. coli	05/09/06	10/03/06	5	20	1000	153

Station MASSDEP_W0228 - *Escherichia coli*

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



Variable*	Result
Samples	5
SeasGM	153
#GMI	3
#GMI Ex	2
%GMI Ex	66%
n>STV	1
%n>STV	20%

Cumulative %GMI Exceedance

Historic (1997-2010)

66%

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

Mongue Meadow Brook (MA32-79)

Location:	Headwaters, south of East Windsor Road, Windsor to mouth at confluence with Alder Meadow Brook, Windsor
AU Type:	RIVER
AU Size:	1.4 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Mongue Meadow Brook (MA32-79) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Moose Meadow Brook (MA32-40)

Location:	Headwaters, west of Bungay Mountain, east of New State Road, Montgomery to inlet Westfield Reservoir, Montgomery (formerly part of 2014 segment: Moose Meadow Brook MA32-23).
AU Type:	RIVER
AU Size:	2.9 MILES
Classification/Qualifier:	B

No usable data were available for Moose Meadow Brook (MA32-40) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

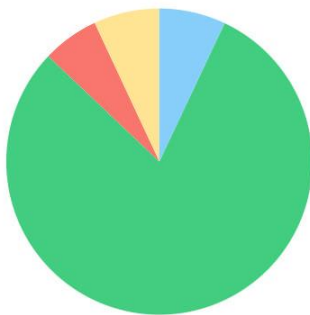
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Moose Meadow Brook (MA32-41)

Location:	Outlet Westfield Reservoir to mouth at confluence with Westfield River, Westfield (formerly part of 2014 segment: Moose Meadow Brook MA32-23).
AU Type:	RIVER
AU Size:	4.8 MILES
Classification/Qualifier:	B

Moose Meadow Brook (MA32-41)

Watershed Area: 8.15 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	8.15	4.23	3.88	1.61
Agriculture	7%	11.8%	6.2%	13.8%
Developed	6%	8.4%	5.5%	9.3%
Natural	80.1%	74.5%	76.8%	69.6%
Wetland	7%	5.3%	11.5%	7.4%
Impervious	2.1%	2.6%	2%	3%

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

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Escherichia Coli (E. Coli)	Agriculture (N)	--	--	--	X	X
Escherichia Coli (E. Coli)	Livestock (Grazing or Feeding Operations) (N)	--	--	--	X	X
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	X
Fecal Coliform	Agriculture (N)	--	--	--	X	X

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Fecal Coliform	Livestock (Grazing or Feeding Operations) (N)	--	--	--	X	X
Fecal Coliform	Source Unknown (N)	--	--	--	X	X

Supporting Information for Removed Impairments

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Moose Meadow Brook (MA32-41) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetic Use for Moose Meadow Brook (MA32-41) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Moose Meadow Brook (MA32-41) are available, so the Primary Contact Recreation Use continues to be assessed as Not Supporting. The prior <i>Escherichia coli</i> (<i>E. coli</i>) and Fecal Coliform impairments are being carried forward.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Moose Meadow Brook (MA32-41) continues to be assessed as Not Supporting. The prior <i>Escherichia coli</i> (<i>E. coli</i>) impairment is being carried forward based on bacteria data not meeting the threshold at W0812. The prior Fecal Coliform impairment is being carried forward. MassDEP staff collected <i>E. coli</i> bacteria samples in Moose Meadow Brook (MA32-41) from 2001-2006 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: W0809 [~250 ft downstream of Tekoa Reservoir, Montgomery] from Aug-Oct 2001 (n=4), W0812 [bridge on private farm Rd, access off Pochassic Rd (downstream of powerlines), Westfield] in 2001 and 2006 (n=4-5/yr). Analysis of this historic single year limited frequency <i>E. coli</i> dataset from W0809 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 3 CFU/100ml. Analysis of this historic multi-year limited frequency <i>E. coli</i> dataset from W0812 indicated 2 out of 2 sufficient data yrs had intervals where >20% of the GMs were >244 CFU/100ml (2001 and 2006, 100 & 100%), 2 yrs had ≥2 samples exceed the 794 CFU/100ml STV (2001 and 2006, n=3 & 3), and cumulatively across years 100% of intervals had GMs >244 CFU/100ml. While Historic <i>E. coli</i> data from W0809 meet 2024 CALM guidance, Historic <i>E. coli</i> data from W0812 are indicative of an <i>E. coli</i> impairment.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0809	MassDEP	Water Quality	Moose Meadow Brook	[approximately 250 feet downstream of Tekoa Reservoir, Montgomery]	42.160623	-72.806412
W0812	MassDEP	Water Quality	Moose Meadow Brook	[bridge on private farm road, access off Pochassic Road (downstream of powerlines), Westfield]	42.141525	-72.788882

Bacteria Data

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

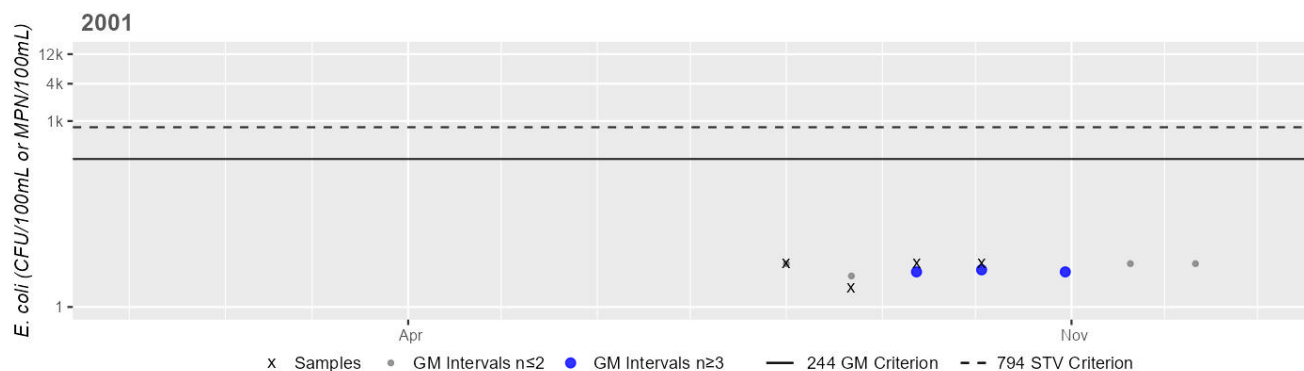
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W0809	MassDEP	E. coli	08/01/01	10/03/01	4	2	5	3
W0812	MassDEP	E. coli	08/01/01	10/03/01	4	300	5000	1377
W0812	MassDEP	E. coli	05/09/06	10/03/06	5	440	2760	1261

Station MASSDEP_W0809 - Escherichia coli

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



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

Cumulative %GMI Exceedance

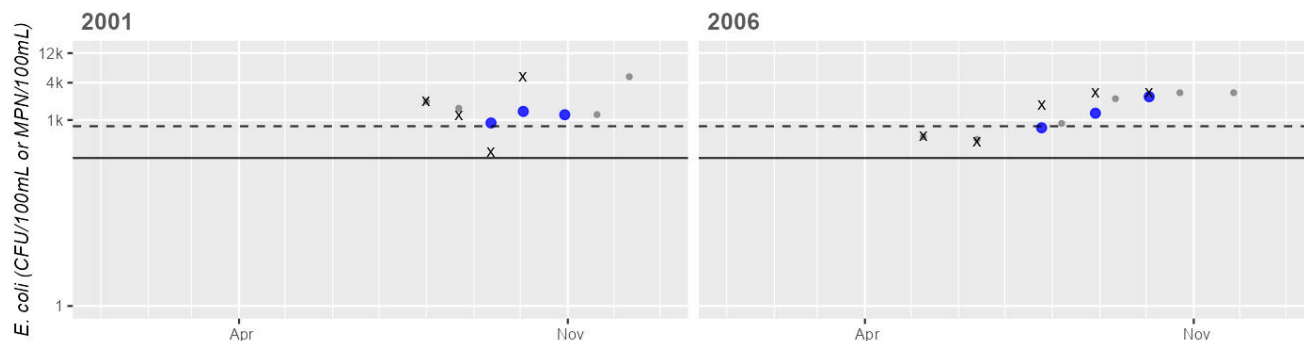
Historic (1997-2010)

0%

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

Station MASSDEP_W0812 - Escherichia coli

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



x Samples • GM Intervals $n \leq 2$ • GM Intervals $n \geq 3$ — 244 GM Criterion - - 794 STV Criterion

Variable*	Result
Samples	4
SeasGM	1377
#GMI	3
#GMI Ex	3
%GMI Ex	100%
n>STV	3
%n>STV	75%

Variable*	Result
Samples	5
SeasGM	1261
#GMI	3
#GMI Ex	3
%GMI Ex	100%
n>STV	3
%n>STV	60%

Cumulative %GMI Exceedance
Historic (1997-2010)
100%

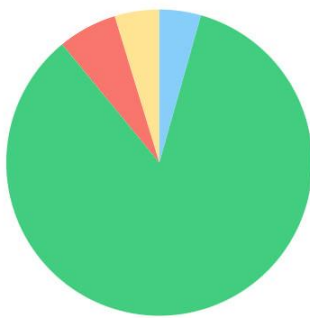
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes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

Munn Brook (MA32-59)

Location:	Headwaters, outlet Winchell Reservoir, Granville to mouth at confluence with Little River, Westfield.
AU Type:	RIVER
AU Size:	5.5 MILES
Classification/Qualifier:	B: CWF

Munn Brook (MA32-59)

Watershed Area: 22.27 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	22.27	5.90	7.64	1.68
Agriculture	4.7%	4.8%	4.2%	8.5%
Developed	6.2%	8.1%	6.6%	8.5%
Natural	84.7%	82%	81.2%	71.6%
Wetland	4.4%	5.2%	8%	11.4%
Impervious	2.5%	3.2%	2.8%	3.5%

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

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Escherichia Coli (E. Coli)	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	--	--	--	X	X
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	X

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Munn Brook (MA32-59) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Munn Brook (MA32-59) is assessed as Fully Supporting based on the general lack of objectionable conditions observed by MassDEP staff during the summer of 2012. MassDEP staff recorded aesthetics observations for one station halfway down this Munn Brook AU ~550 feet upstream of Loomis Street, Westfield (W2264) in summer 2012 (n=6). There were generally no noted objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2264	MassDEP	Water Quality	Munn Brook	[approximately 550 feet upstream of Loomis Street, Westfield]	42.099769	-72.808644

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
W2264	2012	6	Aesthetic observations were made by MassDEP field sampling crews at Station W2264 on Munn Brook (MA32-59) 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
W2264	2012	6	5	0

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

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2264	Munn Brook	2012	Aquatic Plant Density, Overall	None	6	6
W2264	Munn Brook	2012	Color	Light Yellow/Tan	3	6
W2264	Munn Brook	2012	Color	None	3	6
W2264	Munn Brook	2012	Objectionable Deposits	No	6	6
W2264	Munn Brook	2012	Odor	None	6	6
W2264	Munn Brook	2012	Periphyton Density, Filamentous	None	5	6
W2264	Munn Brook	2012	Periphyton Density, Filamentous	NR	1	6
W2264	Munn Brook	2012	Periphyton Density, Film	None	5	6
W2264	Munn Brook	2012	Periphyton Density, Film	NR	1	6
W2264	Munn Brook	2012	Scum	No	6	6
W2264	Munn Brook	2012	Turbidity	None	5	6
W2264	Munn Brook	2012	Turbidity	Slightly Turbid	1	6

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Munn Brook (MA32-59) continues to be assessed as Not Supporting. The prior *Escherichia coli* (*E. coli*) impairment is being carried forward based on bacteria data not meeting the threshold at W2264. MassDEP staff collected *E. coli* bacteria samples in Munn Brook (MA32-59) at W2264 [~550 ft upstream of Loomis St, Westfield] from May-Sep 2012 (n=6). Analysis of the single year limited frequency *E. coli* dataset from W2264 indicated 100% of intervals had GMs >126 CFU/100ml, 3 samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 566 CFU/100ml. *E. coli* data from W2264 are indicative of an *E. coli* impairment.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2264	MassDEP	Water Quality	Munn Brook	[approximately 550 feet upstream of Loomis Street, Westfield]	42.099769	-72.808644

Bacteria Data

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

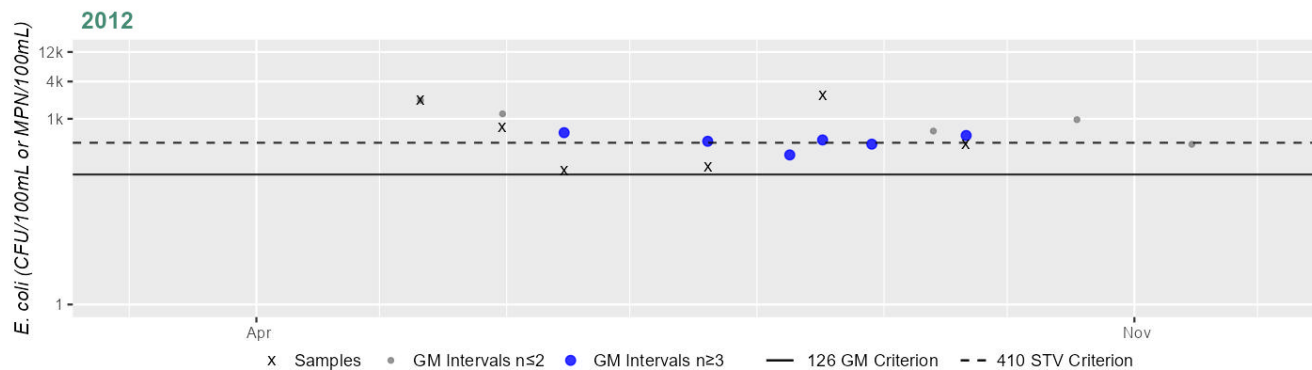
(MassDEP Undated 6) (MassDEP Undated 4)

[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
W2264	MassDEP	E. coli	05/10/12	09/20/12	6	147	2420	566

Station MASSDEP_W2264 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	566
#GMI	6
#GMI Ex	6
%GMI Ex	100%
n>STV	3
%n>STV	50%

Cumulative %GMI Exceedance

Current (2011-2022)

100%

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

Secondary Contact Recreation

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

The Secondary Contact Recreation Use for Munn Brook (MA32-59) is assessed as Not Supporting. An *Escherichia coli* (*E. coli*) impairment is being added based on a re-evaluation of bacteria data not meeting the threshold at W2264 and the prior Alert is being removed. MassDEP staff collected *E. coli* bacteria samples in Munn Brook (MA32-59) at W2264 [~550 ft upstream of Loomis St, Westfield] from May-Sep 2012 (n=6). Analysis of the single year limited frequency *E. coli* dataset from W2264 indicated 100% of intervals had GMs >244 CFU/100ml, 2 samples exceeded the 794 CFU/100ml STV, and the overall GM was 566 CFU/100ml. *E. coli* data from W2264 are indicative of an *E. coli* impairment.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2264	MassDEP	Water Quality	Munn Brook	[approximately 550 feet upstream of Loomis Street, Westfield]	42.099769	-72.808644

Bacteria Data

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

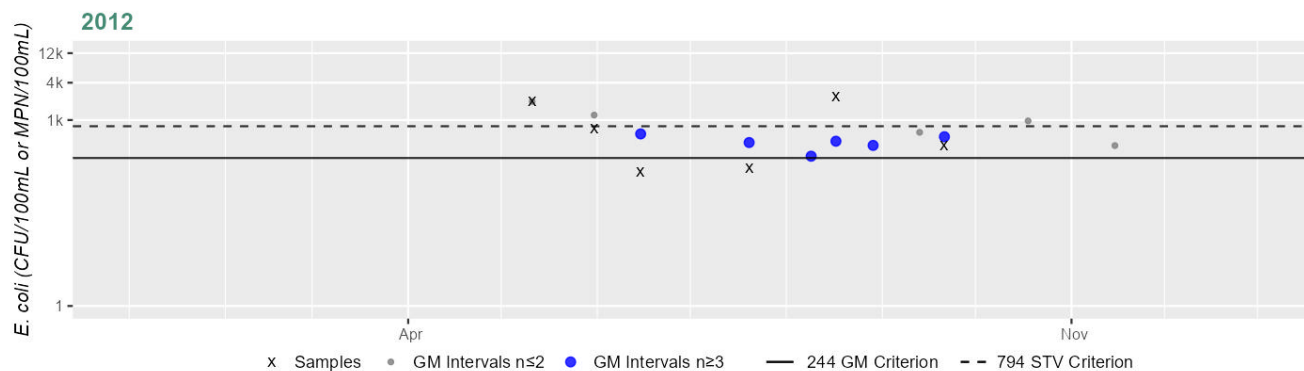
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W2264	MassDEP	E. coli	05/10/12	09/20/12	6	147	2420	566

Station MASSDEP_W2264 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	566
#GMI	6
#GMI Ex	6
%GMI Ex	100%
n>STV	2
%n>STV	33%

Cumulative %GMI Exceedance

Current (2011-2022)

100%

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

North Branch Swift River (MA32-54)

Location:	Headwaters, outlet small unnamed pond west of Grant Street, Plainfield to mouth at confluence with Swift River, Cummington.
AU Type:	RIVER
AU Size:	6.9 MILES
Classification/Qualifier:	B: CWF

No usable data were available for North Branch Swift River (MA32-54) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

North Railroad Pond (MA32053)

Location:	Holyoke.
AU Type:	FRESHWATER LAKE
AU Size:	9 ACRES
Classification/Qualifier:	A: PWS, ORW

No usable data were available for North Railroad Pond (MA32053) 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

Norwich Pond (MA32054)

Location:	Huntington.
AU Type:	FRESHWATER LAKE
AU Size:	116 ACRES
Classification/Qualifier:	B

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Norwich Pond (MA32054) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
There are no data available to assess the status of the Aesthetics Use for this Norwich Pond AU (MA32054), so it is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary

No bacteria data are available to assess the Primary Contact Recreation Use for Norwich Pond (MA32054) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information.

In Norwich Pond (MA32054), EPA (NARS_WQX) collected Secchi, cyanobacteria cell count, and cyanotoxin data at NARS_WQX-NLA12_MA-110 [42.305671, -72.832938, NLA12_MA-110] (2012). In 2012 at station NARS_WQX-NLA12_MA-110 (station depth=not recorded) the Secchi depth (n=1) was measured to be 2.95 m on Sep 16, 2012 indicating water clarity meeting the 1.2 m (4 ft) threshold. The cyanobacteria cell count did not exceed 70,000 cells/ml in the single water sample in 2012 (n=1). Analysis of microcystins samples from NARS_WQX-NLA12_MA-110 in 2012 (n=1) indicated that the concentrations did not exceed the threshold of 8 µg/L.

Other Indicators

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

Data Year(s)	Summary
2012	In Norwich Pond (MA32054), EPA (NARS_WQX) collected Secchi, cyanobacteria cell count, and cyanotoxin data at NARS_WQX-NLA12_MA-110 [42.305671, -72.832938, NLA12_MA-110] (2012). In 2012 at station NARS_WQX-NLA12_MA-110 (station depth=not recorded) the Secchi depth (n=1) was measured to be 2.95 m on Sep 16, 2012 indicating water clarity meeting the 1.2 m (4 ft) threshold. The cyanobacteria cell count did not exceed 70,000 cells/ml in the single water sample in 2012 (n=1). Analysis of microcystins samples from NARS_WQX-NLA12_MA-110 in 2012 (n=1) indicated that the concentrations did not exceed the threshold of 8 µg/L.

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 Norwich Pond (MA32054) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information. In Norwich Pond (MA32054), EPA (NARS_WQX) collected cyanobacteria cell count and cyanotoxins data at NARS_WQX-NLA12_MA-110 (2012). The cyanobacteria cell count did not exceed 70,000 cells/ml in the single water sample in 2012 (n=1). Analysis of microcystins samples from NARS_WQX-NLA12_MA-110 in 2012 (n=1) indicated that the concentrations did not exceed the threshold of 8 µg/L.

Otis Wait Brook (MA32-80)

Location:	Headwaters, west of Lynes Road, Chester to mouth at confluence with West Branch Westfield River, Chester.
AU Type:	RIVER
AU Size:	1.8 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Otis Wait Brook (MA32-80) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Paucatuck Brook (MA32-29)

Location:	From outlet of Bearhole Reservoir, West Springfield to mouth at confluence with Westfield River, West Springfield.
AU Type:	RIVER
AU Size:	1.5 MILES
Classification/Qualifier:	B

Paucatuck Brook (MA32-29)

Watershed Area: 6.38 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	6.38	2.62	3.73	1.16
Agriculture	0.1%	0.1%	0%	0.1%
Developed	10.5%	17.7%	5.9%	8.7%
Natural	82.2%	76.5%	82.5%	79.4%
Wetland	7.2%	5.7%	11.6%	11.8%
Impervious	2.9%	3.4%	2.5%	3.1%

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Paucatuck Brook (MA32-29) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Paucatuck Brook (MA32-29) 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 Paucatuck Brook (MA32-29) 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 Paucatuck Brook (MA32-29) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in Paucatuck Brook (MA32-29) at W0230 [Sikes Avenue bridge, W Springfield] from May-Oct 2006 (n=5). Historic <i>E. coli</i> data from W0230 are inconclusive according to the 2024 CALM to assess the Secondary Contact Recreation Use because this single year, limited frequency dataset included both GMs below the threshold and STV exceedance of the threshold. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0230	MassDEP	Water Quality	Paucatuck Brook	[Sikes Avenue bridge, West Springfield]	42.111182	-72.683156

Bacteria Data

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

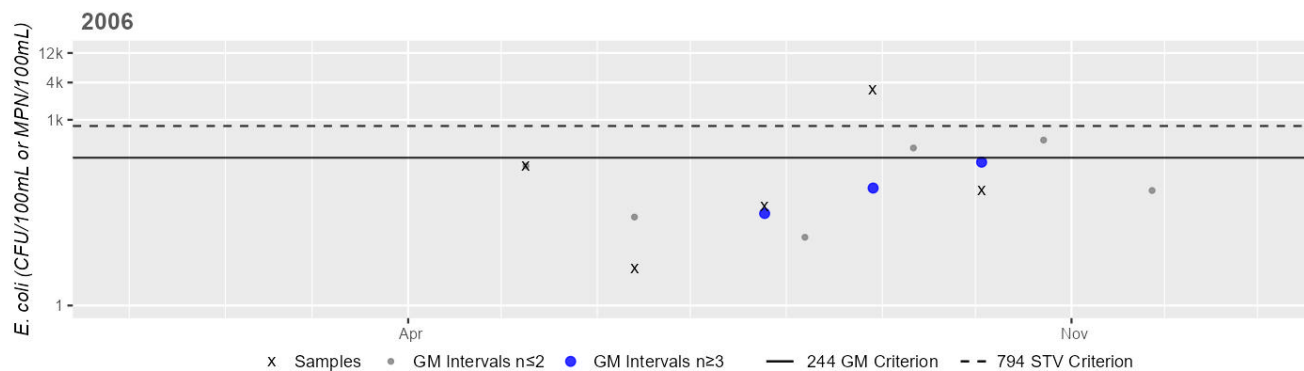
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W0230	MassDEP	E. coli	05/09/06	10/03/06	5	4	3070	91

Station MASSDEP_W0230 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	91
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	20%

Cumulative %GMI Exceedance
Historic (1997-2010)

0%

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

Pequot Pond (MA32055)

Location:	Westfield/Southampton.
AU Type:	FRESHWATER LAKE
AU Size:	155 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Curly-leaf Pondweed*)	--	Unchanged
5	5	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
5	5	(Non-Native Aquatic Plants*)	--	Unchanged
5	5	(Water Chestnut*)	--	Unchanged
5	5	Chlorophyll-a	--	Unchanged
5	5	Dissolved Oxygen	--	Unchanged
5	5	Enterococcus	--	Unchanged
5	5	PFAS in Fish Tissue	--	Added
5	5	Phosphorus, Total	--	Unchanged

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

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Water Chestnut*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
Chlorophyll-a	Source Unknown (N)	X	--	--	--	--
Dissolved Oxygen	Source Unknown (N)	X	--	--	--	--
Enterococcus	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	--	--	--	X	--
Enterococcus	Source Unknown (N)	--	--	--	X	--
PFAS in Fish Tissue	Source Unknown (N)	--	X	--	--	--
Phosphorus, Total	Source Unknown (N)	X	--	--	--	--

Recommendations

2024/26 Recommendations
2016 IR [Algae, Low] Additional monitoring should be performed in Pequot Pond (MA32055) to determine the status of the excessive algal growth observed by MassDEP in 2006 within the southern lobe of the waterbody. {W1750}

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	No

2024/26 Use Attainment Summary
The Fish Consumption Use for Pequot Pond (MA32055) is assessed as Not Supporting with a new impairment being added for PFAS in Fish Tissue. Fish toxics sampling was conducted at Pequot Pond (MA32055) in Westfield, Southampton as part of a June 2022 MDPH study assessing 40 PFAS analytes in fish tissue samples collected from lakes and ponds in state parks. DPH issued a site-specific advisory for PFAS in Pequot Pond (referred to by MDPH as "Pequot Pond (Hampton Ponds)") in their February 2023 Freshwater Fish Consumption Advisory List and retained it in the 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.

Fish Consumption Advisories

Summary of Fish Toxics Sampling and Resulting Fish Consumption Advisories (MA DPH 2025) (MA DPH 2023b)

Summary Statement
Fish toxics sampling was conducted at Pequot Pond (MA32055) in Westfield, Southampton as part of a June 2022 MDPH study assessing 40 PFAS analytes in fish tissue samples collected from lakes and ponds in state parks. Because of elevated PFAS measured in fish filets, MDPH issued site-specific fish consumption advisories for Pequot Pond (referred to by MDPH as Pequot Pond (Hampton Ponds)) in their February 2023 Freshwater Fish Consumption Advisory List and retained them in the 2025 list. The site-specific DPH advisories are indicative of a Fish Consumption Use impairment for PFAS in Fish Tissue for Pequot Pond (MA32055).

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	YES
2024/26 Use Attainment Summary	
<p>The Aesthetics Use for Pequot Pond (MA32055) is assessed as Fully Supporting based on the observations from the 2016 MAP2 macrophyte mapping survey. The prior Alert for Algae (excessive algal growth) is being carried forward since the center of the southern lobe (W1750) was not visited in 2016 and algal clumps were observed in that location in 2006. Since the Chlorophyll-a Alert was redundantly duplicated across multiple uses for this waterbody, the Chlorophyll-a Alert is being removed from the Aesthetics Use but will continue to be maintained as an impairment under the Aquatic Life Use. MassDEP staff recorded aesthetics observations as part of the MAP2 lake monitoring project in summer 2016 at two stations for this Pequot Pond AU; south eastern edge of pond, at Kingsley Beach, north of Old Apremont Way Westfield (W2607/MAP2L-011S) in summer 2016 (n=5) and the deep hole, Southampton/Westfield (W1751/ MAP2L-011) in summer 2016 (n=3). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded at either station, or littoral zone duckweed recorded in ten shoreline plots (n=1), though field staff noted trash on two occasions at W2607 and once noted green water color at W1751. During the MAP2 macrophyte mapping survey in Jul 2016 (n=1), less than 25% (20%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%.</p>	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1751	MassDEP	Water Quality	Pequot Pond	[deep hole, Southampton/Westfield]	42.184325	-72.693832
W2607	MassDEP	Water Quality	Pequot Pond	[south eastern edge of pond, at Kingsley Beach, north of Old Apremont Way, Westfield]	42.180204	-72.691936

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
W1751	2016	3	Aesthetic observations were made by MassDEP field sampling crews at Station W1751 (MAP2L-011) on Pequot Pond (MA32055) during 3 site visits between Jun 2016 and Sep 2016. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted green water color (n=1). During the MAP2 macrophyte mapping survey (n=1) in Jul 2016, less than 25% (20%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%.
W2607	2016	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2607 (MAP2L-011S) on Pequot Pond (MA32055) during 5 site visits between May 2016 and Sep 2016. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted objectionable deposits (n=2). 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
W1751	Pequot Pond	2016	Aesthetics Impaired?	No	3	3
W1751	Pequot Pond	2016	Aquatic Plant Density, Overall	None	1	3
W1751	Pequot Pond	2016	Aquatic Plant Density, Overall	NR	2	3
W1751	Pequot Pond	2016	Color	Greenish	1	3
W1751	Pequot Pond	2016	Color	None	2	3
W1751	Pequot Pond	2016	Objectionable Deposits	No	3	3
W1751	Pequot Pond	2016	Odor	None	3	3
W1751	Pequot Pond	2016	Scum	No	3	3
W1751	Pequot Pond	2016	Turbidity	Slightly Turbid	3	3
W2607	Pequot Pond	2016	Aesthetics Impaired?	No	5	5
W2607	Pequot Pond	2016	Color	None	5	5
W2607	Pequot Pond	2016	Objectionable Deposits	No	3	5
W2607	Pequot Pond	2016	Objectionable Deposits	Yes	2	5
W2607	Pequot Pond	2016	Odor	Musty (Basement)	1	5
W2607	Pequot Pond	2016	Odor	None	4	5
W2607	Pequot Pond	2016	Scum	No	5	5
W2607	Pequot Pond	2016	Turbidity	None	5	5

Primary Contact Recreation

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

The Primary Contact Recreation Use for Pequot Pond (MA32055) continues to be assessed as Not Supporting. The prior *Enterococcus* impairment is being carried forward based on DPH Beach Closures data not meeting the threshold at Kingsley Beach (DCR) [Beach ID: 5177] and Lamberts Beach (DCR) [Beach ID: 5178]. The prior Alert for Algae is being removed and will be maintained under the Aesthetics Use.

MassDEP staff collected *E. coli* bacteria samples in Pequot Pond (MA32055) at W2607 [S eastern edge of pond, at Kingsley Beach, N of Old Apremont Way, Westfield] from May-Sep 2016 (n=5). Analysis of the single year limited frequency *E. coli* dataset from W2607 indicated 0% of intervals had GMs >126 CFU/100ml, 1 sample exceeded the 410 CFU/100ml STV, and the seasonal GM was 46 CFU/100ml. *E. coli* data from W2607 are inconclusive according to the 2024 CALM to assess the Primary Contact Recreation Use because this single year, limited frequency dataset included both GMs below the threshold and STV exceedance of the threshold. Pequot Pond (MA32055) has 2 beaches with DPH Beach Closure data: Kingsley (DCR) [Beach ID: 5177] and Lamberts (DCR) [Beach ID: 5178] beaches in Westfield. Beaches were posted for >10% of the swimming season at Kingsley Beach (DCR) in 2018 (52%), 2019 (20%), 2021 (50%), and 2022 (36%) and Lamberts Beach (DCR) in 2021 (39%) and 2022 (40%) indicating an *Enterococcus* impairment. In Pequot Pond (MA32055), MassDEP collected Secchi and cyanobacteria cell count data at W1751 [MAP2L-011, Index-deep hole] (2016) and cyanobacteria cell count and cyanotoxins data at W2607 [MAP2L-011S, Shoreline] (2016). Secchi depth data indicated water clarity meeting the 1.2m (4ft) threshold at W1751 in 2016 (n=3, 2.67-4.1m). The cyanobacteria cell count did not exceed 70,000 cells/ml in any of the water samples in 2016 (n=6). Analysis of microcystins samples from W2607 in 2016 (n=3) indicated that the concentrations did not exceed the threshold of 8 µg/L. MassDEP staff collected *E. coli* bacteria samples in Pequot Pond (MA32055) at W2607 [S eastern edge of pond, at Kingsley Beach, N of Old Apremont Way, Westfield] from May-Sep 2016 (n=5). Additional sampling was conducted at Kingsley Beach and Lamberts Beach on Pequot Pond (MA32055) in Westfield/Southampton as part of a May 2022 MDPH study assessing 40 PFAS analytes in surface water and fish tissue samples collected from waterbodies in state parks. The average 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 (maximum average 3.0 ng/L PFOA).

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1751	MassDEP	Water Quality	Pequot Pond	[deep hole, Southampton/Westfield]	42.184325	-72.693832
W2607	MassDEP	Water Quality	Pequot Pond	[south eastern edge of pond, at Kingsley Beach, north of Old Apremont Way, Westfield]	42.180204	-72.691936

Bacteria Data

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

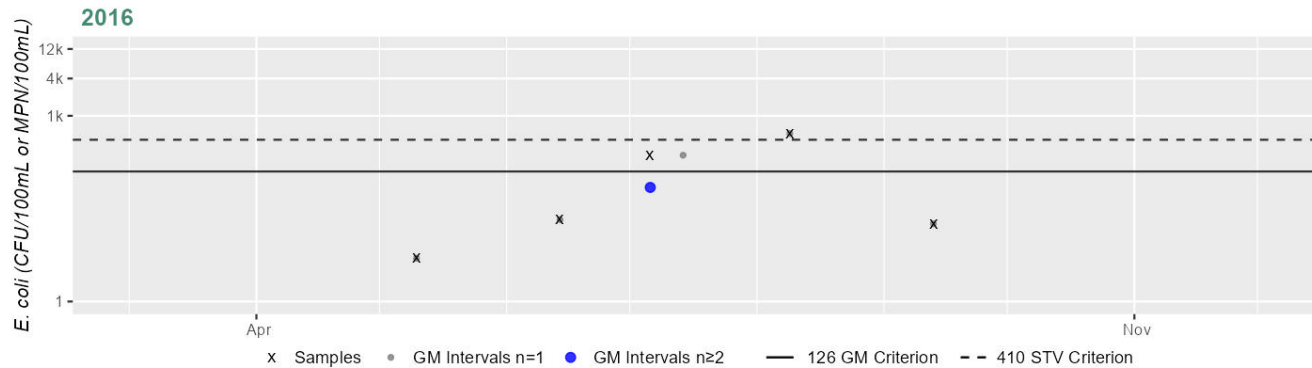
(MassDEP Undated 6) (MassDEP Undated 4)

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

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2607	MassDEP	E. coli	05/09/16	09/12/16	5	5	517	46

Station MASSDEP_W2607 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	46
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	20%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

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

Beach Postings

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

Sept. 10, 2023) (MassDEP Undated 2)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
5177	Kingsley Beach (DCR)/ Westfield	42.17948, - 72.69290	42.18102, - 72.69130	29%	24%	44%	10%	52%	20%	2%	50%	36%	7
5178	Lamberts Beach (DCR)/ Westfield	42.18001, - 72.69600	42.17978, - 72.69390	4%	11%	0%	5%	6%	9%	7%	39%	40%	3

Other Indicators

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

Data Year(s)	Summary
2016	In Pequot Pond (MA32055) in 2016, MassDEP collected Secchi and cyanobacteria cell count data at W1751 [MAP2L-011, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at W2607 [MAP2L-011S, Shoreline]. At the index station W1751 (station depth=8.5 m) the Secchi depth measurements ranged from 2.67-4.1 m (n=3) indicating water clarity meeting the 1.2 m (4 ft) threshold. The cyanobacteria cell count did not exceed 70,000 cells/mL in any of the water samples (n=6). Analysis of microcystins samples from the shoreline station W2607 (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)
W1751	Pequot Pond	Index	2016	3	0	NA
W2607	Pequot Pond	Shoreline	2016	3	0	NA

DPH Primary Contact Rec. PFAS Summaries (Water Column Samples) (MA DPH 2023a, MA DPH 2023b)

Surface water sampling was conducted at Kingsley Beach and Lamberts Beach on Pequot Pond (MA32055) in Westfield/Southampton as part of a May 2022 MDPH study assessing 40 PFAS analytes in surface water and fish tissue samples collected from waterbodies in state parks. The average 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 (maximum average 3.0 ng/L PFOA).

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO
2024/26 Use Attainment Summary	

The Secondary Contact Recreation Use for Pequot Pond (MA32055) is assessed as Fully Supporting. The prior Alert for Algae is being removed and will be maintained under the Aesthetics Use. Pequot Pond (MA32055) has 2 beaches with DPH Beach Closure data: Kingsley (DCR) [Beach ID: 5177] and Lamberts (DCR) [Beach ID: 5178] beaches in Westfield. Available DPH Beach Closure data cannot be used to positively assess the Secondary Contact Recreation Use since beaches were posted for >10% of the swimming season: Kingsley Beach (DCR) in 2018, 2019, 2021, and 2022 and Lamberts Beach (DCR) in 2021 and 2022. In Pequot Pond (MA32055), MassDEP collected cyanobacteria cell count data at W1751 [MAP2L-011, Index-deep hole] (2016) and cyanobacteria cell count and cyanotoxin data at W2607 [MAP2L-011S, Shoreline] (2016). The cyanobacteria cell count did not exceed 70,000 cells/ml in any of the water samples in 2016 (n=6). Analysis of microcystins samples from W2607 in 2016 (n=3) indicated that the concentrations did not exceed the threshold of 8 µg/L. MassDEP staff collected *E. coli* bacteria samples in Pequot Pond (MA32055) at W2607 [S eastern edge of pond, at Kingsley Beach, N of Old Apremont Way, Westfield] from May-Sep 2016 (n=5). Analysis of the single year limited frequency *E. coli* dataset from W2607 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 46 CFU/100ml. *E. coli* data from W2607 meet 2024 CALM guidance

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2607	MassDEP	Water Quality	Pequot Pond	[south eastern edge of pond, at Kingsley Beach, north of Old Apremont Way, Westfield]	42.180204	-72.691936

Bacteria Data

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

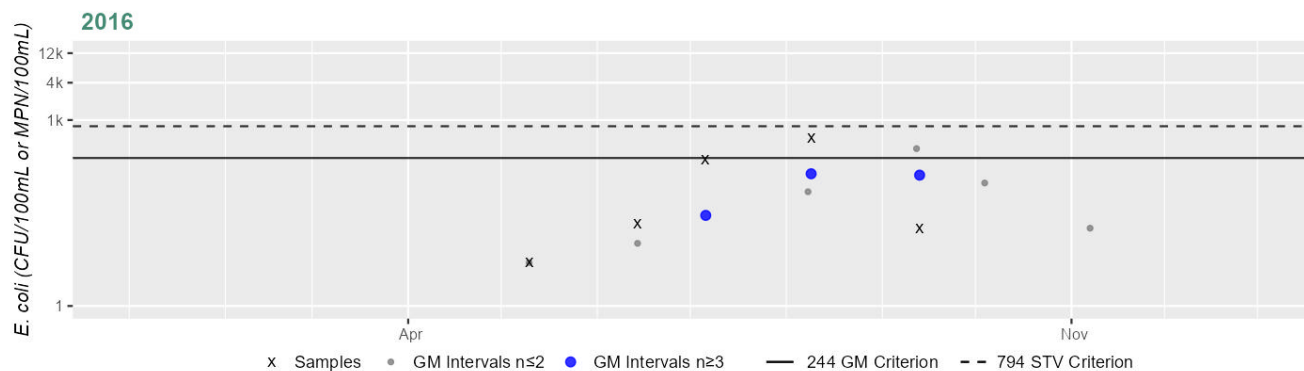
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W2607	MassDEP	E. coli	05/09/16	09/12/16	5	5	517	46

Station MASSDEP_W2607 - 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

Current (2011-2022)

0%

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

Pixley Brook (MA32-81)

Location:	Headwaters, east of Long Pond, Blandford to mouth at confluence with Peebles Brook, Blandford.
AU Type:	RIVER
AU Size:	1.7 MILES
Classification/Qualifier:	A: PWS, ORW, CWF (Tributary)

No usable data were available for Pixley Brook (MA32-81) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

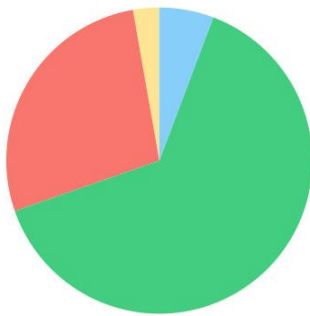
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Pond Brook (MA32-24)

Location:	Headwaters, outlet Chapin Pond, Westfield to mouth at confluence with Powdermill Brook, Westfield.
AU Type:	RIVER
AU Size:	3.9 MILES
Classification/Qualifier:	B

Pond Brook (MA32-24)

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	4.53	2.09	1.05
Agriculture	2.8%	1.5%	1.5%	2.7%
Developed	27.6%	32.1%	17.2%	18.6%
Natural	63.9%	61.5%	66.9%	64.3%
Wetland	5.7%	4.8%	14.4%	14.4%
Impervious	9.3%	9%	6.9%	5.3%

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Pond Brook (MA32-24) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No data are available, so the Aesthetics Use for Pond Brook (MA32-24) 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 Pond Brook (MA32-24) are available, so the Primary Contact Recreation Use is Not Assessed.	

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No bacteria or other indicator data for Pond Brook (MA32-24) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in Pond Brook (MA32-24) at W0236 [Union St bridge, Westfield] from May-Oct 2006 (n=5). Historic <i>E. coli</i> data from W0236 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0236	MassDEP	Water Quality	Pond Brook	[Union Street bridge, Westfield]	42.124671	-72.722077

Bacteria Data

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

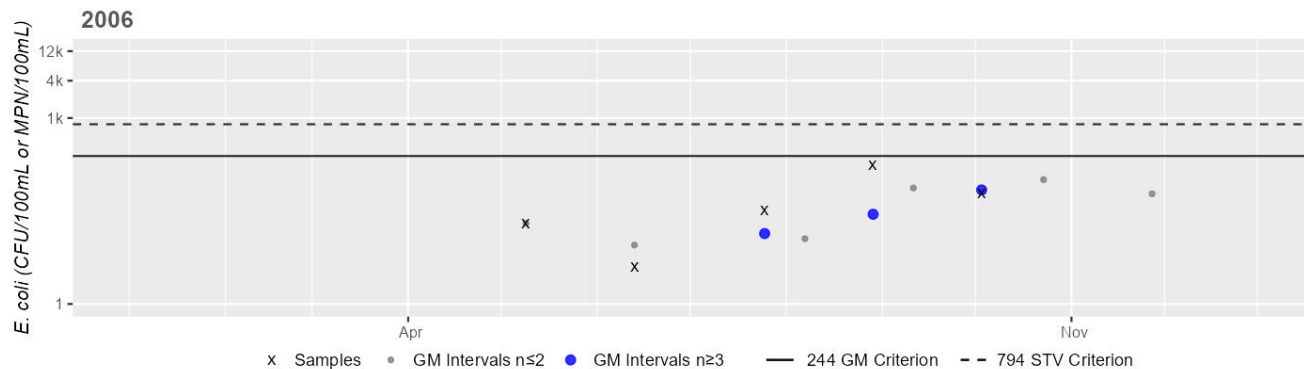
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W0236	MassDEP	E. coli	05/09/06	10/03/06	5	4	172	30

Station MASSDEP_W0236 - 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 Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Pond Brook (MA32-44)

Location:	Headwaters, outlet Norwich Pond, Huntington to mouth at confluence with Westfield River, Huntington.
AU Type:	RIVER
AU Size:	3.1 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Pond Brook (MA32-44) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

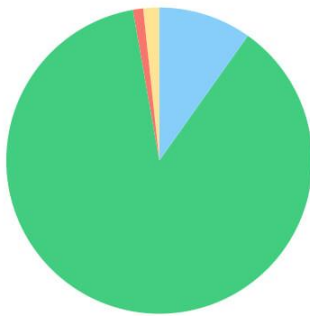
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Pond Brook (MA32-67)

Location:	Headwaters, outlet Blair Pond, Blandford to mouth at confluence with Peebles Brook, Blandford.
AU Type:	RIVER
AU Size:	2.2 MILES
Classification/Qualifier:	A: PWS, ORW (Tributary)

Pond Brook (MA32-67)

Watershed Area: 10.73 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	10.73	8.12	3.54	2.97
Agriculture	1.7%	0.7%	1%	0.6%
Developed	1.1%	1.1%	0.8%	0.8%
Natural	87.4%	90%	80.9%	84.3%
Wetland	9.8%	8.2%	17.3%	14.3%
Impervious	0.5%	0.5%	0.5%	0.4%

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Pond Brook (MA32-67) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for Pond Brook (MA32-67) is assessed as Fully Supporting based on the lack of objectionable conditions observed by MassDEP staff during the summers of 2011, 2012, and 2013. MassDEP staff recorded aesthetics observations at two stations in Blandford for this Pond Brook AU from up to downstream as follows: at the upstream end of the AU ~1450 feet downstream of Otis Stage Rd (Rt. 23) (W2257, n=6 in 2012) and at the downstream end of the AU ~275 feet upstream of Beech Hill Rd (W2223, n=3 in 2011, n=4 in 2012, n=5 in 2013). There were generally no noted objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2223	MassDEP	Water Quality	Pond Brook	[approximately 275 feet upstream of Beech Hill Road, Blandford]	42.167827	-72.949352
W2257	MassDEP	Water Quality	Pond Brook	[approximately 1450 feet downstream of Otis Stage Road (Route 23), Blandford]	42.169521	-72.973683

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
W2223	2011	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2223 on Pond Brook (MA32-67) during 3 site visits between Jun 2011 and Aug 2011. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2223	2012	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2223 on Pond Brook (MA32-67) during 4 site visits between May 2012 and Oct 2012. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2223	2013	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2223 on Pond Brook (MA32-67) during 5 site visits between May 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2257	2012	6	Aesthetic observations were made by MassDEP field sampling crews at Station W2257 on Pond Brook (MA32-67) 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
W2223	2011	3	3	0
W2223	2012	4	4	0
W2223	2013	5	5	0
W2257	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
W2223	Pond Brook	2011	Aquatic Plant Density, Overall	None	2	3
W2223	Pond Brook	2011	Aquatic Plant Density, Overall	Sparse	1	3
W2223	Pond Brook	2011	Color	Brownish	1	3
W2223	Pond Brook	2011	Color	Light Yellow/Tan	2	3
W2223	Pond Brook	2011	Objectionable Deposits	No	3	3
W2223	Pond Brook	2011	Odor	None	3	3
W2223	Pond Brook	2011	Periphyton Density, Filamentous	None	3	3
W2223	Pond Brook	2011	Periphyton Density, Film	Moderate	1	3
W2223	Pond Brook	2011	Periphyton Density, Film	None	2	3
W2223	Pond Brook	2011	Scum	No	3	3
W2223	Pond Brook	2011	Turbidity	None	3	3
W2223	Pond Brook	2012	Aquatic Plant Density, Overall	None	4	4
W2223	Pond Brook	2012	Color	Light Yellow/Tan	3	4
W2223	Pond Brook	2012	Color	None	1	4
W2223	Pond Brook	2012	Objectionable Deposits	No	4	4
W2223	Pond Brook	2012	Odor	None	4	4
W2223	Pond Brook	2012	Periphyton Density, Filamentous	None	4	4
W2223	Pond Brook	2012	Periphyton Density, Film	None	2	4
W2223	Pond Brook	2012	Periphyton Density, Film	Sparse	2	4
W2223	Pond Brook	2012	Scum	No	3	4
W2223	Pond Brook	2012	Scum	Yes	1	4
W2223	Pond Brook	2012	Turbidity	None	4	4
W2223	Pond Brook	2013	Aesthetics Impaired?	No	5	5
W2223	Pond Brook	2013	Aquatic Plant Density, Overall	None	5	5
W2223	Pond Brook	2013	Color	Dark Tan	1	5
W2223	Pond Brook	2013	Color	Light Yellow/Tan	3	5
W2223	Pond Brook	2013	Color	Rusty	1	5
W2223	Pond Brook	2013	Objectionable Deposits	No	5	5
W2223	Pond Brook	2013	Odor	None	5	5
W2223	Pond Brook	2013	Periphyton Density, Filamentous	Moderate	2	5

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2223	Pond Brook	2013	Periphyton Density, Filamentous	None	2	5
W2223	Pond Brook	2013	Periphyton Density, Filamentous	NR	1	5
W2223	Pond Brook	2013	Periphyton Density, Film	Moderate	1	5
W2223	Pond Brook	2013	Periphyton Density, Film	None	2	5
W2223	Pond Brook	2013	Periphyton Density, Film	NR	1	5
W2223	Pond Brook	2013	Periphyton Density, Film	Sparse	1	5
W2223	Pond Brook	2013	Scum	No	4	5
W2223	Pond Brook	2013	Scum	Yes	1	5
W2223	Pond Brook	2013	Turbidity	None	5	5
W2257	Pond Brook	2012	Aquatic Plant Density, Overall	None	6	6
W2257	Pond Brook	2012	Color	Light Yellow/Tan	1	6
W2257	Pond Brook	2012	Color	None	5	6
W2257	Pond Brook	2012	Objectionable Deposits	No	6	6
W2257	Pond Brook	2012	Odor	Musty (Basement)	1	6
W2257	Pond Brook	2012	Odor	None	5	6
W2257	Pond Brook	2012	Periphyton Density, Filamentous	None	5	6
W2257	Pond Brook	2012	Periphyton Density, Filamentous	Sparse	1	6
W2257	Pond Brook	2012	Periphyton Density, Film	None	6	6
W2257	Pond Brook	2012	Scum	No	4	6
W2257	Pond Brook	2012	Scum	Yes	2	6
W2257	Pond Brook	2012	Turbidity	None	6	6

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
<p>Too limited bacteria data are available to assess the Primary Contact Recreation Use for Pond Brook (MA32-67) and available aesthetics observations for this waterbody did not result in any impairment, so it is assessed as having Insufficient Information. MassDEP staff collected <i>E. coli</i> bacteria samples in Pond Brook (MA32-67) at W2257 [~1450 ft downstream of Otis Stage Rd (Rt. 23), Blanford] from May-Sep 2012 (n=6). <i>E. coli</i> data from W2257 are inconclusive according to the 2024 CALM to assess the Primary Contact Recreation Use because this single year, limited frequency dataset included both GMs below the threshold and STV exceedance of the threshold.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2257	MassDEP	Water Quality	Pond Brook	[approximately 1450 feet downstream of Otis Stage Road (Route 23), Blanford]	42.169521	-72.973683

Bacteria Data

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

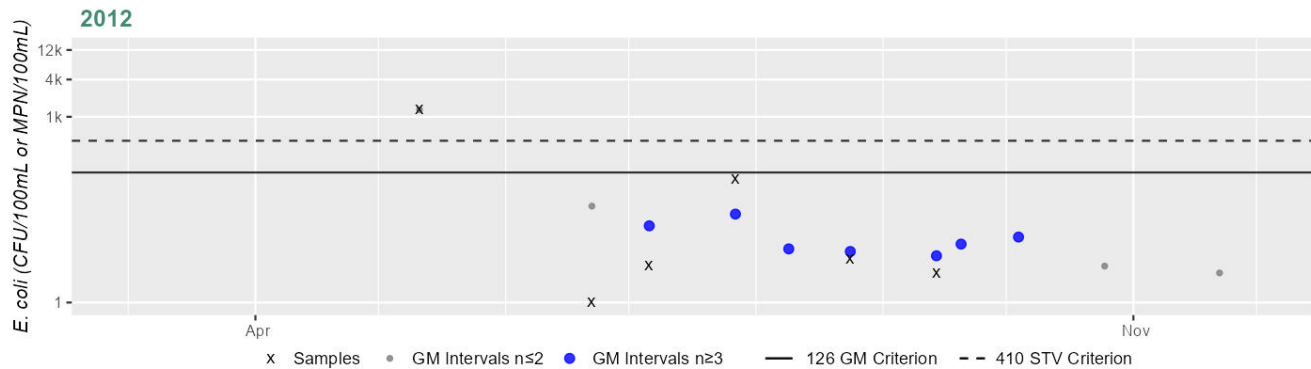
(MassDEP Undated 6) (MassDEP Undated 4)

[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
W2257	MassDEP	E. coli	05/10/12	09/13/12	6	1	1300	14

Station MASSDEP_W2257 - Escherichia coli

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



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

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO
2024/26 Use Attainment Summary	

Too limited bacteria data are available to assess the Secondary Contact Recreation Use for Pond Brook (MA32-67) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information. MassDEP staff collected *E. coli* bacteria samples in Pond Brook (MA32-67) at W2257 [~1450 ft downstream of Otis Stage Rd (Rt. 23), Blanford] from May-Sep 2012 (n=6). *E. coli* data from W2257 are inconclusive according to the 2024 CALM to assess the Secondary Contact Recreation Use because this single year, limited frequency dataset included both GMs below the threshold and STV exceedance of the threshold.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2257	MassDEP	Water Quality	Pond Brook	[approximately 1450 feet downstream of Otis Stage Road (Route 23), Blanford]	42.169521	-72.973683

Bacteria Data

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

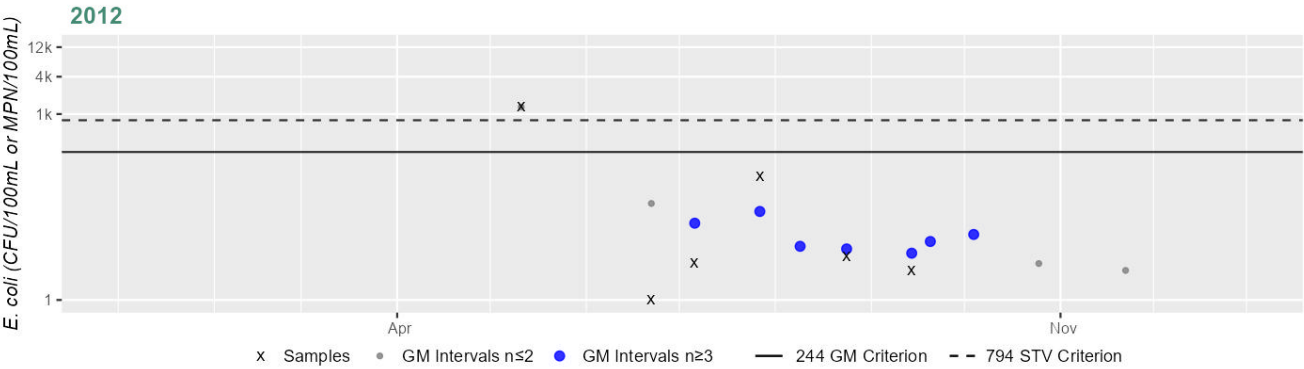
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W2257	MassDEP	E. coli	05/10/12	09/13/12	6	1	1300	14

Station MASSDEP_W2257 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	14
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

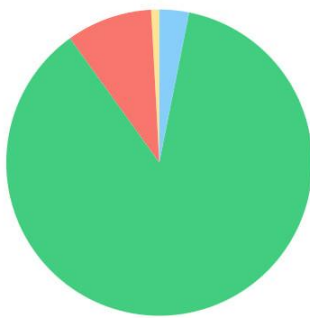
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes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

Potash Brook (MA32-22)

Location:	Source, outlet Dunlap Pond, Blandford to mouth at confluence with Westfield River, Village of Woronoco, Russell.
AU Type:	RIVER
AU Size:	5.2 MILES
Classification/Qualifier:	B: CWF

Potash Brook (MA32-22)

Watershed Area: 6.60 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	6.60	4.98	1.95	1.50
Agriculture	0.9%	0.2%	0.8%	0.1%
Developed	9.1%	6.8%	10.1%	9.3%
Natural	87%	90%	83.8%	86.2%
Wetland	3.1%	3.1%	5.4%	4.3%
Impervious	4.2%	3.3%	5.7%	5.5%

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

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Chloride	Highway/Road/Bridge Runoff (Non-construction Related) (Y)	X	--	--	--	--
Chloride	Historical Source, No Longer Present (N)	X	--	--	--	--
Chloride	Source Unknown (N)	X	--	--	--	--

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

Supporting Information for Removed Impairments

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Potash Brook (MA32-22) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for Potash Brook (MA32-22) is assessed as Fully Supporting based on the lack of objectionable conditions at five stations during summer 2017. MassDEP staff recorded aesthetics observations at five stations throughout this Potash Brook AU in the summer of 2017. These stations are described from upstream to downstream as follows: North of I-90, ~1/4 mile downstream from the outlet of Dunlap Pond in Blandford (W2723), South of I-90, ~30 feet upstream from Rt. 23 in Blandford (W2724), South of I-90, ~0.4 miles downstream from Rt. 23 in Russell (~200 feet upstream from the unnamed tributary to the southern bank) (W2725), North of I-90, ~1000 feet downstream from Rt. 23 in Russell (W2726), and farthest downstream at the Woronoco Road bridge in Russell (W0244) (n=4 for each). There were generally no noted objectionable conditions (odors, deposits, growths, or turbidity) recorded at any of these stations.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0244	MassDEP	Water Quality	Potash Brook	[Woronoco Road bridge, Russell]	42.165992	-72.830563
W2723	MassDEP	Water Quality	Potash Brook	[North of Route 90, approximately 1/4 mile downstream from outlet of Dunlop Pond, Blandford]	42.174408	-72.906391
W2724	MassDEP	Water Quality	Potash Brook	[South of Route 90, approximately 30 feet upstream from Route 23, Blandford]	42.170068	-72.896861
W2725	MassDEP	Water Quality	Potash Brook	[South of Route 90, approximately 0.4 miles downstream from Route 23, Russell (approximately 200 feet upstream from unnamed tributary to southern bank)]	42.166696	-72.881019
W2726	MassDEP	Water Quality	Potash Brook	[North of Route 90, approximately 1000 feet downstream from Route 23, Russell]	42.164298	-72.847059

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
W0244	2017	4	Aesthetic observations were made by MassDEP field sampling crews at Station W0244 on Potash Brook (MA32-22) during 4 site visits between Jan 2017 and Jul 2017. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2723	2017	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2723 on Potash Brook (MA32-22) during 4 site visits between Jan 2017 and Jul 2017. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2724	2017	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2724 on Potash Brook (MA32-22) during 4 site visits between Jan 2017 and Jul 2017. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2725	2017	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2725 on Potash Brook (MA32-22) during 4 site visits between Jan 2017 and Jul 2017. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2726	2017	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2726 on Potash Brook (MA32-22) during 4 site visits between Jan 2017 and Jul 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
W0244	2017	4	4	0
W2723	2017	4	4	0
W2724	2017	4	4	0
W2725	2017	4	3	0
W2726	2017	4	4	0

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

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W0244	Potash Brook	2017	Aesthetics Impaired?	No	4	4
W0244	Potash Brook	2017	Aquatic Plant Density, Overall	None	4	4
W0244	Potash Brook	2017	Color	None	4	4
W0244	Potash Brook	2017	Objectionable Deposits	No	4	4
W0244	Potash Brook	2017	Odor	None	4	4
W0244	Potash Brook	2017	Periphyton Density, Filamentous	None	2	4
W0244	Potash Brook	2017	Periphyton Density, Filamentous	Sparse	2	4
W0244	Potash Brook	2017	Periphyton Density, Film	None	3	4
W0244	Potash Brook	2017	Periphyton Density, Film	Sparse	1	4
W0244	Potash Brook	2017	Scum	No	4	4
W0244	Potash Brook	2017	Turbidity	None	3	4
W0244	Potash Brook	2017	Turbidity	Unobservable	1	4
W2723	Potash Brook	2017	Aesthetics Impaired?	No	4	4

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2723	Potash Brook	2017	Aquatic Plant Density, Overall	None	4	4
W2723	Potash Brook	2017	Color	None	4	4
W2723	Potash Brook	2017	Objectionable Deposits	No	4	4
W2723	Potash Brook	2017	Odor	None	4	4
W2723	Potash Brook	2017	Periphyton Density, Filamentous	None	3	4
W2723	Potash Brook	2017	Periphyton Density, Filamentous	Sparse	1	4
W2723	Potash Brook	2017	Periphyton Density, Film	None	4	4
W2723	Potash Brook	2017	Scum	No	4	4
W2723	Potash Brook	2017	Turbidity	None	4	4
W2724	Potash Brook	2017	Aesthetics Impaired?	No	4	4
W2724	Potash Brook	2017	Aquatic Plant Density, Overall	None	4	4
W2724	Potash Brook	2017	Color	None	4	4
W2724	Potash Brook	2017	Objectionable Deposits	No	3	4
W2724	Potash Brook	2017	Objectionable Deposits	NR	1	4
W2724	Potash Brook	2017	Odor	None	4	4
W2724	Potash Brook	2017	Periphyton Density, Filamentous	None	4	4
W2724	Potash Brook	2017	Periphyton Density, Film	None	2	4
W2724	Potash Brook	2017	Periphyton Density, Film	Sparse	2	4
W2724	Potash Brook	2017	Scum	No	3	4
W2724	Potash Brook	2017	Scum	NR	1	4
W2724	Potash Brook	2017	Turbidity	None	4	4
W2725	Potash Brook	2017	Aesthetics Impaired?	No	4	4
W2725	Potash Brook	2017	Aquatic Plant Density, Overall	None	3	4
W2725	Potash Brook	2017	Aquatic Plant Density, Overall	Unobservable	1	4
W2725	Potash Brook	2017	Color	None	4	4
W2725	Potash Brook	2017	Objectionable Deposits	No	4	4
W2725	Potash Brook	2017	Odor	None	4	4
W2725	Potash Brook	2017	Periphyton Density, Filamentous	None	3	4
W2725	Potash Brook	2017	Periphyton Density, Filamentous	Unobservable	1	4
W2725	Potash Brook	2017	Periphyton Density, Film	None	2	4
W2725	Potash Brook	2017	Periphyton Density, Film	Sparse	1	4
W2725	Potash Brook	2017	Periphyton Density, Film	Unobservable	1	4
W2725	Potash Brook	2017	Scum	No	3	4
W2725	Potash Brook	2017	Scum	Unobservable	1	4
W2725	Potash Brook	2017	Turbidity	None	4	4

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2726	Potash Brook	2017	Aesthetics Impaired?	No	4	4
W2726	Potash Brook	2017	Aquatic Plant Density, Overall	None	4	4
W2726	Potash Brook	2017	Color	None	4	4
W2726	Potash Brook	2017	Objectionable Deposits	No	4	4
W2726	Potash Brook	2017	Odor	None	4	4
W2726	Potash Brook	2017	Periphyton Density, Filamentous	Moderate	1	4
W2726	Potash Brook	2017	Periphyton Density, Filamentous	None	3	4
W2726	Potash Brook	2017	Periphyton Density, Film	None	2	4
W2726	Potash Brook	2017	Periphyton Density, Film	Sparse	2	4
W2726	Potash Brook	2017	Scum	No	4	4
W2726	Potash Brook	2017	Turbidity	None	4	4

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO
2024/26 Use Attainment Summary	
The Primary Contact Recreation Use for Potash Brook (MA32-22) continues to be assessed as Not Supporting. The prior <i>Escherichia coli</i> (<i>E. coli</i>) impairment is being carried forward.	

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 Potash Brook (MA32-22) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information. MassDEP staff collected <i>E. coli</i> bacteria samples in Potash Brook (MA32-22) at W1454 [Rt. 23 bridge crossing between General Knox Rd and Dickinson Hill Rd, Russell] from May-Oct 2006 (n=5). Historic <i>E. coli</i> data from W1454 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1454	MassDEP	Water Quality	Potash Brook	[Route 23 bridge crossing between General Knox Road and Dickinson Hill Road, Russell]	42.167341	-72.869787

Bacteria Data

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

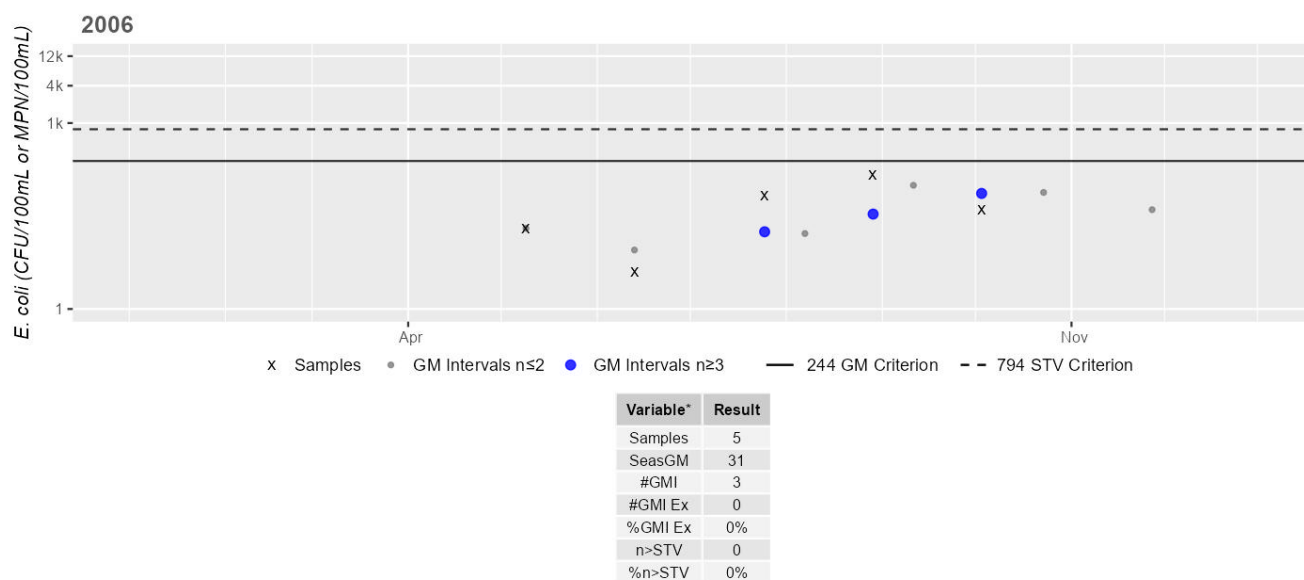
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1454	MassDEP	E. coli	05/09/06	10/03/06	5	4	144	31

Station MASSDEP_W1454 - Escherichia coli

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



Cumulative %GMI Exceedance

Historic (1997-2010)

0%

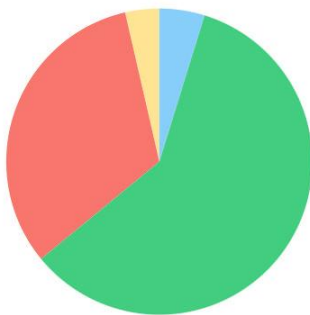
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes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

Powdermill Brook (MA32-09)

Location:	Headwaters, perennial portion northeast of Montgomery Road (west of Grindstone Mountain), Westfield to mouth at confluence with Westfield River, Westfield.
AU Type:	RIVER
AU Size:	8.4 MILES
Classification/Qualifier:	B

Powdermill Brook (MA32-09)

Watershed Area: 19.61 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	19.61	6.27	4.81	1.38
Agriculture	3.6%	1.6%	3.7%	4.3%
Developed	32.4%	41%	15.3%	17.1%
Natural	59.3%	52.9%	68.9%	62.5%
Wetland	4.8%	4.5%	12.1%	16.1%
Impervious	13.9%	17.2%	6.4%	7.5%

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

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Algae	Source Unknown (N)	--	--	X	X	X
Escherichia Coli (E. Coli)	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	--	--	--	X	--

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	--
Sedimentation/Siltation	Post-development Erosion and Sedimentation (Y)	X	--	--	--	--
Sedimentation/Siltation	Streambank Modifications/Destabilization (Y)	X	--	--	--	--
Turbidity	Source Unknown (N)	--	--	X	X	X

Supporting Information for Removed Impairments

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Powdermill Brook (MA32-09) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

No recent data are available for Powdermill Brook (MA32-09), so the Aesthetics Use continues to be assessed as Not Supporting, with the Algae and Turbidity impairments being carried forward.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

No bacteria or other indicator data for Powdermill Brook (MA32-09) are available, so the Primary Contact Recreation Use continues to be assessed as Not Supporting. The prior *Escherichia coli* (*E. coli*) impairment is being carried forward and the prior Algae and Turbidity impairments (from the Aesthetics Use) are being carried forward.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Powdermill Brook (MA32-09) continues to be assessed as Not Supporting. The prior Algae and Turbidity impairments (from the Aesthetics Use) are being carried forward. MassDEP staff collected *E. coli* bacteria samples in Powdermill Brook (MA32-09) from 2001-2006 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: W0234 [Russellville Rd bridge, Westfield] from Aug-Oct 2001 (n=4), W0805 [off Union St (brook emerges from concrete culvert), Westfield] in 2001 and 2006 (n=4-5/yr). Historic *E. coli* data from W0234 and W0805 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0234	MassDEP	Water Quality	Powdermill Brook	[Russellville Road bridge, Westfield]	42.162534	-72.763103
W0805	MassDEP	Water Quality	Powdermill Brook	[off Union Street (brook emerges from concrete culvert), Westfield]	42.114405	-72.714241

Bacteria Data

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

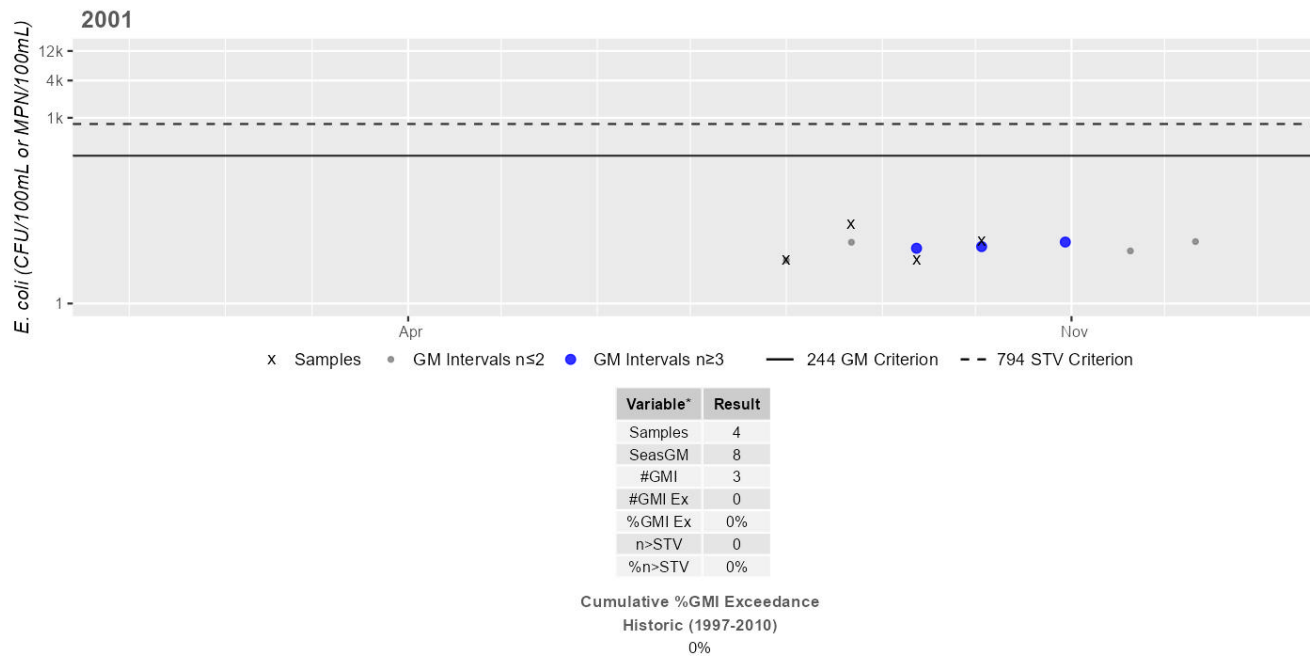
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W0234	MassDEP	E. coli	08/01/01	10/03/01	4	5	19	8
W0805	MassDEP	E. coli	08/01/01	10/03/01	4	5	29	16
W0805	MassDEP	E. coli	05/09/06	10/03/06	5	60	576	140

Station MASSDEP_W0234 - Escherichia coli

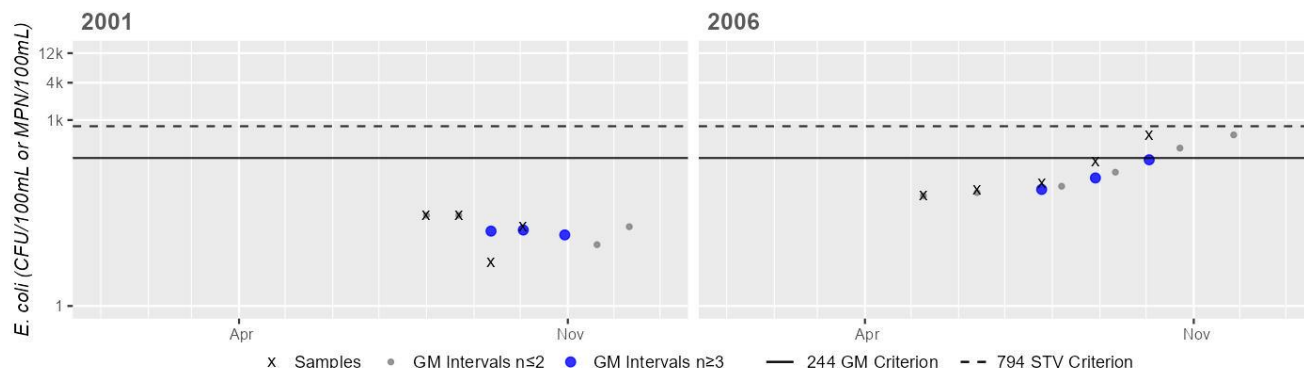
Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



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

Station MASSDEP_W0805 - Escherichia coli

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



Variable*	Result
Samples	4
SeasGM	16
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	5
SeasGM	140
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Powell Brook (MA32-82)

Location:	Headwater, south of Powell Road, Cummington to mouth at confluence with Kearney Brook, Cummington.
AU Type:	RIVER
AU Size:	0.9 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Powell Brook (MA32-82) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

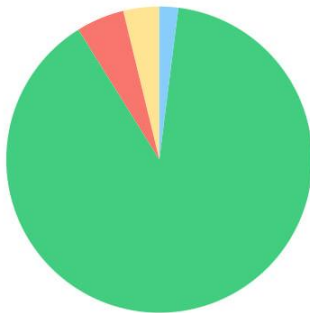
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Roaring Brook (MA32-30)

Location:	Headwaters (perennial portion), north of Horse Hill in Huntington State Forest, east of County Road, Huntington to mouth at confluence with Westfield River, Montgomery.
AU Type:	RIVER
AU Size:	4.3 MILES
Classification/Qualifier:	B: CWF

Roaring Brook (MA32-30)

Watershed Area: 5.85 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	5.85	4.34	1.89	1.23
Agriculture	3.8%	2.6%	3.6%	2.1%
Developed	5.1%	4.2%	5%	3.8%
Natural	89.1%	91.6%	86.7%	90.1%
Wetland	2%	1.7%	4.7%	4%
Impervious	2%	1.8%	2.2%	2.2%

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Roaring Brook (MA32-30) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No data are available, so the Aesthetics Use for Roaring Brook (MA32-30) 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 Roaring Brook (MA32-30) 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 Roaring Brook (MA32-30) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in Roaring Brook (MA32-30) at W1457 [second Carrington Rd bridge crossing above mouth of river, Montgomery] from May-Oct 2006 (n=5). Historic <i>E. coli</i> data from W1457 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1457	MassDEP	Water Quality	Roaring Brook	[second Carrington Road bridge crossing above mouth of river, Montgomery]	42.231292	-72.857699

Bacteria Data

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

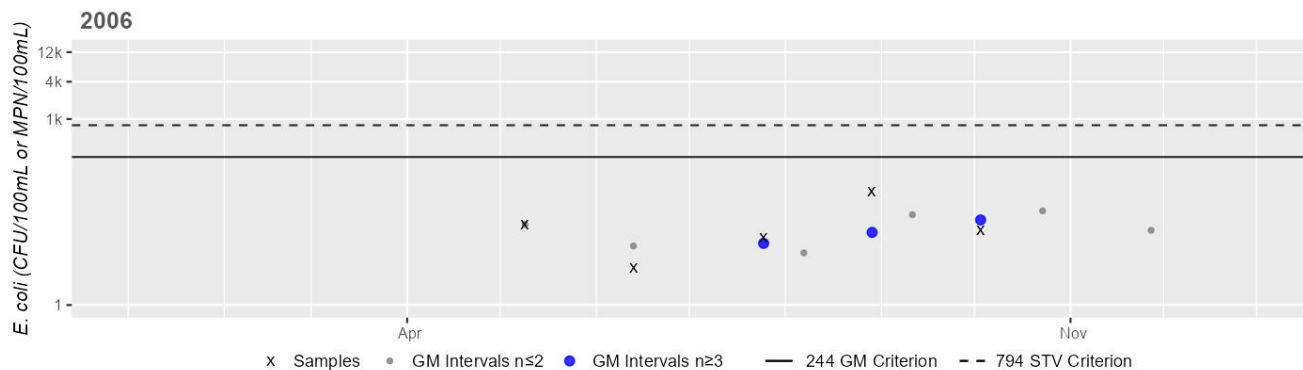
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1457	MassDEP	E. coli	05/09/06	10/03/06	5	4	68	15

Station MASSDEP_W1457 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	15
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Historic (1997-2010)

0%

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

Roaring Brook (MA32-61)

Location:	Headwaters, outlet small unnamed pond north of Lyman Road, Chester to mouth at confluence with West Branch Westfield River, Huntington.
AU Type:	RIVER
AU Size:	4.5 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Roaring Brook (MA32-61) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Robin Hood Lake (MA32057)

Location:	Becket.
AU Type:	FRESHWATER LAKE
AU Size:	63 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	2	None	--	Unchanged

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Robin Hood Lake (MA32057) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for Robin Hood Lake (MA32057) is assessed as Fully Supporting based on the observations from the 2016 MAP2 macrophyte mapping survey. Since the prior Alert identified for low Secchi disk transparency was redundantly duplicated across multiple uses for this waterbody, this Alert is being removed from the Aesthetics Use. MassDEP staff recorded aesthetics observations as part of the MAP2 lake monitoring project in summer 2016 at two stations in Becket for this Robin Hood Lake AU; at the beach south of Robin Hood Lake Dam (NAT ID: MA00206), west off Will Scarlet Drive (W2612/MAP2L-004S) in summer 2016 (n=5) and at the deep hole index site, north eastern lobe of lake (W2621/MAP2L-004) in summer 2016 (n=3). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded at either station, or littoral zone duckweed recorded in ten shoreline plots (n=1), though field staff noted green water color on two occasions at W2612 and once at W2621. During the MAP2 macrophyte mapping survey (n=1) in Aug 2016, less than 25% (12.5%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2612	MassDEP	Water Quality	West Branch Walker Brook/Robin Hood Lake	[beach south of Robin Hood Lake Dam (NAT ID: MA00206), west off Will Scarlet Drive, Becket]	42.251383	-73.061615
W2621	MassDEP	Water Quality	West Branch Walker Brook/Robin Hood Lake	[index site, north eastern lobe of lake, Becket]	42.251574	-73.062172

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
W2612	2016	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2612 (MAP2L-004S) on Robin Hood Lake (MA32057) during 5 site visits between May 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 littoral survey (n=1), duckweed was not noted in any of the 10 shoreline plots.
W2621	2016	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2621 (MAP2L-004) on Robin Hood Lake (MA32057) during 3 site visits between Jun 2016 and Sep 2016. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted green water color (n=1). During the MAP2 macrophyte mapping survey (n=1) in Aug 2016, less than 25% (12.5%) 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
W2612	Robin Hood Lake	2016	Aesthetics Impaired?	No	5	5
W2612	Robin Hood Lake	2016	Color	Greenish	2	5
W2612	Robin Hood Lake	2016	Color	None	3	5
W2612	Robin Hood Lake	2016	Objectionable Deposits	No	5	5
W2612	Robin Hood Lake	2016	Odor	None	5	5
W2612	Robin Hood Lake	2016	Scum	No	5	5
W2612	Robin Hood Lake	2016	Turbidity	None	4	5
W2612	Robin Hood Lake	2016	Turbidity	Slightly Turbid	1	5
W2621	Robin Hood Lake	2016	Aesthetics Impaired?	No	3	3
W2621	Robin Hood Lake	2016	Aquatic Plant Density, Overall	None	3	3
W2621	Robin Hood Lake	2016	Color	Greenish	1	3
W2621	Robin Hood Lake	2016	Color	None	2	3
W2621	Robin Hood Lake	2016	Objectionable Deposits	No	3	3
W2621	Robin Hood Lake	2016	Odor	None	3	3
W2621	Robin Hood Lake	2016	Scum	No	3	3
W2621	Robin Hood Lake	2016	Turbidity	None	3	3

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
<p>The Primary Contact Recreation Use for Robin Hood Lake (MA32057) is assessed as Fully Supporting. In Robin Hood Lake (MA32057), MassDEP collected Secchi and cyanobacteria cell count data at W2621 [MAP2L-004, Index-deep hole] (2016) and cyanobacteria cell count and cyanotoxins data at W2612 [MAP2L-004S, Shoreline] (2016). The prior Alert identified for low Secchi disk transparency is being removed as Secchi depth data indicated water clarity meeting the 1.2m (4ft) threshold at W2621 in 2016 (n=3, 2.4-3.87m). The cyanobacteria cell count did not exceed 70,000 cells/ml in any of the water samples in 2016 (n=6). Analysis of microcystins samples from W2612 in 2016 (n=3) indicated that the concentrations did not exceed the threshold of 8 µg/L. MassDEP staff collected <i>E. coli</i> bacteria samples in Robin Hood Lake (MA32057) at W2612 [beach S of Robin Hood Lake Dam (T ID: MA00206), W off Will Scarlet Drive, Becket] from May-Sep 2016 (n=5). <i>E. coli</i> data from W2612 meet 2024 CALM guidance.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2612	MassDEP	Water Quality	West Branch Walker Brook/Robin Hood Lake	[beach south of Robin Hood Lake Dam (NAT ID: MA00206), west off Will Scarlet Drive, Becket]	42.251383	-73.061615
W2621	MassDEP	Water Quality	West Branch Walker Brook/Robin Hood Lake	[index site, north eastern lobe of lake, Becket]	42.251574	-73.062172

Bacteria Data

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

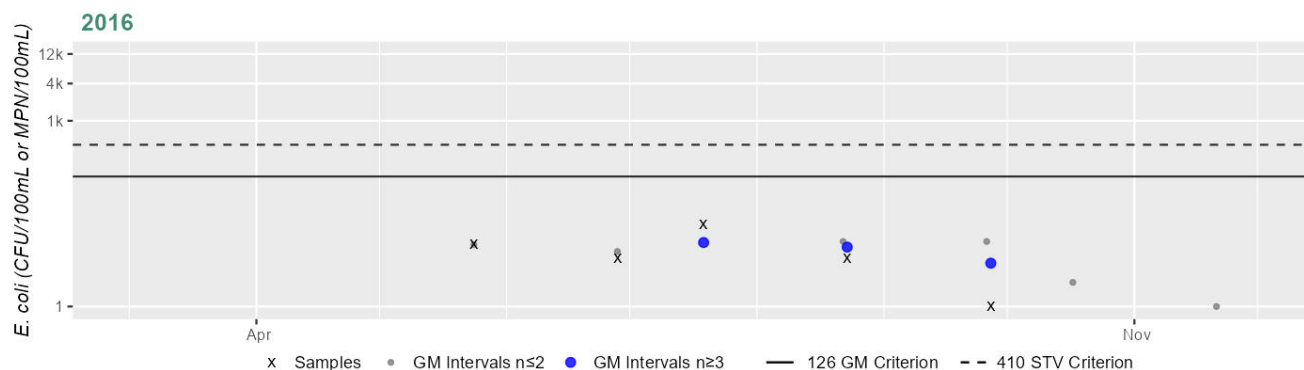
(MassDEP Undated 6) (MassDEP Undated 4)

[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
W2612	MassDEP	E. coli	05/23/16	09/26/16	5	1	21	5

Station MASSDEP_W2612 - Escherichia coli

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



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

Cumulative %GMI Exceedance

Current (2011-2022)

0%

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

Other Indicators

Summary Statement for 2011-2022 Cyanobacteria Cell Count and Cyanotoxin Data, and Secchi Depth Data

(MassDEP Undated 6) (MassDEP Undated 4)

Data Year(s)	Summary
2016	In Robin Hood Lake (MA32057) in 2016, MassDEP collected Secchi and cyanobacteria cell count data at W2621 [MAP2L-004, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at W2612 [MAP2L-004S, Shoreline]. At the index station W2621 (station depth=4.1 m) the Secchi depth measurements ranged from 2.4-3.87 m (n=3) indicating water clarity meeting the 1.2 m (4 ft) threshold. The cyanobacteria cell count did not exceed 70,000 cells/mL in any of the water samples (n=6). Analysis of microcystins samples from the shoreline station W2612 (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)
W2612	Robin Hood Lake	Shoreline	2016	3	0	NA
W2621	Robin Hood Lake	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 Robin Hood Lake (MA32057) is assessed as Fully Supporting. Since the prior Alert identified for low Secchi disk transparency was redundantly duplicated across multiple uses for this waterbody, this Alert is being removed from the Secondary Contact Use. In Robin Hood Lake (MA32057), MassDEP collected cyanobacteria cell count data at W2621 [MAP2L-004, Index-deep hole] (2016) and cyanobacteria cell count and cyanotoxins data at W2612 [MAP2L-004S, Shoreline] (2016). The cyanobacteria cell count did not exceed 70,000 cells/ml in any of the water samples in 2016 (n=6). Analysis of microcystins samples from W2612 in 2016 (n=3) indicated that the concentrations did not exceed the threshold of 8 µg/L. MassDEP staff collected <i>E. coli</i> bacteria samples in Robin Hood Lake (MA32057) at W2612 [beach S of Robin Hood Lake Dam (T ID: MA00206), W off Will Scarlet Drive, Becket] from May-Sep 2016 (n=5). <i>E. coli</i> data from W2612 meet 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2612	MassDEP	Water Quality	West Branch Walker Brook/Robin Hood Lake	[beach south of Robin Hood Lake Dam (NAT ID: MA00206), west off Will Scarlet Drive, Becket]	42.251383	-73.061615

Bacteria Data

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

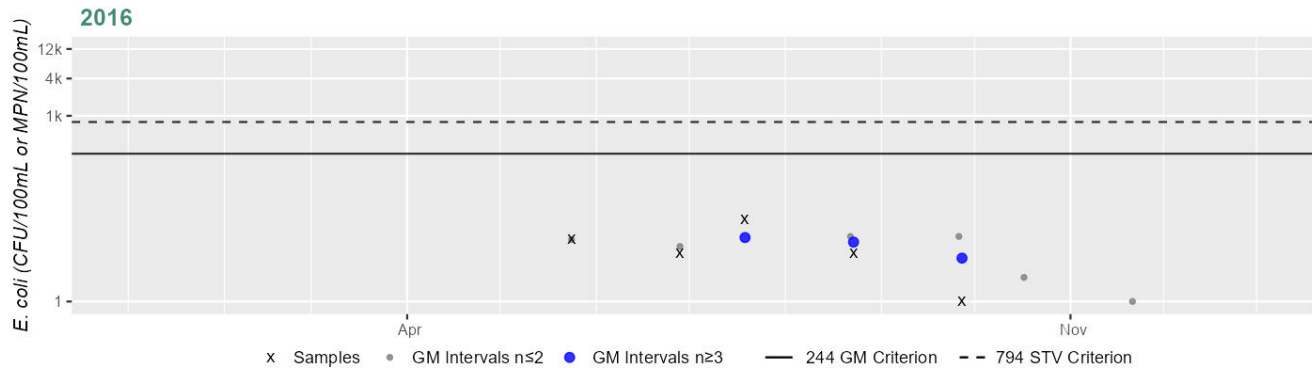
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W2612	MassDEP	E. coli	05/23/16	09/26/16	5	1	21	5

Station MASSDEP_W2612 - Escherichia coli

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



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

Cumulative %GMI Exceedance

Current (2011-2022)

0%

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

Rudd Pond (MA32060)

Location:	Becket.
AU Type:	FRESHWATER LAKE
AU Size:	72 ACRES
Classification/Qualifier:	B

No usable data were available for Rudd Pond (MA32060) 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

Russell Pond (MA32061)

Location:	Russell.
AU Type:	FRESHWATER LAKE
AU Size:	82 ACRES
Classification/Qualifier:	B

No usable data were available for Russell Pond (MA32061) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

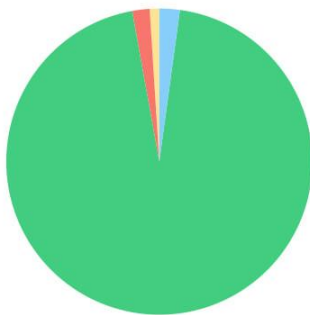
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Sanderson Brook (MA32-31)

Location:	Headwaters (perennial portion), in the Chester/Blandford State Forest, north of Chester Road, Blandford to mouth at confluence with West Branch Westfield River, Chester.
AU Type:	RIVER
AU Size:	2.7 MILES
Classification/Qualifier:	B

Sanderson Brook (MA32-31)

Watershed Area: 4.62 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	4.62	4.62	1.30	1.30
Agriculture	1%	1%	0.1%	0.1%
Developed	1.8%	1.8%	2%	2%
Natural	95%	95%	95.1%	95.1%
Wetland	2.2%	2.2%	2.7%	2.7%
Impervious	0.8%	0.8%	0.9%	0.9%

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Sanderson Brook (MA32-31) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for Sanderson Brook (MA32-31) is assessed as Fully Supporting based on the lack of objectionable conditions observed by MassDEP staff during the summers 2011-2015, 2017 and 2019. MassDEP staff recorded aesthetics observations for one station close to the downstream end of this Sanderson Brook AU on the Sanderson Brook Road bridge nearest Rt. 20 (W1458) during the summers of 2011 (n=3), 2012 (n=5), 2013 (n=5), 2014 (n=4), 2015 (n=4), 2017 (n=5) and 2019 (n=4). There were generally no noted objectionable conditions (odors, deposits, growths, or turbidity) recorded by DEP sampling crews during each year of sampling.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1458	MassDEP	Water Quality	Sanderson Brook	[Sanderson Brook Road bridge nearest Route 20, Chester]	42.254183	-72.948699

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
W1458	2011	3	Aesthetic observations were made by MassDEP field sampling crews at Station W1458 on Sanderson Brook (MA32-31) during 3 site visits between Jun 2011 and Aug 2011. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W1458	2012	5	Aesthetic observations were made by MassDEP field sampling crews at Station W1458 on Sanderson Brook (MA32-31) during 5 site visits between May 2012 and Oct 2012. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W1458	2013	5	Aesthetic observations were made by MassDEP field sampling crews at Station W1458 on Sanderson Brook (MA32-31) during 5 site visits between May 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W1458	2014	4	Aesthetic observations were made by MassDEP field sampling crews at Station W1458 on Sanderson Brook (MA32-31) during 4 site visits between May 2014 and Aug 2014. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W1458	2015	4	Aesthetic observations were made by MassDEP field sampling crews at Station W1458 on Sanderson Brook (MA32-31) during 4 site visits between May 2015 and Aug 2015. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W1458	2017	5	Aesthetic observations were made by MassDEP field sampling crews at Station W1458 on Sanderson Brook (MA32-31) during 5 site visits between May 2017 and Sep 2017. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W1458	2019	4	Aesthetic observations were made by MassDEP field sampling crews at Station W1458 on Sanderson Brook (MA32-31) 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
W1458	2011	3	3	0
W1458	2012	5	5	0
W1458	2013	5	3	0
W1458	2014	4	4	0
W1458	2015	4	4	0
W1458	2017	5	5	0
W1458	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
W1458	Sanderson Brook	2011	Aquatic Plant Density, Overall	None	3	3
W1458	Sanderson Brook	2011	Color	Blackish	1	3
W1458	Sanderson Brook	2011	Color	None	2	3
W1458	Sanderson Brook	2011	Objectionable Deposits	No	3	3
W1458	Sanderson Brook	2011	Odor	None	3	3
W1458	Sanderson Brook	2011	Periphyton Density, Filamentous	None	3	3
W1458	Sanderson Brook	2011	Periphyton Density, Film	None	2	3
W1458	Sanderson Brook	2011	Periphyton Density, Film	Sparse	1	3
W1458	Sanderson Brook	2011	Scum	No	3	3
W1458	Sanderson Brook	2011	Turbidity	None	3	3
W1458	Sanderson Brook	2012	Aquatic Plant Density, Overall	None	5	5
W1458	Sanderson Brook	2012	Color	None	5	5
W1458	Sanderson Brook	2012	Objectionable Deposits	No	5	5

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W1458	Sanderson Brook	2012	Odor	None	5	5
W1458	Sanderson Brook	2012	Periphyton Density, Filamentous	None	5	5
W1458	Sanderson Brook	2012	Periphyton Density, Film	None	4	5
W1458	Sanderson Brook	2012	Periphyton Density, Film	Sparse	1	5
W1458	Sanderson Brook	2012	Scum	No	5	5
W1458	Sanderson Brook	2012	Turbidity	None	5	5
W1458	Sanderson Brook	2013	Aesthetics Impaired?	No	5	5
W1458	Sanderson Brook	2013	Aquatic Plant Density, Overall	None	5	5
W1458	Sanderson Brook	2013	Color	None	5	5
W1458	Sanderson Brook	2013	Objectionable Deposits	No	5	5
W1458	Sanderson Brook	2013	Odor	None	5	5
W1458	Sanderson Brook	2013	Periphyton Density, Filamentous	None	2	5
W1458	Sanderson Brook	2013	Periphyton Density, Filamentous	NR	2	5
W1458	Sanderson Brook	2013	Periphyton Density, Filamentous	Sparse	1	5
W1458	Sanderson Brook	2013	Periphyton Density, Film	None	2	5
W1458	Sanderson Brook	2013	Periphyton Density, Film	NR	2	5
W1458	Sanderson Brook	2013	Periphyton Density, Film	Sparse	1	5
W1458	Sanderson Brook	2013	Scum	No	5	5
W1458	Sanderson Brook	2013	Turbidity	None	5	5
W1458	Sanderson Brook	2014	Aesthetics Impaired?	No	4	4
W1458	Sanderson Brook	2014	Aquatic Plant Density, Overall	None	4	4
W1458	Sanderson Brook	2014	Color	None	4	4
W1458	Sanderson Brook	2014	Objectionable Deposits	No	4	4
W1458	Sanderson Brook	2014	Odor	None	4	4
W1458	Sanderson Brook	2014	Periphyton Density, Filamentous	None	4	4
W1458	Sanderson Brook	2014	Periphyton Density, Film	None	4	4
W1458	Sanderson Brook	2014	Scum	No	4	4
W1458	Sanderson Brook	2014	Turbidity	None	4	4
W1458	Sanderson Brook	2015	Aesthetics Impaired?	No	4	4
W1458	Sanderson Brook	2015	Aquatic Plant Density, Overall	None	4	4
W1458	Sanderson Brook	2015	Color	None	4	4
W1458	Sanderson Brook	2015	Objectionable Deposits	No	4	4
W1458	Sanderson Brook	2015	Odor	None	4	4
W1458	Sanderson Brook	2015	Periphyton Density, Filamentous	None	4	4
W1458	Sanderson Brook	2015	Periphyton Density, Film	None	4	4
W1458	Sanderson Brook	2015	Scum	No	4	4
W1458	Sanderson Brook	2015	Turbidity	None	4	4
W1458	Sanderson Brook	2017	Aesthetics Impaired?	No	5	5

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W1458	Sanderson Brook	2017	Aquatic Plant Density, Overall	None	4	5
W1458	Sanderson Brook	2017	Aquatic Plant Density, Overall	NR	1	5
W1458	Sanderson Brook	2017	Color	None	5	5
W1458	Sanderson Brook	2017	Objectionable Deposits	No	5	5
W1458	Sanderson Brook	2017	Odor	None	5	5
W1458	Sanderson Brook	2017	Periphyton Density, Filamentous	None	4	5
W1458	Sanderson Brook	2017	Periphyton Density, Filamentous	Sparse	1	5
W1458	Sanderson Brook	2017	Periphyton Density, Film	None	3	5
W1458	Sanderson Brook	2017	Periphyton Density, Film	Sparse	2	5
W1458	Sanderson Brook	2017	Scum	No	5	5
W1458	Sanderson Brook	2017	Turbidity	None	5	5
W1458	Sanderson Brook	2019	Aesthetics Impaired?	No	4	4
W1458	Sanderson Brook	2019	Aquatic Plant Density, Overall	None	4	4
W1458	Sanderson Brook	2019	Color	Light Yellow/Tan	1	4
W1458	Sanderson Brook	2019	Color	None	3	4
W1458	Sanderson Brook	2019	Objectionable Deposits	No	4	4
W1458	Sanderson Brook	2019	Odor	None	4	4
W1458	Sanderson Brook	2019	Periphyton Density, Filamentous	None	4	4
W1458	Sanderson Brook	2019	Periphyton Density, Film	None	2	4
W1458	Sanderson Brook	2019	Periphyton Density, Film	Sparse	2	4
W1458	Sanderson Brook	2019	Scum	No	4	4
W1458	Sanderson 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 Sanderson Brook (MA32-31) 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 Sanderson Brook (MA32-31) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information. MassDEP staff collected *E. coli* bacteria samples in Sanderson Brook (MA32-31) at W1458 [Sanderson Brook Rd bridge nearest Rt. 20, Chester] from May-Oct 2006 (n=5). Historic *E. coli* data from W1458 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1458	MassDEP	Water Quality	Sanderson Brook	[Sanderson Brook Road bridge nearest Route 20, Chester]	42.254183	-72.948699

Bacteria Data

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

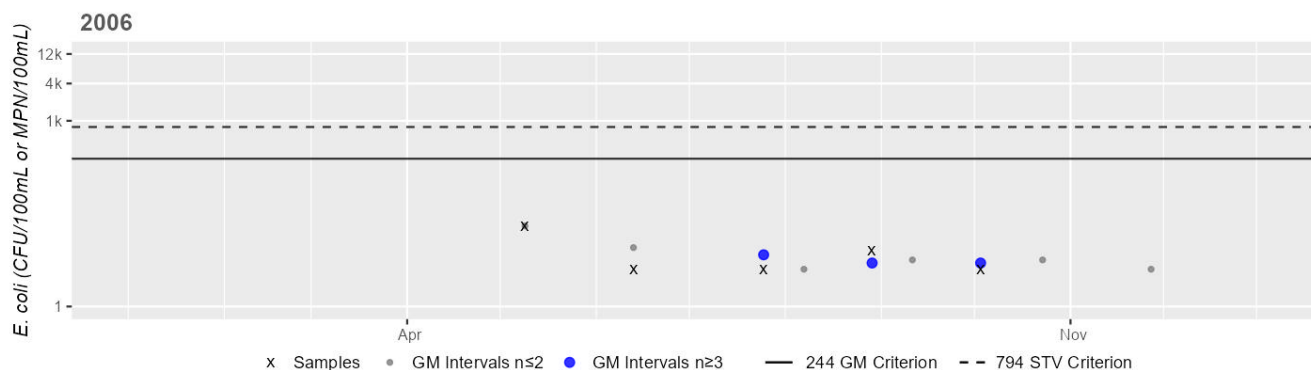
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1458	MassDEP	E. coli	05/09/06	10/03/06	5	4	20	6

Station MASSDEP_W1458 - 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%

Cumulative %GMI Exceedance

Historic (1997-2010)

0%

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

Scout Pond (MA32063)

Location:	Chesterfield.
AU Type:	FRESHWATER LAKE
AU Size:	37 ACRES
Classification/Qualifier:	B

No usable data were available for Scout Pond (MA32063) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

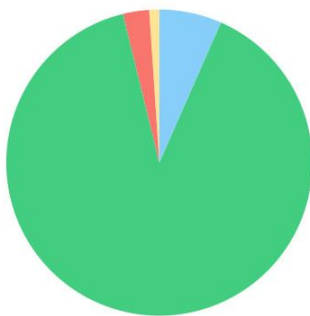
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Shaker Mill Brook (MA32-18)

Location:	Headwaters, west of Watson Road, Washington to mouth at confluence with Depot Brook, Becket.
AU Type:	RIVER
AU Size:	4.1 MILES
Classification/Qualifier:	B: CWF

Shaker Mill Brook (MA32-18)

Watershed Area: 6.43 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	6.43	4.72	1.83	1.23
Agriculture	1.1%	1%	1.1%	0.4%
Developed	2.8%	3.3%	3%	3.1%
Natural	89.6%	88.4%	86%	85.4%
Wetland	6.6%	7.2%	9.9%	11.1%
Impervious	1.3%	1.6%	1.6%	1.8%

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Shaker Mill Brook (MA32-18) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Shaker Mill Brook (MA32-18) is assessed as Fully Supporting. MassDEP staff recorded aesthetics observations for one station in the downstream half of this Shaker Mill Brook AU (MA32-18) ~1150 feet upstream of Nocher Rd, Becket (W2909) during 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
W2909	MassDEP	Water Quality	Shaker Mill Brook	[approximately 1150 feet upstream of Nocher Road, Becket]	42.332209	-73.106803

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
W2909	2019	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2909 on Shaker Mill Brook (MA32-18) 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
W2909	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
W2909	Shaker Mill Brook	2019	Aesthetics Impaired?	No	4	4
W2909	Shaker Mill Brook	2019	Aquatic Plant Density, Overall	None	4	4

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2909	Shaker Mill Brook	2019	Color	Light Yellow/Tan	2	4
W2909	Shaker Mill Brook	2019	Color	None	2	4
W2909	Shaker Mill Brook	2019	Objectionable Deposits	No	4	4
W2909	Shaker Mill Brook	2019	Odor	None	4	4
W2909	Shaker Mill Brook	2019	Periphyton Density, Filamentous	None	4	4
W2909	Shaker Mill Brook	2019	Periphyton Density, Film	None	1	4
W2909	Shaker Mill Brook	2019	Periphyton Density, Film	Sparse	3	4
W2909	Shaker Mill Brook	2019	Scum	No	4	4
W2909	Shaker Mill 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 Shaker Mill Brook (MA32-18) and available aesthetics observations for this waterbody 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 Shaker Mill Brook (MA32-18) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information. MassDEP staff collected *E. coli* bacteria samples in Shaker Mill Brook (MA32-18) at W0257 [Lovers Lane bridge, Becket] from May-Oct 2006 (n=5). Historic *E. coli* data from W0257 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0257	MassDEP	Water Quality	Shaker Mill Brook	[Lovers Lane bridge, Becket]	42.330943	-73.091713

Bacteria Data

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

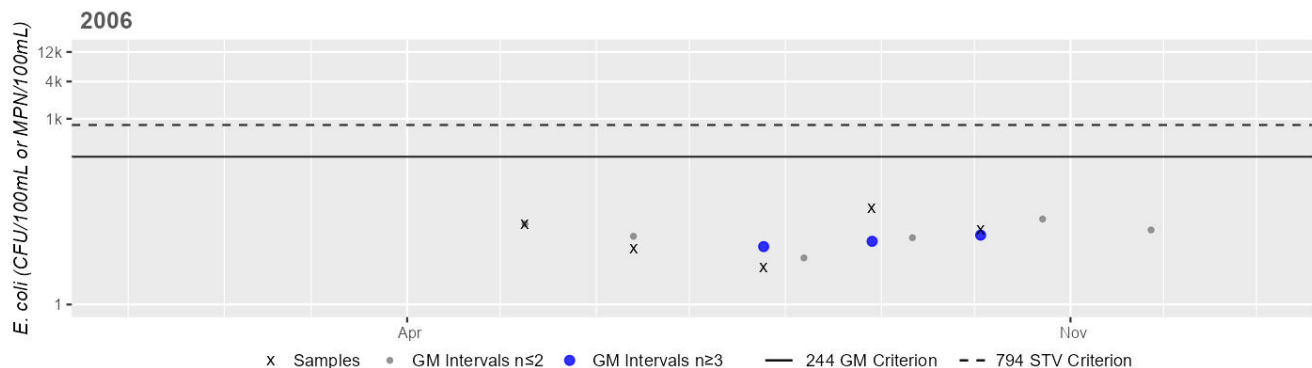
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W0257	MassDEP	E. coli	05/09/06	10/03/06	5	4	36	12

Station MASSDEP_W0257 - *Escherichia coli*

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



Variable*	Result
Samples	5
SeasGM	12
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Shaw Brook (MA32-52)

Location:	Headwaters, north of Shaw Road, Windsor to mouth at confluence with Westfield Brook, Windsor.
AU Type:	RIVER
AU Size:	2.2 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Shaw Brook (MA32-52) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Skunk Brook (MA32-83)

Location:	Headwaters, north of Fisk Road, Chester to mouth at confluence with Kinne Brook, Chester.
AU Type:	RIVER
AU Size:	0.6 MILES
Classification/Qualifier:	A: PWS, ORW, CWF (Tributary)

No usable data were available for Skunk Brook (MA32-83) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Sodum Brook (MA32-84)

Location:	Headwaters, perennial portion southeast of South Quarter Road, Russell to mouth at confluence with Little River, Russell.
AU Type:	RIVER
AU Size:	0.9 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Sodum Brook (MA32-84) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Stage Brook (MA32-60)

Location:	Headwaters, confluence of Freeland Brook and Wigwam Brook, Russell to mouth at confluence with Black Brook (forming headwaters Bradley Brook), Russell.
AU Type:	RIVER
AU Size:	1 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Stage Brook (MA32-60) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Steep Bank Brook (MA32-53)

Location:	Headwaters (perennial portion), northeast of Bates Road, Windsor to mouth at confluence with Westfield River, Windsor.
AU Type:	RIVER
AU Size:	1 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Steep Bank Brook (MA32-53) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Stones Brook (MA32-48)

Location:	Headwaters, outlet small unnamed pond north of Dyers Road, Ashfield to mouth at confluence with Swift River, Goshen.
AU Type:	RIVER
AU Size:	4.7 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Stones Brook (MA32-48) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

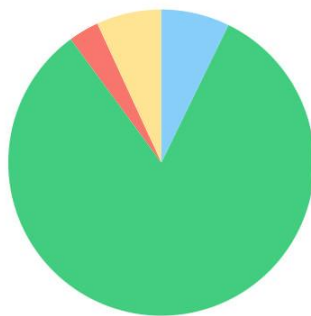
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Swift River (MA32-12)

Location:	Headwaters, west of Plainfield Road, Hawley to mouth at confluence with Westfield River at village of Swift River, Cummington.
AU Type:	RIVER
AU Size:	11.5 MILES
Classification/Qualifier:	B: CWF

Swift River (MA32-12)

Watershed Area: 29.98 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	29.98	10.03	7.82	2.45
Agriculture	6.9%	3.6%	4.4%	3%
Developed	3.2%	3.7%	3.1%	4.1%
Natural	82.7%	86.6%	75.8%	78.4%
Wetland	7.2%	6.2%	16.7%	14.6%
Impervious	1.4%	1.5%	1.6%	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	
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Swift River (MA32-12) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No data are available, so the Aesthetics Use for Swift River (MA32-12) is Not Assessed.	

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No bacteria or other indicator data for the Swift River (MA32-12) are available, so the Primary Contact Recreation Use is Not Assessed.	

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No bacteria or other indicator data for the Swift River (MA32-12) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in the Swift River (MA32-12) at W1467 [Shaw Rd bridge, Goshen] from May-Oct 2006 (n=5). Historic <i>E. coli</i> data from W1467 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1467	MassDEP	Water Quality	Swift River	[Shaw Road bridge, Goshen]	42.455729	-72.850032

Bacteria Data

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

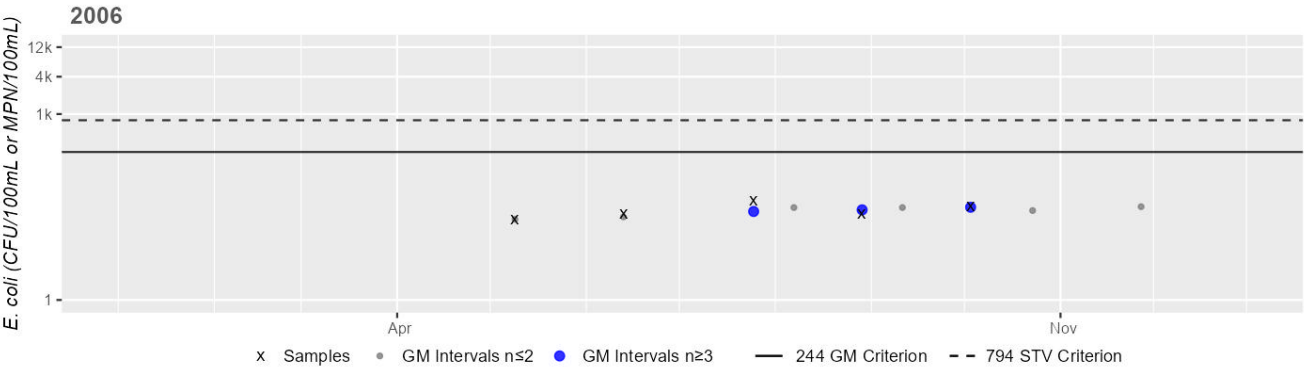
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1467	MassDEP	E. coli	05/09/06	10/03/06	5	20	40	27

Station MASSDEP_W1467 - Escherichia coli

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



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

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

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

Sykes Brook (MA32-85)

Location:	Headwaters, west of Goss Hill Road and the Chester/Huntington border, Chester to mouth at confluence with the Westfield River, Huntington.
AU Type:	RIVER
AU Size:	3.1 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Sykes Brook (MA32-85) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Tannery Brook (MA32-86)

Location:	Headwaters, perennial portion southwest of North Blandford Road, Blandford to mouth at confluence with Bedlam Brook, Blandford.
AU Type:	RIVER
AU Size:	0.8 MILES
Classification/Qualifier:	A: PWS, ORW, CWF (Tributary)

No usable data were available for Tannery Brook (MA32-86) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Tower Brook (MA32-47)

Location:	Headwaters, north of Dodwells Road, Cummington to mouth at confluence with Westfield River, Chesterfield.
AU Type:	RIVER
AU Size:	4.1 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Tower Brook (MA32-47) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

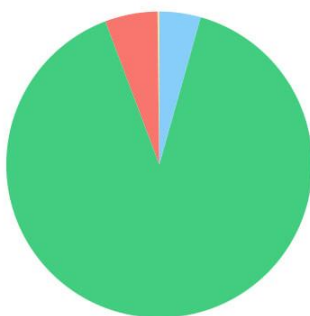
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Walker Brook (MA32-20)

Location:	Headwaters, outlet Center Pond (north of YMCA Road), Becket to mouth at confluence with West Branch Westfield River, Chester.
AU Type:	RIVER
AU Size:	7.1 MILES
Classification/Qualifier:	B: CWF

Walker Brook (MA32-20)

Watershed Area: 18.74 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	18.74	9.18	5.14	2.58
Agriculture	0.2%	0.3%	0.1%	0.1%
Developed	5.5%	2.7%	6.7%	4%
Natural	89.9%	93.8%	86.7%	89.5%
Wetland	4.4%	3.2%	6.6%	6.4%
Impervious	2.9%	1.5%	3.6%	2.5%

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Walker Brook (MA32-20) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No data are available, so the Aesthetics Use for Walker Brook (MA32-20) is Not Assessed.	

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No bacteria or other indicator data for Walker Brook (MA32-20) are available, so the Primary Contact Recreation Use is Not Assessed.	

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No bacteria or other indicator data for Walker Brook (MA32-20) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in Walker Brook (MA32-20) at W0254 [Hampden St bridge,Chester] from May-Oct 2006 (n=5). Historic <i>E. coli</i> data from W0254 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0254	MassDEP	Water Quality	Walker Brook	[Hampden Street bridge,Chester]	42.279506	-72.988198

Bacteria Data

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

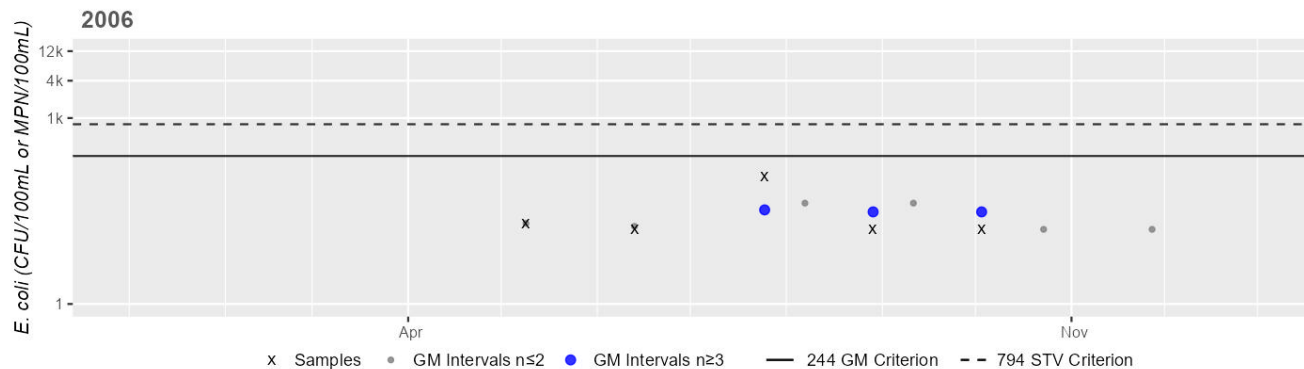
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W0254	MassDEP	E. coli	05/09/06	10/03/06	5	16	112	24

Station MASSDEP_W0254 - 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 Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Wards Stream (MA32-15)

Location:	Headwaters, south of Cold Street, Worthington to mouth at confluence with Watts Stream (forming headwaters Little River), Ringville (locality in Worthington).
AU Type:	RIVER
AU Size:	5.1 MILES
Classification/Qualifier:	B

Wards Stream (MA32-15)

Watershed Area: 4.23 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	4.23	3.58	1.09	0.94
Agriculture	15%	15.3%	5.7%	5.4%
Developed	8.9%	7.8%	5.4%	5%
Natural	67.4%	67.5%	68.4%	67.1%
Wetland	8.7%	9.5%	20.5%	22.5%
Impervious	2.8%	2.5%	1.9%	1.7%

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Wards Stream (MA32-15) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No data are available, so the Aesthetics Use for Wards Stream (MA32-15) 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 Wards Stream (MA32-15) 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 Wards Stream (MA32-15) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in Wards Stream (MA32-15) at W1449 [Buffington Hill Rd bridge, Worthington] from May-Oct 2006 (n=5). Historic <i>E. coli</i> data from W1449 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1449	MassDEP	Water Quality	Wards Stream	[Buffington Hill Road bridge, Worthington]	42.410958	-72.939534

Bacteria Data

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

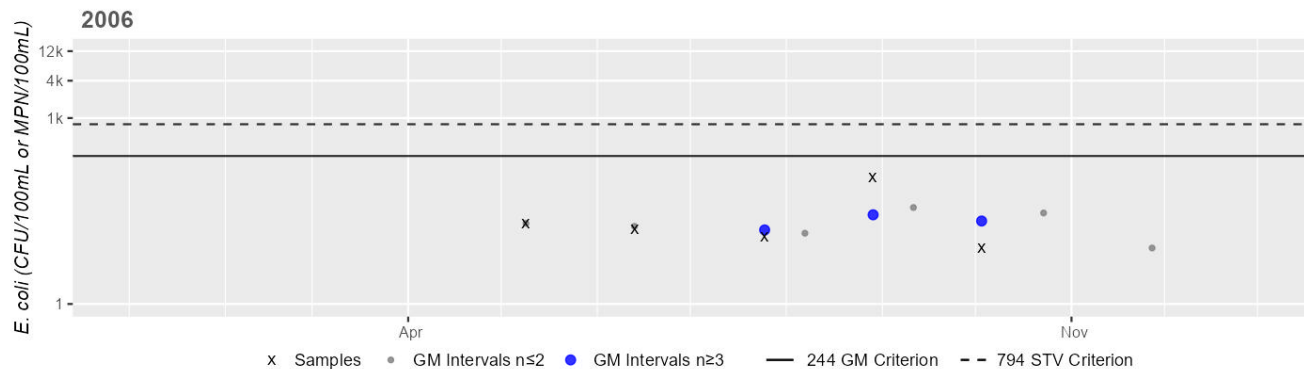
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1449	MassDEP	E. coli	05/09/06	10/03/06	5	8	108	20

Station MASSDEP_W1449 - Escherichia coli

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



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

Cumulative %GMI Exceedance

Historic (1997-2010)

0%

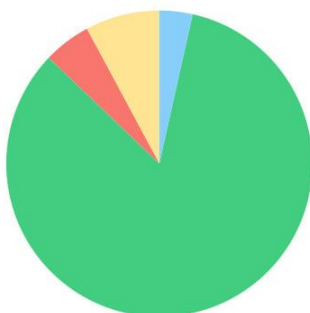
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes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

Watts Stream (MA32-14)

Location:	Headwaters, north of Buffington Hill Road, Worthington to mouth at confluence with Wards Stream (forming headwaters Little River), Ringville (locality in Worthington).
AU Type:	RIVER
AU Size:	5.2 MILES
Classification/Qualifier:	B

Watts Stream (MA32-14)

Watershed Area: 4.37 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	4.37	3.34	1.25	1.07
Agriculture	7.9%	8.7%	2.3%	2.6%
Developed	5%	6.2%	4%	4.7%
Natural	83.6%	81.6%	88.1%	87.5%
Wetland	3.5%	3.5%	5.6%	5.2%
Impervious	2%	2.5%	1.5%	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
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Watts Stream (MA32-14) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No data are available, so the Aesthetics Use for Watts Stream (MA32-14) 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 Watts Stream (MA32-14) 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 Watts Stream (MA32-14) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in Watts Stream (MA32-14) at W0269 [Prentice Rd bridge, Worthington] from May-Oct 2006 (n=5). Historic <i>E. coli</i> data from W0269 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0269	MassDEP	Water Quality	Watts Stream	[Prentice Road bridge, Worthington]	42.369945	-72.913731

Bacteria Data

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

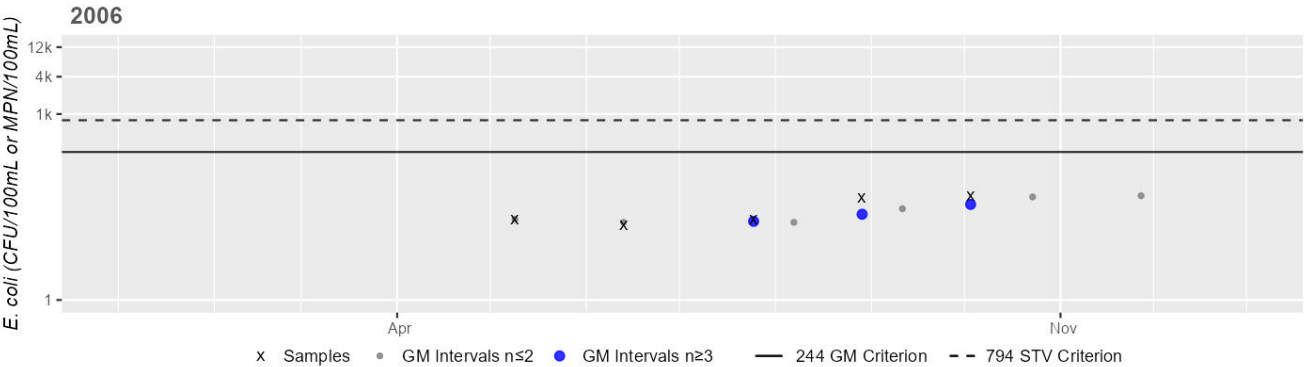
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W0269	MassDEP	E. coli	05/09/06	10/03/06	5	16	48	26

Station MASSDEP_W0269 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	26
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Webster Brook (MA32-68)

Location:	Headwaters northwest of Hasting Road, Goshen to mouth at confluence with Page Brook, Chesterfield (excluding approximately 0.6 mile through segment Hammond Pond MA32040 and approximately 0.7 mile through segment Scout Pond MA32063).
AU Type:	RIVER
AU Size:	4 MILES
Classification/Qualifier:	B

Webster Brook (MA32-68)

Watershed Area: 5.96 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	5.96	4.07	1.53	1.15
Agriculture	2.3%	2.1%	0.6%	0.5%
Developed	7%	6.3%	4.7%	4.8%
Natural	83.2%	84.6%	79.3%	79.3%
Wetland	7.6%	6.9%	15.4%	15.4%
Impervious	2.8%	2.5%	2.3%	2.4%

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Webster Brook (MA32-68) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Webster Brook (MA32-68) is assessed as Fully Supporting based on the lack of aesthetically objectionable conditions during summer 2012. MassDEP staff recorded aesthetics observations at one station at the downstream end of this Webster Brook AU ~625 feet downstream of Main Rd (Rt. 143) in Chesterfield (W2271/MAP2-209) in summer 2012 (n=6). There were generally no noted objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2271	MassDEP	Water Quality	Webster Brook	[approximately 625 feet downstream of Main Road (Route 143), Chesterfield (approximately 625 feet upstream from the confluence with Page Brook)]	42.382089	-72.812551

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
W2271	2012	6	Aesthetic observations were made by MassDEP field sampling crews at Station W2271 on Webster Brook (MA32-68) 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
W2271	2012	6	5	0

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

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2271	Webster Brook	2012	Aquatic Plant Density, Overall	None	6	6

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2271	Webster Brook	2012	Color	Brownish	1	6
W2271	Webster Brook	2012	Color	Light Yellow/Tan	5	6
W2271	Webster Brook	2012	Objectionable Deposits	No	6	6
W2271	Webster Brook	2012	Odor	Musty (Basement)	2	6
W2271	Webster Brook	2012	Odor	None	3	6
W2271	Webster Brook	2012	Odor	Rotting Vegetables	1	6
W2271	Webster Brook	2012	Periphyton Density, Filamentous	None	5	6
W2271	Webster Brook	2012	Periphyton Density, Filamentous	Unobservable	1	6
W2271	Webster Brook	2012	Periphyton Density, Film	None	5	6
W2271	Webster Brook	2012	Periphyton Density, Film	Unobservable	1	6
W2271	Webster Brook	2012	Scum	No	4	6
W2271	Webster Brook	2012	Scum	Yes	2	6
W2271	Webster Brook	2012	Turbidity	Moderately Turbid	1	6
W2271	Webster Brook	2012	Turbidity	None	3	6
W2271	Webster Brook	2012	Turbidity	Slightly Turbid	2	6

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
<p>Too limited bacteria data are available to assess the Primary Contact Recreation Use for Webster Brook (MA32-68) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information. MassDEP staff collected <i>E. coli</i> bacteria samples in Webster Brook (MA32-68) at W2271 [~625 ft downstream of Main Rd (Rt. 143), Chesterfield (~625 ft upstream from the confluence with Page Brook)] from May-Sep 2012 (n=6). <i>E. coli</i> data from W2271 are inconclusive according to the 2024 CALM to assess the Primary Contact Recreation Use because this single year, limited frequency dataset included both GMs below the threshold and STV exceedance of the threshold.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2271	MassDEP	Water Quality	Webster Brook	[approximately 625 feet downstream of Main Road (Route 143), Chesterfield (approximately 625 feet upstream from the confluence with Page Brook)]	42.382089	-72.812551

Bacteria Data

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

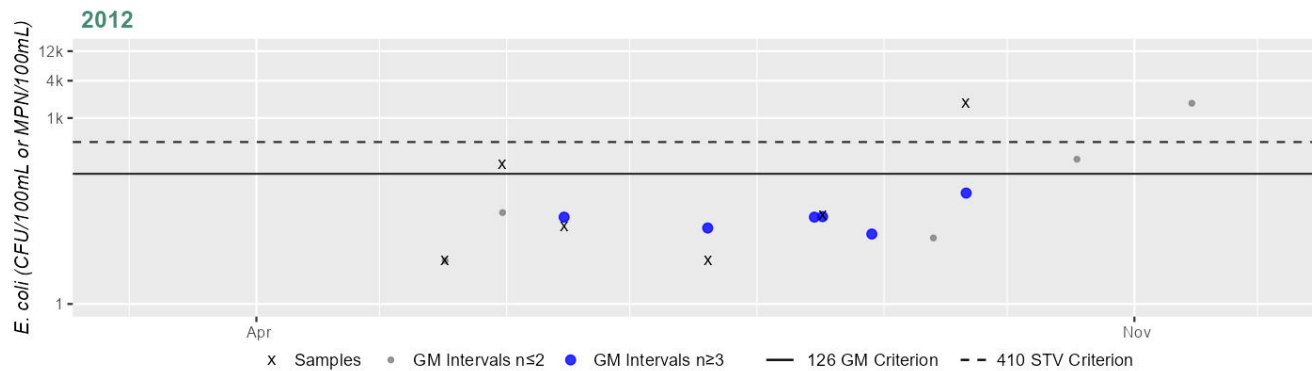
(MassDEP Undated 6) (MassDEP Undated 4)

[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
W2271	MassDEP	E. coli	05/16/12	09/20/12	6	5	1730	39

Station MASSDEP_W2271 - Escherichia coli

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



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

Cumulative %GMI Exceedance

Current (2011-2022)

0%

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

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO
2024/26 Use Attainment Summary	

Too limited bacteria data are available to assess the Secondary Contact Recreation Use for Webster Brook (MA32-68) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information. MassDEP staff collected *E. coli* bacteria samples in Webster Brook (MA32-68) at W2271 [~625 ft downstream of Main Rd (Rt. 143), Chesterfield (~625 ft upstream from the confluence with Page Brook)] from May-Sep 2012 (n=6). *E. coli* data from W2271 are inconclusive according to the 2024 CALM to assess the Secondary Contact Recreation Use because this single year, limited frequency dataset included both GMs below the threshold and STV exceedance of the threshold.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2271	MassDEP	Water Quality	Webster Brook	[approximately 625 feet downstream of Main Road (Route 143), Chesterfield (approximately 625 feet upstream from the confluence with Page Brook)]	42.382089	-72.812551

Bacteria Data

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

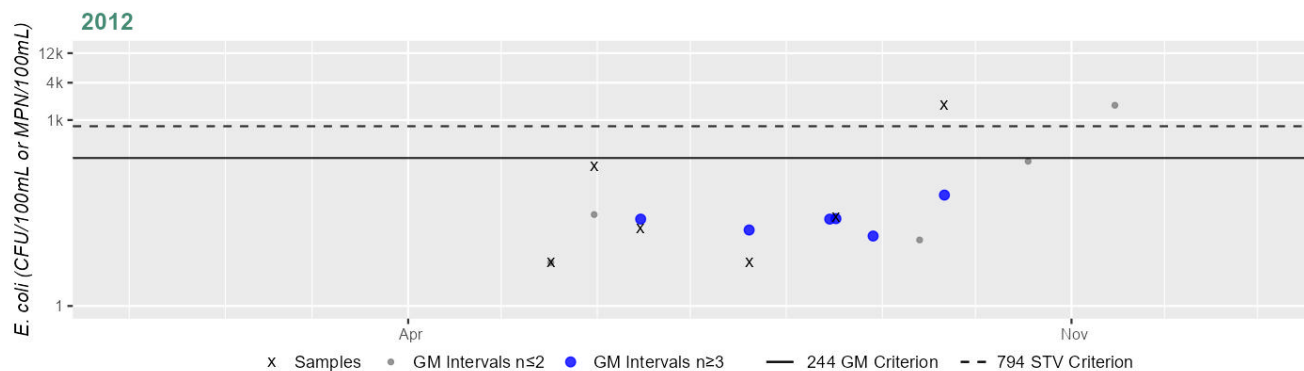
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W2271	MassDEP	E. coli	05/16/12	09/20/12	6	5	1730	39

Station MASSDEP_W2271 - Escherichia coli

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



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

Cumulative %GMI Exceedance

Current (2011-2022)

0%

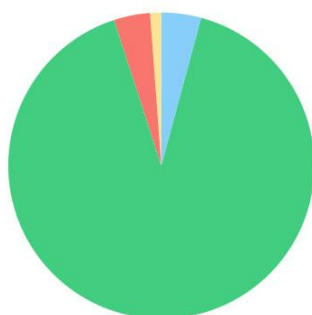
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes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

West Branch Westfield River (MA32-01)

Location:	Headwaters, confluence of Depot Brook and Yokum Brook, Becket to mouth at confluence with Westfield River, Huntington (HQP qualifier applies to portion of river upstream of Chester Center).
AU Type:	RIVER
AU Size:	17.2 MILES
Classification/Qualifier:	B: CWF, HQW* (*HQW applies to portion upstream of Chester Center)

West Branch Westfield River (MA32-01)

Watershed Area: 95.67 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	95.67	6.49	24.00	2.21
Agriculture	1.2%	0.6%	0.8%	0.8%
Developed	3.8%	4.2%	5.7%	8.1%
Natural	90.8%	92.6%	86.4%	87.3%
Wetland	4.2%	2.6%	7%	3.8%
Impervious	1.7%	1.9%	2.6%	3.9%

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for West Branch Westfield River (MA32-01) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for West Branch Westfield River (MA32-01) continues to be assessed as Fully Supporting based on the lack of objectionable conditions observed in the river during the summer of 2012. MassDEP staff recorded aesthetics observations at three stations (two of these with very limited data) on this West Branch Westfield River AU during the summer of 2012. These stations are described from upstream to downstream as follows: ~7600 feet downstream of Town Hill Rd/Bancroft Rd in Middlefield/Becket (W2254, n=1), ~160 feet downstream from the Middlefield Rd bridge in Chester (W2415, n=1), and north of Russell St, ~2500 feet upstream of Worthington Rd (Route 112) in Huntington (W2247, n=7). There were generally no noted objectionable conditions (odors, deposits, growths, or turbidity) recorded by field sampling crews.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2247	MassDEP	Water Quality	West Branch Westfield River	[north of Russell Street, approximately 2500 feet upstream of Worthington Road (Route 112), Huntington]	42.237477	-72.885396
W2254	MassDEP	Water Quality	West Branch Westfield River	[approximately 7600 feet downstream of Town Hill Road/Bancroft Road, Middlefield/Becket]	42.305982	-73.011471
W2415	MassDEP	Water Quality	West Branch Westfield River	[approximately 160 feet downstream from the Middlefield Road bridge, Chester]	42.300076	-72.984393

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
W2247	2012	6	Aesthetic observations were made by MassDEP field sampling crews at Station W2247 on West Branch Westfield River (MA32-01) during 6 site visits between May 2012 and Sep 2012. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2254	2012	1	Aesthetic observations were made by MassDEP field sampling crews at Station W2254 on West Branch Westfield River (MA32-01) during 1 site visit on May 16, 2012. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2415	2012	1	Aesthetic observations were made by MassDEP field sampling crews at Station W2415 on West Branch Westfield River (MA32-01) during 1 site visit on Jul 17, 2012. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).

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

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2247	2012	7	4	1
W2254	2012	1	1	0
W2415	2012	1	1	0

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

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2247	West Branch Westfield River	2012	Aquatic Plant Density, Overall	None	7	7
W2247	West Branch Westfield River	2012	Color	Light Yellow/Tan	2	7
W2247	West Branch Westfield River	2012	Color	None	5	7
W2247	West Branch Westfield River	2012	Objectionable Deposits	No	6	7
W2247	West Branch Westfield River	2012	Objectionable Deposits	Yes	1	7
W2247	West Branch Westfield River	2012	Odor	None	5	7
W2247	West Branch Westfield River	2012	Odor	Other (Eutrophic)	2	7
W2247	West Branch Westfield River	2012	Periphyton Density, Filamentous	None	2	7
W2247	West Branch Westfield River	2012	Periphyton Density, Filamentous	Sparse	1	7
W2247	West Branch Westfield River	2012	Periphyton Density, Filamentous	Unobservable	3	7
W2247	West Branch Westfield River	2012	Periphyton Density, Filamentous	Very Dense	1	7
W2247	West Branch Westfield River	2012	Periphyton Density, Film	None	3	7
W2247	West Branch Westfield River	2012	Periphyton Density, Film	Sparse	1	7

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2247	West Branch Westfield River	2012	Periphyton Density, Film	Unobservable	3	7
W2247	West Branch Westfield River	2012	Scum	No	6	7
W2247	West Branch Westfield River	2012	Scum	Yes	1	7
W2247	West Branch Westfield River	2012	Turbidity	Moderately Turbid	1	7
W2247	West Branch Westfield River	2012	Turbidity	None	5	7
W2247	West Branch Westfield River	2012	Turbidity	Slightly Turbid	1	7
W2254	West Branch Westfield River	2012	Aquatic Plant Density, Overall	None	1	1
W2254	West Branch Westfield River	2012	Color	Light Yellow/Tan	1	1
W2254	West Branch Westfield River	2012	Objectionable Deposits	No	1	1
W2254	West Branch Westfield River	2012	Odor	None	1	1
W2254	West Branch Westfield River	2012	Periphyton Density, Filamentous	None	1	1
W2254	West Branch Westfield River	2012	Periphyton Density, Film	None	1	1
W2254	West Branch Westfield River	2012	Scum	No	1	1
W2254	West Branch Westfield River	2012	Turbidity	None	1	1
W2415	West Branch Westfield River	2012	Aquatic Plant Density, Overall	None	1	1
W2415	West Branch Westfield River	2012	Color	None	1	1
W2415	West Branch Westfield River	2012	Objectionable Deposits	No	1	1
W2415	West Branch Westfield River	2012	Odor	None	1	1
W2415	West Branch Westfield River	2012	Periphyton Density, Filamentous	None	1	1
W2415	West Branch Westfield River	2012	Periphyton Density, Film	Moderate	1	1
W2415	West Branch Westfield River	2012	Scum	No	1	1
W2415	West Branch Westfield River	2012	Turbidity	None	1	1

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
<p>Too limited bacteria data are available to assess the Primary Contact Recreation Use for the West Branch Westfield River (MA32-01) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information. MassDEP staff collected <i>E. coli</i> bacteria samples in the West Branch Westfield River (MA32-01) in 2012 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: W2254 [~7600 ft downstream of Town Hill Rd/Bancroft Rd, Middlefield/Becket] from May 2012 (n=1), W2247 [N of Russell St, ~2500 ft upstream of Worthington Rd (Rt. 112), Huntington] from May-Sep 2012 (n=6). <i>E. coli</i> data from W2254 are too limited according to the 2024 CALM to assess the Primary Contact Recreation Use. <i>E. coli</i> data from W2247 are inconclusive according to the 2024 CALM to assess the Primary Contact Recreation Use because this single year, limited frequency dataset included both GMs below the threshold and STV exceedance of the threshold.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2247	MassDEP	Water Quality	West Branch Westfield River	[north of Russell Street, approximately 2500 feet upstream of Worthington Road (Route 112), Huntington]	42.237477	-72.885396
W2254	MassDEP	Water Quality	West Branch Westfield River	[approximately 7600 feet downstream of Town Hill Road/Bancroft Road, Middlefield/Becket]	42.305982	-73.011471

Bacteria Data

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

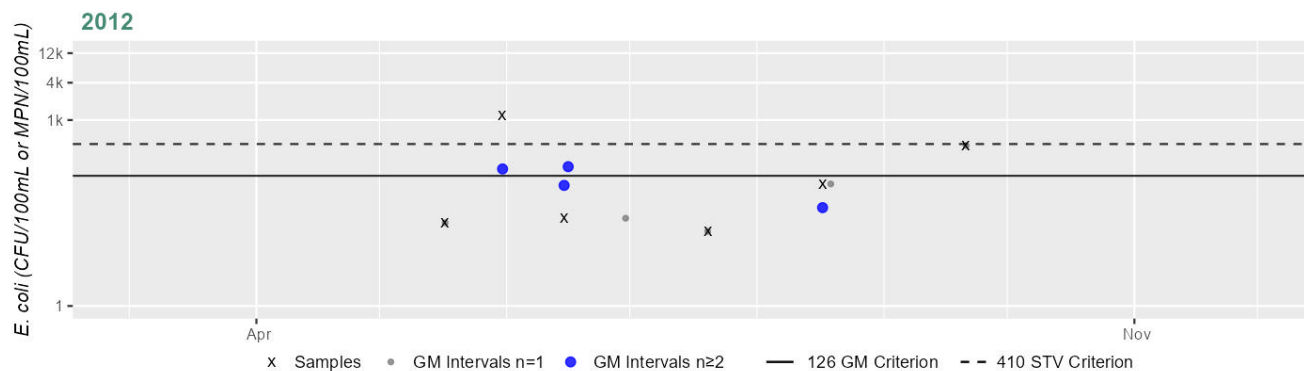
(MassDEP Undated 6) (MassDEP Undated 4)

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

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2247	MassDEP	E. coli	05/16/12	09/20/12	6	16	1200	85
W2254	MassDEP	E. coli	05/16/12	05/16/12	1	23	23	23

Station MASSDEP_W2247 - *Escherichia coli*

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



Variable*	Result
Samples	6
SeasGM	85
#GMI	4
#GMI Ex	2
%GMI Ex	50%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance

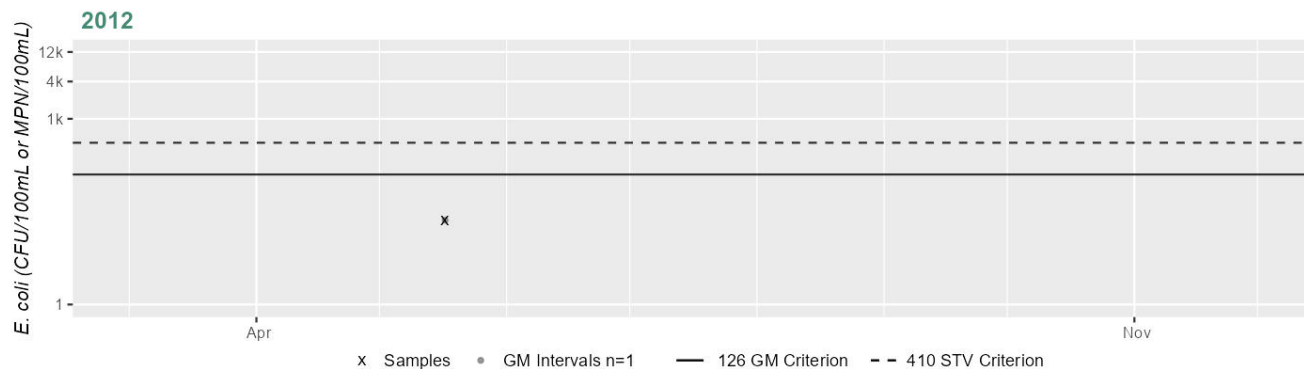
Current (2011-2022)

50%

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

Station MASSDEP_W2254 - *Escherichia coli*

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



Variable*	Result
Samples	1
SeasGM	23
#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 Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary

Too limited bacteria data are available to assess the Secondary Contact Recreation Use for the West Branch Westfield River (MA32-01) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information. MassDEP staff collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in the West Branch Westfield River (MA32-01) from 2006-2012 at 3 stations. Samples were collected from the following stations/sample years from upstream to downstream: W2254 [~7600 ft downstream of Town Hill Rd/Bancroft Rd, Middlefield/Becket] from May 2012 (n=1), W2247 [N of Russell St, ~2500 ft upstream of Worthington Rd (Rt. 112), Huntington] from May-Sep 2012 (n=6), W1455 [~0.1 mile downstream from Rt. 112 bridge, Huntington (~0.1 mile upstream of Huntington POTW discharge)] from May-Oct 2006 (n=5). *E. coli* data from W2254 are too limited according to the 2024 CALM to assess the Secondary Contact Recreation Use. *E. coli* data from W2247 are inconclusive according to the 2024 CALM to assess the Secondary Contact Recreation Use because this single year, limited frequency dataset included both GMs below the threshold and STV exceedance of the threshold. Historic *E. coli* data from W1455 meet 2024 CALM guidance. While the historic bacteria concentrations meet 2024 CALM guidance, too limited bacteria data from the current IR window (2011-2022) are available to assess the Secondary Contact Recreation Use.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1455	MassDEP	Water Quality	West Branch Westfield River	[approximatley 0.1 mile downstream from Route 112 bridge, Huntington (approximately 0.1 mile upstream of Huntington POTW discharge)]	42.233191	-72.878189
W2247	MassDEP	Water Quality	West Branch Westfield River	[north of Russell Street, approximately 2500 feet upstream of Worthington Road (Route 112), Huntington]	42.237477	-72.885396
W2254	MassDEP	Water Quality	West Branch Westfield River	[approximately 7600 feet downstream of Town Hill Road/Bancroft Road, Middlefield/Becket]	42.305982	-73.011471

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)

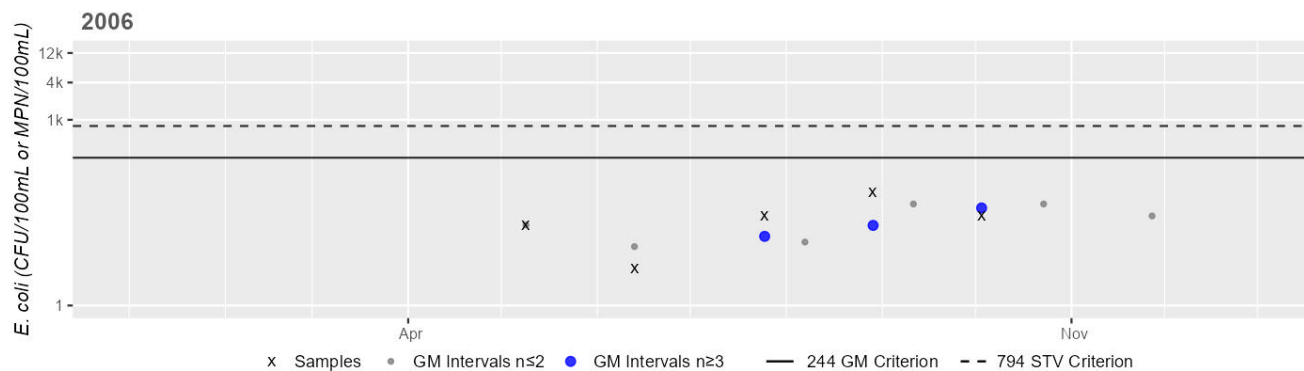
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1455	MassDEP	E. coli	05/09/06	10/03/06	5	4	68	21
W2247	MassDEP	E. coli	05/16/12	09/20/12	6	16	1200	85

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2254	MassDEP	E. coli	05/16/12	05/16/12	1	23	23	23

Station MASSDEP_W1455 - 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%

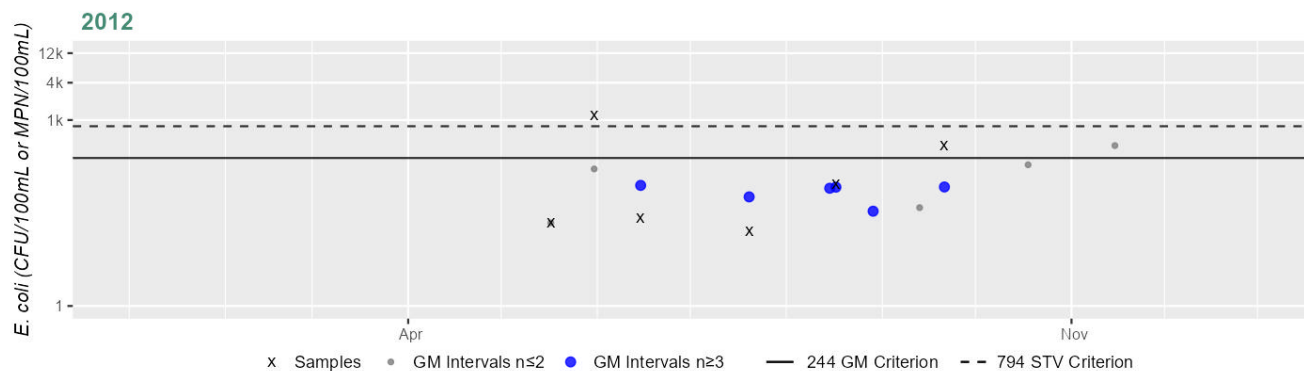
Cumulative %GMI Exceedance
Historic (1997-2010)

0%

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

Station MASSDEP_W2247 - *Escherichia coli*

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



Variable*	Result
Samples	6
SeasGM	85
#GMI	6
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance

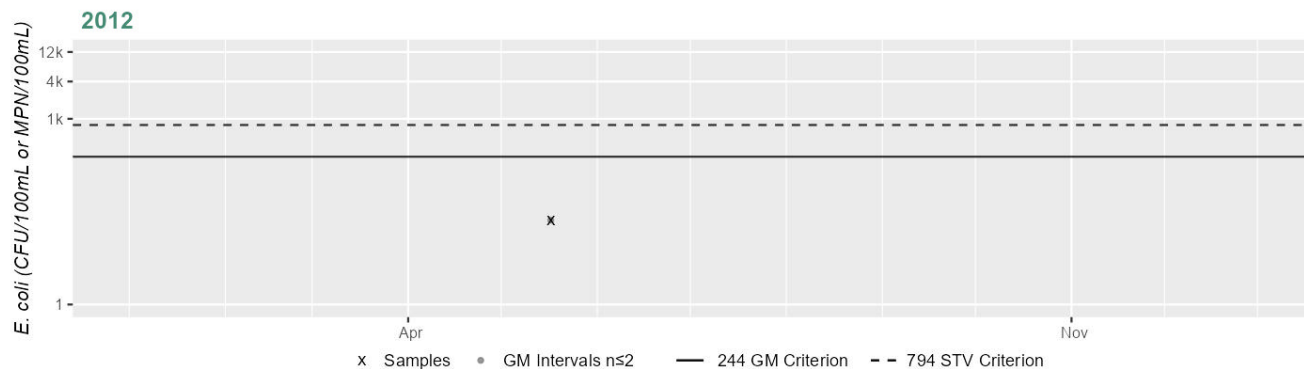
Current (2011-2022)

0%

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

Station MASSDEP_W2254 - *Escherichia coli*

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



Variable*	Result
Samples	1
SeasGM	23
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

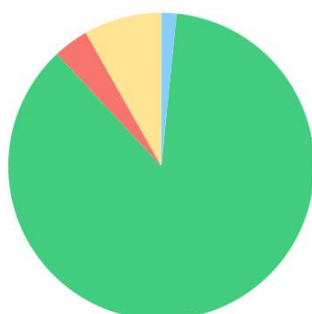
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes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

West Falls Branch (MA32-13)

Location:	Headwaters (perennial portion), at confluence with Bronson Brook, northeast at the intersection of Dingle Road and Route 143, Worthington to mouth at confluence with Westfield River near the village of West Chesterfield, Chesterfield. (formerly identified by the Massachusetts Stream Classification Program as West Branch).
AU Type:	RIVER
AU Size:	2.9 MILES
Classification/Qualifier:	B: CWF

West Falls Branch (MA32-13)

Watershed Area: 12.29 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	12.29	3.52	2.57	0.91
Agriculture	8.2%	6.3%	4.6%	2.4%
Developed	3.7%	3.4%	4.9%	6.8%
Natural	86.5%	87.6%	87.4%	87.2%
Wetland	1.6%	2.7%	3%	3.6%
Impervious	1.7%	1.5%	2.6%	3.5%

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

Designated Use Attainment Decisions

Fish Consumption

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

Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for West Falls Branch (MA32-13) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Aesthetic Use of West Falls Branch (MA32-13) is assessed as Fully Supporting based on the lack of aesthetically objectionable conditions during summer 2012. MassDEP staff recorded aesthetics observations for one station halfway down this West Falls Branch AU ~225 feet upstream of Main Rd (Rt. 143) in Chesterfield (W2246/MAP2-167) during summer 2012 (n=6). There were generally no noted objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2246	MassDEP	Water Quality	West Branch	[(a.k.a. West Falls Branch) approximately 225 feet upstream of Main Road (Route 143), Chesterfield]	42.406243	-72.887665

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
W2246	2012	6	Aesthetic observations were made by MassDEP field sampling crews at Station W2246 on West Falls Branch (MA32-13) 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
W2246	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
W2246	West Falls Branch	2012	Aquatic Plant Density, Overall	None	6	6
W2246	West Falls Branch	2012	Color	None	6	6
W2246	West Falls Branch	2012	Objectionable Deposits	No	6	6
W2246	West Falls Branch	2012	Odor	None	6	6
W2246	West Falls Branch	2012	Periphyton Density, Filamentous	Moderate	1	6
W2246	West Falls Branch	2012	Periphyton Density, Filamentous	None	5	6
W2246	West Falls Branch	2012	Periphyton Density, Film	Moderate	1	6
W2246	West Falls Branch	2012	Periphyton Density, Film	None	5	6
W2246	West Falls Branch	2012	Scum	No	6	6
W2246	West Falls Branch	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 West Falls Branch (MA32-13) continues to be assessed as Fully Supporting. MassDEP staff collected <i>E. coli</i> bacteria samples in West Falls Branch (MA32-13) at W2246 [(a.k.a. W Falls Branch) ~225 ft upstream of Main Rd (Rt. 143), Chesterfield] from May-Sep 2012 (n=6). <i>E. coli</i> data from W2246 meet 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2246	MassDEP	Water Quality	West Branch	[(a.k.a. West Falls Branch) approximately 225 feet upstream of Main Road (Route 143), Chesterfield]	42.406243	-72.887665

Bacteria Data

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

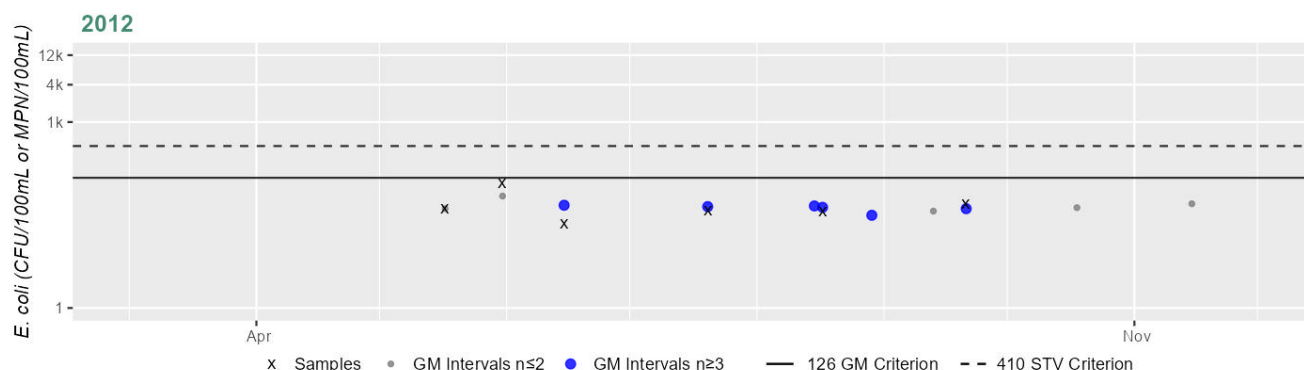
(MassDEP Undated 6) (MassDEP Undated 4)

[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
W2246	MassDEP	E. coli	05/16/12	09/20/12	6	23	102	42

Station MASSDEP_W2246 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	42
#GMI	6
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

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

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for West Falls Branch (MA32-13) continues to be assessed as Fully Supporting. MassDEP staff collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in West Falls Branch (MA32-13) from 2006-2012 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: W2246 [(a.k.a. W Falls Branch) ~225 ft upstream of Main Rd (Rt. 143), Chesterfield] from May-Sep 2012 (n=6), W0271 [(a.k.a. W Falls Branch) Ireland St bridge, Chesterfield] from May-Oct 2006 (n=5). *E. coli* data from W2246 meet 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0271	MassDEP	Water Quality	West Branch	[(a.k.a. West Falls Branch) Ireland Street bridge, Chesterfield]	42.400926	-72.876264
W2246	MassDEP	Water Quality	West Branch	[(a.k.a. West Falls Branch) approximately 225 feet upstream of Main Road (Route 143), Chesterfield]	42.406243	-72.887665

Bacteria Data

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

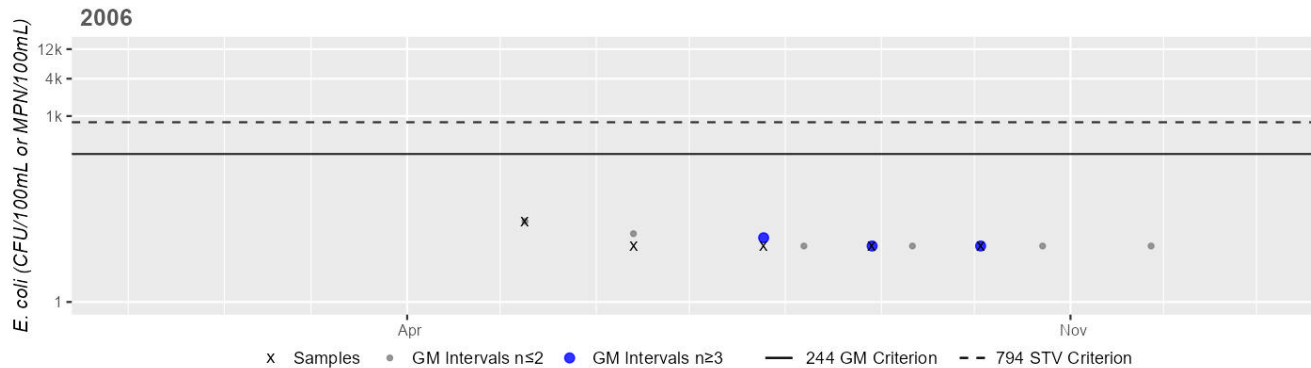
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W0271	MassDEP	E. coli	05/09/06	10/03/06	5	8	20	9
W2246	MassDEP	E. coli	05/16/12	09/20/12	6	23	102	42

Station MASSDEP_W0271 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	9
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

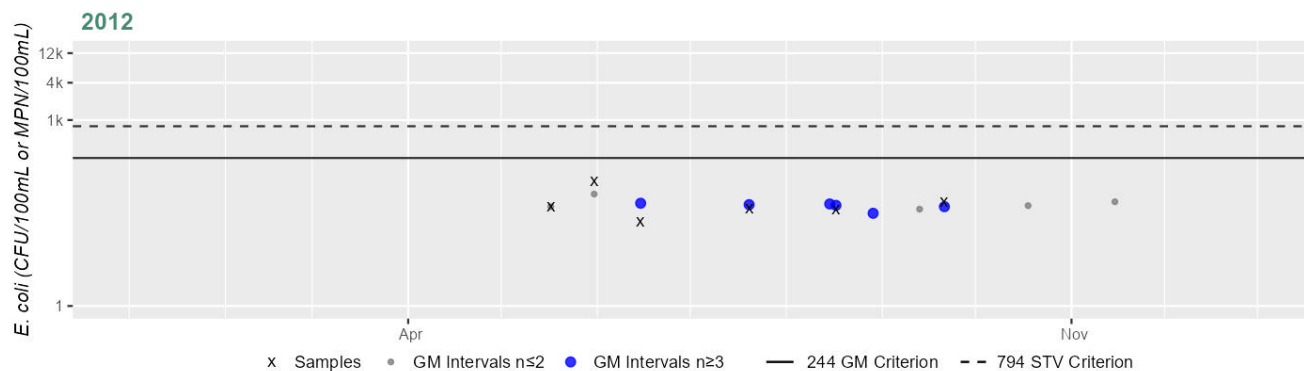
Historic (1997-2010)

0%

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

Station MASSDEP_W2246 - *Escherichia coli*

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



Variable*	Result
Samples	6
SeasGM	42
#GMI	6
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

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

Westfield Brook (MA32-51)

Location:	Headwaters, outlet wetland north of Hill Cemetery Road, Windsor to mouth at confluence with Westfield River, Cummington.
AU Type:	RIVER
AU Size:	8.6 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Westfield Brook (MA32-51) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Westfield Reservoir (MA32074)

Location:	Montgomery.
AU Type:	FRESHWATER LAKE
AU Size:	40 ACRES
Classification/Qualifier:	B

No usable data were available for Westfield Reservoir (MA32074) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

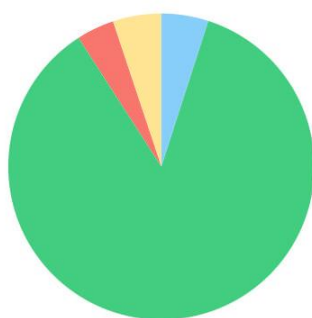
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Westfield River (MA32-04)

Location:	Headwaters, confluence of Drowned Land Brook and Center Brook, Savoy to confluence with Middle Branch Westfield River, Huntington.
AU Type:	RIVER
AU Size:	33.1 MILES
Classification/Qualifier:	B: CWF, HQW

Westfield River (MA32-04)

Watershed Area: 169.00 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	169.00	6.33	40.89	1.22
Agriculture	5.1%	2.7%	2.9%	0.8%
Developed	4%	6.9%	4.3%	8.9%
Natural	85.9%	88.4%	81.4%	83.6%
Wetland	5%	2%	11.4%	6.7%
Impervious	1.7%	2.5%	2.1%	4%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Enterococcus	R1_MA_2024_04	Changed
5	5	Escherichia Coli (E. Coli)	R1_MA_2024_04P	Unchanged
5	5	Temperature	--	Unchanged

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

Supporting Information for Removed Impairments

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Westfield River (MA32-04) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO
2024/26 Use Attainment Summary	
The Aesthetics Use for Westfield River (MA32-04) continues to be assessed as Fully Supporting based on the lack of objectionable conditions noted by MassDEP staff at three stations sampled in the summer of 2012 and 2019. MassDEP staff recorded aesthetics observations at three stations in the upstream half of this Westfield River AU, described from upstream to downstream as follows: ~3675 feet downstream of the River Rd crossing nearest Griffin Hill Road, Savoy (W2269, in summer 2012 n=6); ~2500 feet upstream from the River Rd crossing nearest Windigo Road, Windsor (W2907, in summer 2019 n=4) and ~2325 feet downstream of the Marine Corps League Highway (Rt. 9) crossing nearest Mougin Rd, Cummington (W2273, in summer 2012 n=6). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded at any of the stations.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2269	MassDEP	Water Quality	Westfield River	[approximately 3675 feet downstream of the River Road crossing nearest Griffin Hill Road, Savoy]	42.551606	-73.014609

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2273	MassDEP	Water Quality	Westfield River	[approximately 2325 feet downstream of the Marine Corps League Highway (Route 9) crossing nearest Mouglin Road, Cummington]	42.452473	-72.878272
W2907	MassDEP	Water Quality	Westfield River	[approximately 2500 feet upstream from the River Road crossing nearest Windigo Road, Windsor]	42.518040	-72.998461

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
W2269	2012	6	Aesthetic observations were made by MassDEP field sampling crews at Station W2269 on Westfield River (MA32-04) during 6 site visits between May 2012 and Sep 2012. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2273	2012	6	Aesthetic observations were made by MassDEP field sampling crews at Station W2273 on Westfield River (MA32-04) during 6 site visits between May 2012 and Sep 2012. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2907	2019	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2907 on Westfield River (MA32-04) 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
W2269	2012	6	6	0
W2273	2012	6	6	1
W2907	2019	4	4	1

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

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2269	Westfield River	2012	Aquatic Plant Density, Overall	None	6	6
W2269	Westfield River	2012	Color	Light Yellow/Tan	1	6
W2269	Westfield River	2012	Color	None	5	6
W2269	Westfield River	2012	Objectionable Deposits	No	5	6
W2269	Westfield River	2012	Objectionable Deposits	Unobservable	1	6

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2269	Westfield River	2012	Odor	None	6	6
W2269	Westfield River	2012	Periphyton Density, Filamentous	None	5	6
W2269	Westfield River	2012	Periphyton Density, Filamentous	Sparse	1	6
W2269	Westfield River	2012	Periphyton Density, Film	None	4	6
W2269	Westfield River	2012	Periphyton Density, Film	Sparse	2	6
W2269	Westfield River	2012	Scum	No	6	6
W2269	Westfield River	2012	Turbidity	None	6	6
W2273	Westfield River	2012	Aquatic Plant Density, Overall	None	6	6
W2273	Westfield River	2012	Color	None	6	6
W2273	Westfield River	2012	Objectionable Deposits	No	6	6
W2273	Westfield River	2012	Odor	None	6	6
W2273	Westfield River	2012	Periphyton Density, Filamentous	None	5	6
W2273	Westfield River	2012	Periphyton Density, Filamentous	NR	1	6
W2273	Westfield River	2012	Periphyton Density, Film	Dense	1	6
W2273	Westfield River	2012	Periphyton Density, Film	None	3	6
W2273	Westfield River	2012	Periphyton Density, Film	Sparse	2	6
W2273	Westfield River	2012	Scum	No	6	6
W2273	Westfield River	2012	Turbidity	None	6	6
W2907	Westfield River	2019	Aesthetics Impaired?	No	4	4
W2907	Westfield River	2019	Aquatic Plant Density, Overall	None	4	4
W2907	Westfield River	2019	Color	None	4	4
W2907	Westfield River	2019	Objectionable Deposits	No	4	4
W2907	Westfield River	2019	Odor	None	4	4
W2907	Westfield River	2019	Periphyton Density, Filamentous	None	3	4
W2907	Westfield River	2019	Periphyton Density, Filamentous	Sparse	1	4
W2907	Westfield River	2019	Periphyton Density, Film	Dense	1	4
W2907	Westfield River	2019	Periphyton Density, Film	Moderate	1	4
W2907	Westfield River	2019	Periphyton Density, Film	Sparse	2	4
W2907	Westfield River	2019	Scum	No	4	4
W2907	Westfield River	2019	Turbidity	None	4	4

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for the Westfield River (MA32-04) continues to be assessed as Not Supporting. The prior *Escherichia coli* (*E. coli*) impairment is being carried forward based on bacteria data not meeting the threshold at W2273. The prior *Enterococcus* impairment is being carried forward. MassDEP staff collected *E. coli* bacteria samples in the Westfield River (MA32-04) in 2012 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: W2269 [~3675 ft downstream of the River Rd crossing nearest Griffin Hill Rd, Savoy] from May-Sep 2012 (n=6), W2273 [~2325 ft downstream of the Marine Corps League Highway (Rt. 9) crossing nearest Mougin Rd, Cummington] from May-Sep 2012 (n=6). Analysis of the single year limited frequency *E. coli* dataset from W2269 indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 35 CFU/100ml. Analysis of the single year limited frequency *E. coli* dataset from W2273 indicated 83% of intervals had GMs >126 CFU/100ml, 1 sample exceeded the 410 CFU/100ml STV, and the seasonal GM was 149 CFU/100ml. While *E. coli* data from W2269 meet 2024 CALM guidance, *E. coli* data from W2273 are indicative of an *E. coli* impairment.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2269	MassDEP	Water Quality	Westfield River	[approximately 3675 feet downstream of the River Road crossing nearest Griffin Hill Road, Savoy]	42.551606	-73.014609
W2273	MassDEP	Water Quality	Westfield River	[approximately 2325 feet downstream of the Marine Corps League Highway (Route 9) crossing nearest Mougin Road, Cummington]	42.452473	-72.878272

Bacteria Data

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

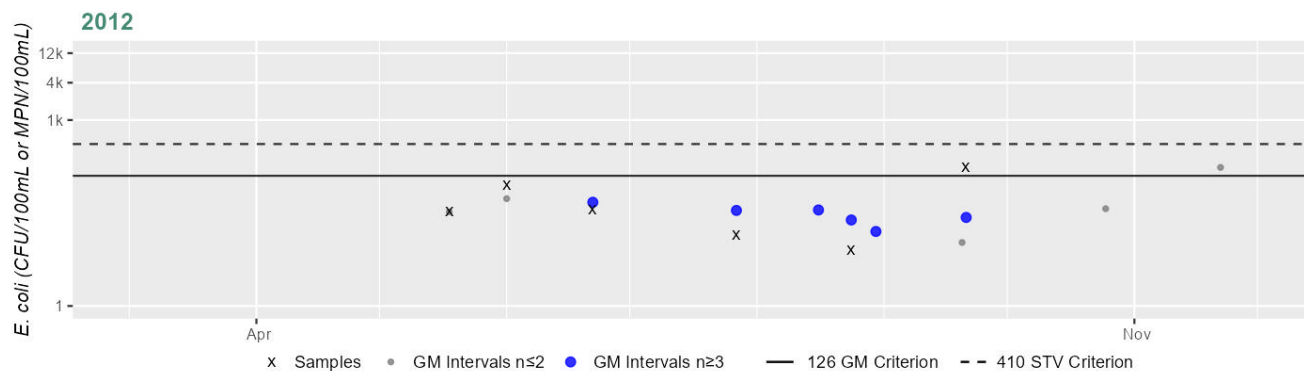
(MassDEP Undated 6) (MassDEP Undated 4)

[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
W2269	MassDEP	<i>E. coli</i>	05/17/12	09/20/12	6	8	172	35
W2273	MassDEP	<i>E. coli</i>	05/17/12	09/20/12	6	25	649	149

Station MASSDEP_W2269 - *Escherichia coli*

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



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

Cumulative %GMI Exceedance

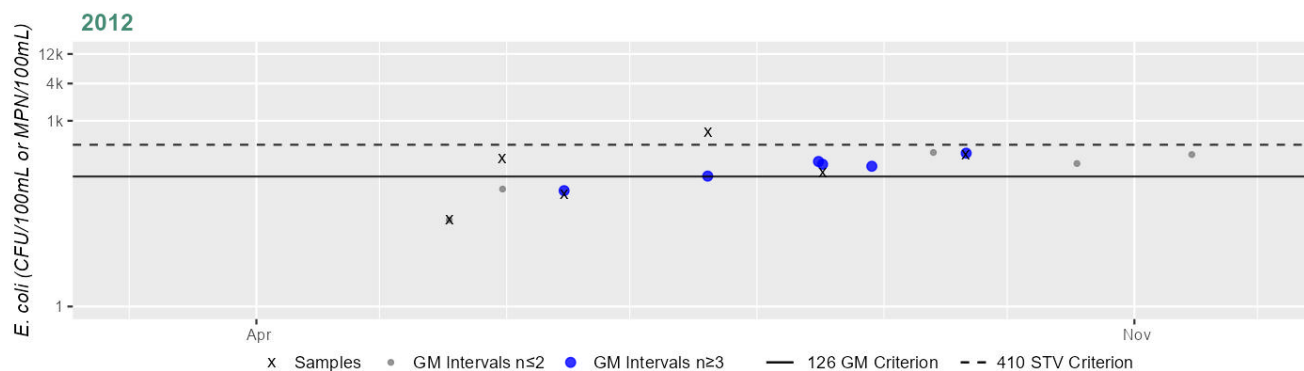
Current (2011-2022)

0%

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

Station MASSDEP_W2273 - *Escherichia coli*

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



Variable*	Result
Samples	6
SeasGM	149
#GMI	6
#GMI Ex	5
%GMI Ex	83%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance

Current (2011-2022)

83%

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

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for the Westfield River (MA32-04) continues to be assessed as Fully Supporting. MassDEP staff collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in the Westfield River (MA32-04) from 2006-2012 at 3 stations. Samples were collected from the following stations/sample years from upstream to downstream: W2269 [~3675 ft downstream of the River Rd crossing nearest Griffin Hill Rd, Savoy] from May-Sep 2012 (n=6), W2273 [~2325 ft downstream of the Marine Corps League Highway (Rt. 9) crossing nearest Mougins Rd, Cummington] from May-Sep 2012 (n=6), W1419 [W off Rt. 112 (~225 ft upstream of Rt. 66 intersection), Huntington] from May-Oct 2006 (n=5). *E. coli* data from W2269 and W2273 meet 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1419	MassDEP	Water Quality	Westfield River	[west off Route 112 (approximately 225 feet upstream of Route 66 intersection), Huntington]	42.276717	-72.864638
W2269	MassDEP	Water Quality	Westfield River	[approximately 3675 feet downstream of the River Road crossing nearest Griffin Hill Road, Savoy]	42.551606	-73.014609
W2273	MassDEP	Water Quality	Westfield River	[approximately 2325 feet downstream of the Marine Corps League Highway (Route 9) crossing nearest Mougins Road, Cummington]	42.452473	-72.878272

Bacteria Data

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

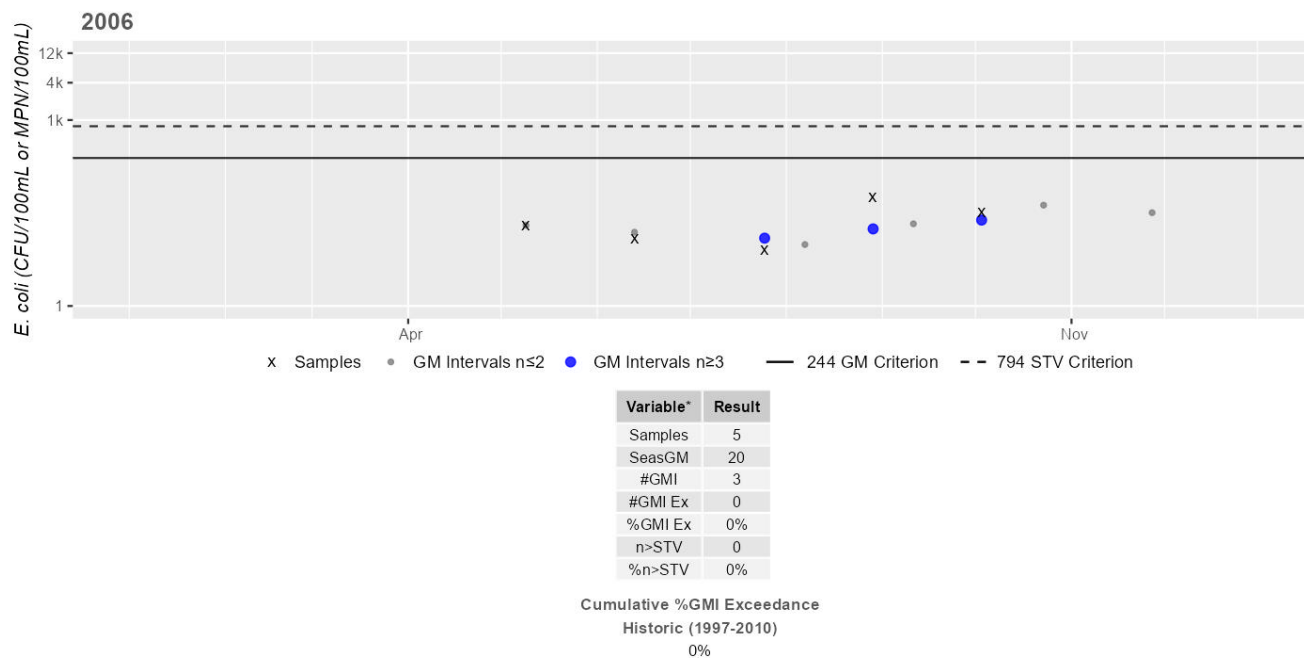
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1419	MassDEP	E. coli	05/09/06	10/03/06	5	8	56	20
W2269	MassDEP	E. coli	05/17/12	09/20/12	6	8	172	35
W2273	MassDEP	E. coli	05/17/12	09/20/12	6	25	649	149

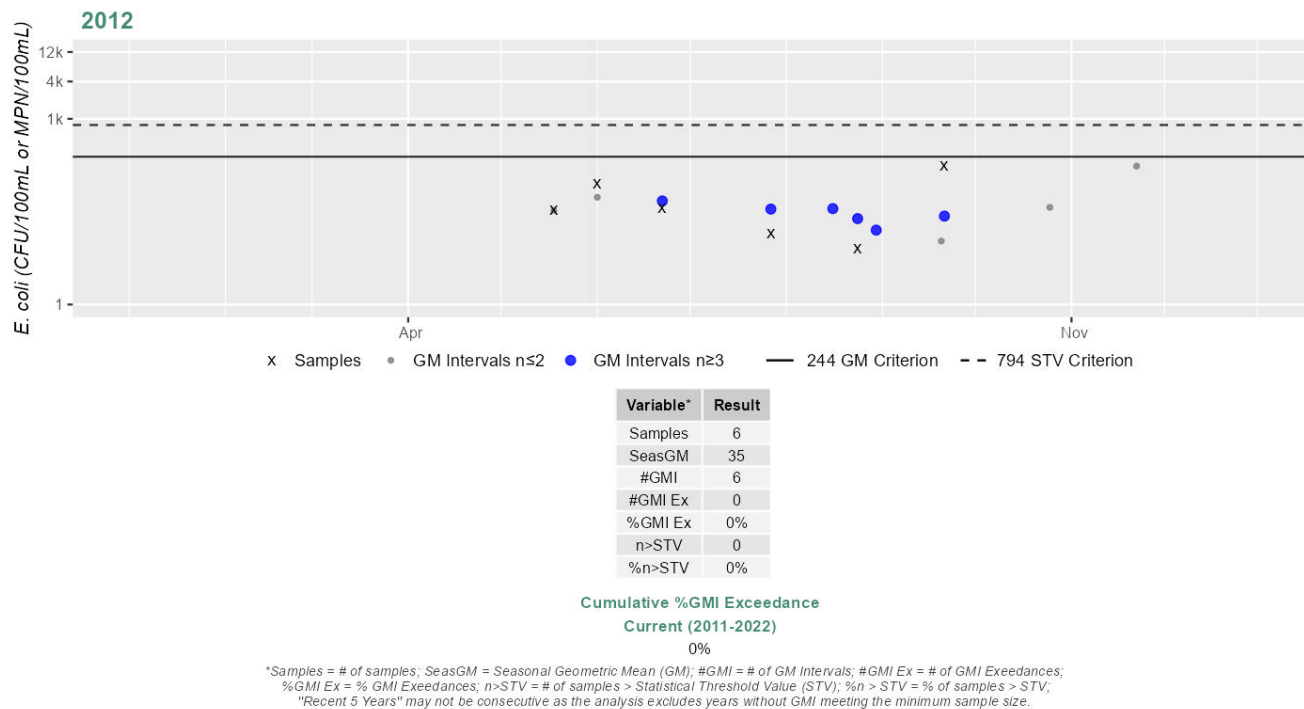
Station MASSDEP_W1419 - *Escherichia coli*

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



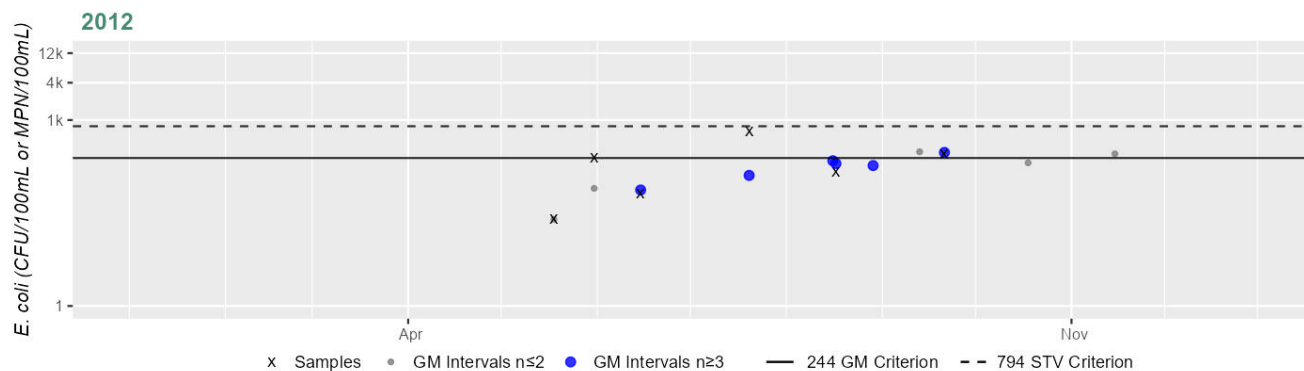
Station MASSDEP_W2269 - *Escherichia coli*

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



Station MASSDEP_W2273 - *Escherichia coli*

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



Variable*	Result
Samples	6
SeasGM	149
#GMI	6
#GMI Ex	1
%GMI Ex	16%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

16%

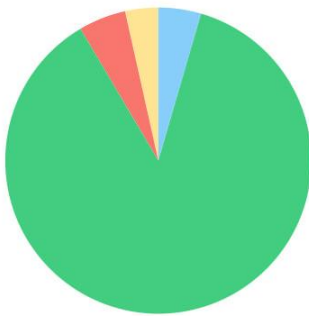
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes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

Westfield River (MA32-05)

Location:	Confluence with Middle Branch Westfield River, Huntington to Route 20 bridge, Westfield.
AU Type:	RIVER
AU Size:	17.7 MILES
Classification/Qualifier:	B: WWF

Westfield River (MA32-05)

Watershed Area: 452.70 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	452.70	7.00	122.78	2.02
Agriculture	3.5%	9.3%	2.4%	10.4%
Developed	5%	47.8%	5.2%	21.2%
Natural	87%	37.2%	83.5%	53.9%
Wetland	4.5%	5.7%	8.9%	14.5%
Impervious	2.2%	26.3%	2.3%	9.9%

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Westfield River (MA32-05) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
<p>The Aesthetics Use of Westfield River (MA32-05) is assessed as Fully Supporting based on the general lack of any objectionable conditions noted by MassDEP staff at four stations surveyed during the summer 2012. MassDEP staff recorded aesthetics observations at four stations in Westfield, on the downstream half of this Westfield River AU during the summer of 2012. These stations are described from upstream to downstream as follows: east of Rt. 20, ~530 feet downstream from Rt. 90 crossing, just over the Russell border (W2288, n=5); north of Shepard Street and the Whitney Playground (W1463, n=5); upstream of the Westfield Water Pollution Control Plant outfall and ~1200 feet upstream of the Little River confluence (W2289, n=5) and north of Ascutney Ave (W1464, n=5). There were generally no noted objectionable conditions (odors, deposits, growths, or turbidity) recorded at any of the stations.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1463	MassDEP	Water Quality	Westfield River	[north of Shepard Street and the Whitney Playground, Westfield]	42.130837	-72.754349
W1464	MassDEP	Water Quality	Westfield River	[north of Ascutney Avenue, Westfield]	42.116525	-72.724356
W2288	MassDEP	Water Quality	Westfield River	[east of Route 20, approximately 530 feet downstream from Route 90 crossing, just over the Russell border, Westfield]	42.155108	-72.813413
W2289	MassDEP	Water Quality	Westfield River	[upstream of the Westfield Water Pollution Control Plant outfall, approximately 5800 feet downstream from Union Avenue (Route 202), and approximately 1200 feet upstream of the Little River confluence, Westfield]	42.120102	-72.733477

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
W1463	2012	5	<p>Aesthetic observations were made by MassDEP field sampling crews at Station W1463 on Westfield River (MA32-05) during 5 site visits between May 2012 and Sep 2012. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted grey water color (n=1).</p>

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W1464	2012	5	Aesthetic observations were made by MassDEP field sampling crews at Station W1464 on Westfield River (MA32-05) during 5 site visits between May 2012 and Sep 2012. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted grey water color (n=1).
W2288	2012	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2288 on Westfield River (MA32-05) during 5 site visits between May 2012 and Sep 2012. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted grey water color (n=1).
W2289	2012	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2289 on Westfield River (MA32-05) during 5 site visits between May 2012 and Sep 2012. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted grey water color (n=1).

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

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W1463	2012	5	5	0
W1464	2012	5	5	0
W2288	2012	5	5	0
W2289	2012	5	5	0

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

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W1463	Westfield River	2012	Aquatic Plant Density, Overall	None	5	5
W1463	Westfield River	2012	Color	Greyish	1	5
W1463	Westfield River	2012	Color	None	4	5
W1463	Westfield River	2012	Objectionable Deposits	No	5	5
W1463	Westfield River	2012	Odor	None	5	5
W1463	Westfield River	2012	Periphyton Density, Filamentous	None	5	5
W1463	Westfield River	2012	Periphyton Density, Film	None	2	5
W1463	Westfield River	2012	Periphyton Density, Film	Sparse	3	5
W1463	Westfield River	2012	Scum	No	5	5
W1463	Westfield River	2012	Turbidity	Moderately Turbid	1	5
W1463	Westfield River	2012	Turbidity	None	4	5
W1464	Westfield River	2012	Aquatic Plant Density, Overall	None	5	5
W1464	Westfield River	2012	Color	Greyish	1	5
W1464	Westfield River	2012	Color	None	4	5

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W1464	Westfield River	2012	Objectionable Deposits	No	4	5
W1464	Westfield River	2012	Objectionable Deposits	Yes	1	5
W1464	Westfield River	2012	Odor	None	5	5
W1464	Westfield River	2012	Periphyton Density, Filamentous	None	3	5
W1464	Westfield River	2012	Periphyton Density, Filamentous	Sparse	2	5
W1464	Westfield River	2012	Periphyton Density, Film	Moderate	3	5
W1464	Westfield River	2012	Periphyton Density, Film	Sparse	2	5
W1464	Westfield River	2012	Scum	No	4	5
W1464	Westfield River	2012	Scum	NR	1	5
W1464	Westfield River	2012	Turbidity	Moderately Turbid	1	5
W1464	Westfield River	2012	Turbidity	None	3	5
W1464	Westfield River	2012	Turbidity	Slightly Turbid	1	5
W2288	Westfield River	2012	Aquatic Plant Density, Overall	None	5	5
W2288	Westfield River	2012	Color	Greyish	1	5
W2288	Westfield River	2012	Color	Light Yellow/Tan	1	5
W2288	Westfield River	2012	Color	None	3	5
W2288	Westfield River	2012	Objectionable Deposits	No	5	5
W2288	Westfield River	2012	Odor	None	5	5
W2288	Westfield River	2012	Periphyton Density, Filamentous	Moderate	1	5
W2288	Westfield River	2012	Periphyton Density, Filamentous	None	4	5
W2288	Westfield River	2012	Periphyton Density, Film	Moderate	1	5
W2288	Westfield River	2012	Periphyton Density, Film	None	1	5
W2288	Westfield River	2012	Periphyton Density, Film	Sparse	3	5
W2288	Westfield River	2012	Scum	No	5	5
W2288	Westfield River	2012	Turbidity	Moderately Turbid	1	5
W2288	Westfield River	2012	Turbidity	None	4	5
W2289	Westfield River	2012	Aquatic Plant Density, Overall	None	5	5
W2289	Westfield River	2012	Color	Greyish	1	5
W2289	Westfield River	2012	Color	None	4	5
W2289	Westfield River	2012	Objectionable Deposits	No	5	5
W2289	Westfield River	2012	Odor	Musty (Basement)	1	5
W2289	Westfield River	2012	Odor	None	4	5
W2289	Westfield River	2012	Periphyton Density, Filamentous	None	4	5
W2289	Westfield River	2012	Periphyton Density, Filamentous	Sparse	1	5
W2289	Westfield River	2012	Periphyton Density, Film	Moderate	2	5
W2289	Westfield River	2012	Periphyton Density, Film	Sparse	3	5

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2289	Westfield River	2012	Scum	No	4	5
W2289	Westfield River	2012	Scum	Yes	1	5
W2289	Westfield River	2012	Turbidity	None	4	5
W2289	Westfield River	2012	Turbidity	Slightly Turbid	1	5

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
<p>No bacteria data are available to assess the Primary Contact Recreation Use for the Westfield River (MA32-05) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information. Surface water sampling was conducted by the USGS on the Westfield River (MA32-05) at station USGS_01181008 at Huntington, MA on three dates during August to October 2020 as part of a MassDEP funded project to evaluate 24 PFAS analytes in ambient water samples upstream and downstream of wastewater treatment facilities (however, this station was not associated with a WWTF). The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS) were all less than the 90 ng/L (ppt) recreational screening value (HFPO-DA/GenX was not analyzed in this study).</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
USGS-01181008	USGS Massachusetts Water Science Center	Water Quality	Westfield River	WESTFIELD RIVER AT HUNTINGTON, MA; no WWTF	42.226000	-72.871000

Other Indicators

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

Summary
<p>Surface water sampling was conducted by the USGS on the Westfield River (MA32-05) at station USGS_01181008 at Huntington, MA on three dates during August to October 2020 as part of a MassDEP funded project to evaluate 24 PFAS analytes in ambient water samples upstream and downstream of wastewater treatment facilities (however, this station was not associated with a WWTF). The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS) were all less than the 90 ng/L (ppt) recreational screening value (HFPO-DA/GenX was not analyzed in this study).</p>

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

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

Station Code	Sample Date	PFOA ng/L	PFOS ng/L	PFNA ng/L	PFHxS ng/L	PFBA ng/L	PFBS ng/L	ΣPFAS6 ng/L
USGS-01181008	8/25/2020	E0.853	E1.02	<1.83	E0.56	E0.487	<1.83	6.4*
USGS-01181008	9/14/2020	E0.62	E1.22	<1.87	<1.87	E0.426	<1.87	7.7*
USGS-01181008	10/22/2020	E0.624	E0.906	<1.88	<1.88	E0.714	<1.88	7.5*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
<p>No bacteria data are available to assess the Secondary Contact Recreation Use for the Westfield River (MA32-05) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information. MassDEP staff collected <i>E. coli</i> bacteria samples in the Westfield River (MA32-05) from 2001-2006 at 5 stations. Samples were collected from the following stations/sample years from upstream to downstream: W0221 [Rt. 20, at Roadside park downstream from confluence with W Branch Westfield River, Huntington] from May-Oct 2006 (n=5), W0810 [Main St bridge, Russell] from Aug-Oct 2001 (n=3), W1463 [N of Shepard St and the Whitney Playground, Westfield] from May-Oct 2006 (n=5), W0807 [upstream of the railroad bridge near the Rt. 202/10 bridge, Westfield] from Aug-Oct 2001 (n=4), W1464 [N of Ascutney Avenue, Westfield] from May-Oct 2006 (n=5). Historic <i>E. coli</i> data from W0221, W0810, W1463, W0807, and W1464 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0221	MassDEP	Water Quality	Westfield River	[Route 20, at roadside park downstream from confluence with West Branch Westfield River, Huntington]	42.225688	-72.870732
W0807	MassDEP	Water Quality	Westfield River	[upstream of the railroad bridge near the Route 202/10 bridge, Westfield]	42.129242	-72.747671
W0810	MassDEP	Water Quality	Westfield River	[Main Street bridge, Russell]	42.190048	-72.850597
W1463	MassDEP	Water Quality	Westfield River	[north of Shepard Street and the Whitney Playground, Westfield]	42.130837	-72.754349
W1464	MassDEP	Water Quality	Westfield River	[north of Ascutney Avenue, Westfield]	42.116525	-72.724356

Bacteria Data

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

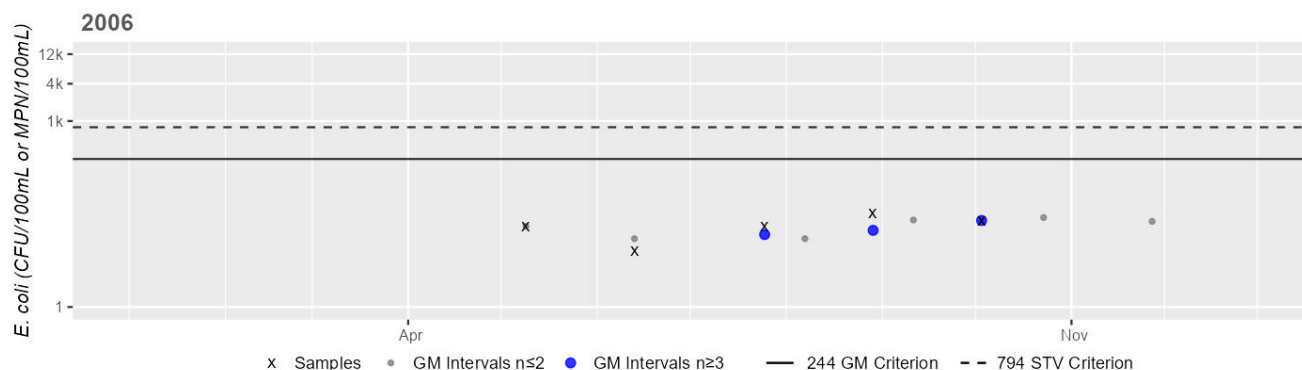
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W0221	MassDEP	E. coli	05/09/06	10/03/06	5	8	32	18
W0807	MassDEP	E. coli	08/01/01	10/03/01	4	5	410	64
W0810	MassDEP	E. coli	08/22/01	10/03/01	3	5	19	7
W1463	MassDEP	E. coli	05/09/06	10/03/06	5	28	500	116
W1464	MassDEP	E. coli	05/09/06	10/03/06	5	20	216	95

Station MASSDEP_W0221 - Escherichia coli

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



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

Cumulative %GMI Exceedance

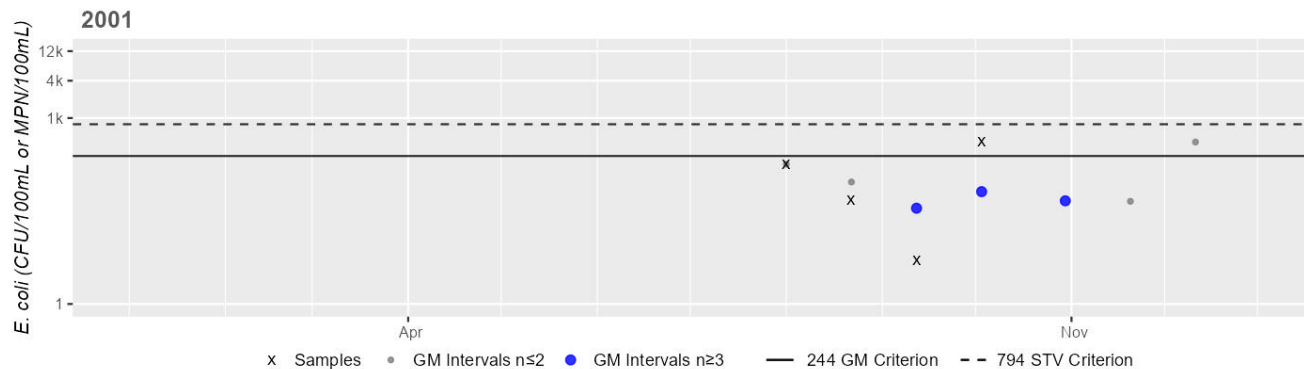
Historic (1997-2010)

0%

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

Station MASSDEP_W0807 - *Escherichia coli*

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



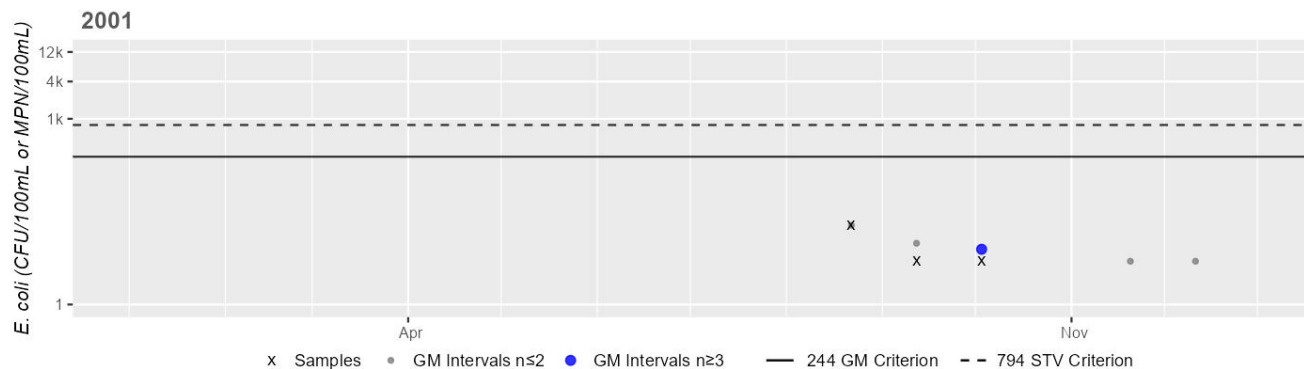
Variable*	Result
Samples	4
SeasGM	64
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Station MASSDEP_W0810 - *Escherichia coli*

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



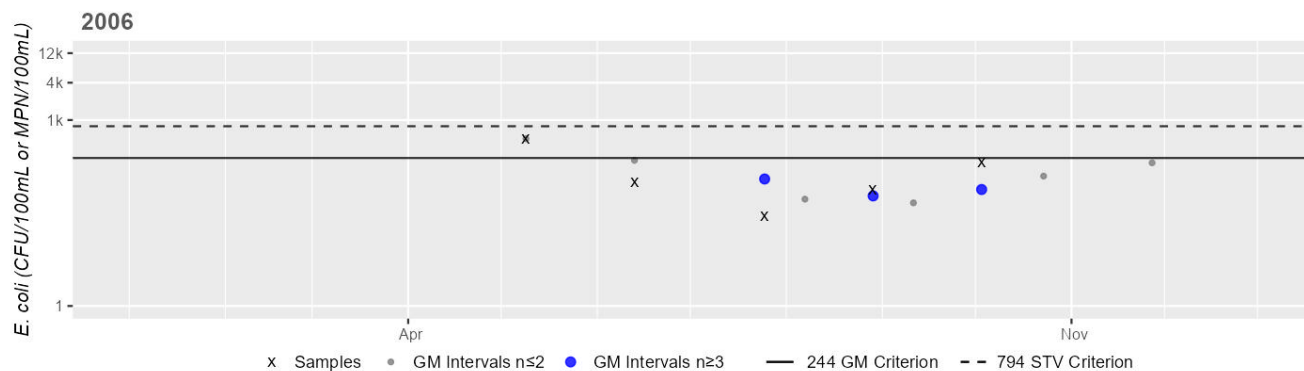
Variable*	Result
Samples	3
SeasGM	7
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Station MASSDEP_W1463 - *Escherichia coli*

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



Variable*	Result
Samples	5
SeasGM	116
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

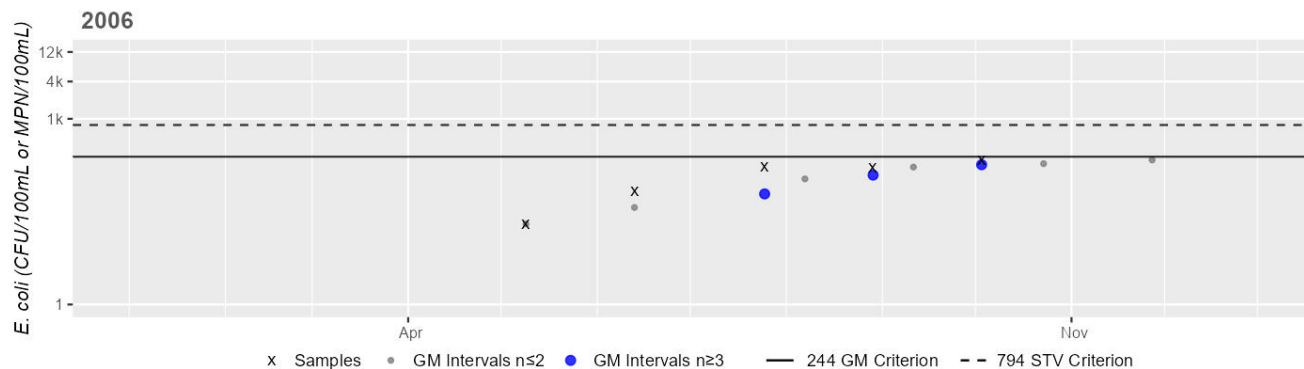
Historic (1997-2010)

0%

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

Station MASSDEP_W1464 - *Escherichia coli*

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



Variable*	Result
Samples	5
SeasGM	95
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Historic (1997-2010)

0%

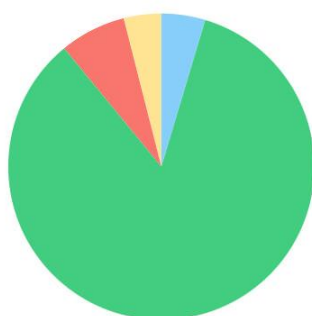
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes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

Westfield River (MA32-06)

Location:	Route 20 bridge, Westfield to Westfield city boundary with West Springfield and Agawam.
AU Type:	RIVER
AU Size:	1.9 MILES
Classification/Qualifier:	B: WWF

Westfield River (MA32-06)

Watershed Area: 498.53 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area* (square miles)	496.73	14.35	135.92	4.46
Agriculture	4%	9.2%	2.9%	8%
Developed	7%	33.2%	6.2%	18.2%
Natural	84.4%	52.1%	81.5%	59.8%
Wetland	4.6%	5.5%	9.4%	13.9%
Impervious	2.9%	15.5%	2.7%	7.4%

*Land cover analysis only includes watershed area within Massachusetts.

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

Recommendations

2024/26 Recommendations

2016 IR [Algae, Low] Additional monitoring should be performed on Westfield River (MA32-06) to confirm the presence of dense filamentous algae that was observed by MassDEP in 2006. {W1465}

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
------------------------	-------

Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Westfield River (MA32-06) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	YES
2024/26 Use Attainment Summary	
There are no data available to assess the status of the Aesthetics Use for this Westfield River AU (MA32-06), so it is Not Assessed. The prior Alert identified for Filamentous Algae is being carried forward.	

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No bacteria or other indicator data for the Westfield River (MA32-06) are available, so the Primary Contact Recreation Use is Not Assessed. The prior Alert for Algae is being removed and will be maintained under the Aesthetics Use.	

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No bacteria or other indicator data for the Westfield River (MA32-06) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. The prior Alert for Algae is being removed and will be maintained under the Aesthetics Use. MassDEP staff collected <i>E. coli</i> bacteria samples in the Westfield River (MA32-06) at W1465 [S off Rt. 20 (just downstream from USGS gage #01183500), Westfield (near the W Springfield/Agawam/Westfield border)] from May-Oct 2006 (n=5). Historic <i>E. coli</i> data from W1465 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1465	MassDEP	Water Quality	Westfield River	[south off Route 20 (just downstream from USGS gage #01183500), Westfield (near the West Springfield/Agawam/Westfield border)]	42.106327	-72.697770

Bacteria Data

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

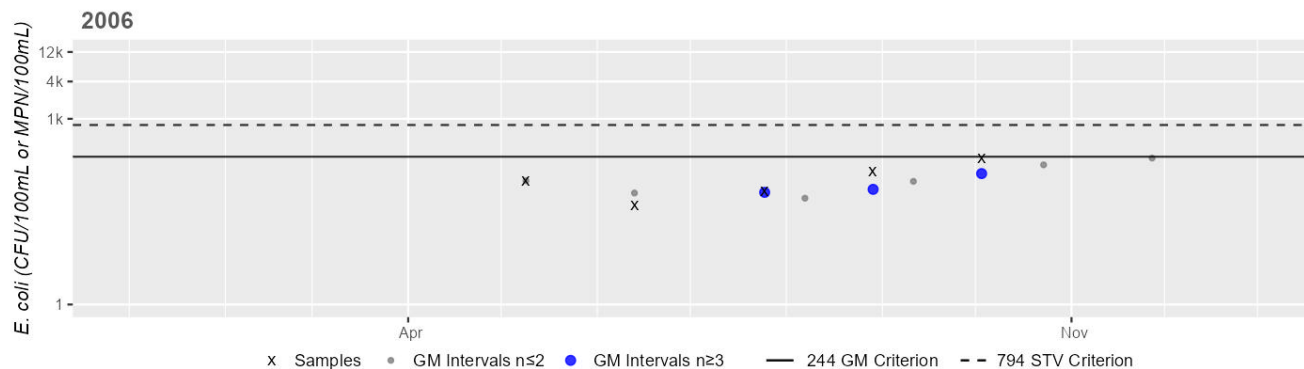
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1465	MassDEP	E. coli	05/09/06	10/03/06	5	40	232	97

Station MASSDEP_W1465 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	97
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Historic (1997-2010)

0%

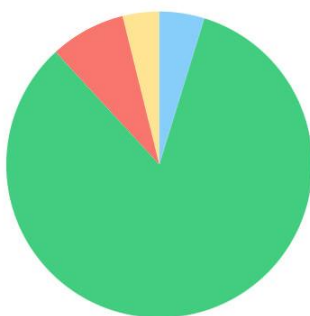
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes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

Westfield River (MA32-07)

Location:	Westfield/West Springfield/Agawam city line to mouth at confluence with Connecticut River, Agawam.
AU Type:	RIVER
AU Size:	8.5 MILES
Classification/Qualifier:	B: WWF

Westfield River (MA32-07)

Watershed Area: 518.41 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area* (square miles)	516.61	4.26	144.25	1.44
Agriculture	3.9%	3.2%	2.8%	3.7%
Developed	8%	60.4%	6.8%	31.6%
Natural	83.4%	27.8%	80.7%	41.9%
Wetland	4.8%	8.7%	9.7%	22.8%
Impervious	3.4%	39.4%	2.9%	15.9%

*Land cover analysis only includes watershed area within Massachusetts.

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

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Westfield River (MA32-07) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No data are available, so the Aesthetics Use for Westfield River (MA32-07) is Not Assessed.	

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO
2024/26 Use Attainment Summary	
<p>The Primary Contact Recreation Use for the Westfield River (MA32-07) is assessed as Not Supporting. An <i>Escherichia coli</i> (<i>E. coli</i>) impairment is being added due to bacteria data not meeting the threshold at USGS-01183610 and CRC_MAH2.</p> <p>USGS and CRC staff/volunteers collected <i>E. coli</i> bacteria samples in the Westfield River (MA32-07) from 2012-2021 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: USGS-01183610 [Westfield River At Bridge St At N Agawam, Ma] in 2019-2021 (n=5-6/yr), CRC_MAH2 [Westfield River at Pynchon Point Park] in 2012 and 2019-2021 (n=8-19/yr). Analysis of the multi-year limited frequency <i>E. coli</i> dataset from USGS-01183610 indicated 2 out of 3 sufficient data yrs had intervals where >20% of the GMs were >126 CFU/100ml (2019 and 2021, 50 & 50%), 1 yr had ≥2 samples exceed the 410 CFU/100ml STV (2019, n=2), and cumulatively across years 28% of intervals had GMs >126 CFU/100ml. Analysis of the multi-year high frequency <i>E. coli</i> dataset from CRC_MAH2 indicated 4 out of 4 sufficient data yrs had intervals where >10% of the GMs were >126 CFU/100ml (2012 and 2019-2021, 63-100%), 4 yrs had >10% of samples exceed the 410 CFU/100ml STV (2012 and 2019-2021, 12-38%), and cumulatively across years 83% of intervals had GMs >126 CFU/100ml. <i>E. coli</i> data from USGS-01183610 and CRC_MAH2 are indicative of an <i>E. coli</i> impairment.</p> <p>Additionally, surface water sampling for PFAS was conducted by the USGS on the Westfield River (MA32-07) at station USGS_01183610 at Bridge Street, North Agawam, MA on three dates during August to October 2020. The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS) were all less than the 90 ng/L (ppt) recreational screening value (HFPO-DA/GenX was not analyzed in this study).</p>	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CRC_MAH2	Connecticut River Conservancy	Water Quality	Westfield River; Westfield and Connecticut Rivers jct.	Westfield River at Pynchon Point Park	42.083300	-72.585449
USGS-01183610	USGS Massachusetts Water Science Center	Water Quality	Westfield River	WESTFIELD RIVER AT BRIDGE ST AT NORTH AGAWAM, MA; no WWTF	42.099444	-72.636306

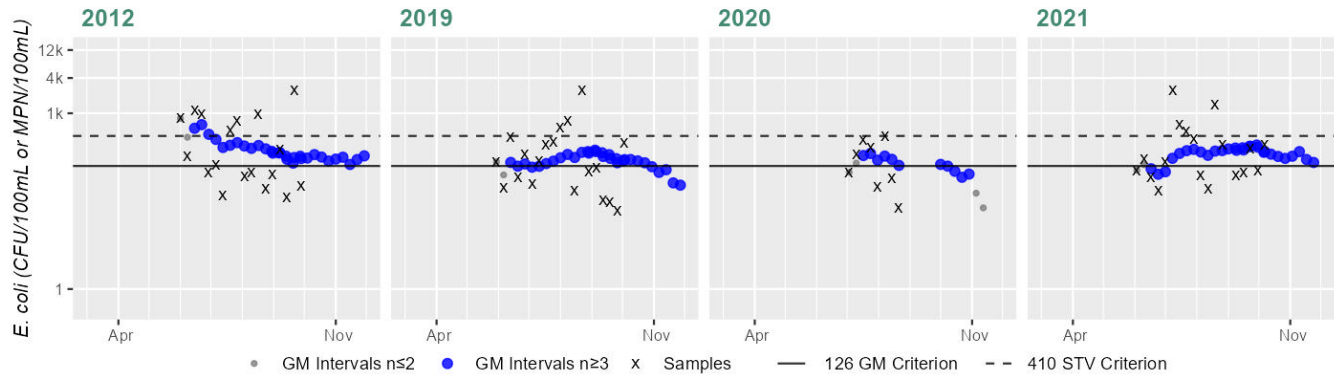
Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (CRC 2023) (MassDEP Undated 2) (USGS 2024) (MassDEP Undated 2)
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
CRC_MAH2	Connecticut River Conservancy	E. coli	05/31/12	09/27/12	18	37	2419	219
CRC_MAH2	Connecticut River Conservancy	E. coli	05/30/19	10/03/19	19	21	2419	147
CRC_MAH2	Connecticut River Conservancy	E. coli	07/02/20	08/20/20	8	24	410	128
CRC_MAH2	Connecticut River Conservancy	E. coli	06/03/21	10/07/21	18	47	2419	202
USGS-01183610	USGS Massachusetts Water Science Center	E. coli	04/16/19	12/16/19	6	6	2400	103
USGS-01183610	USGS Massachusetts Water Science Center	E. coli	06/17/20	10/23/20	5	11	84	33
USGS-01183610	USGS Massachusetts Water Science Center	E. coli	04/20/21	10/18/21	6	10	310	64

Station CRC_MAH2 - *Escherichia coli*

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



Variable*	Result
Samples	18
SeasGM	219
#GMI	31
#GMI Ex	31
%GMI Ex	100%
n>STV	7
%n>STV	38%

Variable*	Result
Samples	19
SeasGM	147
#GMI	33
#GMI Ex	23
%GMI Ex	69%
n>STV	3
%n>STV	15%

Variable*	Result
Samples	8
SeasGM	128
#GMI	11
#GMI Ex	7
%GMI Ex	63%
n>STV	1
%n>STV	12%

Variable*	Result
Samples	18
SeasGM	202
#GMI	31
#GMI Ex	28
%GMI Ex	90%
n>STV	4
%n>STV	22%

Cumulative %GMI Exceedance

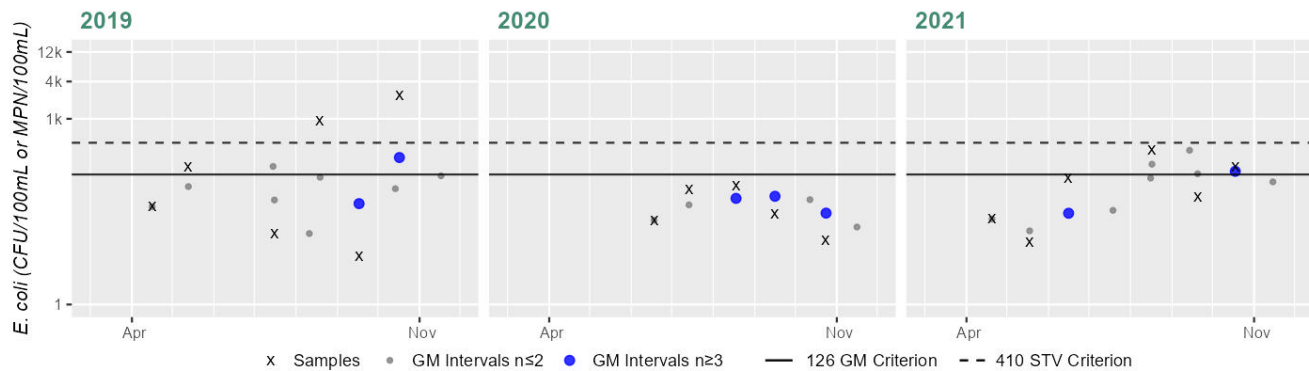
Current (2011-2022)

83%

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

Station USGS-01183610 - *Escherichia coli*

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



Variable*	Result
Samples	6
SeasGM	103
#GMI	2
#GMI Ex	1
%GMI Ex	50%
n>STV	2
%n>STV	33%

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	64
#GMI	2
#GMI Ex	1
%GMI Ex	50%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

28%

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

Other Indicators

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

Summary
Surface water sampling was conducted by the USGS on the Westfield River (MA32-07) at station USGS_01183610 at Bridge Street, North Agawam, MA on three dates during August to October 2020 as part of a MassDEP funded project to evaluate 24 PFAS analytes in ambient water samples upstream and downstream of wastewater treatment facilities (however, this station was not associated with a WWTF). The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS) were all less than the 90 ng/L (ppt) recreational screening value (HFPO-DA/GenX was not analyzed in this study).

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

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

Station Code	Sample Date	PFOA ng/L	PFOS ng/L	PFNA ng/L	PFHxS ng/L	PFBA ng/L	PFBS ng/L	Σ PFAS6 ng/L
USGS-01183610	8/17/2020	4.82	13.4	E0.48	6.96	2.51	E1.69	29.3*
USGS-01183610	9/15/2020	4.12	E11.5	E0.322	5.83	E1.15	E1.32	25.2*
USGS-01183610	10/23/2020	E3.08	E7.56	<1.74	4.63	E1.1	E1.21	20.0*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for the Westfield River (MA32-07) is assessed as Not Supporting. An *Escherichia coli* (*E. coli*) impairment is being added due to bacteria data not meeting the threshold at CRC_MAH2. MassDEP, USGS and CRC staff/volunteers collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in the Westfield River (MA32-07) from 2001-2021 at 4 stations. Samples were collected from the following stations/sample years from upstream to downstream: USGS-01183610 [Westfield River At Bridge St At N Agawam, Ma] in 2019-2021 (n=9-11/yr), W0474 [Rt. 147 bridge, Agawam/W Springfield] from May-Oct 2006 (n=5), W0857 [~260 ft upstream/W of Rt. 5 bridge, Agawam] from Aug-Oct 2001 (n=4), CRC_MAH2 [Westfield River at Pynchon Point Park] in 2012 and 2019-2021 (n=8-19/yr). Analysis of the multi-year moderate frequency *E. coli* dataset from USGS-01183610 indicated 0 out of 3 sufficient data yrs had intervals where >20% of the GMs were >244 CFU/100ml, 1 yr had ≥2 samples exceed the 794 CFU/100ml STV (2019, n=2), and cumulatively across years 4% of intervals had GMs >244 CFU/100ml. Analysis of the multi-year high frequency *E. coli* dataset from CRC_MAH2 indicated 2 out of 4 sufficient data yrs had intervals where >10% of the GMs were >244 CFU/100ml (2012 and 2021, 35 & 22%), 2 yrs had >10% of samples exceed the 794 CFU/100ml STV (2012 and 2021, 27 & 11%), and cumulatively across years 16% of intervals had GMs >244 CFU/100ml. While *E. coli* data from USGS-01183610 meet 2024 CALM guidance, *E. coli* data from CRC_MAH2 are indicative of an *E. coli* impairment.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CRC_MAH2	Connecticut River Conservancy	Water Quality	Westfield River; Westfield and Connecticut Rivers jct.	Westfield River at Pynchon Point Park	42.083300	-72.585449
W0474	MassDEP	Water Quality	Westfield River	[Route 147 bridge, Agawam/West Springfield]	42.090028	-72.626865
W0857	MassDEP	Water Quality	Westfield River	[approximately 260 feet upstream/west of Route 5 bridge, Agawam]	42.083771	-72.592583
USGS-01183610	USGS Massachusetts Water Science Center	Water Quality	Westfield River	WESTFIELD RIVER AT BRIDGE ST AT NORTH AGAWAM, MA; no WWTF	42.099444	-72.636306

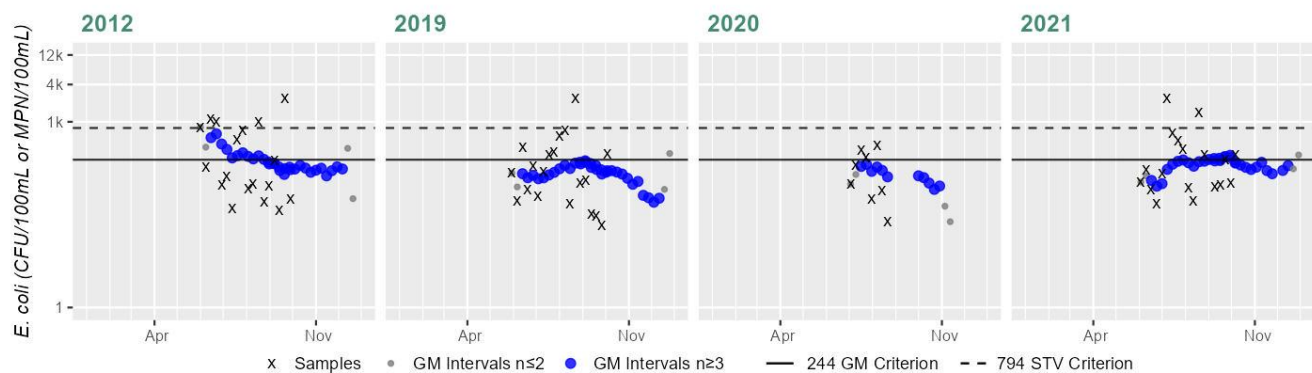
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis) (CRC 2023) (MassDEP Undated 1) (MassDEP Undated 6) (MassDEP Undated 3) (USGS 2024) (MassDEP Undated 1)
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
CRC_MAH2	Connecticut River Conservancy	E. coli	05/31/12	09/27/12	18	37	2419	219
CRC_MAH2	Connecticut River Conservancy	E. coli	05/30/19	10/03/19	19	21	2419	147
CRC_MAH2	Connecticut River Conservancy	E. coli	07/02/20	08/20/20	8	24	410	128
CRC_MAH2	Connecticut River Conservancy	E. coli	06/03/21	10/07/21	18	47	2419	202
W0474	MassDEP	E. coli	05/09/06	10/03/06	5	28	120	53
W0857	MassDEP	E. coli	08/01/01	10/03/01	4	5	14	6
USGS-01183610	USGS Massachusetts Water Science Center	E. coli	01/28/19	12/16/19	11	6	2400	81
USGS-01183610	USGS Massachusetts Water Science Center	E. coli	01/22/20	11/17/20	9	5	220	44
USGS-01183610	USGS Massachusetts Water Science Center	E. coli	01/25/21	12/16/21	11	10	360	94

Station CRC_MAH2 - Escherichia coli

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



Variable*	Result
Samples	18
SeasGM	219
#GMI	31
#GMI Ex	11
%GMI Ex	35%
n>STV	5
%n>STV	27%

Variable*	Result
Samples	19
SeasGM	147
#GMI	33
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	5%

Variable*	Result
Samples	8
SeasGM	128
#GMI	11
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	18
SeasGM	202
#GMI	31
#GMI Ex	7
%GMI Ex	22%
n>STV	2
%n>STV	11%

Cumulative %GMI Exceedance

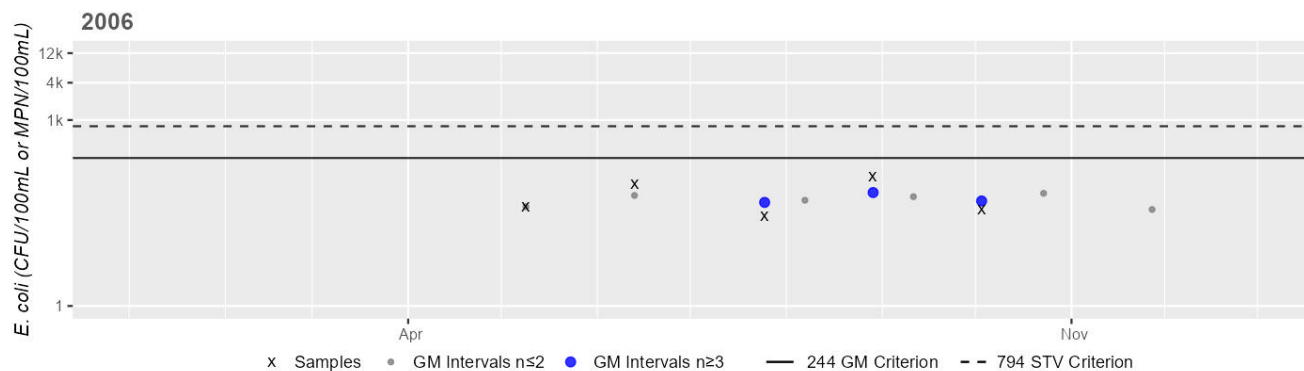
Current (2011-2022)

16%

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

Station MASSDEP_W0474 - *Escherichia coli*

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



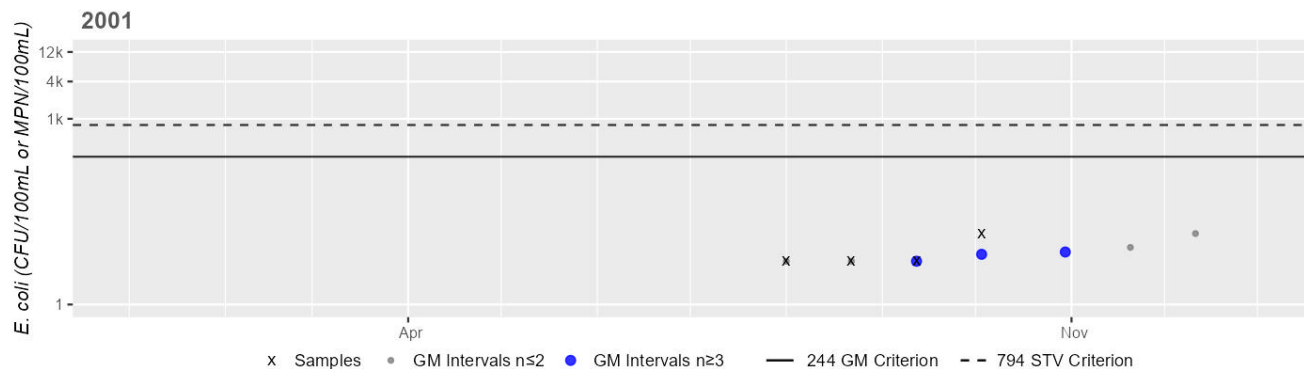
Variable*	Result
Samples	5
SeasGM	53
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Station MASSDEP_W0857 - *Escherichia coli*

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



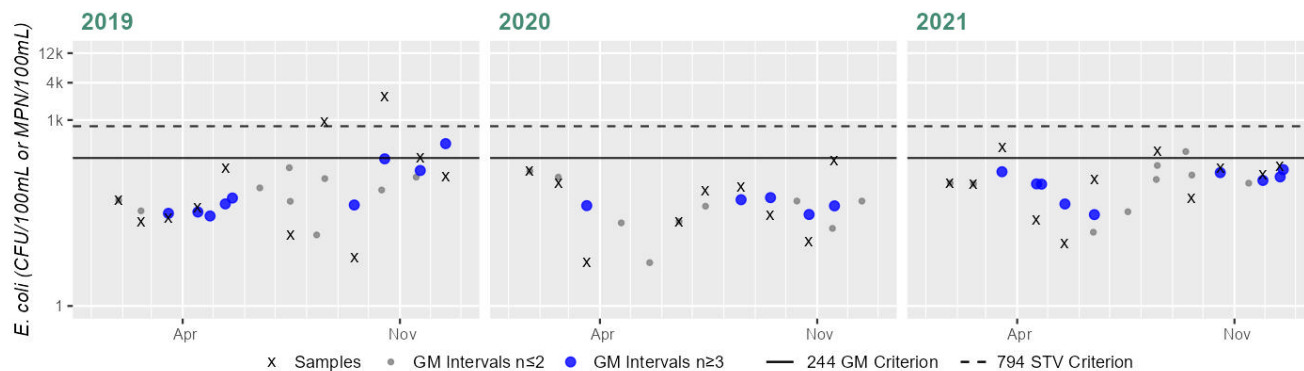
Variable*	Result
Samples	4
SeasGM	6
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Station USGS-01183610 - Escherichia coli

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



Variable*	Result
Samples	11
SeasGM	81
#GMI	9
#GMI Ex	1
%GMI Ex	11%
n>STV	2
%n>STV	18%

Variable*	Result
Samples	9
SeasGM	44
#GMI	5
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	11
SeasGM	94
#GMI	9
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

4%

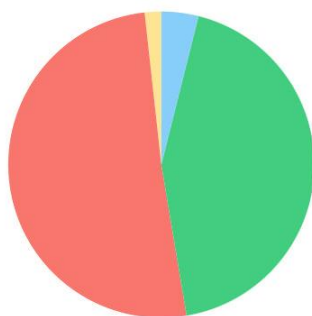
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes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

White Brook (MA32-28)

Location:	Source just north of Route 147, Agawam to mouth at confluence with Westfield River, Agawam.
AU Type:	RIVER
AU Size:	0.9 MILES
Classification/Qualifier:	B: CWF

White Brook (MA32-28)

Watershed Area: 0.73 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	0.73	0.73	0.16	0.16
Agriculture	1.7%	1.7%	0%	0%
Developed	50.9%	50.9%	26.1%	26.1%
Natural	43.4%	43.4%	62.9%	62.9%
Wetland	3.9%	3.9%	11%	11%
Impervious	23.6%	23.6%	11.9%	11.9%

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

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Escherichia Coli (E. Coli)	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	--	--	--	X	--
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	--

Supporting Information for Removed Impairments

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for White Brook (MA32-28) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
There are no data available to assess the status of the Aesthetics Use for this White Brook AU (MA32-28), so it is Not Assessed.	

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO
2024/26 Use Attainment Summary	
No bacteria or other indicator data for White Brook (MA32-28) are available, so the Primary Contact Recreation Use continues to be assessed as Not Supporting. The prior <i>Escherichia coli</i> (<i>E. coli</i>) impairment is being carried forward.	

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary

No bacteria or other indicator data for White Brook (MA32-28) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected *E. coli* bacteria samples in White Brook (MA32-28) at W0229 [Robinson State Park entrance Rd bridge, Agawam] from May-Oct 2006 (n=5). Historic *E. coli* data from W0229 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0229	MassDEP	Water Quality	White Brook	[Robinson State Park entrance road bridge, Agawam]	42.083636	-72.663743

Bacteria Data

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

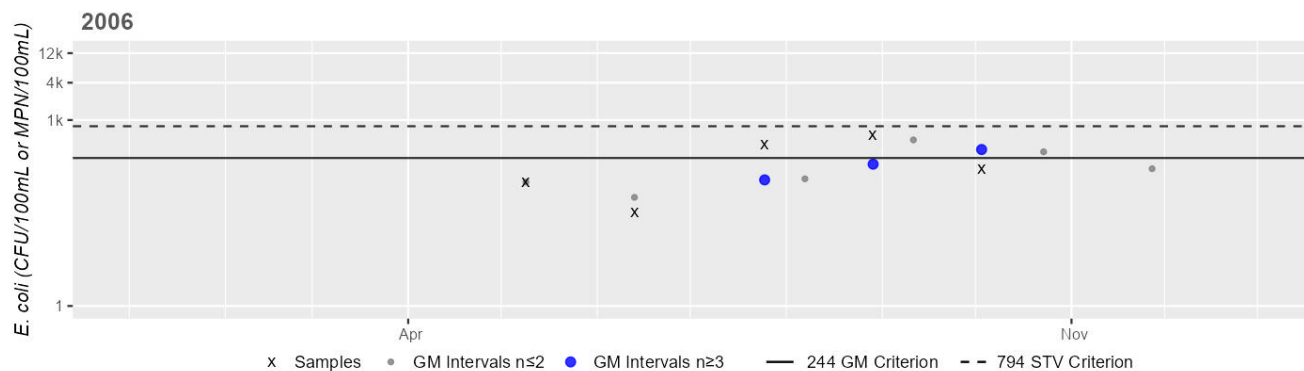
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W0229	MassDEP	E. coli	05/09/06	10/03/06	5	32	576	164

Station MASSDEP_W0229 - *Escherichia coli*

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



Variable*	Result
Samples	5
SeasGM	164
#GMI	3
#GMI Ex	1
%GMI Ex	33%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Historic (1997-2010)

33%

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

%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;

"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Whitmarsh Brook (MA32-87)

Location:	Headwaters, north of Trouble Street, Cummington to mouth at confluence with Bronson Brook, Worthington.
AU Type:	RIVER
AU Size:	1.7 MILES
Classification/Qualifier:	B: CWF

No usable data were available for Whitmarsh Brook (MA32-87) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Windsor Pond (MA32076)

Location:	Windsor.
AU Type:	FRESHWATER LAKE
AU Size:	46 ACRES
Classification/Qualifier:	B

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
5	5	Mercury in Fish Tissue	42410	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	--	--	--	--
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 Windsor Pond (MA32076) 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 Windsor Pond (referred to by MDPH as "Windsor Lake") 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

There are no data available to assess the status of the Aesthetics Use for this Windsor Pond AU (MA32076), 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 Windsor Pond (MA32076) 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 Windsor Pond (MA32076) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Wright Pond (MA32078)

Location:	Holyoke.
AU Type:	FRESHWATER LAKE
AU Size:	28 ACRES
Classification/Qualifier:	A: PWS, ORW

No usable data were available for Wright Pond (MA32078) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

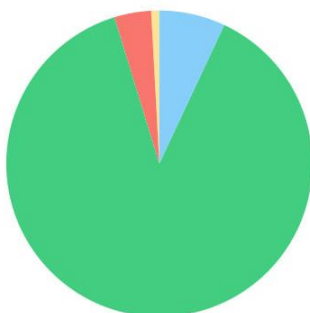
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Yokum Brook (MA32-19)

Location:	Headwaters, outlet Buckley-Dunton Lake, south of County Road, Becket to mouth at confluence with Depot Brook (forming headwaters of West Branch Westfield River), Becket.
AU Type:	RIVER
AU Size:	4 MILES
Classification/Qualifier:	B: CWF

Yokum Brook (MA32-19)

Watershed Area: 8.33 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	8.33	6.26	2.28	1.61
Agriculture	0.9%	1.1%	0.5%	0.7%
Developed	3.9%	4.6%	6.1%	7.6%
Natural	88.3%	87.9%	85.7%	84%
Wetland	7%	6.3%	7.7%	7.7%
Impervious	2%	2.3%	3.3%	4.1%

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Yokum Brook (MA32-19) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No data are available, so the Aesthetics Use for Yokum Brook (MA32-19) 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 Yokum Brook (MA32-19) 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 Yokum Brook (MA32-19) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in Yokum Brook (MA32-19) at W1452 [Prentice Place bridge, Becket] from May-Oct 2006 (n=5). Historic <i>E. coli</i> data from W1452 meet 2024 CALM guidance. Since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1452	MassDEP	Water Quality	Yokum Brook	[Prentice Place bridge, Becket]	42.330798	-73.083518

Bacteria Data

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

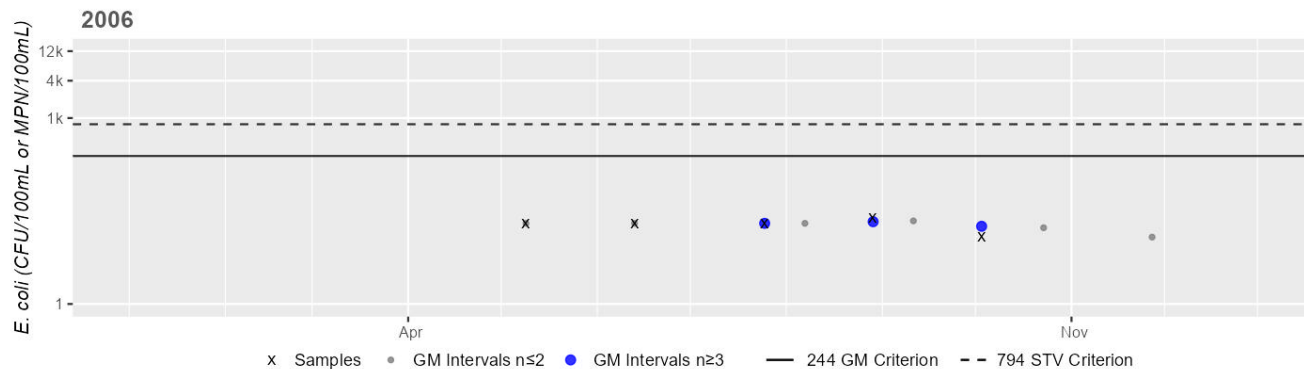
(MassDEP Undated 6) (MassDEP Undated 3)

[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
W1452	MassDEP	E. coli	05/09/06	10/03/06	5	12	24	18

Station MASSDEP_W1452 - Escherichia coli

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



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

Cumulative %GMI Exceedance

Historic (1997-2010)

0%

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

Yokum Pond (MA32079)

Location:	Becket.
AU Type:	FRESHWATER LAKE
AU Size:	98 ACRES
Classification/Qualifier:	B

No usable data were available for Yokum Pond (MA32079) 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	--	--	--	--

Data Sources

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- Bailey, Logan. "Email providing Harmful Algal Bloom advisory data (2015-2022) in the attached spreadsheet "CyanoHAB_Advisories.csv"." Email to Dan Davis and Laurie Kennedy (MassDEP Watershed Planning Program) with subject line "RE: DPH Beach Posting information update needed for 2024 IR", Environmental Toxicology Program, Bureau of Environmental Health, Massachusetts Department of Public Health, Boston, MA, April 26, 2023.
- Bailey, Logan. "RE: Beaches Bill reporting data." Email to Dan Davis (MassDEP Watershed Planning Program) providing an Excel file (DEP_BeachDataRequest) with 2014-2019 data for marine and DCR freshwater beaches, Environmental Toxicology Program, Bureau of Environmental Health, Massachusetts Department of Public Health, Boston, MA, Feb. 2, 2021.
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- . "Emerging Contaminants in Surface Water and Fish: Results from Statewide Monitoring." Environmental Toxicology Program, Massachusetts Department of Public Health. December 26, 2023b. <https://www.mass.gov/doc/2022-summary-of-sampling-data-for-dcr-waterbodies-0/download> (accessed March 2024).
- . "Evaluation of PFAS in Recreational Waterbodies in Massachusetts, Technical Support Document." Environmental Toxicology Program, Bureau of Environmental Health, Massachusetts Department of Public Health. March 2023c. <https://www.mass.gov/doc/technical-basis-for-issuing-fish-advisories-0/download> (accessed 2024).

- . "Freshwater Fish Consumption Advisory List." Bureau of Climate and Environmental Health, Massachusetts Department of Public Health. January 2025.
<https://www.mass.gov/doc/public-health-freshwater-fish-consumption-advisories-2025-0/download> (accessed January 2025).
- MassDEP. "Open file analysis of external water quality data (potential date range 1997-2022) using 2024 CALM guidance." Watershed Planning Program, Massachusetts Department of Environmental Protection, Worcester, MA, Undated 1.
- MassDEP. "Open file analysis of external water quality data (potential date range 2011-2022) using 2024 CALM guidance." Watershed Planning Program, Massachusetts Department of Environmental Protection, Worcester, MA, Undated 2.
- MassDEP. "Open file analysis of MassDEP WPP water quality data collected between 1997 and 2020 using 2024 CALM guidance." Watershed Planning Program, Massachusetts Department of Environmental Protection, Worcester, MA, Undated 3.
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- MassDEP. "Open files of fish toxicity testing data, metadata, and GIS datalayers in development." Watershed Planning Program, Massachusetts Department of Environmental Protection, Worcester, MA, Undated 5.
- MassDEP. "Open files of unpublished, validated water quality monitoring data, field sheet data, and GIS datalayers in development." Watershed Planning Program, Massachusetts Department of Environmental Protection, Worcester, MA, Undated 6.
- . "PFAS Concentrations in Surface Water and Fish Tissue at Selected Rivers and Lakes in Massachusetts." Watershed Planning Program, Division of Watershed Management, Bureau of Water Resources, Massachusetts Department of Environmental Protection. Worcester, MA. In cooperation with Eastern Research Group, Inc. December 2023.
<https://www.mass.gov/doc/massdep-final-report-on-pfas-concentrations-in-surface-water-and-fish-tissue-at-selected-rivers-and-lakes-in-massachusetts/download> (accessed January 2024).
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