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

Appendix 12
Cape Cod Coastal Drainage Area
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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References to trade names, commercial products, manufacturers, or distributors in this report constituted neither endorsement nor recommendation by MassDEP.

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Notice of Availability

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

Overview of Appendix Contents

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

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

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

The following abbreviations are used when referencing designated uses:

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

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

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2024/26 Cycle Impairment Changes

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Allens Harbor	MA96-95	5	4a	Fecal Coliform	R1_MA_2024_04	Changed
Allens Harbor	MA96-95	5	4a	Nitrogen, Total	65883	Unchanged
Allens Harbor	MA96-95	5	4a	Nutrient/Eutrophication Biological Indicators	65883	Unchanged
Areys Pond	MA96-70	5	5	Fecal Coliform	--	Added
Areys Pond	MA96-70	5	5	Nitrogen, Total	33786	Unchanged
Areys Pond	MA96-70	5	5	Nutrient/Eutrophication Biological Indicators	33786	Changed
Ashumet Pond	MA96004	5	5	Abnormal Fish Deformities, Erosions, Lesions, Tumors (DELTS)	--	Unchanged
Ashumet Pond	MA96004	5	5	Dissolved Oxygen	--	Unchanged
Ashumet Pond	MA96004	5	5	Mercury in Fish Tissue	33880	Unchanged
Ashumet Pond	MA96004	5	5	PFAS in Fish Tissue	--	Added
Ashumet Pond	MA96004	5	5	Phosphorus, Total	--	Unchanged
Baker Pond	MA96008	4a	4a	Mercury in Fish Tissue	33880	Unchanged
Barnstable Harbor	MA96-01	4a	4a	Fecal Coliform	36771	Unchanged
Bass River	MA96-118	4a	5	Fecal Coliform	--	Added
Bass River	MA96-118	4a	5	Nitrogen, Total	68003	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Bass River	MA96-118	4a	5	Nutrient/Eutrophication Biological Indicators	68003	Unchanged
Bass River	MA96-12	4a	4a	Estuarine Bioassessments	68003	Unchanged
Bass River	MA96-12	4a	4a	Fecal Coliform	36771	Unchanged
Bass River	MA96-12	4a	4a	Nitrogen, Total	68003	Unchanged
Bassing Harbor	MA96-48	5	5	Estuarine Bioassessments	--	Unchanged
Bearse Pond	MA96012	4a	4a	(Fanwort*)	--	Unchanged
Bearse Pond	MA96012	4a	4a	Mercury in Fish Tissue	42393	Unchanged
Black Pond	MA96017	4c	4c	(Fish Passage Barrier*)	--	Unchanged
Blackfish Creek	MA96-123	3	2	None	--	Unchanged
Boat Meadow River	MA96-15	5	5	Enterococcus	36772	Added
Boat Meadow River	MA96-15	5	5	Estuarine Bioassessments	--	Unchanged
Boat Meadow River	MA96-15	5	5	Fecal Coliform	36772	Unchanged
Bog Pond	MA96024	3	3	None	--	Unchanged
Bourne Pond	MA96026	3	3	None	--	Unchanged
Bournes Pond	MA96-57	4a	4a	Estuarine Bioassessments	32638, 32535	Unchanged
Bournes Pond	MA96-57	4a	4a	Fecal Coliform	36772	Unchanged
Bournes Pond	MA96-57	4a	4a	Nitrogen, Total	32638, 32535	Unchanged
Bucks Creek	MA96-44	4a	4a	Enterococcus	--	Removed
Bucks Creek	MA96-44	4a	4a	Fecal Coliform	36772	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Bucks Creek	MA96-44	4a	4a	Nitrogen, Total	36230	Unchanged
Bumps River	MA96-02	4a	4a	Fecal Coliform	36771	Unchanged
Cedar Pond	MA96-88	5	5	(Fish Passage Barrier*)	--	Unchanged
Cedar Pond	MA96-88	5	5	Chlorophyll-a	--	Unchanged
Cedar Pond	MA96-88	5	5	Dissolved Oxygen	--	Unchanged
Cedar Pond	MA96-88	5	5	Dissolved Oxygen Supersaturation	--	Unchanged
Centerville Harbor	MA96-03	5	5	Estuarine Bioassessments	--	Unchanged
Centerville River	MA96-04	4a	4a	Estuarine Bioassessments	33858	Unchanged
Centerville River	MA96-04	4a	4a	Fecal Coliform	36771	Unchanged
Centerville River	MA96-04	4a	4a	Nitrogen, Total	33858	Unchanged
Chase Garden Creek	MA96-103	5	4a	(Curly-leaf Pondweed*)	--	Unchanged
Chase Garden Creek	MA96-103	5	4a	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed
Chase Garden Creek	MA96-35	4a	4a	Fecal Coliform	36771	Unchanged
Chatham Harbor	MA96-10	2	2	None	--	Unchanged
Childs River	MA96-120	4a	5	Fecal Coliform	--	Added
Childs River	MA96-120	4a	5	Nitrogen, Total	R1_MA_2020_08	Unchanged
Childs River	MA96-120	4a	5	Nutrient/Eutrophication Biological Indicators	R1_MA_2020_08	Unchanged
Childs River	MA96-98	5	5	(Curly-leaf Pondweed*)	--	Unchanged
Childs River	MA96-98	5	5	(Fish Passage Barrier*)	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Childs River	MA96-98	5	5	Lead	--	Unchanged
Clapps Pond	MA96035	3	3	None	--	Unchanged
Cliff Pond	MA96039	5	5	Harmful Algal Blooms	--	Unchanged
Cockle Cove Creek	MA96-79	4a	4a	Enterococcus	--	Removed
Cockle Cove Creek	MA96-79	4a	4a	Fecal Coliform	42353	Unchanged
Coonamessett Pond	MA96043	3	5	Harmful Algal Blooms	--	Added
Coonamessett Pond	MA96043	3	5	Mercury in Fish Tissue	--	Added
Coonamessett River	MA96-69	2	2	None	--	Unchanged
Cotuit Bay	MA96-63	4a	4a	Fecal Coliform	36582	Unchanged
Cotuit Bay	MA96-63	4a	4a	Nitrogen, Total	33988	Unchanged
Crows Pond	MA96-47	2	2	None	--	Unchanged
Crystal Lake	MA96050	5	5	Dissolved Oxygen	--	Unchanged
Depot Pond	MA96061	4c	4c	(Fish Passage Barrier*)	--	Unchanged
Dinahs Pond	MA96-112	4a	5	Fecal Coliform	--	Added
Dinahs Pond	MA96-112	4a	5	Nitrogen, Total	68003	Unchanged
Dinahs Pond	MA96-112	4a	5	Nutrient/Eutrophication Biological Indicators	68003	Unchanged
Dock Creek	MA96-86	4a	4a	Fecal Coliform	42354	Unchanged
Duck Creek	MA96-32	5	4a	Benthic Macroinvertebrates	R1_MA_2024_01	Changed
Duck Creek	MA96-32	5	4a	Dissolved Oxygen	R1_MA_2024_01	Changed

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Duck Creek	MA96-32	5	4a	Fecal Coliform	36772	Unchanged
Duck Creek	MA96-32	5	4a	Nitrogen, Total	R1_MA_2024_01	Changed
Duck Creek	MA96-32	5	4a	Nutrient/Eutrophication Biological Indicators	R1_MA_2024_01	Changed
Duck Pond	MA96068	4a	4a	Mercury in Fish Tissue	33880	Unchanged
Dyer Pond	MA96070	4a	4a	Mercury in Fish Tissue	33880	Unchanged
East Harbor (Pilgrim Lake)	MA96-83	4a	4a	Fecal Coliform	42355	Unchanged
Eel Pond	MA96-121	4a	5	Estuarine Bioassessments	R1_MA_2020_08	Unchanged
Eel Pond	MA96-121	4a	5	Fecal Coliform	--	Added
Eel Pond	MA96-121	4a	5	Nitrogen, Total	R1_MA_2020_08	Unchanged
Eel Pond	MA96-121	4a	5	Nutrient/Eutrophication Biological Indicators	R1_MA_2020_08	Unchanged
Elbow Pond	MA96077	3	3	None	--	Unchanged
Falmouth Inner Harbor	MA96-17	4a	4a	Nitrogen, Total	R1_MA_2020_06	Unchanged
Falmouth Inner Harbor	MA96-17	4a	4a	Nutrient/Eutrophication Biological Indicators	R1_MA_2020_06	Unchanged
Flax Pond	MA96090	3	3	None	--	Unchanged
Flax Pond	MA96091	5	5	Dissolved Oxygen	--	Unchanged
Flax Pond	MA96354	3	3	None	--	Unchanged
Follins Pond	MA96-114	4a	5	Fecal Coliform	--	Added
Follins Pond	MA96-114	4a	5	Nitrogen, Total	68003	Unchanged
Follins Pond	MA96-114	4a	5	Nutrient/Eutrophication Biological Indicators	68003	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Fresh Brook	MA96-126	3	2	None	--	Unchanged
Frost Fish Creek	MA96-49	4a	4a	Fecal Coliform	22513	Unchanged
Frost Fish Creek	MA96-49	4a	4a	Nitrogen, Total	33781	Unchanged
Goose Pond	MA96106	3	3	None	--	Unchanged
Grass Pond	MA96108	--	3	None	--	Unchanged
Great Harbor	MA96-18	5	5	Estuarine Bioassessments	--	Unchanged
Great Harbor	MA96-18	5	5	Fecal Coliform	36772	Unchanged
Great Pond	MA96114	4a	4a	Mercury in Fish Tissue	33880	Unchanged
Great Pond	MA96115	5	5	Chlorophyll-a	--	Unchanged
Great Pond	MA96115	5	5	Dissolved Oxygen	--	Unchanged
Great Pond	MA96115	5	5	Phosphorus, Total	--	Unchanged
Great Pond	MA96117	4a	4a	Mercury in Fish Tissue	33880	Unchanged
Great Pond	MA96-54	4a	4a	Enterococcus	36772	Unchanged
Great Pond	MA96-54	4a	4a	Estuarine Bioassessments	32532	Unchanged
Great Pond	MA96-54	4a	4a	Fecal Coliform	36772	Unchanged
Great Pond	MA96-54	4a	4a	Nitrogen, Total	32532	Unchanged
Great River	MA96-60	4a	5	Estuarine Bioassessments	R1_MA_2020_08	Unchanged
Great River	MA96-60	4a	5	Fecal Coliform	--	Added
Great River	MA96-60	4a	5	Nitrogen, Total	R1_MA_2020_08	Unchanged
Green Pond	MA96-55	4a	4a	Estuarine Bioassessments	32534	Unchanged
Green Pond	MA96-55	4a	4a	Fecal Coliform	36772	Unchanged
Green Pond	MA96-55	4a	4a	Nitrogen, Total	32534	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Grews Pond	MA96121	--	5	PFAS in Fish Tissue	--	Added
Gull Pond	MA96123	3	3	None	--	Unchanged
Halls Creek	MA96-93	4a	4a	Fecal Coliform	42356	Unchanged
Hamblin Pond	MA96126	5	5	Dissolved Oxygen	--	Unchanged
Hamblin Pond	MA96126	5	5	Harmful Algal Blooms	--	Unchanged
Hamblin Pond	MA96126	5	5	Mercury in Fish Tissue	33880	Unchanged
Hamblin Pond	MA96-58	4a	4a	Estuarine Bioassessments	R1_MA_2020_08	Unchanged
Hamblin Pond	MA96-58	4a	4a	Fecal Coliform	36771	Unchanged
Hamblin Pond	MA96-58	4a	4a	Nitrogen, Total	R1_MA_2020_08	Unchanged
Hamblin Pond	MA96-58	4a	4a	Nutrient/Eutrophication Biological Indicators	R1_MA_2020_08	Unchanged
Hamblins Brook	MA96-133	4c	4c	(Fish Passage Barrier*)	--	Unchanged
Harding Beach Pond	MA96-43	4a	4a	Fecal Coliform	36772	Unchanged
Harding Beach Pond	MA96-43	4a	4a	Nitrogen, Total	36229	Unchanged
Hatches Creek	MA96-124	3	3	None	--	Unchanged
Hawes Run	MA96-101	5	5	(Debris*)	--	Unchanged
Hawes Run	MA96-101	5	5	Trash	--	Unchanged
Herring Pond	MA96133	3	3	None	--	Unchanged
Herring Pond	MA96134	3	3	None	--	Unchanged
Herring River	MA96-106	2	2	None	--	Unchanged
Herring River	MA96-22	4a	4a	Estuarine Bioassessments	65960	Unchanged
Herring River	MA96-22	4a	4a	Fecal Coliform	36772	Unchanged

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Herring River	MA96-22	4a	4a	Nitrogen, Total	65960	Unchanged
Herring River	MA96-22	4a	4a	Nutrient/Eutrophication Biological Indicators	65960	Unchanged
Herring River	MA96-33	5	5	(Fish Passage Barrier*)	--	Unchanged
Herring River	MA96-33	5	5	(Flow Regime Modification*)	--	Unchanged
Herring River	MA96-33	5	5	Aluminum	--	Unchanged
Herring River	MA96-33	5	5	Estuarine Bioassessments	R1_MA_2024_01	Changed
Herring River	MA96-33	5	5	Fecal Coliform	36772	Unchanged
Herring River	MA96-33	5	5	pH, Low	--	Unchanged
Herring River	MA96-67	5	5	(Fish Kill(s)*)	--	Unchanged
Herring River	MA96-67	5	5	(Fish Passage Barrier*)	--	Unchanged
Herring River	MA96-67	5	5	(Flow Regime Modification*)	--	Unchanged
Herring River	MA96-67	5	5	Aluminum	--	Unchanged
Herring River	MA96-67	5	5	pH, Low	--	Unchanged
Hinckleys Pond	MA96140	4c	4c	(Curly-leaf Pondweed*)	--	Unchanged
Horseleach Pond	MA96144	4a	4a	Mercury in Fish Tissue	42401	Unchanged
Hoxie Pond	MA96146	3	3	None	--	Unchanged
Hyannis Harbor	MA96-05	5	5	Enterococcus	36771	Added
Hyannis Harbor	MA96-05	5	5	Estuarine Bioassessments	--	Unchanged
Hyannis Harbor	MA96-05	5	5	Fecal Coliform	36771	Added
Hyannis Inner Harbor	MA96-82	4a	4a	Fecal Coliform	42357	Unchanged

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Hyannis Inner Harbor	MA96-82	4a	4a	Nitrogen, Total	64145	Unchanged
Jehu Pond	MA96-59	4a	4a	Estuarine Bioassessments	R1_MA_2020_08	Unchanged
Jehu Pond	MA96-59	4a	4a	Nitrogen, Total	R1_MA_2020_08	Unchanged
Jehu Pond	MA96-59	4a	4a	Nutrient/Eutrophication Biological Indicators	R1_MA_2020_08	Unchanged
Jemima Pond	MA96154	--	2	None	--	Unchanged
Jenkins Pond	MA96155	--	5	PFAS in Fish Tissue	--	Added
Johns Pond	MA96157	4a	5	(Fish Passage Barrier*)	--	Unchanged
Johns Pond	MA96157	4a	5	Mercury in Fish Tissue	33880	Unchanged
Johns Pond	MA96157	4a	5	PFAS in Fish Tissue	--	Added
Kelleys Bay	MA96-113	4a	5	Fecal Coliform	--	Added
Kelleys Bay	MA96-113	4a	5	Nitrogen, Total	68003	Unchanged
Kelleys Bay	MA96-113	4a	5	Nutrient/Eutrophication Biological Indicators	68003	Unchanged
Kinnacum Pond	MA96163	3	3	None	--	Unchanged
Lake Elizabeth	MA96080	4c	4c	(Fish Passage Barrier*)	--	Unchanged
Lawrence Pond	MA96165	4a	4a	Mercury in Fish Tissue	42402	Unchanged
Lewis Bay	MA96-36	5	4a	Estuarine Bioassessments	64146, 64147	Unchanged
Lewis Bay	MA96-36	5	4a	Fecal Coliform	36771	Unchanged
Lewis Bay	MA96-36	5	4a	Nitrogen, Total	64146	Changed
Lewis Bay	MA96-36	5	4a	Nutrient/Eutrophication Biological Indicators	64146	Changed
Lewis Pond	MA96-109	4a	4a	Nitrogen, Total	68369	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Lewis Pond	MA96-109	4a	4a	Nutrient/Eutrophication Biological Indicators	68369	Unchanged
Little Harbor	MA96-19	4a	4a	Fecal Coliform	36772	Unchanged
Little Namskaket Creek	MA96-26	4a	4a	Fecal Coliform	36772	Unchanged
Little Pleasant Bay	MA96-78	4a	4a	Nitrogen, Total	33794	Unchanged
Little Pond	MA96-56	4a	4a	Estuarine Bioassessments	34009	Unchanged
Little Pond	MA96-56	4a	4a	Fecal Coliform	42364	Unchanged
Little River	MA96-61	4a	4a	Estuarine Bioassessments	R1_MA_2020_08	Unchanged
Little River	MA96-61	4a	4a	Nitrogen, Total	R1_MA_2020_08	Unchanged
Little River	MA96-99	5	4a	(Fish Passage Barrier*)	--	Unchanged
Little River	MA96-99	5	4a	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed
Little Sandy Pond	MA96177	--	3	None	--	Unchanged
Loagy Bay	MA96-125	5	5	Chlorophyll-a	R1_MA_2024_01 P	Unchanged
Loagy Bay	MA96-125	5	5	Dissolved Oxygen	--	Unchanged
Long Pond	MA96179	4a	4a	Mercury in Fish Tissue	33880	Unchanged
Long Pond	MA96180	3	5	PFAS in Fish Tissue	--	Added
Long Pond	MA96181	--	2	None	--	Unchanged
Long Pond	MA96183	5	5	Dissolved Oxygen	--	Unchanged
Long Pond	MA96184	4c	4c	(Non-Native Aquatic Plants*)	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Lovells Pond	MA96185	5	5	(Fish Passage Barrier*)	--	Unchanged
Lovells Pond	MA96185	5	5	Chlorophyll-a	--	Unchanged
Lovells Pond	MA96185	5	5	Dissolved Oxygen	--	Unchanged
Lovells Pond	MA96185	5	5	Harmful Algal Blooms	--	Unchanged
Lovells Pond	MA96185	5	5	Phosphorus, Total	--	Unchanged
Lovells Pond	MA96185	5	5	Transparency / Clarity	--	Unchanged
Lovells Pond	MA96185	5	5	Turbidity	--	Unchanged
Lovers Lake	MA96186	5	5	Transparency / Clarity	--	Unchanged
Lower Mill Pond	MA96188	5	5	Algae	--	Unchanged
Lower Mill Pond	MA96188	5	5	Chlorophyll-a	--	Unchanged
Lower Mill Pond	MA96188	5	5	Phosphorus, Total	--	Unchanged
Lower Mill Pond	MA96188	5	5	Turbidity	--	Unchanged
Lumbert Pond	MA96189	--	3	None	--	Unchanged
Maraspin Creek	MA96-06	5	5	Fecal Coliform	36771	Unchanged
Maraspin Creek	MA96-06	5	5	Nutrient/Eutrophication Biological Indicators	--	Unchanged
Marstons Mills River	MA96-127	2	2	None	--	Unchanged
Mashpee Pond	MA96194	5	5	Dissolved Oxygen	--	Unchanged
Mashpee Pond	MA96194	5	5	Mercury in Fish Tissue	33880	Unchanged
Mashpee Pond	MA96194	5	5	PFAS in Fish Tissue	--	Added
Mashpee River	MA96-24	4a	4a	Estuarine Bioassessments	33965	Unchanged
Mashpee River	MA96-24	4a	4a	Fecal Coliform	36771	Unchanged
Mashpee River	MA96-89	2	2	None	--	Unchanged
Middle Pond	MA96198	5	5	(Curly-leaf Pondweed*)	--	Unchanged

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Middle Pond	MA96198	5	5	Dissolved Oxygen	--	Unchanged
Middle Pond	MA96198	5	5	Harmful Algal Blooms	--	Unchanged
Mill Creek	MA96-37	4a	4a	Fecal Coliform	36771	Unchanged
Mill Creek	MA96-41	4a	4a	Fecal Coliform	36772	Unchanged
Mill Creek	MA96-80	4a	4a	Fecal Coliform	42365	Unchanged
Mill Creek	MA96-80	4a	4a	Nitrogen, Total	64148, 64149	Unchanged
Mill Creek	MA96-85	4a	4a	Fecal Coliform	42366	Unchanged
Mill Pond	MA96-117	4a	4a	Nitrogen, Total	68003	Unchanged
Mill Pond	MA96-117	4a	4a	Nutrient/Eutrophication Biological Indicators	68003	Unchanged
Mill Pond	MA96206	3	3	None	--	Unchanged
Mill Pond	MA96356	3	5	Mercury in Fish Tissue	--	Added
Mill Pond	MA96-52	4a	5	Estuarine Bioassessments	36222	Unchanged
Mill Pond	MA96-52	4a	5	Fecal Coliform	--	Added
Mill Pond	MA96-52	4a	5	Nitrogen, Total	36222	Unchanged
Miss Thachers Pond	MA96258	4c	4c	(Fish Passage Barrier*)	--	Unchanged
Moll Pond	MA96355	5	5	Harmful Algal Blooms	--	Unchanged
Muddy Creek	MA96-115	3	3	None	--	Unchanged
Muddy Creek	MA96-51	4a	4a	(Fish Passage Barrier*)	--	Unchanged
Muddy Creek	MA96-51	4a	4a	Fecal Coliform	22512	Unchanged
Muddy Creek	MA96-51	4a	4a	Nitrogen, Total	33798, 33797	Unchanged
Mystic Lake	MA96218	5	5	(Non-Native Aquatic Plants*)	--	Unchanged
Mystic Lake	MA96218	5	5	Dissolved Oxygen	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Namequoit River	MA96-71	4a	4a	Estuarine Bioassessments	33791	Unchanged
Namequoit River	MA96-71	4a	4a	Nitrogen, Total	33791	Unchanged
Namskaket Creek	MA96-27	4a	4a	Enterococcus	36772	Added
Namskaket Creek	MA96-27	4a	4a	Fecal Coliform	36772	Unchanged
Nauset Harbor	MA96-28	5	5	Estuarine Bioassessments	--	Unchanged
North Bay	MA96-66	4a	4a	Estuarine Bioassessments	33990	Unchanged
North Bay	MA96-66	4a	4a	Fecal Coliform	36584	Unchanged
North Pond	MA96225	3	3	None	--	Unchanged
Nye Pond	MA96228	3	3	None	--	Unchanged
Old Harbor Creek	MA96-84	4a	4a	Fecal Coliform	42367	Unchanged
Oyster Pond	MA96-45	4a	4a	Estuarine Bioassessments	36219	Unchanged
Oyster Pond	MA96-45	4a	4a	Fecal Coliform	36772	Unchanged
Oyster Pond	MA96-45	4a	4a	Nitrogen, Total	36219	Unchanged
Oyster Pond	MA96-62	4a	4a	Dissolved Oxygen	34345	Unchanged
Oyster Pond	MA96-62	4a	4a	Estuarine Bioassessments	34345	Unchanged
Oyster Pond	MA96-62	4a	4a	Fecal Coliform	36772	Unchanged
Oyster Pond River	MA96-46	4a	4a	Estuarine Bioassessments	36220	Unchanged
Oyster Pond River	MA96-46	4a	4a	Fecal Coliform	36772	Unchanged
Oyster Pond River	MA96-46	4a	4a	Nitrogen, Total	36220	Unchanged
Pamet River	MA96-31	4a	4a	Enterococcus	36772	Added

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Pamet River	MA96-31	4a	4a	Fecal Coliform	36772	Unchanged
Parkers River	MA96-38	4a	4a	Fecal Coliform	36771	Unchanged
Parkers River	MA96-38	4a	4a	Nitrogen, Total	68361	Unchanged
Parkers River	MA96-38	4a	4a	Nutrient/Eutrophication Biological Indicators	68361	Unchanged
Paw Wah Pond	MA96-72	4a	4a	Estuarine Bioassessments	33792	Unchanged
Paw Wah Pond	MA96-72	4a	4a	Fecal Coliform	42368	Unchanged
Paw Wah Pond	MA96-72	4a	4a	Nitrogen, Total	33792	Unchanged
Perch Pond	MA96-53	4a	4a	Fecal Coliform	36772	Added
Perch Pond	MA96-53	4a	4a	Nitrogen, Total	32537	Unchanged
Peters Pond	MA96244	4a	4a	Mercury in Fish Tissue	33880	Unchanged
Pilgrim Lake	MA96246	3	3	None	--	Unchanged
Pleasant Bay	MA96-77	5	5	Estuarine Bioassessments	--	Unchanged
Pleasant Bay	MA96-77	5	5	Nitrogen, Total	33799	Unchanged
Pochet Neck	MA96-73	4a	4a	Estuarine Bioassessments	33793	Unchanged
Pochet Neck	MA96-73	4a	4a	Fecal Coliform	42369	Unchanged
Pochet Neck	MA96-73	4a	4a	Nitrogen, Total	33793	Unchanged
Popponesset Bay	MA96-40	4a	5	Estuarine Bioassessments	33969, 33967, 33968	Unchanged
Popponesset Bay	MA96-40	4a	5	Fecal Coliform	--	Added
Popponesset Creek	MA96-39	5	5	Estuarine Bioassessments	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Popponesset Creek	MA96-39	5	5	Fecal Coliform	36772	Unchanged
Prince Cove	MA96-07	4a	4a	Estuarine Bioassessments	33992, 33993, 33991	Unchanged
Prince Cove	MA96-07	4a	4a	Fecal Coliform	36585	Unchanged
Provincetown Harbor	MA96-29	4a	4a	Enterococcus	36772	Added
Provincetown Harbor	MA96-29	4a	4a	Fecal Coliform	36772	Unchanged
Quanset Pond	MA96-74	4a	4a	Nitrogen, Total	33795, 33791	Unchanged
Quashnet River	MA96-20	4a	4a	Dissolved Oxygen	R1_MA_2020_08	Unchanged
Quashnet River	MA96-20	4a	4a	Fecal Coliform	36772	Unchanged
Quashnet River	MA96-20	4a	4a	Nitrogen, Total	R1_MA_2020_08	Unchanged
Quashnet River	MA96-90	5	5	(Curly-leaf Pondweed*)	--	Unchanged
Quashnet River	MA96-90	5	5	Temperature	--	Unchanged
Quivett Creek	MA96-09	5	5	(Curly-leaf Pondweed*)	--	Unchanged
Quivett Creek	MA96-09	5	5	Dissolved Oxygen	--	Unchanged
Quivett Creek	MA96-09	5	5	Fecal Coliform	36771	Unchanged
Red Brook	MA96-25	2	3	None	--	Unchanged
Red Lily Pond	MA96257	5	5	(Aquatic Plants (Macrophytes)*)	--	Unchanged
Red Lily Pond	MA96257	5	5	Fecal Coliform	--	Unchanged
Red Lily Pond	MA96257	5	5	Nutrient/Eutrophication Biological Indicators	--	Unchanged
Red River	MA96-107	5	4a	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
Rock Harbor Creek	MA96-16	4a	4a	(Fish Passage Barrier*)	--	Unchanged
Rock Harbor Creek	MA96-16	4a	4a	Enterococcus	36772	Added
Rock Harbor Creek	MA96-16	4a	4a	Fecal Coliform	36772	Unchanged
Round Cove	MA96-75	5	4a	Fecal Coliform	R1_MA_2024_04	Changed
Round Cove	MA96-75	5	4a	Nitrogen, Total	33796	Unchanged
Round Pond (East)	MA96260	4a	4a	Mercury in Fish Tissue	42403	Unchanged
Round Pond (west)	MA96261	4a	4a	Mercury in Fish Tissue	42404	Unchanged
Run Pond	MA96265	3	3	None	--	Unchanged
Rushy Marsh Pond	MA96266	3	3	None	--	Unchanged
Ryder Cove	MA96-50	4a	4a	Estuarine Bioassessments	33780	Unchanged
Ryder Cove	MA96-50	4a	4a	Fecal Coliform	36772	Unchanged
Ryder Cove	MA96-50	4a	4a	Nitrogen, Total	33780	Unchanged
Ryder Pond	MA96268	5	5	Dissolved Oxygen	--	Unchanged
Ryder Pond	MA96268	5	5	Mercury in Fish Tissue	33880	Unchanged
Ryder Pond	MA96268	5	5	Phosphorus, Total	--	Unchanged
Sagelot Pond	MA96-119	4a	4a	Nutrient/Eutrophication Biological Indicators	R1_MA_2020_08	Unchanged
Santuit Pond	MA96277	5	5	(Fish Passage Barrier*)	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Santuit Pond	MA96277	5	5	Abnormal Fish Deformities, Erosions, Lesions, Tumors (DELTS)	--	Unchanged
Santuit Pond	MA96277	5	5	Chlorophyll-a	--	Unchanged
Santuit Pond	MA96277	5	5	Harmful Algal Blooms	--	Unchanged
Santuit Pond	MA96277	5	5	Nutrient/Eutrophication Biological Indicators	--	Unchanged
Santuit Pond	MA96277	5	5	pH, High	--	Unchanged
Santuit Pond	MA96277	5	5	Phosphorus, Total	--	Unchanged
Santuit Pond	MA96277	5	5	Transparency / Clarity	--	Unchanged
Santuit River	MA96-91	5	5	(Fish Passage Barrier*)	--	Unchanged
Santuit River	MA96-91	5	5	Temperature	--	Unchanged
Santuit River	MA96-92	4a	4a	Fecal Coliform	42360	Unchanged
Saquatucket Harbor	MA96-23	4a	4a	Fecal Coliform	36772	Unchanged
Saquatucket Harbor	MA96-23	4a	4a	Nitrogen, Total	65884	Unchanged
Saquatucket Harbor	MA96-23	4a	4a	Nutrient/Eutrophication Biological Indicators	65884	Unchanged
Scargo Lake	MA96279	3	3	None	--	Unchanged
Schoolhouse Pond	MA96281	3	3	None	--	Unchanged
Scorton Creek	MA96-30	4a	4a	Fecal Coliform	36771	Unchanged
Seapit River	MA96-122	2	5	Fecal Coliform	--	Added
Seapuit River	MA96-64	4a	4a	Fecal Coliform	36583	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Seine Pond	MA96-110	4a	5	Fecal Coliform	--	Added
Seine Pond	MA96-110	4a	5	Nitrogen, Total	68362	Unchanged
Seine Pond	MA96-110	4a	5	Nutrient/Eutrophication Biological Indicators	68362	Unchanged
Sesuit Creek	MA96-13	4a	4a	Fecal Coliform	36771	Unchanged
Sesuit Creek	MA96-130	4c	4c	(Fish Passage Barrier*)	--	Unchanged
Shallow Pond	MA96285	3	3	None	--	Unchanged
Shawme Lake Lower	MA96288	5	5	Nutrient/Eutrophication Biological Indicators	--	Unchanged
Sheep Pond	MA96289	4a	4a	Mercury in Fish Tissue	33880	Unchanged
Shoestring Bay	MA96-08	4a	4a	Estuarine Bioassessments	33966	Unchanged
Shoestring Bay	MA96-08	4a	4a	Fecal Coliform	36771	Unchanged
Shubael Pond	MA96293	3	5	Mercury in Fish Tissue	--	Added
Silver Spring Brook	MA96-136	--	3	None	--	Unchanged
Slough Pond	MA96298	4a	4a	Mercury in Fish Tissue	33880	Unchanged
Smith Pond	MA96301	3	3	None	--	Unchanged
Snake Pond	MA96302	4a	5	Mercury in Fish Tissue	33880	Unchanged
Snake Pond	MA96302	4a	5	PFAS in Fish Tissue	--	Added
Snow Pond	MA96303	4a	4a	Mercury in Fish Tissue	33880	Unchanged
Snows Creek	MA96-81	4a	4a	Fecal Coliform	42361	Unchanged
Spectacle Pond	MA96306	4a	4a	Mercury in Fish Tissue	42405	Unchanged
Spectacle Pond	MA96307	5	5	Dissolved Oxygen	--	Unchanged
Spectacle Pond	MA96307	5	5	Mercury in Fish Tissue	42406	Unchanged
Springhill Creek	MA96-87	4a	4a	Fecal Coliform	42362	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Stage Harbor	MA96-11	5	4a	Estuarine Bioassessments	36221	Changed
Stage Harbor	MA96-11	5	4a	Fecal Coliform	36772	Unchanged
Stewarts Creek	MA96-94	4a	4a	Fecal Coliform	42363	Unchanged
Stillwater Pond	MA96309	5	4c	(Fish Passage Barrier*)	--	Unchanged
Stillwater Pond	MA96309	5	4c	Transparency / Clarity	--	Removed
Swan Pond	MA96-111	4a	5	Enterococcus	--	Added
Swan Pond	MA96-111	4a	5	Fecal Coliform	--	Added
Swan Pond	MA96-111	4a	5	Nitrogen, Total	68000	Unchanged
Swan Pond	MA96-111	4a	5	Nutrient/Eutrophication Biological Indicators	68000	Unchanged
Swan Pond River	MA96-14	4a	4a	Estuarine Bioassessments	68001	Unchanged
Swan Pond River	MA96-14	4a	4a	Fecal Coliform	36771	Unchanged
Swan Pond River	MA96-14	4a	4a	Nitrogen, Total	68001	Unchanged
Swan Pond River	MA96-14	4a	4a	Nutrient/Eutrophication Biological Indicators	68001	Unchanged
Taylors Pond	MA96-42	4a	4a	Fecal Coliform	36772	Unchanged
Taylors Pond	MA96-42	4a	4a	Nitrogen, Total	36231	Unchanged
The River	MA96-76	4a	4a	Fecal Coliform	42359	Unchanged
The River	MA96-76	4a	4a	Nitrogen, Total	33787, 33788, 33790, 33789	Unchanged
Town Brook	MA96-137	--	3	None	--	Unchanged
Town Cove	MA96-68	5	5	Estuarine Bioassessments	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Uncle Harvey Pond	MA96319	5	5	Harmful Algal Blooms	--	Unchanged
Unnamed Tributary	MA96-100	5	4a	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed
Unnamed Tributary	MA96-104	5	4a	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed
Unnamed Tributary	MA96-105	2	3	None	--	Unchanged
Unnamed Tributary	MA96-108	5	4a	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed
Unnamed Tributary	MA96-128	4c	4c	(Fish Passage Barrier*)	--	Unchanged
Unnamed Tributary	MA96-129	4c	4c	(Fish Passage Barrier*)	--	Unchanged
Unnamed Tributary	MA96-131	3	3	None	--	Unchanged
Unnamed Tributary	MA96-132	4c	4c	(Fish Passage Barrier*)	--	Unchanged
Unnamed Tributary	MA96-134	--	3	None	--	Unchanged
Unnamed Tributary	MA96-135	--	3	None	--	Unchanged
Unnamed Tributary	MA96-97	4a	4a	Nitrogen, Total	64151	Unchanged
Upper Mill Pond	MA96324	2	2	None	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Upper Shawme Lake	MA96326	5	5	Nutrient/Eutrophication Biological Indicators	--	Unchanged
Village Pond	MA96329	3	3	None	--	Unchanged
Wakeby Pond	MA96346	4a	5	Mercury in Fish Tissue	33880	Unchanged
Wakeby Pond	MA96346	4a	5	PFAS in Fish Tissue	--	Added
Walkers Pond	MA96331	5	5	Algae	--	Unchanged
Walkers Pond	MA96331	5	5	Chlorophyll-a	--	Unchanged
Walkers Pond	MA96331	5	5	Harmful Algal Blooms	--	Unchanged
Walkers Pond	MA96331	5	5	Nutrient/Eutrophication Biological Indicators	--	Unchanged
Walkers Pond	MA96331	5	5	Phosphorus, Total	--	Unchanged
Walkers Pond	MA96331	5	5	Transparency / Clarity	--	Unchanged
Walkers Pond	MA96331	5	5	Turbidity	--	Unchanged
Waquoit Bay	MA96-21	4a	4a	Dissolved Oxygen	R1_MA_2020_08	Unchanged
Waquoit Bay	MA96-21	4a	4a	Estuarine Bioassessments	R1_MA_2020_08	Unchanged
Waquoit Bay	MA96-21	4a	4a	Fecal Coliform	36772	Added
Waquoit Bay	MA96-21	4a	4a	Nitrogen, Total	R1_MA_2020_08	Unchanged
Waquoit Bay	MA96-21	4a	4a	Nutrient/Eutrophication Biological Indicators	R1_MA_2020_08	Unchanged
Weir Creek	MA96-116	4a	4a	Nitrogen, Total	68003	Unchanged
Wellfleet Harbor	MA96-34	5	4a	Nitrogen, Total	R1_MA_2024_01	Changed
Wellfleet Harbor	MA96-34	5	4a	Nutrient/Eutrophication Biological Indicators	R1_MA_2024_01	Changed
Wequaquet Lake	MA96333	4a	4a	(Fanwort*)	--	Unchanged
Wequaquet Lake	MA96333	4a	4a	(Fish Passage Barrier*)	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Wequaquet Lake	MA96333	4a	4a	Mercury in Fish Tissue	33880	Unchanged
West Bay	MA96-65	4a	5	Estuarine Bioassessments	33989	Unchanged
West Bay	MA96-65	4a	5	Fecal Coliform	--	Added
White Pond	MA96338	3	5	Mercury in Fish Tissue	--	Added
Whites Brook	MA96-102	5	4a	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed
Williams Pond	MA96341	--	4c	(Aquatic Plants (Macrophytes)*)	--	Added
Wychmere Harbor	MA96-96	5	4a	Fecal Coliform	R1_MA_2024_04	Changed
Wychmere Harbor	MA96-96	5	4a	Nitrogen, Total	65882	Unchanged
Wychmere Harbor	MA96-96	5	4a	Nutrient/Eutrophication Biological Indicators	65882	Unchanged

Allens Harbor (MA96-95)

Location:	south of Lower County Road, Harwich to Doanes Creek, Harwich.
AU Type:	ESTUARY
AU Size:	0.02 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	4a	Fecal Coliform	R1_MA_2024_04	Changed
5	4a	Nitrogen, Total	65883	Unchanged
5	4a	Nutrient/Eutrophication Biological Indicators	65883	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	--	--	X	--	--	--
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	X	--	--	--	--	--
Nitrogen, Total	Golf Courses (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nutrient/Eutrophication Biological Indicators	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Golf Courses (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Yard Maintenance (Y)	X	--	--	--	--	--

Supporting Information for Removed Impairments

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Allens Harbor (MA96-95) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Allens Harbor (MA96-95): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0204 sq mi (92%). The approved shellfish growing area represents 0 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC39.1	Allens Harbor	Conditionally Approved	0.01315	59.1%
SC39.2	Allens Harbor	Prohibited	0.00729	32.8%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Allens Harbor (MA96-95) 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 Allens Harbor (MA96-95) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0204 sq mi) in this AU are less than 100% approved (0 sq mi, 0%). The data were too limited to assess Primary Contact Recreation Use for Allens Harbor based on shellfish classification data.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Allens Harbor (MA96-95): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0204 sq mi (92%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Allens Harbor (MA96-95) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0204 sq mi) in this AU are less than 100% approved (0 sq mi, 0%). The data were too limited to assess Secondary Contact Recreation Use for Allens Harbor based on shellfish classification data.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Allens Harbor (MA96-95): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0204 sq mi (92%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Areys Pond (MA96-70)

Location:	Orleans.
AU Type:	ESTUARY
AU Size:	0.02 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO (also tributary to SA B Shellfishing ORW)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Fecal Coliform	--	Added
5	5	Nitrogen, Total	33786	Unchanged
5	5	Nutrient/Eutrophication Biological Indicators	33786	Changed

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--
Nitrogen, Total	Agriculture (Y)	X	--	--	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Unrestricted Cattle Access (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Agriculture (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nutrient/Eutrophication Biological Indicators	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Unrestricted Cattle Access (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Yard Maintenance (Y)	X	--	--	--	--	--

Supporting Information for Removed Impairments

2022 Removed Impairment	Removal Reason	Removal Comment
Nutrient/Eutrophication Biological Indicators	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: FINAL Pleasant Bay System Total Maximum Daily Loads for Total Nitrogen (Report CN 244.0, approved 10/24/2007, ATTAINS Action ID: 33786)

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 Areys Pond (MA96-70) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Areys Pond (MA96-70): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0182 sq mi (99%). The approved shellfish growing area represents 0.0003 sq mi (1%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications, a Fecal Coliform impairment is being added.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC63.0	Namequoit River	Approved	0.00026	1.4%
SC63.5	Arey's Pond	Conditionally Approved	0.01798	98.0%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Areys Pond (MA96-70) 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 Areys Pond (MA96-70) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0182 sq mi) in this AU are less than 100% approved (0.0003 sq mi, 1%). The data were too limited to assess Primary Contact Recreation Use of Areys Pond based on shellfish classification data.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Areys Pond (MA96-70): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0182 sq mi (99%). The approved shellfish growing area represents 0.0003 sq mi (1%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Areys Pond (MA96-70) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0182 sq mi) in this AU are less than 100% approved (0.0003 sq mi, 1%). The data were too limited to assess Secondary Contact Recreation Use of Areys Pond based on shellfish classification data.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Areys Pond (MA96-70): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0182 sq mi (99%). The approved shellfish growing area represents 0.0003 sq mi (1%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Ashumet Pond (MA96004)

Location:	Mashpee/Falmouth.
AU Type:	FRESHWATER LAKE
AU Size:	203 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Abnormal Fish Deformities, Erosions, Lesions, Tumors (DELTS)	--	Unchanged
5	5	Dissolved Oxygen	--	Unchanged
5	5	Mercury in Fish Tissue	33880	Unchanged
5	5	PFAS in Fish Tissue	--	Added
5	5	Phosphorus, Total	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Abnormal Fish Deformities, Erosions, Lesions, Tumors (DELTS)	CERCLA NPL (Superfund) Sites (Y)	X	--	--	--	--
Abnormal Fish Deformities, Erosions, Lesions, Tumors (DELTS)	Contaminated Groundwater (Y)	X	--	--	--	--
Abnormal Fish Deformities, Erosions, Lesions, Tumors (DELTS)	NPS Pollution from Military Base Facilities (other than Port Facilities) (Y)	X	--	--	--	--
Dissolved Oxygen	CERCLA NPL (Superfund) Sites (Y)	X	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Dissolved Oxygen	Contaminated Groundwater (Y)	X	--	--	--	--
Dissolved Oxygen	NPS Pollution from Military Base Facilities (other than Port Facilities) (Y)	X	--	--	--	--
Mercury in Fish Tissue	Atmospheric Deposition (Y)	--	X	--	--	--
Mercury in Fish Tissue	Source Unknown (N)	--	X	--	--	--
PFAS in Fish Tissue	CERCLA NPL (Superfund) Sites (Y)	--	X	--	--	--
Phosphorus, Total	CERCLA NPL (Superfund) Sites (Y)	X	--	--	--	--
Phosphorus, Total	Contaminated Groundwater (Y)	X	--	--	--	--
Phosphorus, Total	NPS Pollution from Military Base Facilities (other than Port Facilities) (Y)	X	--	--	--	--

Recommendations

2024/26 Recommendations
2024/26IR [Harmful Algal Blooms, Low] Follow-up monitoring should be conducted in Ashumet Pond (MA96004) to determine if Harmful Algal Blooms may be impairing the Recreational and Aesthetic uses. C-HAB postings for Ashumet Pond were reported to MDPH based on visual observations for 15 days in 2021. Monitoring should include observational data and collection of cyanobacteria cell count data, as well as continued reporting of algal blooms to MDPH. Notes should also be made as to the possibility of a secondary “Algae” impairment for this Pond due to a historical Alert (at that time named as “Algal Bloom”) identified based on a blue-green algal bloom which occurred in July 2008. This is of low priority; 2024/26IR [PFAS, Low] Additional monitoring should be conducted in Ashumet Pond (MA96004) to determine if the Primary Contact Recreation use should be impaired for PFAS. Elevated concentrations of Perfluorohexane Sulfonic Acid (PFHxS) were recorded at station {W3263} in June 2022. Note that the Fish Consumption use is already impaired for PFAS in Fish Tissue with the CERCLA NPL (Superfund) Site at Otis Airforce Base being a suspected source. This is of low priority.

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Ashumet Pond (MA96004) continues to be assessed as Not Supporting. The prior Mercury in Fish Tissue impairment is being carried forward and a new impairment is being added for PFAS in Fish Tissue. Fish toxics sampling was conducted in Ashumet Pond at station F0071 (PFAS Study ID 5) on 06/06/2022 as part of a MassDEP-funded project evaluating 40 PFAS analytes in selected fresh waters. MDPH issued a site-specific advisory for PFAS in Ashumet Pond in their May 2024 Freshwater Fish Consumption Advisory List and retained both this advisory as well as the existing Mercury advisory in the January 2025 list. The public should refer to the most recent MDPH 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
F0071	MassDEP	Fish Toxics	Ashumet Pond	[Mashpee/Falmouth]	41.631657	-70.533653

Fish Tissue Data

Summary of Fish Tissue Data and Resulting Fish Consumption Advisories (MA DPH 2025) (MassDEP 2023) (MassDEP Undated 7)

Summary
Fish toxics sampling was conducted in Ashumet Pond (MA96004) at station F0071 (PFAS Study ID 5) on 06/06/2022 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 Ashumet Pond in their May 2024 Freshwater Fish Consumption Advisory List and retained them in the January 2025 list. Additionally, MDPH retained the existing site-specific fish consumption advisories for Mercury associated with Ashumet Pond in their January 2025 Freshwater Fish Consumption Advisory List. The site-specific MDPH advisories are indicative of Fish Consumption Use impairments for PFAS in Fish Tissue and Mercury in Fish Tissue for Ashumet Pond (MA96004).

MassDEP 2022 PFAS in Fish Tissue Data for Massachusetts Surface Waters (MassDEP 2023) (MassDEP Undated 7) (MA DPH 2023)

[ng/g = ppb. All PFBA, PFBS, and HFPO-DA (Genx) concentrations <MDL. ND indicates that the PFAS analyte was not detected in any of the composite samples (i.e., it was <MDL). Means weighted by the number of fish in the contributing composites were

calculated for any PFAS analyte – waterbody – species combination where an analyte was detected in at least one sample; if a sample did not have the analyte detected, the concentration for that sample was set to ½*MDL for the purposes of calculating a mean. Data are highlighted red per the fish consumption advisory thresholds summarized in Table 4.2 of MA DPH's 2023 Technical Support Document for the evaluation of PFAS in recreational waterbodies.]
[Species List: LMB = largemouth bass, WP = white perch, 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
F0071	5	06/06/2022	LMB	0.54	ND	ND	230.00	PFHxS
F0071	5	06/06/2022	WP	0.36	0.64	ND	206.67	PFHxS & PFNA
F0071	5	06/06/2022	YP	1.2	0.85	0.21	126.67	PFNA & PFOA

Aesthetic

2024/26 Use Attainment	Alert
Insufficient Information	YES

2024/26 Use Attainment Summary
Too limited data are available to assess the Aesthetics Use for Ashumet Pond (MA96004), so it is assessed as having Insufficient Information. The prior Alert identified for Algae is being carried forward and a new Alert is being identified for Harmful Algal Blooms in this waterbody, since C-HAB postings (a bloom of 15 days duration) was reported to MDPH in 2021. During the period 2015 through 2022, C-HAB postings for Ashumet Pond were reported to MDPH based on visual observations for 15 days in 2021 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 in this waterbody and a recommendation for follow-up sampling will be made.

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

C-HAB Summary Statement
During the period 2015 through 2022, C-HAB postings for Ashumet Pond (MA96004) were reported to MDPH based on visual observations for 15 days in 2021. 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 2)
[* indicates a C-HAB posting of unknown duration]

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
Ashumet Pond	Mashpee/Falmouth							15	

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 Ashumet Pond (MA96004) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information. The prior Alert identified for Algae is being carried forward. Two new Alerts are also being identified for this waterbody; one is for Harmful Algal Blooms, since C-HAB postings (a bloom of 15 days duration) was reported to MDPH in 2021 and the second is for Perfluorohexane Sulfonic Acid (PFHxS) since its concentration was found to be elevated in June 2022. During the period 2015 through 2022, C-HAB postings for Ashumet Pond were reported to MDPH based on visual observations for 15 days in 2021 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 for Harmful Algal Blooms is being identified for this waterbody and a recommendation for follow-up sampling will be made. Surface water sampling was conducted in Ashumet Pond at station W3263 (PFAS Study ID 5) on 06/06/2022 as part of a 2022 MassDEP funded project with ERG evaluating 40 PFAS analytes in selected fresh waters. Of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS, HFPO-DA/GenX), the concentrations of six were less than the 90 ng/L (ppt) recreational screening value. However the concentration of PFHxS was elevated at 97 ng/L, which is indicative of an Alert status.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W3263	MassDEP	Water Quality	Ashumet Pond	[the default location representing co-located water/fish PFAS sampling, Mashpee/Falmouth]	41.631657	-70.533653

Other Indicators

Summary Statement(s) for MassDEP 2022 PFAS in Water Column Data (MassDEP 2023) (MassDEP Undated 5)

Summary
Surface water sampling was conducted in Ashumet Pond (MA96004) at station W3263 (PFAS Study ID 5) on 06/06/2022 as part of a 2022 MassDEP funded project with ERG evaluating 40 PFAS analytes in selected fresh waters. Of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS, HFPO-DA/GenX), the concentrations of six were less than the 90 ng/L (ppt) recreational screening value, but the concentration of PFHxS was elevated at 97 ng/L. These data are indicative of the need for an Alert status.

MassDEP 2022 PFAS in Water Column Data for Massachusetts Surface Waters (MassDEP 2023) (MassDEP Undated 5)

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

Station Code	PFAS Study ID	Sample Date	PFOA ng/L	PFOS ng/L	PFNA ng/L	PFHxS ng/L	PFBA ng/L	PFBS ng/L	HFPO-DA ng/L	∑PFAS6 ng/L
W3263	5	06/06/2022	37	78	5.2	97	6.8j	5.4	<2.1	229.7

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 Ashumet Pond (MA96004) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information. The prior Alert identified for Algae is being carried forward. A new Alert is being identified for Harmful Algal Blooms since C-HAB postings (a bloom of 15 days duration) was reported to MDPH in 2021. During the period 2015 through 2022, C-HAB postings for Ashumet Pond were reported to MDPH based on visual observations for 15 days in 2021 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, a Harmful Algal Bloom Alert is being identified for this waterbody and a recommendation for follow-up sampling will be made.

Baker Pond (MA96008)

Location:	Orleans/Brewster.
AU Type:	FRESHWATER LAKE
AU Size:	26 ACRES
Classification/Qualifier:	B

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

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Baker Pond (MA96008) continues to be assessed as Not Supporting and the prior Mercury in Fish Tissue impairment is being carried forward. MDPH included a site-specific advisory for Baker Pond in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent MDPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Baker Pond (MA96008) 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 Baker Pond (MA96008) 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 Baker Pond (MA96008) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Barnstable Harbor (MA96-01)

Location:	From the mouths of Scorton and Spring creeks, Barnstable east to an imaginary line drawn from Beach Point to the western edge of the Mill Creek estuary, Barnstable.
AU Type:	ESTUARY
AU Size:	3.2 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	36771	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	Marina/Boating Pumpout Releases (Y)	--	--	X	--	--	--
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	--	--	--
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Barnstable Harbor (MA96-01) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Barnstable Harbor (MA96-01): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 3.1898 sq mi (100%). The approved shellfish growing area represents 2.5864 sq mi (81%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
CCB31.0	Barnstable Harbor	Approved	2.58641	80.9%
CCB31.1	Wells Creek	Conditionally Approved	0.27181	8.5%
CCB31.2	Millway Beach Mooring Area	Conditionally Approved	0.14084	4.4%
CCB31.3	Bass Creek	Conditionally Approved	0.00114	0.0%
CCB31.4	The Cove	Conditionally Approved	0.11212	3.5%
CCB31.5	Barnstable Yacht Club Mooring Area	Conditionally Approved	0.03267	1.0%
CCB32.0	Inner Barnstable Harbor	Prohibited	0.00182	0.1%
CCB33.0	Barnstable Marshes	Conditionally Approved	0.04294	1.3%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Barnstable Harbor (MA96-01) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Barnstable Harbor (MA96-01) continues to be assessed as Fully Supporting based on MDPH Beach Closure data. Barnstable Harbor has two beaches with MDPH Beach Closure data: Barnstable Yacht Club [Beach ID: 5663] and Millway [Beach ID: 2626] beaches in Barnstable. Both the beaches were rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (3.1897 sq mi) in this AU are less than 100% approved (2.5864 sq mi, 81%). The shellfish classification data were too limited to assess Primary Contact Recreation Use for Barnstable Harbor.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
2626	Millway/ Barnstable	41.70916, -70.29740	41.70880, -70.29930	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
5663	Barnstable Yacht Club/ Barnstable	41.70940, -70.31450	41.70939, -70.31370	0%	0%	2%	0%	0%	0%	0%	0%	0%	0

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Barnstable Harbor (MA96-01): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 3.1898 sq mi (100%). The approved shellfish growing area represents 2.5864 sq mi (81%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Barnstable Harbor (MA96-01) continues to be assessed as Fully Supporting based on MDPH Beach Closure data. Barnstable Harbor has two beaches with MDPH Beach Closure data: Barnstable Yacht Club [Beach ID: 5663] and Millway [Beach ID: 2626] beaches in Barnstable. Both the beaches were rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (3.1897 sq mi) in this AU are less than 100% approved (2.5864 sq mi, 81%). The shellfish classification data were too limited to assess Primary Contact Recreation Use for Barnstable Harbor.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Barnstable Harbor (MA96-01): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 3.1898 sq mi (100%). The approved shellfish growing area represents 2.5864 sq mi (81%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Bass River (MA96-118)

Location:	"Grand Cove" portion of Bass River, north of Main Street (Route 28), Yarmouth.
AU Type:	ESTUARY
AU Size:	0.12 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	5	Fecal Coliform	--	Added
4a	5	Nitrogen, Total	68003	Unchanged
4a	5	Nutrient/Eutrophication Biological Indicators	68003	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	Golf Courses (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nutrient/Eutrophication Biological Indicators	Golf Courses (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Bass River (MA96-118) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Bass River (MA96-118): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1225 sq mi (99%). The approved shellfish growing area represents 0 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. As a result of the growing area classifications, a Fecal Coliform impairment is being added.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC34.1	Bass River Center	Conditionally Approved	0.12253	99.4%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Bass River (MA96-118) 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 the Bass River (MA96-118) so it is assessed as having Insufficient Information. The shellfish growing areas (0.1225 sq mi) in this AU are less than 100% approved (0 sq mi, 0%). The data were too limited to assess Primary Contact Recreation Use for Bass River based on shellfish classification data.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Bass River (MA96-118): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1225 sq mi (99%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
No bacteria data are available to assess the Secondary Contact Recreation Use for the Bass River (MA96-118) so it is assessed as having Insufficient Information. The shellfish growing areas (0.1225 sq mi) in this AU are less than 100% approved (0 sq mi, 0%). The data were too limited to assess Secondary Contact Recreation Use for Bass River based on shellfish classification data.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Bass River (MA96-118): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1225 sq mi (99%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Bass River (MA96-12)

Location:	Headwaters outlet Kelleys Bay, Route 6, Dennis/Yarmouth to mouth at inlet Nantucket Sound, Yarmouth (excluding Grand Cove, Dennis).
AU Type:	ESTUARY
AU Size:	0.69 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Estuarine Bioassessments	68003	Unchanged
4a	4a	Fecal Coliform	36771	Unchanged
4a	4a	Nitrogen, Total	68003	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Agriculture (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Golf Courses (Y)	X	--	--	--	--	--
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Wet Weather Discharges (Non-Point Source) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	Marina/Boating Pumpout Releases (Y)	--	--	X	--	--	--
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--
Nitrogen, Total	Agriculture (Y)	X	--	--	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	Golf Courses (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Wet Weather Discharges (Non-Point Source) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary

Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Bass River (MA96-12) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Bass River (MA96-12): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.6736 sq mi (98%). The approved shellfish growing area represents 0 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC33.1	Bass River South	Conditionally Approved	0.23140	33.7%
SC34.1	Bass River Center	Conditionally Approved	0.43564	63.4%
SC34.3	Nickerson Lane	Prohibited	0.00653	1.0%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Bass River (MA96-12) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for the Bass River (MA96-12) continues to be assessed as Fully Supporting based on MDPH Beach Closure data. MDPH Beach Closure data for Wilbur Park [Beach ID: 3239] beach in Yarmouth indicated that this beach was never posted for swimming from 2018-2022. The shellfish growing areas (0.6736 sq mi) in this AU are less than 100% approved (0 sq mi, 0%). The shellfish classification data were too limited to assess the Primary Contact Recreation Use for Bass River.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
3239	Wilbur Park/ Yarmouth	41.68444, -70.16050	41.68501, -70.16030	0%	0%	0%	0%	0%	0%	0%	0%	0%	0

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Bass River (MA96-12): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.6736 sq mi (98%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for the Bass River (MA96-12) continues to be assessed as Fully Supporting based on MDPH Beach Closure data. MDPH Beach Closure data for Wilbur Park [Beach ID: 3239] beach in Yarmouth indicated that this beach was never posted for swimming from 2018-2022. The shellfish growing areas (0.6736 sq mi) in this AU are less than 100% approved (0 sq mi, 0%). The shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Bass River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Bass River (MA96-12): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.6736 sq mi (98%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Bassing Harbor (MA96-48)

Location:	Excluding Crows Pond and Ryder Cove, Chatham.
AU Type:	ESTUARY
AU Size:	0.13 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO (also tributary to SA B Shellfishing ORW)

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

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Bassing Harbor (MA96-48) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
Bassing Harbor (MA96-48): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1298 sq mi (97%). The approved shellfish growing area represents 0.1298 sq mi (97%). The Shellfish Harvesting Use is assessed as Fully Supporting because the growing area (normalized to the AU area) is classified as 100% approved.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC53.0	Pleasant Bay	Approved	0.00008	0.1%
SC54.0	Bassing Harbor	Approved	0.12972	97.0%
SC55.0	Crows Pond	Approved	0.00002	0.0%
SC56.0	Ryder's Cove	Conditionally Approved	0.00000	0.0%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Bassing Harbor (MA96-48) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Bassing Harbor (MA96-48) continues to be assessed as Fully Supporting. The shellfish growing areas (0.1298 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Primary Contact Recreation Use of Bassing Harbor.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Bassing Harbor (MA96-48): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1298 sq mi (97%). The approved shellfish growing area represents 0.1298 sq mi (97%). The Primary Contact Recreational Use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Secondary Contact Recreation

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

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Bassing Harbor (MA96-48) continues to be assessed as Fully Supporting. The shellfish growing areas (0.1298 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Secondary Contact Recreation Use of Bassing Harbor.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Bassing Harbor (MA96-48): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1298 sq mi (97%). The approved shellfish growing area represents 0.1298 sq mi (97%). The Secondary Contact Recreational use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Bearse Pond (MA96012)

Location:	Barnstable.
AU Type:	FRESHWATER LAKE
AU Size:	64 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	(Fanwort*)	--	Unchanged
4a	4a	Mercury in Fish Tissue	42393	Unchanged

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

Recommendations

2024/26 Recommendations
2024/26IR [Harmful Algal Blooms, Medium] Follow-up monitoring should be conducted in Bearse Pond (MA96012) to determine if Harmful Algal Blooms may be impairing the Recreational and Aesthetic uses. C-HAB postings for Bearse Pond were reported to MDPH based on visual observations for 34 days in 2019 and 15 days in 2022. Monitoring should include observational data and collection of cyanobacteria cell count data, as well as continued reporting of algal blooms to MDPH. C-HAB postings for Bearse Pond were reported to MDPH based on visual observations for 34 days in 2019 and 15 days in 2022. This is of medium priority.

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Bearse Pond (MA96012) continues to be assessed as Not Supporting and the prior Mercury in Fish Tissue impairment is being carried forward. MDPH included a site-specific advisory for Bearse Pond in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent MDPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations.

Aesthetic

2024/26 Use Attainment	Alert
Insufficient Information	YES

2024/26 Use Attainment Summary
Too limited data are available to assess the Aesthetics Use for Bearse Pond (MA96012), so it is assessed as having Insufficient Information. However, an Alert is being identified for Harmful Algal Blooms in this waterbody since C-HAB postings (blooms of 15 more days in duration) were reported to MDPH for 2019 and 2022. During the period 2015 through 2022, C-HAB postings for Bearse Pond were reported to MDPH based on visual observations for 34 days in 2019 and 15 days in 2022 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 in this waterbody and a recommendation for follow-up sampling will be made.

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

C-HAB Summary Statement
During the period 2015 through 2022, C-HAB postings for Bearse Pond (MA96012) were reported to MDPH based on visual observations for 34 days in 2019 and 15 days in 2022. 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 2)

[* indicates a C-HAB posting of unknown duration]

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
Bearse Pond	Barnstable					34			15

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 Bearse Pond (MA96012) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information. However, an Alert is being identified for Harmful Algal Blooms in this waterbody since C-HAB postings (blooms of 15 more days in duration) were reported to MDPH for 2019 and 2022. During the period 2015 through 2022, C-HAB postings for Bearse Pond were reported to MDPH based on visual observations for 34 days in 2019 and 15 days in 2022. 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 Blooms 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 Bearse Pond (MA96012) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information. However, an Alert is being identified for Harmful Algal Blooms in this waterbody since C-HAB postings (blooms of 15 more days in duration) were reported to MDPH for 2019 and 2022. During the period 2015 through 2022, C-HAB postings for Bearse Pond were reported to MDPH based on visual observations for 34 days in 2019 and 15 days in 2022. 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 Blooms Alert is being identified for this waterbody and a recommendation for follow-up sampling will be made.

Black Pond (MA96017)

Location:	Brewster/Harwich.
AU Type:	FRESHWATER LAKE
AU Size:	9 ACRES
Classification/Qualifier:	B

No usable data were available for Black Pond (MA96017) 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	(Fish Passage Barrier*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--

Blackfish Creek (MA96-123)

Location:	Headwaters south of Lecount Hollow Road, Wellfleet to mouth at confluence with Wellfleet Harbor, Wellfleet (area within Cape Cod National Seashore designated ORW).
AU Type:	ESTUARY
AU Size:	0.01 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO ('ORW' applies only to portion in Cape Cod National Seashore)

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 Blackfish Creek (MA96-123) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

Blackfish Creek (MA96-123): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0045 sq mi (57%). The approved shellfish growing area represents 0.0045 sq mi (57%). The Shellfish Harvesting Use is assessed as Fully Supporting because the growing area (normalized to the AU area) is classified as 100% approved.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
CCB14.0	Loagy Bay, Drummer Cove & Blackfish Creek	Approved	0.00451	57.4%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Blackfish Creek (MA96-123) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Blackfish Creek (MA96-123) is assessed as Fully Supporting. The shellfish growing areas (0.0045 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Primary Contact Recreation Use of Blackfish Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Blackfish Creek (MA96-123): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0045 sq mi (57%). The approved shellfish growing area represents 0.0045 sq mi (57%). The Primary Contact Recreational Use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Blackfish Creek (MA96-123) is assessed as Fully Supporting. The shellfish growing areas (0.0045 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Secondary Contact Recreation Use of Blackfish Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Blackfish Creek (MA96-123): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0045 sq mi (57%). The approved shellfish growing area represents 0.0045 sq mi (57%). The Secondary Contact Recreational use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Boat Meadow River (MA96-15)

Location:	Headwaters east of old railway grade, Eastham to mouth at inlet Cape Cod Bay, Eastham.
AU Type:	ESTUARY
AU Size:	0.05 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Enterococcus	36772	Added
5	5	Estuarine Bioassessments	--	Unchanged
5	5	Fecal Coliform	36772	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Enterococcus	Source Unknown (N)	--	--	--	--	X	X
Estuarine Bioassessments	Source Unknown (N)	X	--	--	--	--	--
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert

Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Boat Meadow River (MA96-15) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
There is insufficient information available to delist the existing Fecal Coliform impairment for Boat Meadow River (MA96-15), so the Shellfish Harvesting Use will continue to be assessed as Not Supporting. The total of all shellfish growing area classifications (MassGIS, 2024) within Boat Meadow River is 0.0371 sq mi (75%). The approved shellfish growing area represents 0 sq mi (0%) and the prohibited shellfish growing area represents 0.0371 sq mi (75%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as entirely prohibited.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
CCB16.0	Boat Meadow River	Prohibited	0.03705	75.2%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Boat Meadow River (MA96-15) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for the Boat Meadow River (MA96-15) is assessed as Not Supporting, with an Enterococcus impairment being added due to bacteria data not meeting the threshold at one station in 2020.
Boat Meadow River has a beach with MDPH Beach Closure data: Boat Meadow [Beach ID: 2787] beach in Eastham. This beach was never posted for swimming from 2018-2022. The shellfish growing areas (0.0371 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data are too limited to assess the Primary Contact Recreation Use for Boat Meadow River. Center for Coastal Studies (CCS) staff/volunteers collected Enterococcus bacteria samples in the Boat Meadow River at station CCS_102 [Upper Boat Meadow River] from Apr-Oct 2020 (n=12). Analysis of the single year moderate frequency dataset from this station indicated 100% of intervals had GMs >35 CFU/100ml and 8 samples exceeded the 130 CFU/100ml STV (max 912 CFU), which is indicative of an Enterococcus impairment.

Monitoring Stations

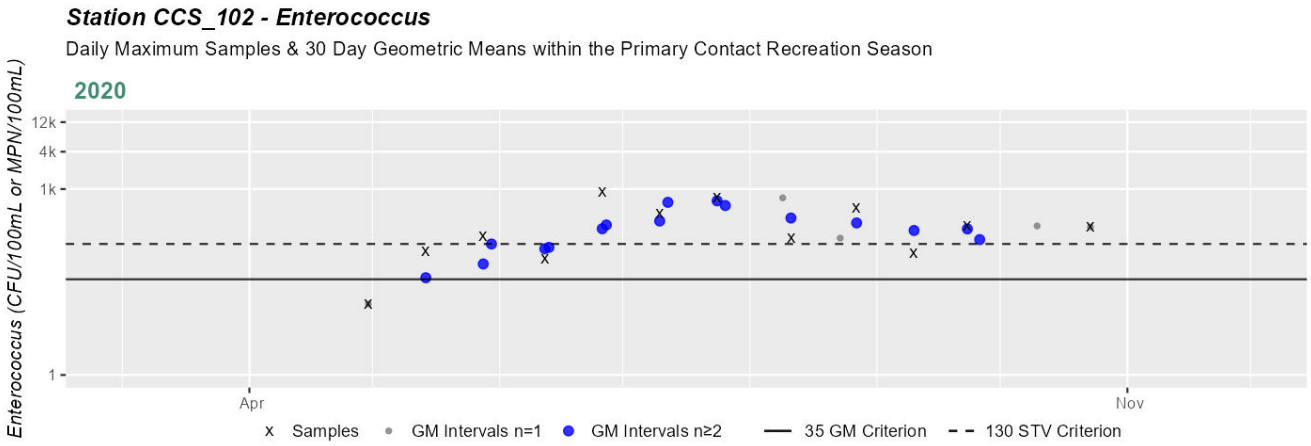
Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CCS_102	Center for Coastal Studies	Water Quality	Boat Meadow River	Upper Boat Meadow River	41.807300	-69.995500

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (30-day Interval Analysis) (CCS 2020) (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
CCS_102	Center for Coastal Studies	Enterococcus	04/29/20	10/22/20	12	14	912	189



Variable*	Result
Samples	12
SeasGM	189
#GMI	16
#GMI Ex	16
%GMI Ex	100%
n>STV	8
%n>STV	66%

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

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

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
2787	Boat Meadow/ Eastham	41.80652, -70.00280	41.80794, -70.00100	0%	0%	0%	0%	0%	0%	0%	0%	0%	0

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Boat Meadow River (MA96-15): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0371 sq mi (75%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for the Boat Meadow River (MA96-15) is assessed as Not Supporting, with an Enterococcus impairment being added due to a re-evaluation of bacteria data not meeting the threshold at one station in 2020. Boat Meadow River has a beach with MDPH Beach Closure data: Boat Meadow [Beach ID: 2787] beach in Eastham. This beach was never posted for swimming from 2018-2022. The shellfish growing areas (0.0371 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data are too limited to assess the Secondary Contact Recreation Use for Boat Meadow River. Center for Coastal Studies (CCS) staff/volunteers collected Enterococcus bacteria samples in the Boat Meadow River at station CCS_102 [Upper Boat Meadow River] from Apr-Oct 2020 (n=12). Analysis of the single year moderate frequency dataset from this station indicated 88% of intervals had GMs >68 CFU/100ml and 5 samples exceeded the 252 CFU/100ml STV (max 912 CFU), which is indicative of an Enterococcus impairment.

Monitoring Stations

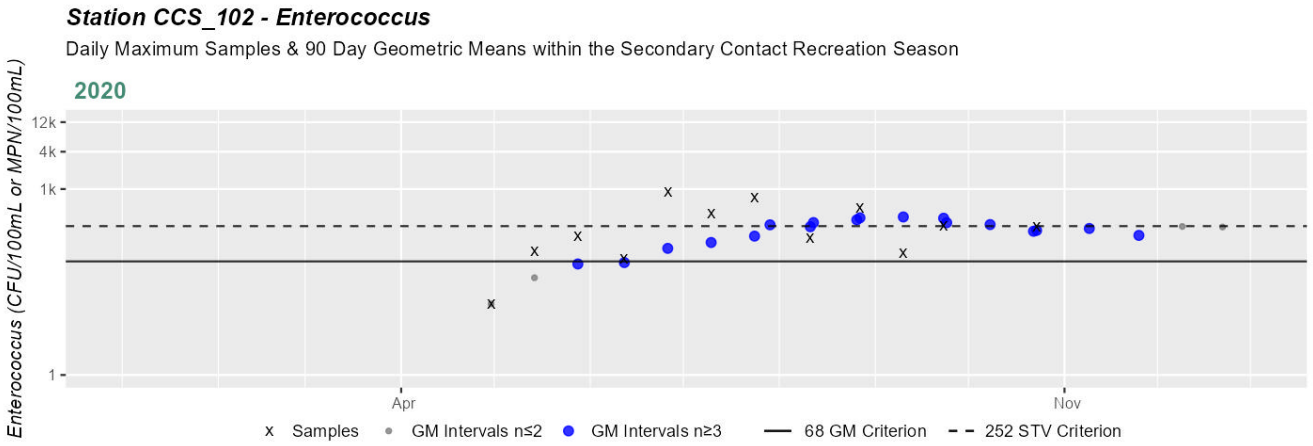
Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CCS_102	Center for Coastal Studies	Water Quality	Boat Meadow River	Upper Boat Meadow River	41.807300	-69.995500

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis) (CCS 2020) (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
CCS_102	Center for Coastal Studies	Enterococci	04/29/20	10/22/20	12	14	912	189



Variable*	Result
Samples	12
SeasGM	189
#GMI	18
#GMI Ex	16
%GMI Ex	88%
n>STV	5
%n>STV	41%

Cumulative %GMI Exceedance
Current (2011-2022)
88%

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

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Boat Meadow River (MA96-15): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0371 sq mi (75%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Bog Pond (MA96024)

Location:	Falmouth.
AU Type:	FRESHWATER LAKE
AU Size:	3 ACRES
Classification/Qualifier:	B: ORW, WWF (also tributary to SA* SFO ORW)

No usable data were available for Bog Pond (MA96024) 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

Bourne Pond (MA96026)

Location:	Falmouth.
AU Type:	FRESHWATER LAKE
AU Size:	9 ACRES
Classification/Qualifier:	B: ORW, WWF (also tributary to SA* SFO ORW)

No usable data were available for Bourne Pond (MA96026) 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

Bournes Pond (MA96-57)

Location:	west of Central Avenue, Falmouth outlet to Vineyard Sound, including Israels Cove, Falmouth.
AU Type:	ESTUARY
AU Size:	0.24 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Estuarine Bioassessments	32638, 32535	Unchanged
4a	4a	Fecal Coliform	36772	Unchanged
4a	4a	Nitrogen, Total	32638, 32535	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Agriculture (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Golf Courses (Y)	X	--	--	--	--	--
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Nitrogen, Total	Agriculture (Y)	X	--	--	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	Golf Courses (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Bournes Pond (MA96-57) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

Bournes Pond (MA96-57): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.2242 sq mi (95%). The approved shellfish growing area represents 0.1957 sq mi (83%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC13.0	Bournes Pond	Approved	0.19562	82.6%
SC13.1	Bournes Pond North	Conditionally Approved	0.02852	12.0%
SC8.0	East Falmouth Coastal	Approved	0.00008	0.0%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Bournes Pond (MA96-57) 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 Bournes Pond (MA96-57) so it is assessed as having Insufficient Information. The shellfish growing areas (0.2242 sq mi) in this AU are less than 100% approved (0.1957 sq mi, 83%), which means that the shellfish classification data are too limited to assess the Primary Contact Recreation Use for Bournes Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Bournes Pond (MA96-57): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.2242 sq mi (95%). The approved shellfish growing area represents 0.1957 sq mi (83%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Bournes Pond (MA96-57) so it is assessed as having Insufficient Information. The shellfish growing areas (0.2242 sq mi) in this AU are less than 100% approved (0.1957 sq mi, 83%), which means that the shellfish classification data are too limited to assess the Secondary Contact Recreation Use for Bournes Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Bournes Pond (MA96-57): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.2242 sq mi (95%). The approved shellfish growing area represents 0.1957 sq mi (83%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Bucks Creek (MA96-44)

Location:	Outlet Harding Beach Pond (locally known as Sulfur Springs), Chatham to mouth at inlet Cockle Cove, Nantucket Sound, Chatham.
AU Type:	ESTUARY
AU Size:	0.02 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Enterococcus	--	Removed
4a	4a	Fecal Coliform	36772	Unchanged
4a	4a	Nitrogen, Total	36230	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--
Nitrogen, Total	Agriculture (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Supporting Information for Removed Impairments

2022 Removed Impairment	Removal Reason	Removal Comment
Enterococcus	Applicable WQS attained; based on new data	The Enterococcus impairment for Bucks Creek was originally listed in the 2012 reporting cycle. This impairment was based on MDPH Beach Closure data at Bucks Creek beach in Chatham (Beach ID: 2706), which indicated that the majority (73%) of the 2006 swimming season was posted for swimming. This impairment was continued through the 2016 IR Cycle when Bucks Creek Beach was posted for >10% of the swimming season in 2008, 2009, 2012 & 2013. More recently MDPH Beach Closure data for Bucks Creek beach indicated that this beach was rarely posted for swimming from 2018-2022, with a maximum of 9% of the bathing season posted in 2021. Given this improvement in the number of annual MDPH beach postings at Bucks Creek Beach, the Primary Contact Recreation Use should be delisted for Enterococcus.

Enterococcus

Excerpt from 2004-2008 water quality assessment report (MassDEP 2011); this data was used to impair Bucks Creek for Enterococcus in 2012.

Primary and Secondary Contact Recreational and Aesthetics Uses
There is one public beach, Bucks Creek Beach that runs along the shoreline of Bucks Creek. Frequent testing for Enterococci bacteria during the swimming season was conducted at Bucks Creek Beach from 2003 – 2007 (MA DPH 2009a). Bucks Creek Beach was reportedly posted for two days in 2004 and 2007 but was posted for the majority (73%) of the 2006 swimming season. No postings were reported for Bucks Creek Beach in 2003 or 2005 swimming seasons.

The *Primary Contact Recreational* use is assessed as impaired for Bucks Creek based primarily on the frequency of beach closures at Bucks Creek Beach in Chatham. Elevated Enterococci bacteria levels are also problematic in Cockle Cove Creek, a tributary to Bucks Creek. The *Secondary Contact Recreational* and *Aesthetics Uses* in Bucks Creek are not assessed due to the absence of data.

Data used to continue impairment for Enterococcus in the 2016 IR Cycle (MassDEP Undated 8):

Beach Postings

MA DPH Beach Posting Data (2005-2013)

Id	Name	Town	2005	2006	2007	2008	2009	2010	2011	2012	2013	Beach Decision
2706	Bucks Creek	Chatham	0%	77%	2%	15%	150%	4%	0%	19%	20%	Impair

Location of Bucks Creek Beach (Beach ID: 2706) showing the placement of the beach bordering both the Bucks Creek AU (MA96-44) and the Cockle Cove Creek AU (MA96-79). (MassGIS 2005)



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 Bucks Creek (MA96-44) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Bucks Creek (MA96-44): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0125 sq mi (71%). The approved shellfish growing area represents 0.0005 sq mi (3%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC42.0	Chatham South Coastal	Approved	0.00054	3.1%
SC46.0	Bucks Creek	Conditionally Approved	0.01198	67.9%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Bucks Creek (MA96-44) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Bucks Creek (MA96-44) is assessed as Fully Supporting. The prior Enterococcus impairment is being delisted since MDPH Beach Closure data indicates that Bucks Creek beach was annually posted for less than 10% of the bathing season from 2014-2022 (See removal comment in "supporting information for removed impairments" table above). MDPH Beach Closure data for Bucks Creek [Beach ID: 2706] beach in Chatham, indicated that this beach was rarely posted for swimming from 2018-2022, with a maximum of 9% of the bathing season posted in 2021. The shellfish growing areas (0.0125 sq mi) in this AU are less than 100% approved (0.0005 sq mi, 3%), which means that the shellfish classification data are too limited to assess the Primary Contact Recreation Use for Bucks Creek.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
2706	Bucks Creek/ Chatham	41.67262, -70.00650	41.67156, -70.00400	6%	8%	6%	0%	0%	0%	6%	9%	2%	0

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Bucks Creek (MA96-44): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0125 sq mi (71%). The approved shellfish growing area represents 0.0005 sq mi (3%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Bucks Creek (MA96-44) is assessed as Fully Supporting. MDPH Beach Closure data for Bucks Creek [Beach ID: 2706] beach in Chatham indicated that this beach was rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (0.0125 sq mi) in this AU are less than 100% approved (0.0005 sq mi, 3%), which means that the shellfish classification data are too limited to assess Secondary Contact Recreation Use for Bucks Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Bucks Creek (MA96-44): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0125 sq mi (71%). The approved shellfish growing area represents 0.0005 sq mi (3%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Bumps River (MA96-02)

Location:	From pond outlet, Bumps River Road, Barnstable through Scudder Bay to mouth at Main Street/South Main Street bridge (confluence with Centerville River), Barnstable.
AU Type:	ESTUARY
AU Size:	0.07 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	36771	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	Marina/Boating Pumpout Releases (Y)	--	--	X	--	--	--
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Bumps River (MA96-02) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Bumps River (MA96-02): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0652 sq mi (92%). The approved shellfish growing area represents 0 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC24.1	Lower Centerville River	Restricted	0.00008	0.1%
SC25.0	Bump's River	Prohibited	0.06187	87.7%
SC25.2	Mouth of Bump's River	Restricted	0.00330	4.7%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Bumps River (MA96-02) 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 the Bumps River (MA96-02) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0652 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that the shellfish classification data are too limited to assess Primary Contact Recreation Use for Bumps River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Bumps River (MA96-02): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0652 sq mi (92%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
No bacteria data are available to assess the Secondary Contact Recreation Use for the Bumps River (MA96-02) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0652 sq mi) in this AU are less than 100% approved (0 sq mi, 0%) which means that the shellfish classification data are too limited to assess the Secondary Contact Recreation Use for Bumps River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Bumps River (MA96-02): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0652 sq mi (92%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Cedar Pond (MA96-88)

Location:	Orleans (in Inner Cape Cod Bay ACEC).
AU Type:	ESTUARY
AU Size:	0.03 SQUARE MILES
Classification/Qualifier:	SA: ORW

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Fish Passage Barrier*)	--	Unchanged
5	5	Chlorophyll-a	--	Unchanged
5	5	Dissolved Oxygen	--	Unchanged
5	5	Dissolved Oxygen Supersaturation	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
(Fish Passage Barrier*)	Habitat Modification - other than Hydromodification (Y)	X	--	--	--	--	--
Chlorophyll-a	Source Unknown (N)	X	--	--	--	--	--
Dissolved Oxygen	Source Unknown (N)	X	--	--	--	--	--
Dissolved Oxygen Supersaturation	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 Cedar Pond (MA96-88) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Cedar Pond (MA96-88): There are no shellfish growing area classifications within this AU, therefore the Shellfish Harvesting Use is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Cedar Pond (MA96-88) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Cedar Pond (MA96-88) is assessed as Fully Supporting based on bacteria data collected at one station in 2020. Center for Coastal Studies (CCS) staff/volunteers collected Enterococcus bacteria samples in Cedar Pond at station CCS_CP [Cedar Pond] from Apr-Oct 2020 (n=10). Analysis of the single year moderate frequency dataset from this station indicated 57% of intervals had GMs >35 CFU/100ml and no samples exceeded the 130 CFU/100ml STV, which meets 2024 CALM guidance.

Monitoring Stations

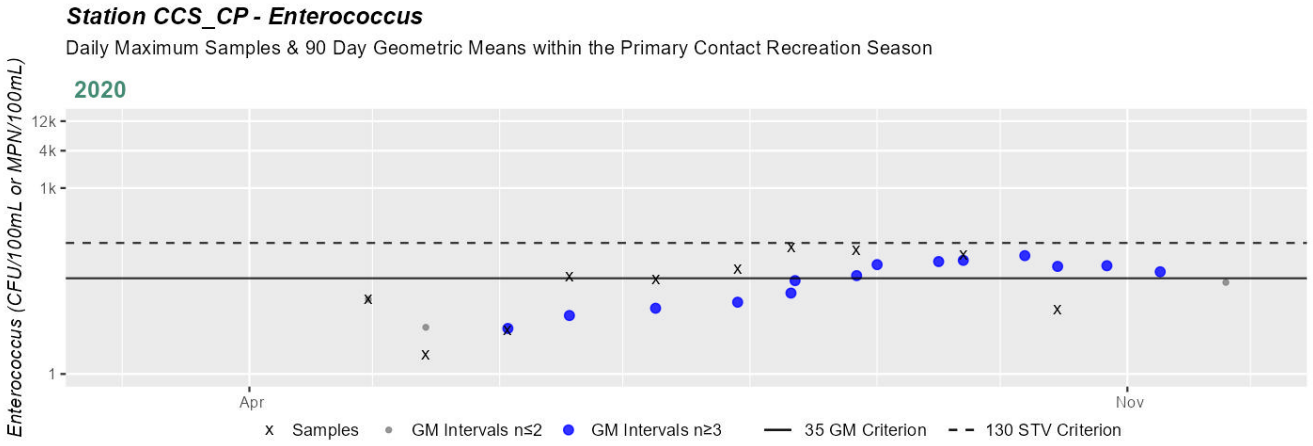
Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CCS_CP	Center for Coastal Studies	Water Quality	Cedar Pond	Cedar Pond	41.794983	-69.991583

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (CCS 2020) (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
CCS_CP	Center for Coastal Studies	Enterococci	04/29/20	10/14/20	10	2	110	25



Variable*	Result
Samples	10
SeasGM	25
#GMI	14
#GMI Ex	8
%GMI Ex	57%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
57%

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

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Cedar Pond (MA96-88): There are no shellfish growing area classifications within this AU, therefore the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Cedar Pond (MA96-88) is assessed as Fully Supporting based on a re-evaluation of bacteria data collected at one station in 2020. Center for Coastal Studies (CCS) staff/volunteers collected Enterococcus bacteria samples in Cedar Pond at station CCS_CP [Cedar Pond] from Apr-Oct 2020 (n=10). Analysis of the single year moderate frequency dataset from this station indicated 14% of intervals had GMs >68 CFU/100ml and no samples exceeded the 252 CFU/100ml STV, which meets 2024 CALM guidance.

Monitoring Stations

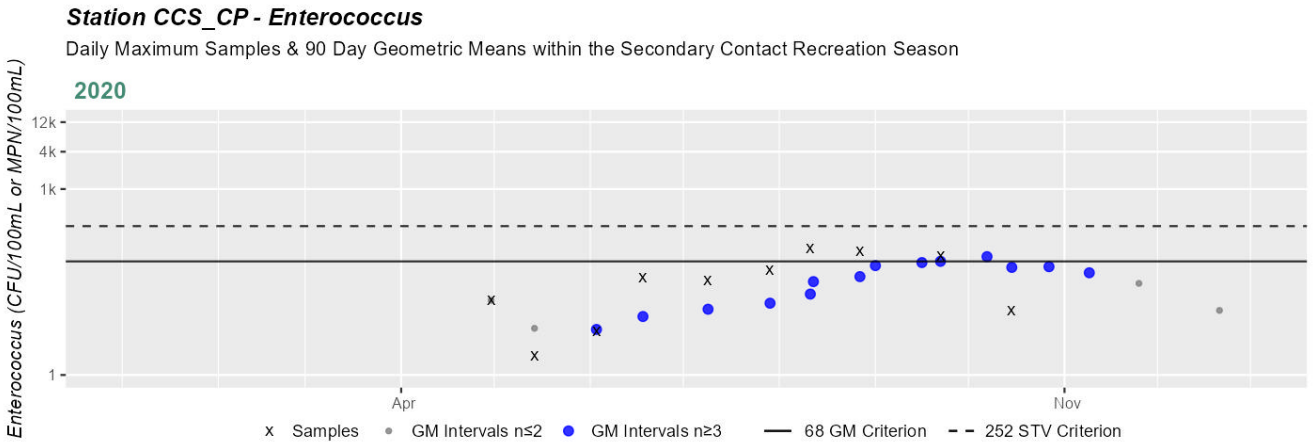
Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CCS_CP	Center for Coastal Studies	Water Quality	Cedar Pond	Cedar Pond	41.794983	-69.991583

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis) (CCS 2020) (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
CCS_CP	Center for Coastal Studies	Enterococci	04/29/20	10/14/20	10	2	110	25



Variable*	Result
Samples	10
SeasGM	25
#GMI	14
#GMI Ex	2
%GMI Ex	14%
n>STV	0
%n>STV	0%

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

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

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Cedar Pond (MA96-88): There are no shellfish growing area classifications within this AU, therefore the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Centerville Harbor (MA96-03)

Location:	From an imaginary line that extends from Dowses Beach, Barnstable to Hyannis Point, Barnstable including all waters north to the shore, Barnstable.
AU Type:	ESTUARY
AU Size:	1.46 SQUARE MILES
Classification/Qualifier:	SA: SFO

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

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Agriculture (N)	X	--	--	--	--	--
Estuarine Bioassessments	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	X	--	--	--	--	--
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (N)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (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 Centerville Harbor (MA96-03) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
Centerville Harbor (MA96-03): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 1.4244 sq mi (97%). The approved shellfish growing area represents 1.4244 sq mi (97%). The Shellfish Harvesting Use is assessed as Fully Supporting because the growing area (normalized to the AU area) is classified as 100% approved.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC18.0	Barnstable South Coastal	Approved	1.42437	97.3%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Centerville Harbor (MA96-03) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Centerville Harbor (MA96-03) continues to be assessed as Fully Supporting based on MDPH Beach Closure data and MassDFG shellfish growing area classification data. Centerville Harbor has 3 beaches with MDPH Beach Closure data: Covell's [Beach ID: 2629], Craigville [Beach ID: 2619] and Craigville Club [Beach ID: 2611] beaches in Barnstable. All the beaches were never posted for swimming from 2018-2022. In addition the shellfish growing areas (1.4244 sq mi) in this AU are 100% approved which is also indicative of Fully Supporting conditions for the Primary Contact Recreation Use.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
2611	Craigville Beach Club/ Barnstable	41.63629, -70.34350	41.63637, -70.34240	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
2619	Craigville/ Barnstable	41.63637, -70.34240	41.63567, -70.33580	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
2629	Covell's/ Barnstable	41.63561, -70.33500	41.63516, -70.33280	0%	0%	0%	0%	0%	0%	0%	0%	0%	0

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Centerville Harbor (MA96-03): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 1.4244 sq mi (97%). The approved shellfish growing area represents 1.4244 sq mi (97%). The Primary Contact Recreational Use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Centerville Harbor (MA96-03) continues to be assessed as Fully Supporting based on MDPH Beach Closure data and MassDFG shellfish growing area classification data. Centerville Harbor has 3 beaches with MDPH Beach Closure data: Covell's [Beach ID: 2629], Craigville [Beach ID: 2619] and Craigville Club [Beach ID: 2611] beaches in Barnstable. All the beaches were never posted for swimming from 2018-2022. In addition the shellfish growing areas (1.4244 sq mi) in this AU are 100% approved which is indicative of Fully Supporting conditions for the Secondary Contact Recreation Use.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Centerville Harbor (MA96-03): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 1.4244 sq mi (97%). The approved shellfish growing area represents 1.4244 sq mi (97%). The Secondary Contact Recreational use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Centerville River (MA96-04)

Location:	From approximately 300 feet west of Elliot Road, Barnstable to inlet Centerville Harbor, including East Bay, Barnstable.
AU Type:	ESTUARY
AU Size:	0.24 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Estuarine Bioassessments	33858	Unchanged
4a	4a	Fecal Coliform	36771	Unchanged
4a	4a	Nitrogen, Total	33858	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Agriculture (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Marina/Boating Pumpout Releases (Y)	--	--	X	--	--	--
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	--	--	--
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--
Nitrogen, Total	Agriculture (Y)	X	--	--	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Centerville River (MA96-04) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert

Not Supporting	NO

2024/26 Use Attainment Summary
Centerville River (MA96-04): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.2181 sq mi (93%). The approved shellfish growing area represents 0.0021 sq mi (1%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC18.0	Barnstable South Coastal	Approved	0.00215	0.9%
SC24.0	East Bay	Conditionally Approved	0.12549	53.3%
SC24.1	Lower Centerville River	Restricted	0.04289	18.2%
SC24.2	Upper Centerville River	Prohibited	0.04620	19.6%
SC24.3	Phinney's Bay	Prohibited	0.00126	0.5%
SC24.6	Unnamed Stream	Prohibited	0.00009	0.0%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Centerville River (MA96-04) 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 the Centerville River (MA96-04) so it is assessed as having Insufficient Information. The shellfish growing areas (0.2181 sq mi) in this AU are less than 100% approved (0.0021 sq mi, 1%). Which means the shellfish classification data were too limited to assess the Primary Contact Recreation Use for Centerville River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Centerville River (MA96-04): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.2181 sq mi (93%). The approved shellfish growing area represents 0.0021 sq mi (1%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
No bacteria data are available to assess the Secondary Contact Recreation Use for the Centerville River (MA96-04) so it is assessed as having Insufficient Information. The shellfish growing areas (0.2181 sq mi) in this AU are less than 100% approved (0.0021 sq mi, 1%). Which means the shellfish classification data were too limited to assess Secondary Contact Recreation Use for Centerville River

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Centerville River (MA96-04): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.2181 sq mi (93%). The approved shellfish growing area represents 0.0021 sq mi (1%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Chase Garden Creek (MA96-103)

Location:	Headwaters south of Roads End and west of Jericho Road, Dennis to confluence with tidal portion north of New Boston Road, Dennis.
AU Type:	RIVER
AU Size:	1.1 MILES
Classification/Qualifier:	B

Chase Garden Creek (MA96-103)

Watershed Area: 0.78 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	0.78	0.78	0.27	0.27
Agriculture	3%	3%	7.3%	7.3%
Developed	30.5%	30.5%	24.2%	24.2%
Natural	56.7%	56.7%	44.1%	44.1%
Wetland	9.8%	9.8%	24.5%	24.5%
Impervious	17.4%	17.4%	13%	13%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	4a	(Curly-leaf Pondweed*)	--	Unchanged
5	4a	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Curly-leaf Pondweed*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
Escherichia Coli (E. Coli)	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	--	--	--	X	X

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

Supporting Information for Removed Impairments

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

Recommendations

2024/26 Recommendations
2024/2026 IR [Phosphorus, Medium] Additional monitoring should be performed on Chase Garden Creek (MA96-104) to confirm high total phosphorus that was observed by MassDEP in 2009 at Beach Street, Dennis. {W1923}

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 Chase Garden Creek (MA96-103) 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 Chase Garden Creek (MA96-103), so it is Not Assessed. The prior Alert identified for High Total Phosphorus concentrations based on 2009 data collected by MassDEP (MassDEP Undated 8) is 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 Chase Garden Creek (MA96-103) 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. The prior Alert for Total Phosphorus is being removed from the Primary Contact Recreation Use but continues to 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 Chase Garden Creek (MA96-103) 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 one station in 2009. MassDEP staff collected *E. coli* bacteria samples in Chase Garden Creek at W1923 [Beach St, Dennis] from May-Oct 2009 (n=6). Analysis of the historic single year limited frequency dataset from this station indicated 85% of intervals had GMs >244 CFU/100ml, 2 samples exceeded the 794 CFU/100ml STV (maximum 1,500 CFU), and the overall GM was 329 CFU/100ml. Historic *E. coli* data from station W1923 are indicative of an impairment. The prior Alert for Total Phosphorus is being removed from the Secondary Contact Recreation Use but continues to be maintained under the Aesthetics Use.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1923	MassDEP	Water Quality	Chase Garden Creek	[Beach Street, Dennis]	41.736338	-70.200558

Bacteria Data

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

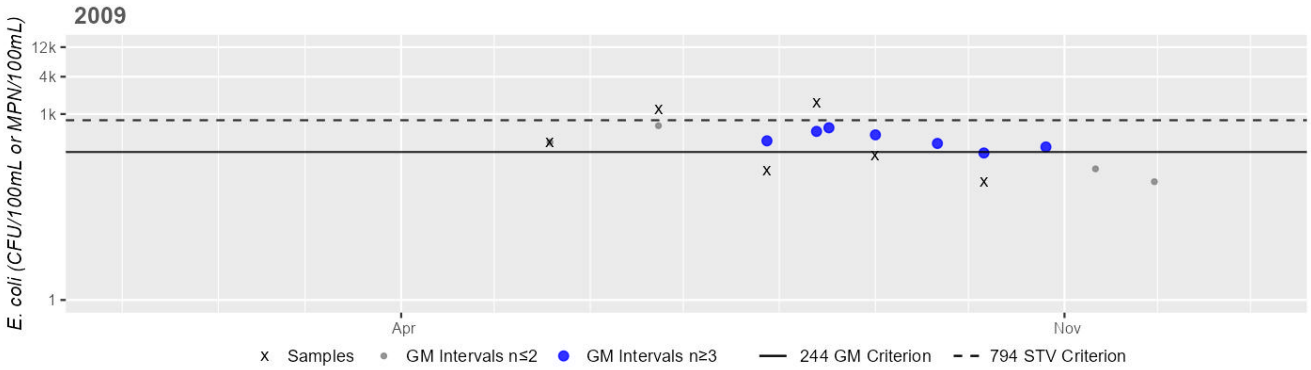
(MassDEP Undated 9) (MassDEP Undated 4)

[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
W1923	MassDEP	E. coli	05/19/09	10/06/09	6	81	1500	329

Station MASSDEP_W1923 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	329
#GMI	7
#GMI Ex	6
%GMI Ex	85%
n>STV	2
%n>STV	33%

Cumulative %GMI Exceedance
Historic (1997-2010)
85%

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

Chase Garden Creek (MA96-35)

Location:	From freshwater portion north of New Boston Road, Dennis to mouth at inlet Cape Cod Bay, Dennis/Yarmouth.
AU Type:	ESTUARY
AU Size:	0.13 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	36771	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Upstream Source (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Chase Garden Creek (MA96-35) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Chase Garden Creek (MA96-35): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1194 sq mi (90%). The approved shellfish growing area represents 0.0144 sq mi (11%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
CCB23.0	Dennis North Coastal	Approved	0.01142	8.6%
CCB26.1	Yarmouth North Coastal	Approved	0.00300	2.2%
CCB27.0	Chase Garden Creek	Conditionally Approved	0.06334	47.5%
CCB27.1	Chase Garden Creek South	Prohibited	0.04164	31.2%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Chase Garden Creek (MA96-35) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Chase Garden Creek (MA96-35) continues to be assessed as Fully Supporting based on MDPH Beach Closure data. MDPH Beach Closure data for Gray's Beach [Beach ID: 3231] in Yarmouth, indicated that this beach was never posted for swimming from 2018-2022. The shellfish growing areas (0.1194 sq mi) in this AU are less than 100% approved (0.0144 sq mi, 11%), which means that the shellfish classification data are too limited to assess the Primary Contact Recreation Use for Chase Garden Creek.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
3231	Gray's Beach/ Yarmouth	41.72305, -70.23570	41.72343, -70.23450	0%	0%	0%	0%	0%	0%	0%	0%	0%	0

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Chase Garden Creek (MA96-35): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1194 sq mi (90%). The approved shellfish growing area represents 0.0144 sq mi (11%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Chase Garden Creek (MA96-35) continues to be assessed as Fully Supporting. MDPH Beach Closure data for Gray's Beach [Beach ID: 3231] in Yarmouth indicated that this beach was never posted for swimming from 2018-2022. The shellfish growing areas (0.1194 sq mi) in this AU are less than 100% approved (0.0144 sq mi, 11%), which means that the shellfish classification data are too limited to assess Secondary Contact Recreation Use for Chase Garden Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Chase Garden Creek (MA96-35): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1194 sq mi (90%). The approved shellfish growing area represents 0.0144 sq mi (11%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Chatham Harbor (MA96-10)

Location:	Harbor, bounded on east by Cape Cod National Seashore (CCNS), with northern extent as an imaginary line drawn northeast from northern tip of Strong Island to a point on inner CCNS and western extent as an imaginary line drawn from southern tip of Strong Island south to Allen Point including waters south to an imaginary line along northern edge of South Beach Bar extending from Chatham Lighthouse to inlet created by 1987 storm, Chatham (area within CCNS designated as ORW).
AU Type:	ESTUARY
AU Size:	2.85 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO ('ORW' applies only to portion in Cape Cod National Seashore)

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 Chatham Harbor (MA96-10) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
Chatham Harbor (MA96-10): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 2.5251 sq mi (89%). The approved shellfish growing area represents 2.5251 sq mi (89%). The Shellfish Harvesting Use is assessed as Fully Supporting because the growing area (normalized to the AU area) is classified as 100% approved.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
OC1.0		Approved	0.05424	1.9%
SC52N.0	Chatham Harbor North	Approved	2.46379	86.6%
SC53.0	Pleasant Bay	Approved	0.00000	0.0%
SC61.0	Little Pleasant Bay	Approved	0.00710	0.2%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Chatham Harbor (MA96-10) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Chatham Harbor (MA96-10) continues to be assessed as Fully Supporting based on MDPH Beach Closure data and MassDFG shellfish growing area classifications. Chatham Harbor has 4 beaches with MDPH Beach Closure data: Andrew Harding Lane Beach [Beach ID: 5382], Chatham Bars Inn [Beach ID: 2714], Hawthorne Motel [Beach ID: 2702] and Lighthouse [Beach ID: 2705], all beaches in Chatham. All the beaches were never posted for swimming from 2018-2022. In addition, the shellfish growing areas (2.5251 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Primary Contact Recreation Use of Chatham Harbor.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
2702	Hawthorne Motel/ Chatham	41.68298, -69.94950	41.68253, -69.94940	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
2705	Lighthouse/ Chatham	41.67191, -69.94830	41.66993, -69.94890	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
2714	Chatham Bars Inn/ Chatham	41.68765, -69.95100	41.68502, -69.95050	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
5382	Andrew Harding Lane Beach/ Chatham	41.67490, -69.94760	41.67580, -69.94690	0%	0%	0%	0%	0%	0%	0%	0%	0%	0

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Chatham Harbor (MA96-10): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 2.5251 sq mi (89%). The approved shellfish growing area represents 2.5251 sq mi (89%). The Primary Contact Recreational Use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Chatham Harbor (MA96-10) continues to be assessed as Fully Supporting based on MDPH Beach Closure data and MassDFG shellfish growing area classifications. Chatham Harbor has 4 beaches with MDPH Beach Closure data: Andrew Harding Lane Beach [Beach ID: 5382], Chatham Bars Inn [Beach ID: 2714], Hawthorne Motel [Beach ID: 2702] and Lighthouse [Beach ID: 2705], all beaches in Chatham. All the beaches were never posted for swimming from 2018-2022. In addition, the shellfish growing areas (2.5251 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Secondary Contact Recreation Use of Chatham Harbor.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Chatham Harbor (MA96-10): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 2.5251 sq mi (89%). The approved shellfish growing area represents 2.5251 sq mi (89%). The Secondary Contact Recreational use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Childs River (MA96-120)

Location:	From confluence with fresh water portion south of Barrows Road, Falmouth to mouth at confluence with Seapit River, Falmouth (area within Waquoit Bay ACEC designated as ORW).
AU Type:	ESTUARY
AU Size:	0.06 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO (also tributary to Waquoit Bay SA B Shellfishing ORW)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	5	Fecal Coliform	--	Added
4a	5	Nitrogen, Total	R1_MA_2020_08	Unchanged
4a	5	Nutrient/Eutrophication Biological Indicators	R1_MA_2020_08	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Rural (Residential Areas) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nutrient/Eutrophication Biological Indicators	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Rural (Residential Areas) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Childs River (MA96-120) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Childs River (MA96-120): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0529 sq mi (96%). The approved shellfish growing area represents 0 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. As a result of the growing area classifications, a Fecal Coliform impairment is being added.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC14.5	Child's River	Prohibited	0.05113	92.7%
SC14.7	Mouth of Child's River	Conditionally Approved	0.00177	3.2%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Childs River (MA96-120) 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 the Childs River (MA96-120) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0529 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that the shellfish classification data were too limited to assess Primary Contact Recreation Use for Childs River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Childs River (MA96-120): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0529 sq mi (96%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary

No bacteria data are available to assess the Secondary Contact Recreation Use for the Childs River (MA96-120) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0529 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that the shellfish classification data were too limited to assess Secondary Contact Recreation Use for Childs River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

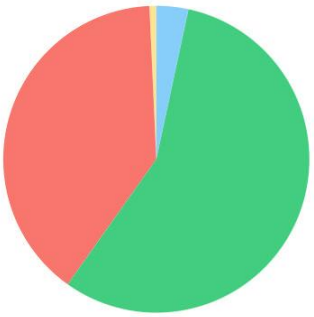
Summary
Childs River (MA96-120): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0529 sq mi (96%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Childs River (MA96-98)

Location:	Headwaters outlet Johns Pond, Mashpee to confluence with tidal portion south of Barrows Road, Falmouth.
AU Type:	RIVER
AU Size:	2.4 MILES
Classification/Qualifier:	B: ORW

Childs River (MA96-98)

Watershed Area: 8.28 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	8.28	3.18	2.23	1.27
Agriculture	0.7%	1.8%	1.2%	2%
Developed	39.4%	27.5%	10.9%	14.1%
Natural	56.5%	64.4%	78.4%	72.6%
Wetland	3.4%	6.3%	9.5%	11.2%
Impervious	14.3%	13.4%	5.7%	7.6%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Curly-leaf Pondweed*)	--	Unchanged
5	5	(Fish Passage Barrier*)	--	Unchanged
5	5	Lead	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Curly-leaf Pondweed*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--
Lead	Source Unknown (N)	X	--	--	--	--

Recommendations

2024/26 Recommendations
2024/26IR [Aesthetics, Low] Additional aesthetics observations should be collected for Childs River (MA96-98) in Falmouth at Carriage Shop Rd {W1908} and Barrow Road {W2071} to confirm if dense aquatic plants are impairing the aesthetics use. Previously during the summer of 2009 an infestation of the non-native aquatic macrophyte, Potamogeton crispus (curly leaf pondweed) was noted at one or both of these locations.

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 Childs River (MA96-98) 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 Childs River (MA96-98), so it is Not Assessed. The prior Alert identified for Very Dense Macrophytes (in the “pond culvert” area at Carriage Shop Road, Falmouth (W1908) in 2009) 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 Childs River (MA96-98) are available, so the Primary Contact Recreation Use is Not Assessed. The prior Alert for dense macrophytes is being removed from the Primary Contact Recreation Use but continues to be maintained under the Aesthetics Use.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for the Childs River (MA96-98) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. The prior Alert for dense macrophytes is being removed from the Secondary Contact Recreation Use but continues to be maintained under the Aesthetics Use. MassDEP staff collected *E. coli* bacteria samples in the Childs River (MA96-98) at station W1908 [Carriage Shop Rd, Falmouth] from May-Oct 2009 (n=6). Analysis of the historic single year limited frequency dataset from this station indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 65 CFU/100ml, which meets 2024 CALM guidance. However, 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
W1908	MassDEP	Water Quality	Childs River	[Carriage Shop Road, Falmouth]	41.593138	-70.524925

Bacteria Data

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

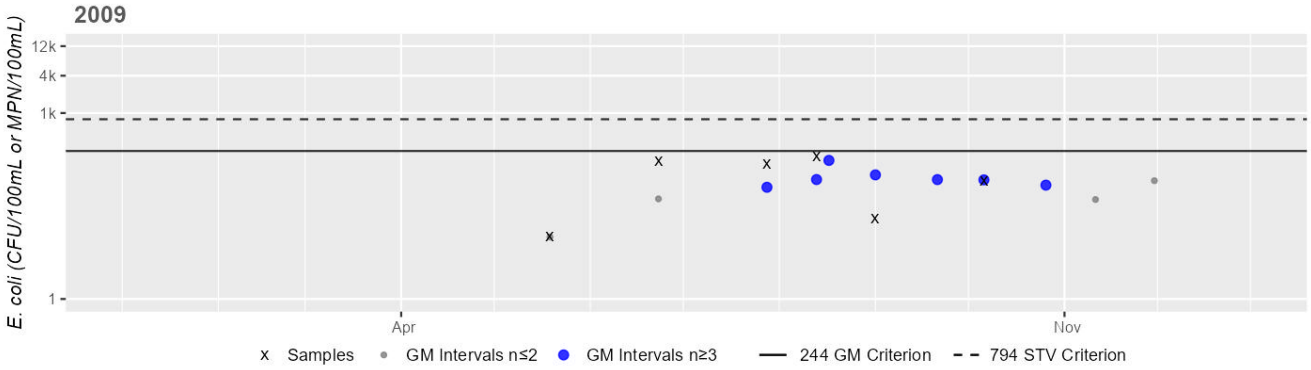
(MassDEP Undated 9) (MassDEP Undated 4)

[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
W1908	MassDEP	E. coli	05/19/09	10/06/09	6	10	200	65

Station MASSDEP_W1908 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	65
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Clapps Pond (MA96035)

Location:	Provincetown (area associated with Cape Cod National Seashore designated as ORW).
AU Type:	FRESHWATER LAKE
AU Size:	40 ACRES
Classification/Qualifier:	B: ORW ('ORW' applies only to portion in Cape Cod National Seashore)

No usable data were available for Clapps Pond (MA96035) 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

Cliff Pond (MA96039)

Location:	Brewster.
AU Type:	FRESHWATER LAKE
AU Size:	190 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Harmful Algal Blooms	--	Unchanged

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Cliff Pond (MA96039) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Cliff Pond (MA96039) continues to be assessed as Not Supporting, with the prior Harmful Algal Blooms impairment being carried forward, since extended blooms were reported to MDPH in 2021 and 2022. During the period 2015 through 2022, C-HAB postings for Cliff Pond were reported to MDPH by DCR for 37 days in 2021 and 28 days in 2022 and no blooms were reported in other years. Since extended blooms (>20 days in duration) were reported in recent years this is reflective of the existing Harmful Algal Blooms impairment for Cliff Pond.

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

C-HAB Summary Statement
During the period 2015 through 2022, C-HAB postings for Cliff Pond (MA96039) were reported to MDPH by DCR for 37 days in 2021 and 28 days in 2022. No blooms were reported in other years. Since extended blooms (>20 days in duration) were reported in recent years, the Aesthetics Use and Primary/Secondary Contact Recreational Uses continue to be assessed as Not Supporting.

Cyanobacteria Harmful Algal Bloom (C-HAB) Data (2015-2022) Provided by MDPH (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

[* indicates a C-HAB posting of unknown duration]

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
Cliff Pond	Brewster							37	28

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Cliff Pond (MA96039) continues to be assessed as Not Supporting. The prior Harmful Algal Blooms impairment is being carried forward, since extended blooms were reported to MDPH in 2021 and 2022. MDPH Beach Closure data for Cliff Pond (DCR) beach in Brewster [Beach ID: 4572], indicated that this beach was rarely, if at all, posted for swimming from 2018-2022. During the period 2015 through 2022, C-HAB postings for Cliff Pond were reported to MDPH by DCR for 37 days in 2021 and 28 days in 2022 and no blooms were reported in other years. Since extended blooms (>20 days in duration) were reported in recent years, the C-HAB data continues to be indicative of a Harmful Algal Blooms impairment.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
4572	Cliff Pond (DCR)/ Brewster	41.75399, -70.02070	41.75419, -70.01950	0%	1%	0%	4%	0%	0%	0%	1%	0%	0
4572	Cliff Pond (DCR)/ Brewster	41.75399, -70.02070	41.75419, -70.01950	0%	1%	0%	4%	0%	0%	0%	1%	0%	0

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Cliff Pond (MA96039) continues to be assessed as Not Supporting. The prior Harmful Algal Blooms impairment is being carried forward, since extended blooms were reported to MDPH in 2021 and 2022. MDPH Beach Closure data for Cliff Pond (DCR) beach in Brewster [Beach ID: 4572], indicated that this beach was rarely, if at all, posted for swimming from 2018-2022. During the period 2015 through 2022, C-HAB postings for Cliff Pond were reported to MDPH by DCR for 37 days in 2021 and 28 days in 2022 and no blooms were reported in other years. Since extended blooms (>20 days in duration) were reported in recent years, the C-HAB data continues to be indicative of a Harmful Algal Blooms impairment.

Cockle Cove Creek (MA96-79)

Location:	Northeast of the bend in Cockle Drive, Chatham to mouth at confluence with Bucks Creek, Chatham (2005 orthophotos used to delineate segment).
AU Type:	ESTUARY
AU Size:	0.01 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Enterococcus	--	Removed
4a	4a	Fecal Coliform	42353	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	--	--	--
Fecal Coliform	Unspecified Urban Stormwater (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Supporting Information for Removed Impairments

2022 Removed Impairment	Removal Reason	Removal Comment
Enterococcus	Applicable WQS attained; based on new data	The Enterococcus impairment for Cockle Cove Creek was originally listed in the 2012 reporting cycle. This impairment was based on MDPH Beach Closure data at two beaches "Cockle Cove Beach" (no current Beach ID) which ran along the southern shoreline of Cockle Cove Creek and "Bucks Creek Beach"(Beach ID: 2706), of which a small portion sits at the mouth of Cockle Cove Creek. MDPH frequently tested Cockle Cove beach for Enterococcus between 2002 and 2007, and this beach was preemptively closed for almost all seasons by the Chatham Board of Health, due to the consistently elevated bacteria concentrations and the sampling history of the beach. MDPH also tested Bucks Creek beach between 2003 and 2007 and ultimately the majority (73%) of the 2006 swimming season was posted for swimming. This impairment was continued through the 2016 IR Cycle when beaches along the southern shoreline of the Creek (Ridgevale bridge and/or Parking lot- no current Beach ID's) were posted for >10% of the swimming season every year from 2007-2013 and Bucks Creek Beach was posted for >10% of the swimming season in 2008, 2009, 2012 & 2013. More recently MDPH no longer tests along the southern shoreline of Cockle Cove Creek, but MDPH Beach Closure data for Bucks Creek beach indicated that this beach was rarely posted for swimming from 2018-2022, with a maximum of 9% of the bathing season posted in 2021. Given this improvement in the number of annual MDPH beach postings at Bucks Creek Beach, the Primary Contact Recreation Use should be delisted for Enterococcus.

Enterococcus

Excerpt from 2004-2008 water quality assessment report (MassDEP 2011); this data was used to impair Cockle Cove Creek for Enterococcus in 2012.

Primary and Secondary Contact Recreational and Aesthetics Uses
There is one public beach, Cockle Cove Creek Beach, which runs along the southern shoreline of Cockle Cove Creek and a small portion of another public beach, Bucks Creek Beach at the mouth of Cockle Cove Creek. Frequent testing for Enterococci bacteria during the swimming season was conducted at Cockle Cove Creek Beach from 2002 – 2007 (MA DPH 2009a). Cockle Cove Creek Beach was preemptively closed for almost all seasons by the Chatham Board of Health because of consistently elevated indicator levels and the sampling history of the beach. Bucks Creek Beach, samples taken between 2003 and 2007, was reportedly posted for two days in 2004 and 2007 but was posted for the majority (73%) of the 2006 swimming season. No postings were reported for Bucks Creek Beach in 2003 or 2005 swimming seasons.

The *Primary Contact Recreational* use is assessed as impaired for Cockle Cove Creek based primarily on the frequency of beach closures at Cockle Cove Creek Beach in Chatham. The *Secondary Contact Recreational* and *Aesthetics Uses* in Cockle Cove Creek are not assessed due to the absence of data.

Data used to continue impairment for Enterococcus in the 2016 IR Cycle (MassDEP Undated 8)

Beach Postings

MA DPH Beach Posting Data (2005-2013)

Id	Name	Town	2005	2006	2007	2008	2009	2010	2011	2012	2013	Beach Decision
2706	Bucks Creek	Chatham	0%	77%	2%	15%	150%	4%	0%	19%	20%	Impair
2707	Cockle Cove Creek at Ridgevale Bridge	Chatham	0%	106%	97%	121%	169%	96%	99%	111%	94%	Impair
5602	Cockle Cove Creek at Parking Lot	Chatham	0%	0%	0%	0%	0%	0%	0%	0%	94%	Impair

Location of Bucks Creek Beach (Beach ID: 2706) showing the placement of the beach bordering both the Bucks Creek AU (MA96-44) and the Cockle Cove Creek AU (MA96-79). (MassDEP Undated 9)



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 Cockle Cove Creek (MA96-79) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Cockle Cove Creek (MA96-79): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0056 sq mi (85%). The approved shellfish growing area represents 0 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC46.0	Bucks Creek	Conditionally Approved	0.00560	85.0%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Cockle Cove Creek (MA96-79) is Not Assessed

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Cockle Cove Creek (MA96-79) is assessed as Fully Supporting. The prior Enterococcus impairment is being delisted since MDPH Beach Closure data indicates that Bucks Creek beach was annually posted for less than 10% of the bathing season from 2014-2022 (See removal comment in "supporting information for removed impairments" table above). MDPH Beach Closure data for Bucks Creek beach in Chatham [Beach ID: 2706], indicated that this beach was rarely posted for swimming from 2018-2022, with a maximum of 9% of the bathing season posted in 2021. The shellfish growing areas (0.0056 sq mi) in this AU are less than 100% approved (0 sq mi, 0%) which means that the shellfish classification data were too limited to assess the Primary Contact Recreation Use for Cockle Cove Creek.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
2706	Bucks Creek/ Chatham	41.67262, -70.00650	41.67156, -70.00400	6%	8%	6%	0%	0%	0%	6%	9%	2%	0

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Cockle Cove Creek (MA96-79): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0056 sq mi (85%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Cockle Cove Creek (MA96-79) is assessed as Fully Supporting. MDPH Beach Closure data for Bucks Creek [Beach ID: 2706] beach in Chatham, was rarely, if at all, posted for swimming from 2018-2022, with a maximum of 9% of the bathing season posted in 2021. The shellfish growing areas (0.0056 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that the shellfish classification data were too limited to assess Secondary Contact Recreation Use for Cockle Cove Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Cockle Cove Creek (MA96-79): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0056 sq mi (85%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Coonamessett Pond (MA96043)

Location:	Falmouth.
AU Type:	FRESHWATER LAKE
AU Size:	159 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	5	Harmful Algal Blooms	--	Added
3	5	Mercury in Fish Tissue	--	Added

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Harmful Algal Blooms	Source Unknown (N)	--	--	--	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 Coonamessett Pond (MA96043) is assessed as Not Supporting with a new impairment being added for Mercury in Fish Tissue. Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in Coonamessett Pond at station F0463 in 2018 as part of the probabilistic lake surveys (MAP2). MDPH issued a site-specific advisory for Mercury in Coonamessett Pond in their July 2019 Freshwater Fish Consumption Advisory List and retained it in the January 2025 list. The public should refer to the most recent MDPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations. The likely source of Mercury, although not confirmed, is atmospheric deposition.

Fish Consumption Advisories

Summary of Fish Toxics Sampling and Resulting Fish Consumption Advisories (MA DPH 2025) (MassDEP Undated 7)

Summary Statement
Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in Coonamessett Pond (MA96043) at station F0463 in 2018 as part of the probabilistic lake surveys (MAP2). Because of elevated Mercury measured in fish filets, MDPH issued site-specific fish consumption advisories for Coonamessett Pond in their July 2019 Freshwater Fish Consumption Advisory List and retained them in the January 2025 list. The site-specific MDPH advisories are indicative of a Fish Consumption Use impairment for Mercury in Fish Tissue for Coonamessett Pond (MA96043).

Aesthetic

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

2024/26 Use Attainment Summary
The Aesthetics Use for Coonamessett Pond (MA96043) is assessed as Fully Supporting based on the general lack of objectionable conditions noted by MassDEP staff during the summer of 2018. MassDEP staff recorded aesthetics observations as part of the MAP2 lake monitoring project in summer 2018 at two stations in Falmouth, for Coonamessett Pond; at the western lobe of pond, east of Coonamessett River outlet (W2799/MAP2L-304S, n=5) and at the deep hole index site (W2798/MAP2L-304, n=3). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded at any of the stations or littoral zone duckweed recorded in ten shoreline plots at W2799 (n=1), though green water color was noted on one occasion at the index station. During the MAP2 macrophyte mapping survey in Aug 2018 (n=1), less than 25% (0.2%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2798	MassDEP	Water Quality	Coonamessett Pond	[index site, Falmouth]	41.620352	-70.565320
W2799	MassDEP	Water Quality	Coonamessett Pond	[western lobe of pond, east of Coonamessett River outlet, Falmouth]	41.619339	-70.572264

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2798	2018	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2798 (MAP2L-304) on Coonamessett Pond (MA96043) during 3 site visits between Jun 2018 and Sep 2018. 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 2018, less than 25% (0.2%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%.
W2799	2018	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2799 (MAP2L-304S) on Coonamessett Pond (MA96043) during 5 site visits between May 2018 and Sep 2018. 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 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2798	Coonamessett Pond	2018	Aesthetics Impaired?	No	3	3
W2798	Coonamessett Pond	2018	Aquatic Plant Density, Overall	None	3	3
W2798	Coonamessett Pond	2018	Color	Greenish	1	3
W2798	Coonamessett Pond	2018	Color	None	2	3
W2798	Coonamessett Pond	2018	Objectionable Deposits	No	3	3
W2798	Coonamessett Pond	2018	Odor	None	3	3

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2798	Coonamessett Pond	2018	Scum	No	3	3
W2798	Coonamessett Pond	2018	Turbidity	None	3	3
W2799	Coonamessett Pond	2018	Aesthetics Impaired?	No	5	5
W2799	Coonamessett Pond	2018	Color	Light Yellow/Tan	1	5
W2799	Coonamessett Pond	2018	Color	None	4	5
W2799	Coonamessett Pond	2018	Objectionable Deposits	No	5	5
W2799	Coonamessett Pond	2018	Odor	None	5	5
W2799	Coonamessett Pond	2018	Scum	No	5	5
W2799	Coonamessett Pond	2018	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 Coonamessett Pond (MA96043) is assessed as Not Supporting. A Harmful Algal Blooms impairment is being added due to cyanobacteria cell count data exceeding the threshold for an extended period in 2018. MassDEP staff collected Secchi depth and cyanobacteria cell count data in 2018 at W2798 [MAP2L-304, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at W2799 [MAP2L-304S, Shoreline station at western lobe of pond, east of Coonamessett River outlet, Falmouth]. At station W2798 (station depth=11.2 m) the Secchi depth measurements ranged from 3.4-3.9 m (n=3) indicating water clarity meeting the 1.2 m (4 ft) threshold. The cyanobacteria cell count exceeded 70,000 cells/mL on Jul 16, Aug 02, Aug 15, and Sep 13, 2018 (with a maximum count of 96,861 cells) indicating a cyanobacteria bloom estimated to have extended at least 59 days (n=6). However, analysis of microcystins and cylindrospermopsin samples from the shoreline station W2799 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. MassDEP staff also collected *E. coli* bacteria samples at station W2799 from May-Sep 2018 (n=5). Analysis of the single year limited frequency dataset from this station indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 1 CFU/100ml. *E. coli* data from W2799 meets 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2798	MassDEP	Water Quality	Coonamessett Pond	[index site, Falmouth]	41.620352	-70.565320
W2799	MassDEP	Water Quality	Coonamessett Pond	[western lobe of pond, east of Coonamessett River outlet, Falmouth]	41.619339	-70.572264

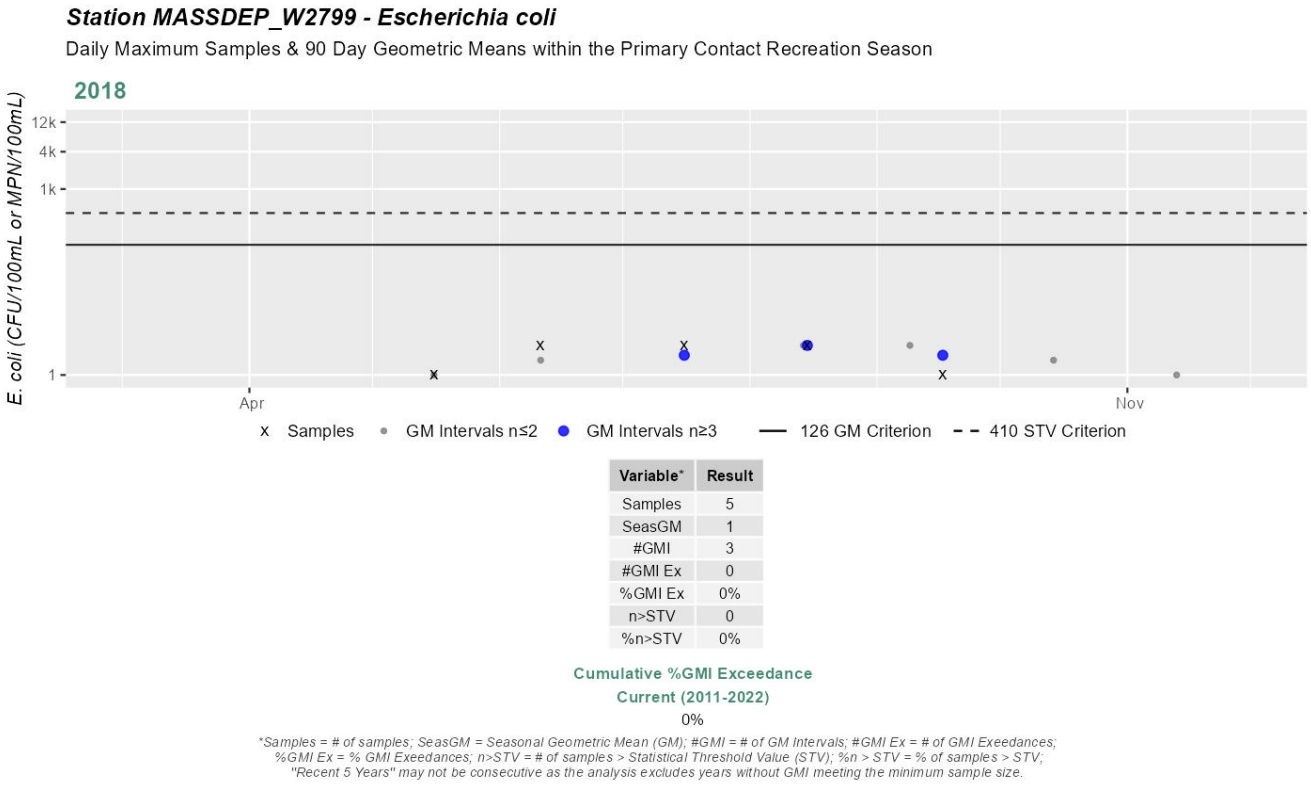
Bacteria Data

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

(MassDEP Undated 9) (MassDEP Undated 5)

[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
W2799	MassDEP	E. coli	05/16/18	09/17/18	5	1	3	1



Other Indicators

Summary Statement for 2011-2022 Cyanobacteria Cell Count and Cyanotoxin Data, and Secchi Depth Data (MassDEP Undated 9) (MassDEP Undated 5)

Data Year(s)	Summary
2018	In Coonamessett Pond (MA96043) in 2018, MassDEP collected Secchi and cyanobacteria cell count data at W2798 [MAP2L-304, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at W2799 [MAP2L-304S, Shoreline]. At station W2798 (station depth=11.2 m) the Secchi depth measurements ranged from 3.4-3.9 m (n=3) indicating water clarity meeting the 1.2 m (4 ft) threshold. The cyanobacteria cell count exceeded 70,000 cells/mL on Jul 16, Aug 02, Aug 15, and Sep 13, 2018 indicating a cyanobacteria bloom estimated to have extended at least 59 days (n=6). Analysis of microcystins and cylindrospermopsin samples from the shoreline station W2799 (n=6) 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 9) (MassDEP Undated 5)

Station Code	Waterbody	Station Type	Data Year	Sample Count	Count >70,000 cells/mL	Exceedance Date(s)
W2798	Coonamessett Pond	Index	2018	3	2	8/2/2018; 9/13/2018
W2799	Coonamessett Pond	Shoreline	2018	3	2	7/16/2018; 8/15/2018

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Coonamessett Pond (MA96043) is assessed as Not Supporting. A Harmful Algal Blooms impairment is being added due to cyanobacteria cell count data exceeding the threshold for an extended period in 2018. MassDEP staff collected cyanobacteria cell count data in 2018 at W2798 [MAP2L-304, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at W2799 [MAP2L-304S, Shoreline]. The cyanobacteria cell count exceeded 70,000 cells/mL on Jul 16, Aug 02, Aug 15, and Sep 13, 2018 (with a maximum count of 96,861 cells) indicating a cyanobacteria bloom estimated to have extended at least 59 days (n=6). However, analysis of microcystins and cylindrospermopsin samples from the shoreline station W2799 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. MassDEP staff collected *E. coli* bacteria samples at station W2799 [western lobe of pond, east of Coonamessett River outlet, Falmouth] from May-Sep 2018 (n=5). Analysis of the single year limited frequency dataset from this station indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 1 CFU/100ml. *E. coli* data from W2799 meets 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2799	MassDEP	Water Quality	Coonamessett Pond	[western lobe of pond, east of Coonamessett River outlet, Falmouth]	41.619339	-70.572264

Bacteria Data

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

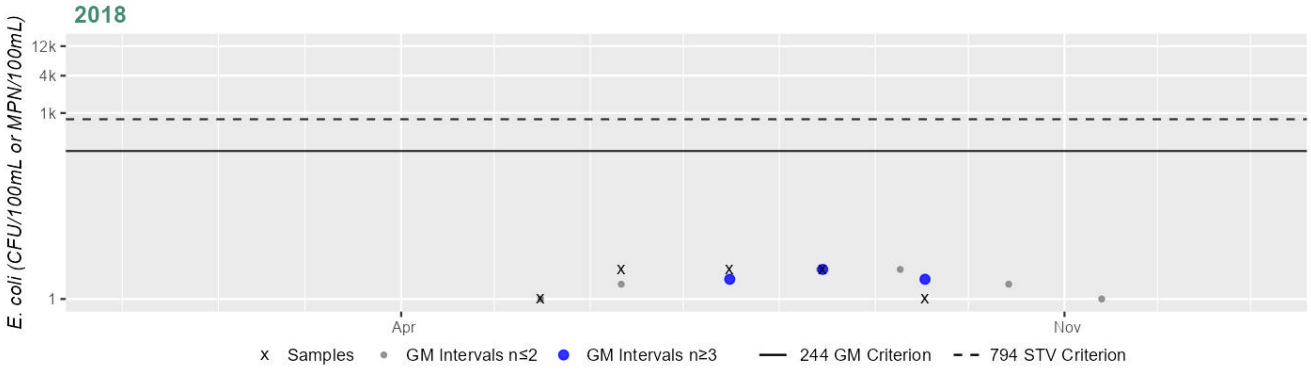
(MassDEP Undated 9) (MassDEP Undated 4)

[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
W2799	MassDEP	E. coli	05/16/18	09/17/18	5	1	3	1

Station MASSDEP_W2799 - Escherichia coli

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



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

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

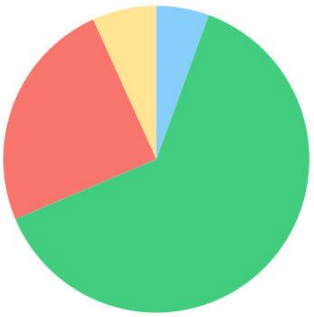
**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes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

Coonamessett River (MA96-69)

Location:	Headwaters, outlet Coonamessett Pond, Falmouth to mouth at inlet Great Pond, Falmouth.
AU Type:	RIVER
AU Size:	3.4 MILES
Classification/Qualifier:	B

Coonamessett River (MA96-69)

Watershed Area: 5.58 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	5.58	3.52	1.80	1.64
Agriculture	6.8%	3.6%	5.2%	5.7%
Developed	24.6%	22.6%	14.2%	13.5%
Natural	63%	65.7%	69.4%	69.4%
Wetland	5.6%	8%	11.2%	11.4%
Impervious	8.2%	9.5%	6.7%	6.7%

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

Recommendations

2024/26 Recommendations
2024/26IR [Aesthetics, Low] Additional aesthetics observations should be collected for Coonamessett River (MA96-69) at Sandwich Road, Falmouth {W1905} to confirm if dense aquatic plants are impairing the aesthetics use. Previously during the summer of 2009 dense aquatic plants were observed at Sandwich Road on numerous occasions. This is of low priority.

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 Coonamessett River (MA96-69) 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 Coonamessett River (MA96-69), so it is Not Assessed. The prior Alert identified for Dense Macrophytes (at Sandwich Road, Falmouth (W1905) in 2009) 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 Coonamessett River (MA96-69) are available, so the Primary Contact Recreation Use is Not Assessed. The prior Alert for dense macrophytes is being removed from the Primary Contact Recreation Use but continues to be maintained under the Aesthetics Use.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary

No bacteria or other indicator data for the Coonamessett River (MA96-69) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. The prior Alert for dense macrophytes is being removed from the Secondary Contact Recreation Use but continues to be maintained under the Aesthetics Use. MassDEP staff collected *E. coli* bacteria samples in the Coonamessett River in 2009 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: halfway down the AU at W1905 [Sandwich Rd, Falmouth] from May-Oct 2009 (n=6) and at the downstream end of the AU at W1906 [Rt. 28, Falmouth] from May-Oct 2009 (n=6). Analysis of the historic single year limited frequency datasets from W1905 and W1906 indicated that in both cases 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 71 and 80 CFU/100ml respectively. Historic *E. coli* data from W1905 and W1906 meet 2024 CALM guidance, however 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
W1905	MassDEP	Water Quality	Coonamessett River	[Sandwich Road, Falmouth]	41.598569	-70.571504
W1906	MassDEP	Water Quality	Coonamessett River	[Route 28, Falmouth]	41.577887	-70.573712

Bacteria Data

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

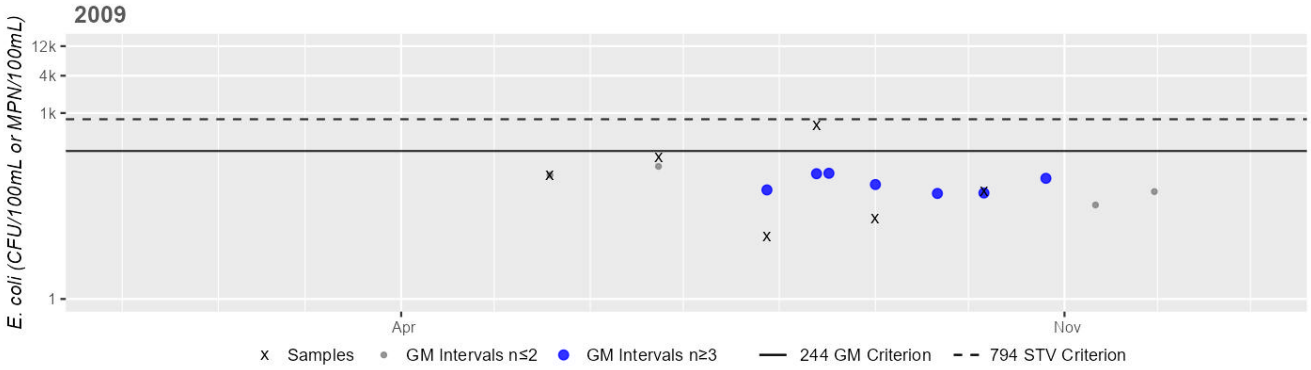
(MassDEP Undated 9) (MassDEP Undated 4)

[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
W1905	MassDEP	E. coli	05/19/09	10/06/09	6	10	640	71
W1906	MassDEP	E. coli	05/19/09	10/06/09	6	40	420	80

Station MASSDEP_W1905 - Escherichia coli

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



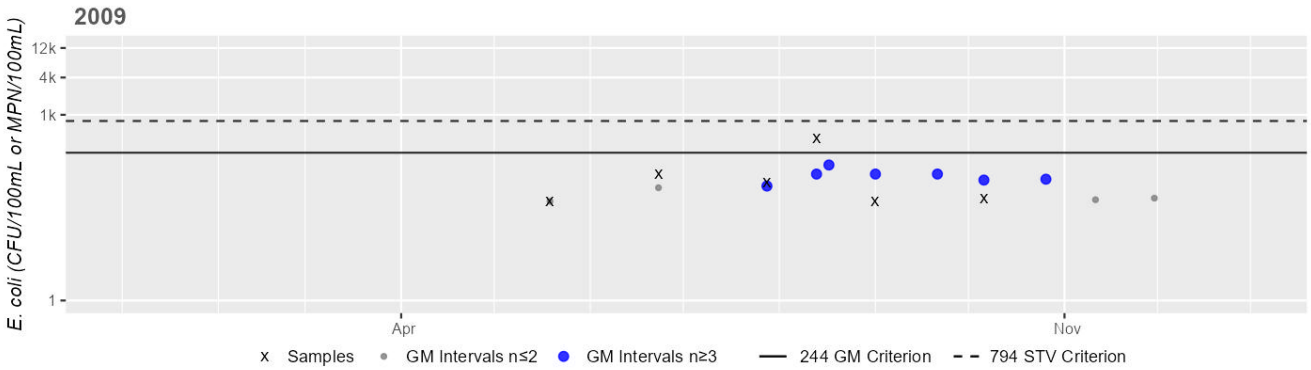
Variable*	Result
Samples	6
SeasGM	71
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Station MASSDEP_W1906 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	80
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Cotuit Bay (MA96-63)

Location:	From North Bay at Point Isabella, Barnstable oceanward to a line extended along Oyster Harbors Beach, Barnstable.
AU Type:	ESTUARY
AU Size:	0.85 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	36582	Unchanged
4a	4a	Nitrogen, Total	33988	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Marina/Boating Pumpout Releases (Y)	--	--	X	--	--	--
Fecal Coliform	Upstream Source (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--
Nitrogen, Total	Agriculture (Y)	X	--	--	--	--	--
Nitrogen, Total	Golf Courses (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Cotuit Bay (MA96-63) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Cotuit Bay (MA96-63): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.8315 sq mi (98%). The approved shellfish growing area represents 0.6097 sq mi (72%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC18.0	Barnstable South Coastal	Approved	0.01097	1.3%
SC21.0	Cotuit Bay	Approved	0.59875	70.3%
SC21.1	Cotuit Narrows	Conditionally Approved	0.04348	5.1%
SC21.2	Seapuit River	Conditionally Approved	0.02122	2.5%
SC21.4	Cotuit Oyster Company Mooring Area	Conditionally Approved	0.01962	2.3%
SC21.5	Southwest side of Grand Island	Prohibited	0.00053	0.1%
SC21.6	Cotuit Town Landing Mooring Area	Conditionally Approved	0.13649	16.0%
SC23.2	North Bay	Conditionally Approved	0.00046	0.1%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Cotuit Bay (MA96-63) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Cotuit Bay (MA96-63) continues to be assessed as Fully Supporting based on MDPH Beach Closure data. Cotuit Bay has 4 beaches with MDPH Beach Closure data: Cross Street [Beach ID: 2614], Oyster Harbors Club [Beach ID: 2597], Ropes [Beach ID: 2625] and Loops [Beach ID: 2622] beaches in Barnstable. All the beaches were rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (0.8315 sq mi) in this AU are less than 100% approved (0.6097 sq mi, 72%), which means that the shellfish classification data are too limited to assess Primary Contact Recreation Use for Cotuit Bay.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
2597	Oyster Harbors Club/ Barnstable	41.62103, -70.41930	41.62211, -70.41710	0%	0%	2%	0%	0%	0%	0%	0%	0%	0
2614	Cross Street/ Barnstable	41.60921, -70.43490	41.60941, -70.43460	0%	0%	0%	2%	0%	3%	0%	0%	0%	0
2622	Loops/ Barnstable	41.60636, -70.43700	41.60577, -70.43710	0%	0%	0%	0%	0%	0%	0%	6%	8%	0
2625	Ropes/ Barnstable	41.61973, -70.43290	41.62107, -70.43300	0%	1%	0%	0%	0%	0%	2%	2%	0%	0

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Cotuit Bay (MA96-63): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.8315 sq mi (98%). The approved shellfish growing area represents 0.6097 sq mi (72%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Cotuit Bay (MA96-63) continues to be assessed as Fully Supporting based on MDPH Beach Closure data. Cotuit Bay has 4 beaches with MDPH Beach Closure data: Cross Street [Beach ID: 2614], Oyster Harbors Club [Beach ID: 2597], Ropes [Beach ID: 2625] and Loops [Beach ID: 2622] beaches in Barnstable. All the beaches were rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (0.8315 sq mi) in this AU are less than 100% approved (0.6097 sq mi, 72%), which means that the shellfish classification data are too limited to assess Secondary Contact Recreation Use for Cotuit Bay.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Cotuit Bay (MA96-63): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.8315 sq mi (98%). The approved shellfish growing area represents 0.6097 sq mi (72%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Crows Pond (MA96-47)

Location:	To Bassing Harbor, Chatham.
AU Type:	ESTUARY
AU Size:	0.19 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO (also tributary to SA B Shellfishing ORW)

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 Crows Pond (MA96-47) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
Crows Pond (MA96-47): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1858 sq mi (96%). The approved shellfish growing area represents 0.1858 sq mi (96%). The Shellfish Harvesting Use is assessed as Fully Supporting because the growing area (normalized to the AU area) is classified as 100% approved.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC54.0	Bassing Harbor	Approved	0.00001	0.0%
SC55.0	Crows Pond	Approved	0.18576	96.5%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Crows Pond (MA96-47) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Crows Pond (MA96-47) continues to be assessed as Fully Supporting. The shellfish growing areas (0.1858 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Primary Contact Recreation Use of Crows Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Crows Pond (MA96-47): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1858 sq mi (96%). The approved shellfish growing area represents 0.1858 sq mi (96%). The Primary Contact Recreational Use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Crows Pond (MA96-47) continues to be assessed as Fully Supporting. The shellfish growing areas (0.1858 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Secondary Contact Recreation Use of Crows Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Crows Pond (MA96-47): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1858 sq mi (96%). The approved shellfish growing area represents 0.1858 sq mi (96%). The Secondary Contact Recreational use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Crystal Lake (MA96050)

Location:	Orleans.
AU Type:	FRESHWATER LAKE
AU Size:	33 ACRES
Classification/Qualifier:	B: ORW, WWF

No usable data were available for Crystal Lake (MA96050) 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	Dissolved Oxygen	--	Unchanged

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

Depot Pond (MA96061)

Location:	Eastham.
AU Type:	FRESHWATER LAKE
AU Size:	26 ACRES
Classification/Qualifier:	B

No usable data were available for Depot Pond (MA96061) 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	(Fish Passage Barrier*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Habitat Modification - other than Hydromodification (Y)	X	--	--	--	--

Dinahs Pond (MA96-112)

Location:	Yarmouth.
AU Type:	ESTUARY
AU Size:	0.04 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	5	Fecal Coliform	--	Added
4a	5	Nitrogen, Total	68003	Unchanged
4a	5	Nutrient/Eutrophication Biological Indicators	68003	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--
Nitrogen, Total	Agriculture (Y)	X	--	--	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Agriculture (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nutrient/Eutrophication Biological Indicators	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Dinahs Pond (MA96-112) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Dinahs Pond (MA96-112): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.037 sq mi (95%). The approved shellfish growing area represents 0 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. As a result of the growing area classifications, a Fecal Coliform impairment is being added.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC35.7	Bass River North	Conditionally Approved	0.03697	95.2%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Dinahs Pond (MA96-112) 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 Dinahs Pond (MA96-112) so it is assessed as having Insufficient Information. The shellfish growing areas (0.037 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that the shellfish classification data were too limited to assess Primary Contact Recreation Use for Dinahs Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Dinahs Pond (MA96-112): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.037 sq mi (95%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Dinahs Pond (MA96-112) so it is assessed as having Insufficient Information. The shellfish growing areas (0.037 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that the shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Dinahs Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Dinahs Pond (MA96-112): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.037 sq mi (95%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Dock Creek (MA96-86)

Location:	From railroad crossing northeast of Route 6A, Sandwich to confluence with Old Harbor Creek, Sandwich.
AU Type:	ESTUARY
AU Size:	0.02 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	42354	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert

Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Dock Creek (MA96-86) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Dock Creek (MA96-86): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0177 sq mi (81%). The approved shellfish growing area represents 0 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
CCB37.0	Sandwich Harbor	Conditionally Approved	0.00026	1.2%
CCB37.2	Dock Creek	Prohibited	0.01742	79.9%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Dock Creek (MA96-86) 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 Dock Creek (MA96-86) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0177 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that the shellfish classification data were too limited to assess the Primary Contact Recreation Use for Dock Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Dock Creek (MA96-86): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0177 sq mi (81%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Dock Creek (MA96-86) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0177 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that the shellfish classification data were too limited to assess Secondary Contact Recreation Use for Dock Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Dock Creek (MA96-86): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0177 sq mi (81%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Duck Creek (MA96-32)

Location:	Source west of Route 6, Wellfleet to mouth at inlet Wellfleet Harbor (at a line from Shirttail Point to Taylor Road), Wellfleet.
AU Type:	ESTUARY
AU Size:	0.15 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	4a	Benthic Macroinvertebrates	R1_MA_2024_01	Changed
5	4a	Dissolved Oxygen	R1_MA_2024_01	Changed
5	4a	Fecal Coliform	36772	Unchanged
5	4a	Nitrogen, Total	R1_MA_2024_01	Changed
5	4a	Nutrient/Eutrophication Biological Indicators	R1_MA_2024_01	Changed

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Benthic Macroinvertebrates	Impervious Surface/Parking Lot Runoff (Y)	X	--	--	--	--	--
Benthic Macroinvertebrates	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Benthic Macroinvertebrates	Rural (Residential Areas) (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Benthic Macroinvertebrates	Yard Maintenance (Y)	X	--	--	--	--	--
Dissolved Oxygen	Impervious Surface/Parking Lot Runoff (Y)	X	--	--	--	--	--
Dissolved Oxygen	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Dissolved Oxygen	Rural (Residential Areas) (Y)	X	--	--	--	--	--
Dissolved Oxygen	Yard Maintenance (Y)	X	--	--	--	--	--
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--
Nitrogen, Total	Impervious Surface/Parking Lot Runoff (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Rural (Residential Areas) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nutrient/Eutrophication Biological Indicators	Impervious Surface/Parking Lot Runoff (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Rural (Residential Areas) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Yard Maintenance (Y)	X	--	--	--	--	--

Supporting Information for Removed Impairments

2022 Removed Impairment	Removal Reason	Removal Comment
Benthic Macroinvertebrates	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: Wellfleet Harbor Embayment System TMDL for Total Nitrogen (Report CN 447.1, approved 9/29/2023, ATTAINS Action ID: R1_MA_2024_01)
Dissolved Oxygen	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: Wellfleet Harbor Embayment System TMDL for Total Nitrogen (Report CN 447.1, approved 9/29/2023, ATTAINS Action ID: R1_MA_2024_01)
Nitrogen, Total	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: Wellfleet Harbor Embayment System TMDL for Total Nitrogen (Report CN 447.1, approved 9/29/2023, ATTAINS Action ID: R1_MA_2024_01)
Nutrient/Eutrophication Biological Indicators	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: Wellfleet Harbor Embayment System TMDL for Total Nitrogen (Report CN 447.1, approved 9/29/2023, ATTAINS Action ID: R1_MA_2024_01)

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 Duck Creek (MA96-32) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Duck Creek (MA96-32): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.135 sq mi (92%). The approved shellfish growing area represents 0.052 sq mi (35%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
CCB13.0	Wellfleet Inner Harbor	Approved	0.05200	35.5%
CCB13.1	Duck Creek	Prohibited	0.00516	3.5%
CCB13.2	Duck Creek	Conditionally Approved	0.06178	42.1%
CCB13.3	Wellfleet Boat Ramp	Conditionally Approved	0.00779	5.3%
CCB13.4	Town of Wellfleet Marina	Prohibited	0.00767	5.2%
CCB13.5	Pipe at Heart Core	Prohibited	0.00006	0.0%
CCB13.6	Chipman's Cove Mooring Area	Conditionally Approved	0.00052	0.4%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Duck Creek (MA96-32) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Duck Creek (MA96-32) is assessed as Fully Supporting based on bacteria data collected at one station in 2020. The shellfish growing areas (0.135 sq mi) in this AU are less than 100% approved (0.052 sq mi, 35%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Duck Creek. Center for Coastal Studies (CCS) staff/volunteers collected Enterococcus bacteria samples in Duck Creek at station CCS_213 [Duck Creek] from Apr-Oct 2020 (n=12). Analysis of the single year moderate frequency dataset from this station indicated 0% of intervals had GMs >35 CFU/100ml although 1 sample exceeded the 130 CFU/100ml STV (320 CFU). Enterococcus data from station CCS_213 meets 2024 CALM guidance.

Monitoring Stations

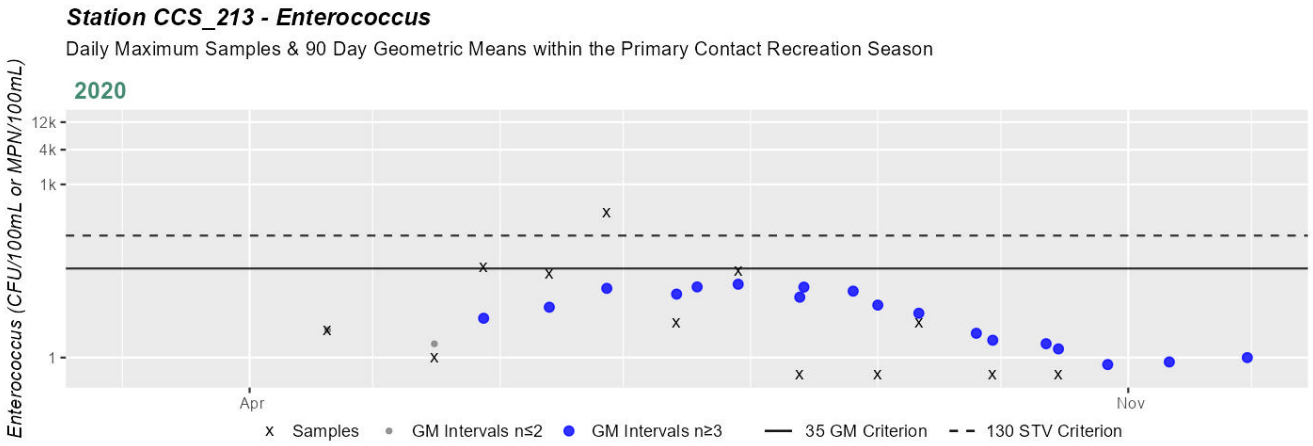
Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CCS_213	Center for Coastal Studies	Water Quality	Duck Creek	Duck Creek	41.933994	-70.027114

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (CCS 2020) (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
CCS_213	Center for Coastal Studies	Enterococci	04/19/20	10/14/20	12	0	320	4



Variable*	Result
Samples	12
SeasGM	4
#GMI	18
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	8%

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

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

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Duck Creek (MA96-32): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.135 sq mi (92%). The approved shellfish growing area represents 0.052 sq mi (35%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

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

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Duck Creek (MA96-32) is assessed as Fully Supporting based on a re-evaluation of bacteria data collected at one station in 2020. The shellfish growing areas (0.135 sq mi) in this AU are less than 100% approved (0.052 sq mi, 35%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Duck Creek. Center for Coastal Studies (CCS) staff/volunteers collected Enterococcus bacteria samples in Duck Creek at station CCS_213 [Duck Creek] from Apr-Oct 2020 (n=12). Analysis of the single year moderate frequency dataset from this station indicated 0% of intervals had GMs >68 CFU/100ml although 1 sample exceeded the 252 CFU/100ml STV (320 CFU). Enterococcus data from CCS_213 meet 2024 CALM guidance.

Monitoring Stations

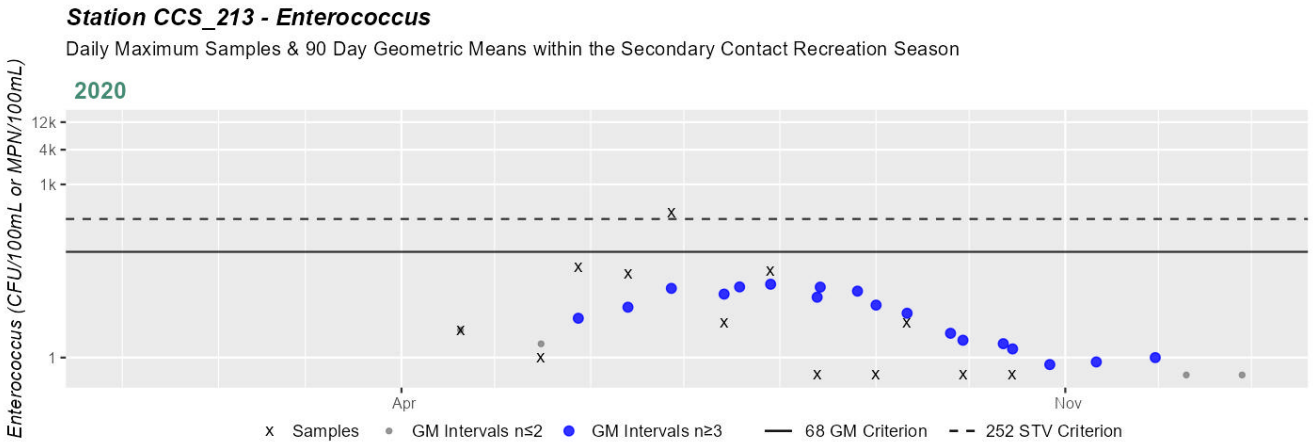
Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CCS_213	Center for Coastal Studies	Water Quality	Duck Creek	Duck Creek	41.933994	-70.027114

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis) (CCS 2020) (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
CCS_213	Center for Coastal Studies	Enterococci	04/19/20	10/14/20	12	0	320	4



Variable*	Result
Samples	12
SeasGM	4
#GMI	18
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	8%

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

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

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Duck Creek (MA96-32): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.135 sq mi (92%). The approved shellfish growing area represents 0.052 sq mi (35%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Duck Pond (MA96068)

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

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

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Duck Pond (MA96068) continues to be assessed as Not Supporting and the prior Mercury in Fish Tissue impairment is being carried forward. MDPH included a site-specific advisory for Duck Pond in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent MDPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Duck Pond (MA96068) 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 Duck Pond (MA96068) 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 Duck Pond (MA96068) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Dyer Pond (MA96070)

Location:	Wellfleet.
AU Type:	FRESHWATER LAKE
AU Size:	10 ACRES
Classification/Qualifier:	B: ORW

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

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Dyer Pond (MA96070) 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 Dyer Pond at station F0355 in 2019 and 2022 as part of the MassDEP Office of Research and Standards Mercury Initiative. MDPH included a site-specific advisory for Dyer Pond in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent MDPH 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 7)

Summary Statement
Fish toxics sampling was conducted in Dyer Pond (MA96070) at station F0355 in 2019 and 2022 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 Dyer Pond in their January 2025 Freshwater Fish Consumption Advisory List. The site-specific MDPH advisories are indicative of a Fish Consumption Use impairment for Mercury in Fish Tissue for Dyer Pond (MA96070).

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Dyer Pond (MA96070) 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 Dyer Pond (MA96070) 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 Dyer Pond (MA96070) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

East Harbor (Pilgrim Lake) (MA96-83)

Location:	Truro/Provincetown.
AU Type:	ESTUARY
AU Size:	0.5 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	42355	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Unspecified Urban Stormwater (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for East Harbor (Pilgrim Lake) (MA96-83) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Shellfish Harvesting Use for East Harbor (Pilgrim Lake) (MA96-83) will continue to be assessed as Not Supporting, with the prior Fecal Coliform impairment being carried forward. The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.4695 sq mi (95%). The approved shellfish growing area represents 0 sq mi (0%) and the prohibited shellfish growing area represents 0.4695 sq mi (95%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as entirely prohibited.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
CCB4.5	Pilgrim Lake aka East Harbor	Prohibited	0.46952	94.5%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for East Harbor (Pilgrim Lake) (MA96-83) 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 East Harbor (Pilgrim Lake) (MA96-83) so it is assessed as having Insufficient Information. The shellfish growing areas (0.4695 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for East Harbor (Pilgrim Lake).

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
East Harbor (Pilgrim Lake) (MA96-83): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.4695 sq mi (95%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 East Harbor (Pilgrim Lake) (MA96-83) so it is assessed as having Insufficient Information. The shellfish growing areas (0.4695 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for East Harbor (Pilgrim Lake).

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
East Harbor (Pilgrim Lake) (MA96-83): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.4695 sq mi (95%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Eel Pond (MA96-121)

Location:	Falmouth.
AU Type:	ESTUARY
AU Size:	0.32 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO (Tributary)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	5	Estuarine Bioassessments	R1_MA_2020_08	Unchanged
4a	5	Fecal Coliform	--	Added
4a	5	Nitrogen, Total	R1_MA_2020_08	Unchanged
4a	5	Nutrient/Eutrophication Biological Indicators	R1_MA_2020_08	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Wet Weather Discharges (Non-Point Source) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Wet Weather Discharges (Non-Point Source) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Wet Weather Discharges (Non-Point Source) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Eel Pond (MA96-121) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Eel Pond (MA96-121): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.2973 sq mi (94%). The approved shellfish growing area represents 0.1598 sq mi (50%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. As a result of the growing area classifications, a Fecal Coliform impairment is being added.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC14.0	Eel Pond	Approved	0.15514	48.9%
SC14.2	Eel Pond Northwest	Conditionally Approved	0.07333	23.1%
SC14.6	Edgewater Drive East Mooring Area	Conditionally Approved	0.06417	20.2%
SC8.0	East Falmouth Coastal	Approved	0.00469	1.5%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Eel Pond (MA96-121) 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 Eel Pond (MA96-121) so it is assessed as having Insufficient Information. The shellfish growing areas (0.2973 sq mi) in this AU are less than 100% approved (0.1598 sq mi, 50%), which means that the shellfish classification data were too limited to assess the Primary Contact Recreation Use for Eel Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Eel Pond (MA96-121): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.2973 sq mi (94%). The approved shellfish growing area represents 0.1598 sq mi (50%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Eel Pond (MA96-121) so it is assessed as having Insufficient Information. The shellfish growing areas (0.2973 sq mi) in this AU are less than 100% approved (0.1598 sq mi, 50%), which means that the shellfish classification data were too limited to assess Secondary Contact Recreation Use for Eel Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Eel Pond (MA96-121): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.2973 sq mi (94%). The approved shellfish growing area represents 0.1598 sq mi (50%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Elbow Pond (MA96077)

Location:	Brewster.
AU Type:	FRESHWATER LAKE
AU Size:	32 ACRES
Classification/Qualifier:	B

No usable data were available for Elbow Pond (MA96077) 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

Falmouth Inner Harbor (MA96-17)

Location:	Waters included north of Falmouth Inner Harbor Light, Falmouth.
AU Type:	ESTUARY
AU Size:	0.05 SQUARE MILES
Classification/Qualifier:	SB: SFR

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Nitrogen, Total	R1_MA_2020_06	Unchanged
4a	4a	Nutrient/Eutrophication Biological Indicators	R1_MA_2020_06	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nutrient/Eutrophication Biological Indicators	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Falmouth Inner Harbor (MA96-17) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
Falmouth Inner Harbor (MA96-17): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0491 sq mi (97%). The sum of the approved, conditionally approved, and restricted shellfish growing areas represents 0 sq mi (0%). The prohibited shellfish growing area represents 0.0491 sq mi (97%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as entirely prohibited.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC5.0	South Falmouth Coastal	Approved	0.00000	0.0%
SC9.0	Falmouth Inner Harbor	Prohibited	0.04907	97.1%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Falmouth Inner Harbor (MA96-17) 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 Falmouth Inner Harbor (MA96-17) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0491 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that the shellfish classification data were too limited to assess Primary Contact Recreation Use for Falmouth Inner Harbor.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Falmouth Inner Harbor (MA96-17): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0491 sq mi (97%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Falmouth Inner Harbor (MA96-17) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0491 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that the shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Falmouth Inner Harbor.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Falmouth Inner Harbor (MA96-17): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0491 sq mi (97%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Flax Pond (MA96090)

Location:	Dennis.
AU Type:	FRESHWATER LAKE
AU Size:	15 ACRES
Classification/Qualifier:	B

No usable data were available for Flax Pond (MA96090) 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

Flax Pond (MA96091)

Location:	Brewster.
AU Type:	FRESHWATER LAKE
AU Size:	47 ACRES
Classification/Qualifier:	B

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

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Flax Pond (MA96091) 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 Flax Pond (MA96091) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Flax Pond (MA96091) is assessed as Fully Supporting. MDPH Beach Closure data for Flax Pond (DCR) beach in Brewster [Beach ID: 4573], indicated that this beach was rarely, if at all, posted for swimming from 2018-2022.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
4573	Flax Pond (DCR)/ Brewster	41.76549, -70.02350	41.76584, -70.02320	0%	0%	0%	3%	0%	0%	0%	1%	0%	0

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Flax Pond (MA96091) is assessed as Fully Supporting. MDPH Beach Closure data for Flax Pond (DCR) beach in Brewster [Beach ID: 4573], indicated that this beach was rarely, if at all, posted for swimming from 2018-2022.

Flax Pond (MA96354)

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

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

Recommendations

2024/26 Recommendations
2024/26IR [Harmful Algal Blooms, Low] Follow-up monitoring should be conducted in Flax Pond (MA96354) to determine if Harmful Algal Blooms may be impairing the Recreational and Aesthetic uses. C-HAB postings for Flax Pond in Falmouth were reported to MDPH based on visual observations for 17 days in 2022. Monitoring should include observational data and collection of cyanobacteria cell count data, as well as continued reporting of algal blooms to MDPH. This is of low priority.

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 Flax Pond (MA96354) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Insufficient Information	YES

2024/26 Use Attainment Summary
Too limited data are available to assess the Aesthetics Use for Flax Pond (MA96354), so it is assessed as having Insufficient Information. However, an Alert is being identified for Harmful Algal Blooms in this waterbody since C-HAB postings (blooms >15 days in duration) were reported to MDPH in 2022. During the period 2015 through 2022, C-HAB postings for Flax Pond were reported to MDPH based on visual observations for 17 days in 2022 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 in this waterbody and a recommendation for follow-up sampling will be made.

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

C-HAB Summary Statement
During the period 2015 through 2022, C-HAB postings for Flax Pond (MA96354) were reported to MDPH based on visual observations for 17 days in 2022. 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 2)

[* indicates a C-HAB posting of unknown duration]

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
Flax Pond	Falmouth								17

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 Flax Pond (MA96354) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information, although an Alert is being identified for Harmful Algal Blooms. During the period 2015 through 2022, C-HAB postings for Flax Pond in Falmouth were reported to MDPH based on visual observations for 17 days in 2022. 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 Blooms Alert is being identified for this waterbody and a recommendation for follow-up sampling will be made. MDPH contractors conducted surface water sampling at Flax Pond in May 2021 as part of a MDPH pilot study assessing 40 PFAS analytes in surface water and fish tissue samples collected from waterbodies on Cape Cod. In this study, MDPH evaluated four PFAS compounds (PFHxS, PFNA, PFOA, PFOS) individually against a candidate Surface Water Action Level (cSWAL) of 23 ng/L (ppt). All four compounds had concentrations less than the cSWAL, with the maximum being 0.626 ng/L of PFHxS.

Other Indicators

Summary of MDPH 2021 and 2022 PFAS in Water Column Data

Data Sources: (Nascarella 2021, MA DPH 2021)

MDPH contractors conducted surface water sampling at Flax Pond (MA96354) in Falmouth in May 2021 as part of a MDPH pilot study assessing 40 PFAS analytes in surface water and fish tissue samples collected from waterbodies on Cape Cod. In this study, MDPH evaluated four PFAS compounds (PFHxS, PFNA, PFOA, PFOS) individually against a candidate Surface Water Action Level (cSWAL) of 23 ng/L (ppt). All four compounds had concentrations less than the cSWAL, with the maximum being 0.626 ng/L of PFHxS.

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 Flax Pond (MA96354) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information, although an Alert is being identified for Harmful Algal Blooms. During the period 2015 through 2022, C-HAB postings for Flax Pond were reported to MDPH based on visual observations for 17 days in 2022 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, a Harmful Algal Blooms Alert is being identified for this waterbody and a recommendation for follow-up sampling will be made.

Follins Pond (MA96-114)

Location:	Yarmouth/Dennis.
AU Type:	ESTUARY
AU Size:	0.32 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	5	Fecal Coliform	--	Added
4a	5	Nitrogen, Total	68003	Unchanged
4a	5	Nutrient/Eutrophication Biological Indicators	68003	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--
Nitrogen, Total	Agriculture (Y)	X	--	--	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	Golf Courses (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Agriculture (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nutrient/Eutrophication Biological Indicators	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Golf Courses (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Follins Pond (MA96-114) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Follins Pond (MA96-114): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.3162 sq mi (99%). The approved shellfish growing area represents 0 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. As a result of the growing area classifications, a Fecal Coliform impairment is being added.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC35.6	Muddy And Weir Creek	Prohibited	0.00428	1.3%
SC35.7	Bass River North	Conditionally Approved	0.31190	97.4%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Follins Pond (MA96-114) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Follins Pond (MA96-114) is assessed as Fully Supporting based on MDPH Beach Closure data. MDPH Beach Closure data for Follins Pond beach in Dennis [Beach ID: 2756] and Follins Pond beach in Yarmouth [Beach ID: 4920], indicated that these beaches were rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (0.3162 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that the shellfish classification data were too limited to assess the Primary Contact Recreation Use for Follins Pond.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
2756	Follins Pond/ Dennis	41.70526, -70.17500	41.70474, -70.17490	0%	0%	0%	0%	1%	0%	0%	8%	0%	0
4920	Follins Pond/ Yarmouth	41.71008, -70.18680	41.71012, -70.18670	0%	0%	0%	0%	0%	0%	0%	0%	0%	0

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Follins Pond (MA96-114): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.3162 sq mi (99%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Follins Pond (MA96-114) is assessed as Fully Supporting based on MDPH Beach Closure data. MDPH Beach Closure data for Follins Pond beach in Dennis [Beach ID: 2756] and Follins Pond beach in Yarmouth [Beach ID: 4920], indicated that these beaches were rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (0.3162 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that the shellfish classification data were too limited to assess the Primary Contact Recreation Use for Follins Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Follins Pond (MA96-114): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.3162 sq mi (99%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Fresh Brook (MA96-126)

Location:	Estuarine portion west of Route 6, Wellfleet to mouth at confluence with Wellfleet Harbor, Wellfleet.
AU Type:	ESTUARY
AU Size:	0.004 SQUARE MILES
Classification/Qualifier:	SA: SFO

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 Fresh Brook (MA96-126) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
Fresh Brook (MA96-126): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0013 sq mi (34%). The approved shellfish growing area represents 0.0013 sq mi (34%). The Shellfish Harvesting Use is assessed as Fully Supporting because the growing area (normalized to the AU area) is classified as 100% approved.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
CCB11.0	Wellfleet Harbor	Approved	0.00127	34.2%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Fresh Brook (MA96-126) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Fresh Brook (MA96-126) is assessed as Fully Supporting. The shellfish growing areas (0.0013 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Primary Contact Recreation Use of Fresh Brook.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Fresh Brook (MA96-126): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0013 sq mi (34%). The approved shellfish growing area represents 0.0013 sq mi (34%). The Primary Contact Recreational Use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Fresh Brook (MA96-126) is assessed as Fully Supporting. The shellfish growing areas (0.0013 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Secondary Contact Recreation Use of Fresh Brook.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Fresh Brook (MA96-126): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0013 sq mi (34%). The approved shellfish growing area represents 0.0013 sq mi (34%). The Secondary Contact Recreational use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Frost Fish Creek (MA96-49)

Location:	Headwaters outlet cranberry bog northwest of Stony Hill Road, Chatham to mouth at inlet Ryder Cove, Chatham.
AU Type:	ESTUARY
AU Size:	0.01 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO (also tributary to SA B Shellfishing ORW)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	22513	Unchanged
4a	4a	Nitrogen, Total	33781	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	Unspecified Urban Stormwater (Y)	--	--	X	--	--	--
Fecal Coliform	Yard Maintenance (Y)	--	--	X	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Frost Fish Creek (MA96-49) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
There is insufficient information available to delist the existing Fecal Coliform impairment for Frost Fish Creek (MA96-49), so the Shellfish Harvesting Use will continue to be assessed as Not Supporting. The total of all shellfish growing area classifications (MassGIS, 2024) within Frost Fish Creek is 0.0083 sq mi (87%). The approved shellfish growing area represents 0 sq mi (0%). The prohibited shellfish growing area represents 0.0083 sq mi (87%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as entirely prohibited.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC57.0	Frostfish Cove	Prohibited	0.00832	86.5%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Frost Fish Creek (MA96-49) 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 Frost Fish Creek (MA96-49) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0083 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that the shellfish classification data were too limited to assess the Primary Contact Recreation Use for Frost Fish Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Frost Fish Creek (MA96-49): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0083 sq mi (87%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Frost Fish Creek (MA96-49) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0083 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that the shellfish classification data were too limited to assess Secondary Contact Recreation Use for Frost Fish Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Frost Fish Creek (MA96-49): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0083 sq mi (87%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Goose Pond (MA96106)

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

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

Recommendations

2024/26 Recommendations
2024/26IR [Harmful Algal Blooms, Low] Follow-up monitoring should be conducted in Goose Pond (MA96106) to determine if Harmful Algal Blooms may be impairing the Recreational and Aesthetic uses. C-HAB postings for Goose Pond were reported to MDPH based on visual observations for 15 days in 2022. Monitoring should include observational data and collection of cyanobacteria cell count data, as well as continued reporting of algal blooms to MDPH. This is of low priority.

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 Goose Pond (MA96106) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Insufficient Information	YES

2024/26 Use Attainment Summary
Too limited data are available to assess the Aesthetics Use for Goose Pond (MA96106), so it is assessed as having Insufficient Information. However, an Alert is being identified for Harmful Algal Blooms in this waterbody since C-HAB postings (a bloom of 15 days duration) was reported to MDPH for 2022. During the period 2015 through 2022, C-HAB postings for Goose Pond were reported to MDPH based on visual observations for 15 days in 2022 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 in this waterbody and a recommendation for follow-up sampling will be made.

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

C-HAB Summary Statement
During the period 2015 through 2022, C-HAB postings for Goose Pond (MA96106) were reported to MDPH based on visual observations for 15 days in 2022. 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 2)

[* indicates a C-HAB posting of unknown duration]

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
Goose Pond	Chatham								15

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 Goose Pond (MA96106) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information. However an Alert is being identified for Harmful Algal Blooms. During the period 2015 through 2022, C-HAB postings for Goose Pond were reported to MDPH based on visual observations for 15 days in 2022 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, 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 Goose Pond (MA96106) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information. However, an Alert is being identified for Harmful Algal Blooms. During the period 2015 through 2022, C-HAB postings for Goose Pond were reported to MDPH based on visual observations for 15 days in 2022 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, a Harmful Algal Bloom Alert is being identified for this waterbody and a recommendation for follow-up sampling will be made.

Grass Pond (MA96108)

Location:	east of Forest Street, Harwich.
AU Type:	FRESHWATER LAKE
AU Size:	24 ACRES
Classification/Qualifier:	B

No usable data were available for Grass Pond (MA96108) 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	None	--	Unchanged

Great Harbor (MA96-18)

Location:	The waters north of an imaginary line drawn east from Penzance Point, Falmouth to Devils Foot Island, Falmouth and southeast from Devils Foot Island to Juniper Point (excludes Eel Pond), Falmouth.
AU Type:	ESTUARY
AU Size:	0.31 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Estuarine Bioassessments	--	Unchanged
5	5	Fecal Coliform	36772	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Source Unknown (N)	X	--	--	--	--	--
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	Marina/Boating Pumpout Releases (Y)	--	--	X	--	--	--
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Great Harbor (MA96-18) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Great Harbor (MA96-18): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.3055 sq mi (99%). The approved shellfish growing area represents 0.04 sq mi (13%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC1.0	Woods Hole West Coastal	Approved	0.00002	0.0%
SC2.0	Great Harbor	Approved	0.04001	12.9%
SC2.1	Woods Hole	Prohibited	0.03644	11.8%
SC2.2	Ram Island Mooring Area	Conditionally Approved	0.22901	73.9%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Great Harbor (MA96-18) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Great Harbor (MA96-18) is assessed as Fully Supporting based on MDPH Beach Closure data. MDPH Beach Closure data for Falmouth Yacht Club beach in Falmouth [Beach ID: 2863], indicated that this beach was rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (0.3055 sq mi) in this AU are less than 100% approved (0.04 sq mi, 13%), which means that the shellfish classification data were too limited to assess the Primary Contact Recreation Use for Great Harbor.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
2863	Falmouth Yacht Club/ Falmouth	41.52772, -70.67700	41.52729, -70.67510	0%	0%	0%	0%	0%	0%	0%	0%	2%	0

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Great Harbor (MA96-18): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.3055 sq mi (99%). The approved shellfish growing area represents 0.04 sq mi (13%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Great Harbor (MA96-18) is assessed as Fully Supporting based on MDPH Beach Closure data. MDPH Beach Closure data for Falmouth Yacht Club beach in Falmouth [Beach ID: 2863], indicated that this beach was rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (0.3055 sq mi) in this AU are less than 100% approved (0.04 sq mi, 13%), which means that the shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Great Harbor.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Great Harbor (MA96-18): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.3055 sq mi (99%). The approved shellfish growing area represents 0.04 sq mi (13%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Great Pond (MA96114)

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

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

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Great Pond (MA96114) continues to be assessed as Not Supporting and the prior Mercury in Fish Tissue impairment is being carried forward. MDPH included a site-specific advisory for Great Pond in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent MDPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Great Pond (MA96114) 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 Great Pond (MA96114) 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 Great Pond (MA96114) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Great Pond (MA96115)

Location:	Eastham.
AU Type:	FRESHWATER LAKE
AU Size:	109 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Chlorophyll-a	--	Unchanged
5	5	Dissolved Oxygen	--	Unchanged
5	5	Phosphorus, Total	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Chlorophyll-a	Source Unknown (N)	X	--	--	--	--
Dissolved Oxygen	Source Unknown (N)	X	--	--	--	--
Phosphorus, Total	Source Unknown (N)	X	--	--	--	--

Recommendations

2024/26 Recommendations
2024/26IR [Algae, Low] Follow-up monitoring for Algae should be carried out for Great Pond (MA96115) to rule out the possibility of an Algae impairment. The prior Alert identified for Algae was based on an Algal Bloom observed at the Eastern beach (Eastham) in 2009 {W1927}, although the beach was not closed by MDPH at that time. This is of low priority.

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 Pond (MA96115) 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 Great Pond (MA96115), so it is Not Assessed. The prior Alert identified for Algae (Algal Bloom observed at Eastern beach, Eastham in 2009, though the beach was not closed by DPH) 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 Great Pond (MA96115) are available, so the Primary Contact Recreation Use is Not Assessed. The prior Alert for Algae (Algal Bloom observed at beach in 2009, beach not closed by DPH) is being removed from the Recreational Uses but continues to be maintained under the Aesthetics Use.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary

No bacteria or other indicator data for Great Pond (MA96115) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. The prior Alert for Algae (Algal Bloom observed at beach in 2009, beach not closed by DPH) is being removed from the Recreational Uses but continues to be maintained under the Aesthetics Use. MassDEP staff collected *E. coli* bacteria samples in Great Pond at W1927 [at the eastern beach, Eastham] from May-Oct 2009 (n=6). Analysis of the historic single year limited frequency *E. coli* dataset from this station indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 10 CFU/100ml, which meets 2024 CALM guidance. However, 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
W1927	MassDEP	Water Quality	Great Pond	[at the eastern beach, Eastham]	41.833323	-69.984189

Bacteria Data

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

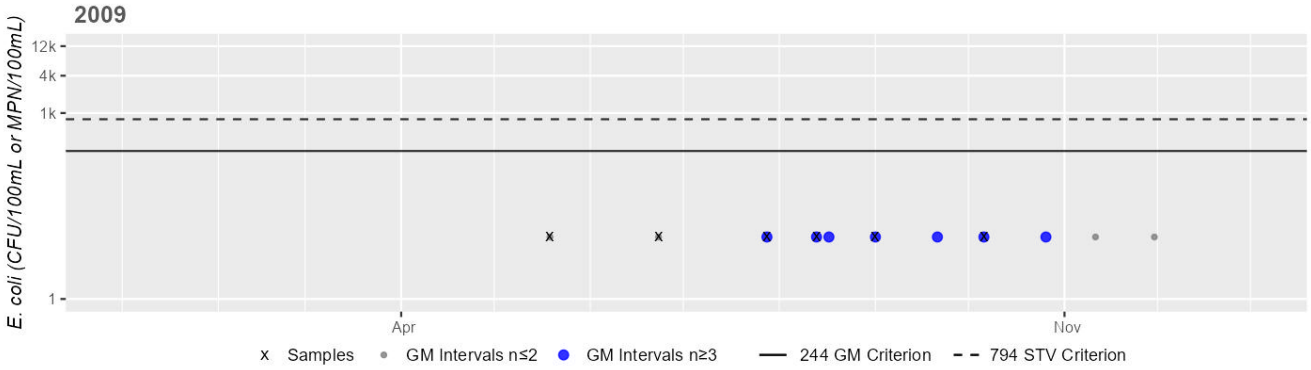
(MassDEP Undated 9) (MassDEP Undated 4)

[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
W1927	MassDEP	E. coli	05/19/09	10/06/09	6	10	10	10

Station MASSDEP_W1927 - Escherichia coli

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



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

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

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

Great Pond (MA96117)

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

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

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Great Pond (MA96117) continues to be assessed as Not Supporting and the prior Mercury in Fish Tissue impairment is being carried forward. MDPH included a site-specific advisory for Great Pond in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent MDPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Great Pond (MA96117) 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 Great Pond (MA96117) 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 Great Pond (MA96117) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Great Pond (MA96-54)

Location:	From inlet of Coonamessett River, Falmouth to Vineyard Sound (excluding Perch Pond), Falmouth.
AU Type:	ESTUARY
AU Size:	0.4 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Enterococcus	36772	Unchanged
4a	4a	Estuarine Bioassessments	32532	Unchanged
4a	4a	Fecal Coliform	36772	Unchanged
4a	4a	Nitrogen, Total	32532	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Enterococcus	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	--	--	X	--
Enterococcus	Source Unknown (N)	--	--	--	--	X	--
Estuarine Bioassessments	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Golf Courses (Y)	X	--	--	--	--	--
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	Golf Courses (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Great Pond (MA96-54) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Great Pond (MA96-54): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.3912 sq mi (97%). The approved shellfish growing area represents 0 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC11.2	North Great Pond	Prohibited	0.05759	14.3%
SC11.3	Great Pond	Conditionally Approved	0.33363	83.0%
SC8.0	East Falmouth Coastal	Approved	0.00002	0.0%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Great Pond (MA96-54) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Great Pond (MA96-54) continues to be assessed as Not Supporting, with the prior Enterococcus impairment being carried forward. The shellfish growing areas (0.3912 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that the shellfish classification data were too limited to assess Primary Contact Recreation Use for Great Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Great Pond (MA96-54): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.3912 sq mi (97%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Great Pond (MA96-54) so it is assessed as having Insufficient Information. The shellfish growing areas (0.3912 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that the shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Great Pond (MA96-54).

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Great Pond (MA96-54): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.3912 sq mi (97%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Great River (MA96-60)

Location:	From inlet of Abigails Brook, Mashpee to mouth at inlet Waquoit Bay (excluding Jehu Pond), Mashpee.
AU Type:	ESTUARY
AU Size:	0.16 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO (Tributary to SA* SFO ORW)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	5	Estuarine Bioassessments	R1_MA_2020_08	Unchanged
4a	5	Fecal Coliform	--	Added
4a	5	Nitrogen, Total	R1_MA_2020_08	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Great River (MA96-60) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Great River (MA96-60): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.158 sq mi (97%). The approved shellfish growing area represents 0.0752 sq mi (46%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications, a Fecal Coliform impairment is being added.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC15.0	Waquoit Bay	Approved	0.00075	0.5%
SC16.0	Little River and Hamblin Pond	Approved	0.02455	15.0%

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC16.4	Great River Mooring Area	Conditionally Approved	0.08279	50.7%
SC16.5	Jehu Pond and Marsh	Approved	0.04988	30.6%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Great River (MA96-60) 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 the Great River (MA96-60) so it is assessed as having Insufficient Information. The shellfish growing areas (0.158 sq mi) in this AU are less than 100% approved (0.0752 sq mi, 46%), which means that the shellfish classification data were too limited to assess the Primary Contact Recreation Use for Great River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Great River (MA96-60): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.158 sq mi (97%). The approved shellfish growing area represents 0.0752 sq mi (46%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary

No bacteria data are available to assess the Secondary Contact Recreation Use for the Great River (MA96-60) so it is assessed as having Insufficient Information. The shellfish growing areas (0.158 sq mi) in this AU are less than 100% approved (0.0752 sq mi, 46%), which means that the shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Great River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Great River (MA96-60): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.158 sq mi (97%). The approved shellfish growing area represents 0.0752 sq mi (46%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Green Pond (MA96-55)

Location:	east of Acapesket Road, Falmouth outlet to Vineyard Sound, Falmouth.
AU Type:	ESTUARY
AU Size:	0.21 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Estuarine Bioassessments	32534	Unchanged
4a	4a	Fecal Coliform	36772	Unchanged
4a	4a	Nitrogen, Total	32534	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	Golf Courses (Y)	--	--	X	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	--	--	--
Fecal Coliform	Unspecified Urban Stormwater (Y)	--	--	X	--	--	--
Fecal Coliform	Yard Maintenance (Y)	--	--	X	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Green Pond (MA96-55) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

Green Pond (MA96-55): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1984 sq mi (93%). The approved shellfish growing area represents 0.0003 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC12.3	Green Pond North	Prohibited	0.06099	28.5%
SC12.4	Green Pond South	Conditionally Approved	0.13709	64.0%
SC8.0	East Falmouth Coastal	Approved	0.00032	0.1%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Green Pond (MA96-55) 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 Green Pond (MA96-55) so it is assessed as having Insufficient Information. The shellfish growing areas (0.1984 sq mi) in this AU are less than 100% approved (0.0003 sq mi, 0%), which means that the shellfish classification data data were too limited to assess the Primary Contact Recreation Use for Green Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Green Pond (MA96-55): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1984 sq mi (93%). The approved shellfish growing area represents 0.0003 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Green Pond (MA96-55) so it is assessed as having Insufficient Information. The shellfish growing areas (0.1984 sq mi) in this AU are less than 100% approved (0.0003 sq mi, 0%), which means that the shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Green Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Green Pond (MA96-55): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1984 sq mi (93%). The approved shellfish growing area represents 0.0003 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Grews Pond (MA96121)

Location:	Falmouth.
AU Type:	FRESHWATER LAKE
AU Size:	13 ACRES
Classification/Qualifier:	B

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

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Grews Pond (MA96121) is assessed as Not Supporting with a new impairment being added for PFAS in Fish Tissue. Fish toxics sampling was conducted at Grews Pond in Falmouth in May 2021 as part of a MDPH pilot study assessing 40 PFAS analytes in fish tissue samples collected on Cape Cod. MDPH issued a site-specific advisory for PFAS in Grews Pond in their October 2021 Freshwater Fish Consumption Advisory List and retained it in the January 2025 list. The public should refer to the most recent MDPH 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 2021)

Summary Statement
Fish toxics sampling was conducted at Grews Pond (MA96121) in Falmouth in May 2021 as part of a MDPH pilot study assessing 40 PFAS analytes in fish tissue samples collected on Cape Cod. Because of elevated PFAS measured in fish filets, MDPH issued site-specific fish consumption advisories for Grews Pond in their October 2021 Freshwater Fish Consumption Advisory List and retained them in the January 2025 list. The site-specific MDPH advisories are indicative of a Fish Consumption Use impairment for PFAS in Fish Tissue for Grews Pond (MA96121).

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Grews Pond (MA96121) 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 Grews Pond (MA96121) so it is assessed as having Insufficient Information. MDPH contractors conducted surface water sampling at Grews Pond in Falmouth in May 2021 as part of a MDPH pilot study assessing 40 PFAS analytes in surface water and fish tissue samples collected from waterbodies on Cape Cod. In this study, MDPH evaluated four PFAS compounds (PFHxS, PFNA, PFOA, PFOS) individually against a candidate Surface Water Action Level (cSWAL) of 23 ng/L (ppt). All four compounds had concentrations less than the cSWAL, with the maximum being 2.12 ng/L of PFOA.

Other Indicators

Summary of MDPH 2021 and 2022 PFAS in Water Column Data

Data Sources: (Nascarella 2021, MA DPH 2021)

MDPH contractors conducted surface water sampling at Grews Pond (MA96121) in Falmouth in May 2021 as part of a MDPH pilot study assessing 40 PFAS analytes in surface water and fish tissue samples collected from waterbodies on Cape Cod. In this study, MDPH evaluated four PFAS compounds (PFHxS, PFNA, PFOA, PFOS) individually against a candidate Surface Water Action Level (cSWAL) of 23 ng/L (ppt). All four compounds had concentrations less than the cSWAL, with the maximum being 2.12 ng/L of PFOA.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Grews Pond (MA96121) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Gull Pond (MA96123)

Location:	Wellfleet.
AU Type:	FRESHWATER LAKE
AU Size:	104 ACRES
Classification/Qualifier:	B: ORW

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 Gull Pond (MA96123) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
Too limited data are available to assess the Aesthetics Use for Gull Pond (MA96123), so it is assessed as having Insufficient Information. During the period 2015 through 2022, C-HAB postings for Gull Pond were reported to MDPH based on visual observations for 6 days in 2019 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. There are no other data available to assess the status of the Aesthetics Use for Gull Pond.

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

C-HAB Summary Statement
During the period 2015 through 2022, C-HAB postings for Gull Pond (MA96123) were reported to MDPH based on visual observations for 6 days in 2019. 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.

Cyanobacteria Harmful Algal Bloom (C-HAB) Data (2015-2022) Provided by MDPH (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

[* indicates a C-HAB posting of unknown duration]

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
Gull Pond	Wellfleet					6			

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 Gull Pond (MA96123) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information. During the period 2015 through 2022, C-HAB postings for Gull Pond were reported to MDPH based on visual observations for 6 days in 2019 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. There are no other data available to assess the status of the Primary Contact Recreation Use for Gull Pond.

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 Gull Pond (MA96123) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information. During the period 2015 through 2022, C-HAB postings for Gull Pond were reported to MDPH based on visual observations for 6 days in 2019 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. There are no other data available to assess the status of the Secondary Contact Recreation Use for Gull Pond.

Halls Creek (MA96-93)

Location:	Estuarine portion, from Marchant Mill Way, Barnstable to mouth at inlet Centerville Harbor, Barnstable.
AU Type:	ESTUARY
AU Size:	0.07 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	42356	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Halls Creek (MA96-93) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
There is insufficient information available to delist the existing Fecal Coliform impairment for Halls Creek (MA96-93), so the Shellfish Harvesting Use will continue to be assessed as Not Supporting. The total of all shellfish growing area classifications (MassGIS, 2024) within Hals Creek is 0.0591 sq mi (83%). The approved shellfish growing area represents 0.0021 sq mi (3%) and the prohibited shellfish growing area represents 0.057 sq mi (80%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as a combination of approved and prohibited.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC18.0	Barnstable South Coastal	Approved	0.00211	3.0%
SC26.0	Squaw Island	Prohibited	0.05704	80.2%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Halls Creek (MA96-93) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Halls Creek (MA96-93) continues to be assessed as Fully Supporting based on MDPH Beach Closure data. MDPH Beach Closure data for Seaside Park Improvement Association beach in Barnstable [Beach ID: 2601] indicated that this beach was rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (0.0591 sq mi) in this AU are less than 100% approved (0.0021 sq mi, 3%), which means that the shellfish classification data were too limited to assess Primary Contact Recreation Use for Halls Creek.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
2601	Seaside Park Improvement Association/ Barnstable	41.63146, -70.32070	41.63137, -70.31920	0%	0%	0%	0%	0%	0%	2%	0%	0%	0

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Halls Creek (MA96-93): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0591 sq mi (83%). The approved shellfish growing area represents 0.0021 sq mi (3%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Halls Creek (MA96-93) continues to be assessed as Fully Supporting based on MDPH Beach Closure data. MDPH Beach Closure data for Seaside Park Improvement Association beach in Barnstable [Beach ID: 2601], indicated that this beach was rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (0.0591 sq mi) in this AU are less than 100% approved (0.0021 sq mi, 3%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Halls Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Halls Creek (MA96-93): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0591 sq mi (83%). The approved shellfish growing area represents 0.0021 sq mi (3%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Hamblin Pond (MA96126)

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

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

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

Recommendations

2024/26 Recommendations
2024/26IR [Aesthetics, Low] Hamblin Pond (MA96126) is currently impaired for Harmful Algal Blooms. Since aesthetics conditions appeared to have been improving (no beach postings due to C-HABs reported to MDPH in 2015-2022) algal blooms should continue to be tracked in Hamblin Pond and reported to MDPH, as well as sample analysis for cyanobacteria cell counts, in case the impairment can be removed at a later date. This recommendation also applies to the Recreational Uses. This is a low priority

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Hamblin Pond (MA96126) continues to be assessed as Not Supporting and the prior Mercury in Fish Tissue impairment is being carried forward. MDPH included a site-specific advisory for Hamblin Pond in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent MDPH 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 Hamblin Pond (MA96126) continues to be assessed as Not Supporting, with the prior Harmful Algal Blooms impairment being carried forward. No new data are available to evaluate the Aesthetics Use for Hamblin Pond. Considering no C-HAB postings have been reported to MDPH since 2014 (when a bloom lasting 22 days was reported) recommendations will be made to conduct follow-up monitoring to determine if the Harmful Algal Blooms impairment could be removed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Hamblin Pond (MA96126) are available, so the Primary Contact Recreation Use continues to be assessed as Not Supporting, with the prior Harmful Algal Blooms impairment being carried forward. Considering no C-HAB postings have been reported to MDPH since 2014 (when a bloom lasting 22 days was reported) recommendations will be made to conduct follow-up monitoring to determine if the Harmful Algal Blooms impairment could be removed.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Hamblin Pond (MA96126) continues to be assessed as Not Supporting, with the prior Harmful Algal Blooms impairment being carried forward. MassDEP staff collected *E. coli* bacteria samples in Hamblin Pond at W1981 [public boat launch on southeastern shore, West of Rt. 149 near Marstons Mills Cemetery, Barnstable] from May-Oct 2009 (n=6). Analysis of this historic single year limited frequency *E. coli* dataset indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 13 CFU/100ml. Historic *E. coli* data from W1981 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. Considering no C-HAB postings have been reported to MDPH since 2014 (when a bloom lasting 22 days was reported) recommendations will be made to conduct follow-up monitoring to determine if the Harmful Algal Blooms impairment could be removed.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1981	MassDEP	Water Quality	Hamblin Pond	[public boat launch on southeastern shore, west of Route 149 near Marstons Mills Cemetery, Barnstable]	41.663344	-70.410505

Bacteria Data

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

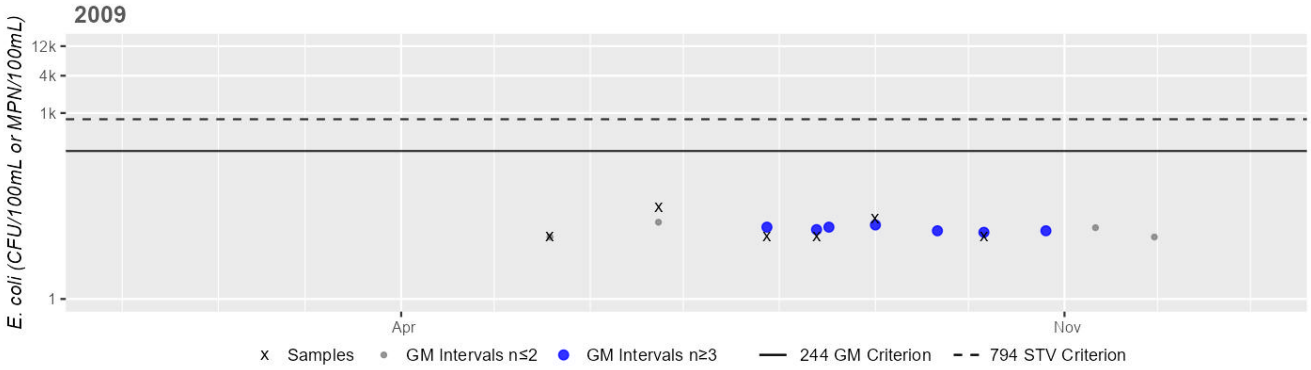
(MassDEP Undated 9) (MassDEP Undated 4)

[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
W1981	MassDEP	E. coli	05/19/09	10/06/09	6	10	30	13

Station MASSDEP_W1981 - Escherichia coli

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



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

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

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

Hamblin Pond (MA96-58)

Location:	From inlet of Red Brook, Falmouth/Mashpee to outlet of Little River, Mashpee and inlet/outlet of Waquoit Bay west of Meadow Neck Road, Falmouth/Mashpee.
AU Type:	ESTUARY
AU Size:	0.19 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO (also tributary to SA B Shellfishing ORW)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Estuarine Bioassessments	R1_MA_2020_08	Unchanged
4a	4a	Fecal Coliform	36771	Unchanged
4a	4a	Nitrogen, Total	R1_MA_2020_08	Unchanged
4a	4a	Nutrient/Eutrophication Biological Indicators	R1_MA_2020_08	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Hamblin Pond (MA96-58) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
There is insufficient information available to delist the existing Fecal Coliform impairment for Hamblin Pond (MA96-58), so the Shellfish Harvesting Use will continue to be assessed as Not Supporting. The total of all shellfish growing area classifications (MassGIS, 2024) within Hamblin Pond is 0.1836 sq mi (98%). The approved shellfish growing area represents 0.1613 sq mi (86%) and the prohibited shellfish growing area represents 0.0223 sq mi (12%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as a combination of approved and prohibited.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC15.0	Waquoit Bay	Approved	0.00008	0.0%
SC16.0	Little River and Hamblin Pond	Approved	0.16120	85.8%
SC16.2	Red Brook	Prohibited	0.02235	11.9%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Hamblin Pond (MA96-58) 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 Hamblin Pond (MA96-58) so it is assessed as having Insufficient Information. The shellfish growing areas (0.1836 sq mi) in this AU are less than 100% approved (0.1613 sq mi, 86%), which means that the shellfish classification data were too limited to assess Primary Contact Recreation Use for Hamblin Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Hamblin Pond (MA96-58): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1836 sq mi (98%). The approved shellfish growing area represents 0.1613 sq mi (86%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Hamblin Pond (MA96-58) so it is assessed as having Insufficient Information. The shellfish growing areas (0.1836 sq mi) in this AU are less than 100% approved (0.1613 sq mi, 86%), which means that the shellfish classification data were too limited to assess Secondary Contact Recreation Use for Hamblin Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Hamblin Pond (MA96-58): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1836 sq mi (98%). The approved shellfish growing area represents 0.1613 sq mi (86%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Hamblins Brook (MA96-133)

Location:	Headwaters, outlet Miss Thatchers Pond, Yarmouth to mouth at inlet Mill Pond, Yarmouth.
AU Type:	RIVER
AU Size:	0.6 MILES
Classification/Qualifier:	B

No usable data were available for Hamblins Brook (MA96-133) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Habitat Modification - other than Hydromodification (Y)	X	--	--	--	--

Harding Beach Pond (MA96-43)

Location:	locally known as Sulfur Springs (northeast of Bucks Creek), Chatham.
AU Type:	ESTUARY
AU Size:	0.07 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	36772	Unchanged
4a	4a	Nitrogen, Total	36229	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--
Nitrogen, Total	Agriculture (Y)	X	--	--	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Harding Beach Pond (MA96-43) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Harding Beach Pond (MA96-43): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0638 sq mi (95%). The approved shellfish growing area represents 0 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC46.0	Bucks Creek	Conditionally Approved	0.06376	95.0%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Harding Beach Pond (MA96-43) 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 Harding Beach Pond (MA96-43) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0638 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that the shellfish classification data were too limited to assess the Primary Contact Recreation Use for Harding Beach Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Harding Beach Pond (MA96-43): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0638 sq mi (95%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Harding Beach Pond (MA96-43) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0638 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Harding Beach Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Harding Beach Pond (MA96-43): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0638 sq mi (95%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Hatches Creek (MA96-124)

Location:	Estuarine portion west of West Street, at the Wellfleet/Eastham border to mouth at confluence with Wellfleet Harbor, Wellfleet.
AU Type:	ESTUARY
AU Size:	0.02 SQUARE MILES
Classification/Qualifier:	SA: SFO

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 Hatches Creek (MA96-124) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
Hatches Creek (MA96-124): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0103 sq mi (61%). The approved shellfish growing area represents 0 sq mi (0%) and the prohibited shellfish growing area represents 0.0103 sq mi (61%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as entirely prohibited.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
CCB10.0	Hatches Creek	Prohibited	0.01027	61.1%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Hatches Creek (MA96-124) 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 Hatches Creek (MA96-124) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0103 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that the shellfish classification data were too limited to assess the Primary Contact Recreation Use for Hatches Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Hatches Creek (MA96-124): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0103 sq mi (61%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Hatches Creek (MA96-124) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0103 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that the shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Hatches Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

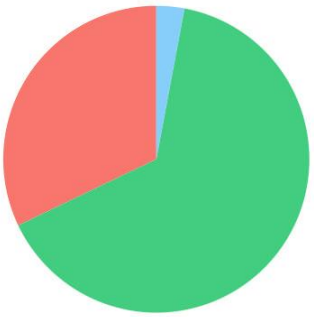
Summary
Hatches Creek (MA96-124): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0103 sq mi (61%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Hawes Run (MA96-101)

Location:	Headwaters outlet small unnamed pond west of Higgins Crowell Road, Yarmouth to mouth at inlet Mill Pond, Yarmouth.
AU Type:	RIVER
AU Size:	1.7 MILES
Classification/Qualifier:	B

Hawes Run (MA96-101)

Watershed Area: 4.04 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	4.04	4.04	0.92	0.92
Agriculture	0%	0%	0%	0%
Developed	32.1%	32.1%	13.7%	13.7%
Natural	64.9%	64.9%	76.6%	76.6%
Wetland	3%	3%	9.8%	9.8%
Impervious	17.1%	17.1%	7%	7%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Debris*)	--	Unchanged
5	5	Trash	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Debris*)	Illegal Dumps or Other Inappropriate Waste Disposal (Y)	--	--	X	X	X
Trash	Illegal Dumps or Other Inappropriate Waste Disposal (Y)	--	--	X	X	X

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Hawes Run (MA96-101) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Hawes Run (MA96-101) continues to be assessed as Not Supporting, with the prior Trash and Debris impairments being carried forward. No new data are available to evaluate the Aesthetics Use for Hawes Run.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Hawes Run (MA96-101) are available, so the Primary Contact Recreation Use continues to be assessed as Not Supporting. The prior Debris and Trash 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 Hawes Run (MA96-101) continues to be assessed as Not Supporting, with the prior Debris and Trash impairments (from the Aesthetics Use) being carried forward. MassDEP staff collected *E. coli* bacteria samples at the downstream end of Hawes Run at station W1925 [~900 ft downstream from Buck Island Rd, Yarmouth] from May-Oct 2009 (n=6). Analysis of the historic single year limited frequency dataset for this station indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 50 CFU/100ml, which meets 2024 CALM guidance. However, 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
W1925	MassDEP	Water Quality	Hawes Run	[approximately 900 feet downstream from Buck Island Road, Yarmouth]	41.661686	-70.261078

Bacteria Data

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

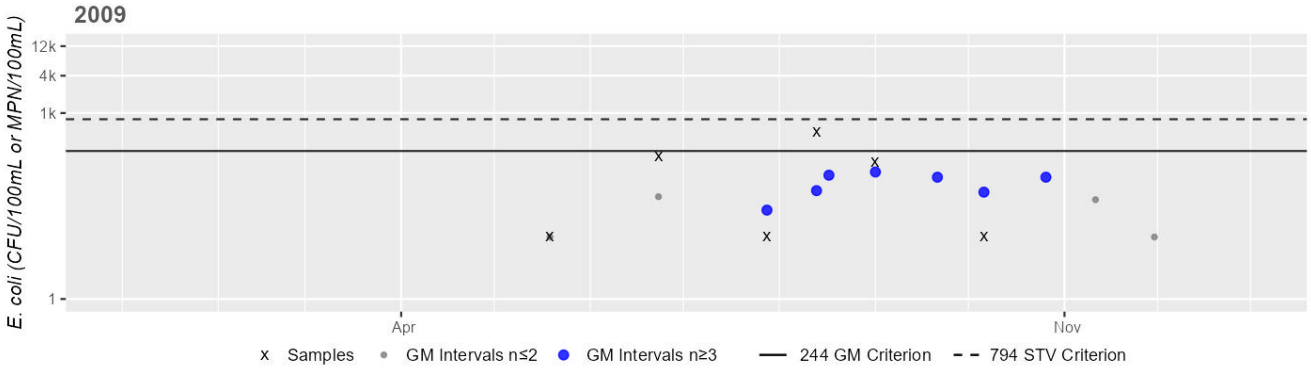
(MassDEP Undated 9) (MassDEP Undated 4)

[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
W1925	MassDEP	E. coli	05/19/09	10/06/09	6	10	490	50

Station MASSDEP_W1925 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	50
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Herring Pond (MA96133)

Location:	Eastham.
AU Type:	FRESHWATER LAKE
AU Size:	42 ACRES
Classification/Qualifier:	B: ORW, WWF

No usable data were available for Herring Pond (MA96133) 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

Herring Pond (MA96134)

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

No usable data were available for Herring Pond (MA96134) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

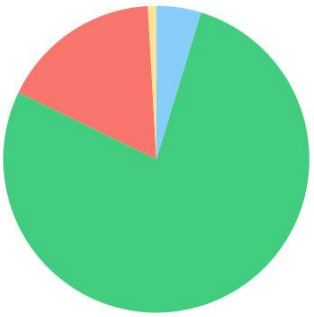
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Herring River (MA96-106)

Location:	Headwaters, outlet Hinckleys Pond, Harwich to inlet Herring River Reservoir, Harwich.
AU Type:	RIVER
AU Size:	2.5 MILES
Classification/Qualifier:	B

Herring River (MA96-106)

Watershed Area: 10.35 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	10.35	3.41	4.01	1.47
Agriculture	0.9%	2%	2.1%	4.6%
Developed	17%	13.7%	8.2%	8.8%
Natural	77.4%	74.8%	80.4%	69.9%
Wetland	4.7%	9.4%	9.2%	16.7%
Impervious	8.7%	7.4%	4.3%	4.8%

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 Herring River (MA96-106) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Herring River (MA96-106) is assessed as Fully Supporting based on the general lack of objectionable conditions noted by MassDEP staff during the summer of 2013. MassDEP staff recorded aesthetics observations as part of the MAP2 wadeable streams monitoring project in summer 2013, halfway down this Herring River AU ~1400 feet upstream/north of Route 6 (Mid Cape Highway), Harwich (W2392, n=8). 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
W2392	MassDEP	Water Quality	Herring River	[approximately 1400 feet upstream/north of Route 6 (Mid Cape Highway), Harwich]	41.702893	-70.104775

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2392	2013	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2392 on Herring River (MA96-106) during 8 site visits between May 2013 and Sep 2013. 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 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2392	2013	8	8	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2392	Herring River	2013	Aesthetics Impaired?	No	7	8
W2392	Herring River	2013	Aesthetics Impaired?	NR	1	8
W2392	Herring River	2013	Aquatic Plant Density, Overall	None	3	8
W2392	Herring River	2013	Aquatic Plant Density, Overall	Sparse	5	8
W2392	Herring River	2013	Color	Light Yellow/Tan	2	8
W2392	Herring River	2013	Color	None	6	8
W2392	Herring River	2013	Objectionable Deposits	No	7	8
W2392	Herring River	2013	Objectionable Deposits	Yes	1	8
W2392	Herring River	2013	Odor	None	8	8
W2392	Herring River	2013	Periphyton Density, Filamentous	None	6	8
W2392	Herring River	2013	Periphyton Density, Filamentous	Sparse	2	8
W2392	Herring River	2013	Periphyton Density, Film	None	7	8
W2392	Herring River	2013	Periphyton Density, Film	Sparse	1	8
W2392	Herring River	2013	Scum	No	7	8
W2392	Herring River	2013	Scum	Yes	1	8
W2392	Herring River	2013	Turbidity	None	8	8

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for the Herring River (MA96-106) continues to be assessed as Fully Supporting based on bacteria data collected at one station in 2013. MassDEP staff collected *E. coli* bacteria samples nearly halfway down this Herring River AU at station W2392 [~1400 ft upstream/N of Rt. 6 (Mid Cape Highway), Harwich] from May-Sep 2013 (n=5). Analysis of the single year limited frequency dataset from this station indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 23 CFU/100ml, which meets 2024 CALM guidance.

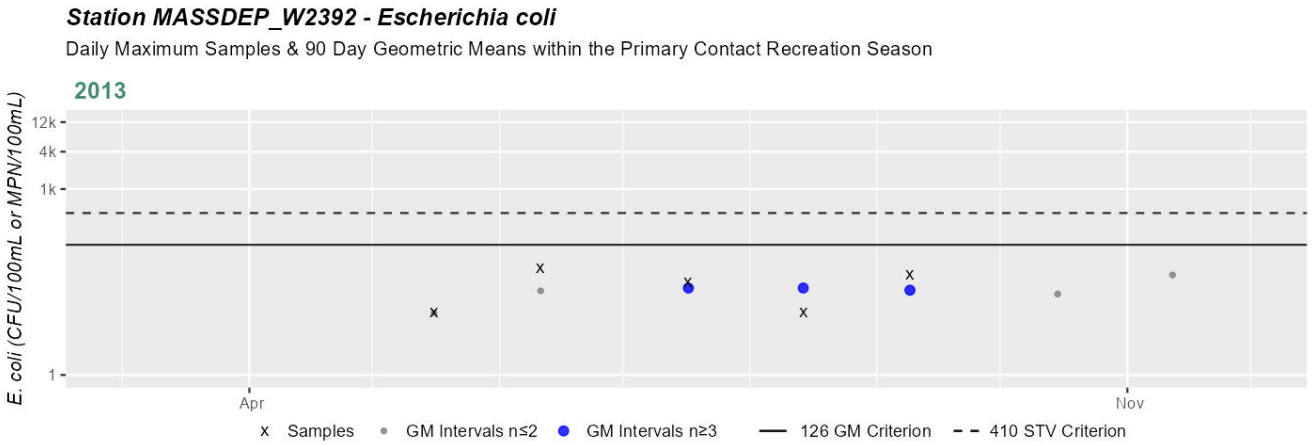
Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2392	MassDEP	Water Quality	Herring River	[approximately 1400 feet upstream/north of Route 6 (Mid Cape Highway), Harwich]	41.702893	-70.104775

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)
(MassDEP Undated 9) (MassDEP Undated 5)
[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
W2392	MassDEP	E. coli	05/16/13	09/09/13	5	10	52	23



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

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

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

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for the Herring River (MA96-106) continues to be assessed as Fully Supporting based on a re-evaluation of bacteria data collected at one station in 2013. MassDEP staff collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in this Herring River AU from 2009-2013 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: nearly halfway down the AU at W2392 [~1400 ft upstream/N of Rt. 6 (Mid Cape Highway), Harwich] from May-Sep 2013 (n=5) and three-quarters of the way down at W1920 [Main St, (N Harwich) Harwich] from May-Oct 2009 (n=6). Since bacteria data from the historic IR window are indicative of good water quality conditions, only the analysis from the current IR window will be summarized here. Analysis of the single year limited frequency *E. coli* dataset from W2392 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 23 CFU/100ml, which meets 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1920	MassDEP	Water Quality	Herring River	[Main Street, (North Harwich) Harwich]	41.695160	-70.115319
W2392	MassDEP	Water Quality	Herring River	[approximately 1400 feet upstream/north of Route 6 (Mid Cape Highway), Harwich]	41.702893	-70.104775

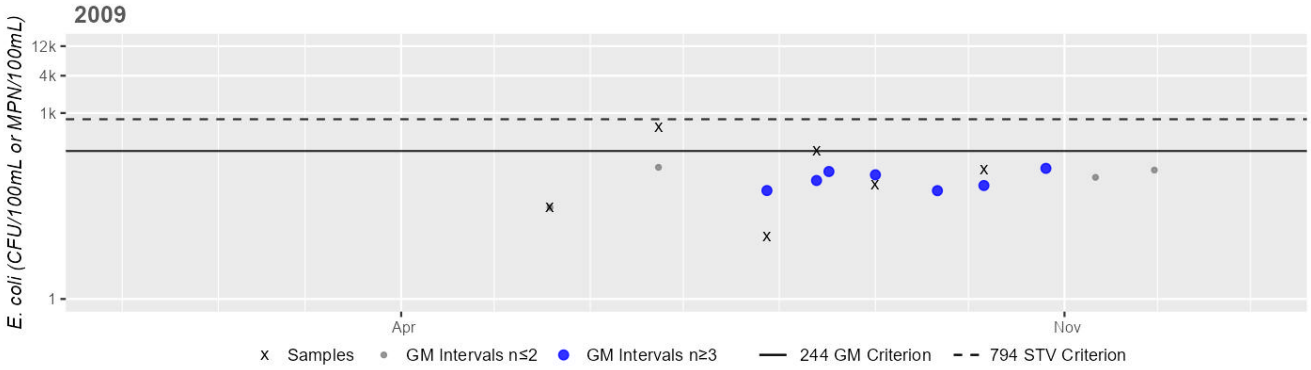
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(MassDEP Undated 9) (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
W1920	MassDEP	E. coli	05/19/09	10/06/09	6	10	590	84
W2392	MassDEP	E. coli	05/16/13	09/09/13	5	10	52	23

Station MASSDEP_W1920 - Escherichia coli

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



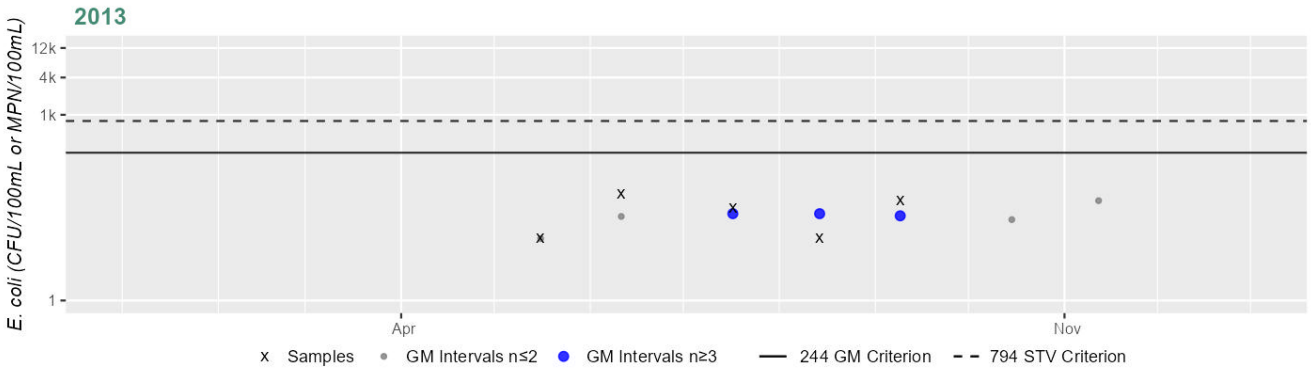
Variable*	Result
Samples	6
SeasGM	84
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Station MASSDEP_W2392 - 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
Current (2011-2022)
0%

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

Herring River (MA96-22)

Location:	From outlet Herring River Reservoir (at North Harwich Reservoir Dam NATID: MA02423) west of Bells Neck Road, Harwich to mouth at inlet Nantucket Sound, Harwich.
AU Type:	ESTUARY
AU Size:	0.07 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Estuarine Bioassessments	65960	Unchanged
4a	4a	Fecal Coliform	36772	Unchanged
4a	4a	Nitrogen, Total	65960	Unchanged
4a	4a	Nutrient/Eutrophication Biological Indicators	65960	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Agriculture (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Animal Holding/Management Areas (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	Marina/Boating Pumpout Releases (Y)	--	--	X	--	--	--
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--
Nitrogen, Total	Agriculture (Y)	X	--	--	--	--	--
Nitrogen, Total	Animal Holding/Management Areas (Y)	X	--	--	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Agriculture (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Animal Holding/Management Areas (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nutrient/Eutrophication Biological Indicators	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Herring River (MA96-22) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Herring River (MA96-22): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0712 sq mi (96%). The approved shellfish growing area represents 0 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC37.0	Harwich South Coastal	Approved	0.00002	0.0%
SC38.1	Herring River South	Conditionally Approved	0.03427	46.0%
SC38.2	Herring River North	Prohibited	0.03692	49.6%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Herring River (MA96-22) 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 the Herring River (MA96-22) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0712 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that the shellfish classification data were too limited to assess the Primary Contact Recreation Use for Herring River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Herring River (MA96-22): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0712 sq mi (96%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
No bacteria data are available to assess the Secondary Contact Recreation Use for the Herring River (MA96-22) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0712 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that the shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Herring River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Herring River (MA96-22): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0712 sq mi (96%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Herring River (MA96-33)

Location:	South of High Toss Road, Wellfleet to mouth at inlet Wellfleet Harbor (at an imaginary line drawn due north from the eastern tip of Great Island to the opposite shore), Wellfleet.
AU Type:	ESTUARY
AU Size:	0.4 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Fish Passage Barrier*)	--	Unchanged
5	5	(Flow Regime Modification*)	--	Unchanged
5	5	Aluminum	--	Unchanged
5	5	Estuarine Bioassessments	R1_MA_2024_01	Changed
5	5	Fecal Coliform	36772	Unchanged
5	5	pH, Low	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
(Fish Passage Barrier*)	Hydrostructure Impacts on Fish Passage (Y)	X	--	--	--	--	--
(Flow Regime Modification*)	Changes in Tidal Circulation/Flushing (Y)	X	--	--	--	--	--
(Flow Regime Modification*)	Hydrostructure Impacts on Fish Passage (Y)	X	--	--	--	--	--
Aluminum	Changes in Tidal Circulation/Flushing (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Changes in Tidal Circulation/Flushing (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Source Unknown (N)	X	--	--	--	--	--
Fecal Coliform	Agriculture (Y)	--	--	X	--	--	--
Fecal Coliform	Marina/Boating Pumpout Releases (Y)	--	--	X	--	--	--
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--
pH, Low	Changes in Tidal Circulation/Flushing (Y)	X	--	--	--	--	--

Supporting Information for Removed Impairments

2022 Removed Impairment	Removal Reason	Removal Comment
Estuarine Bioassessments	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: Wellfleet Harbor Embayment System TMDL for Total Nitrogen (Report CN 447.1, approved 9/29/2023, ATTAINS Action ID: R1_MA_2024_01)

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 Herring River (MA96-33) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Herring River (MA96-33): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.3642 sq mi (92%). The approved shellfish growing area represents 0.0001 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
CCB11.0	Wellfleet Harbor	Approved	0.00008	0.0%
CCB12.1	Herring River	Conditionally Approved	0.26077	65.8%
CCB12.4	Herring River	Prohibited	0.10331	26.1%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Herring River (MA96-33) 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 the Herring River (MA96-33) so it is assessed as having Insufficient Information. The shellfish growing areas (0.3642 sq mi) in this AU are less than 100% approved (0.0001 sq mi, 0%), which means that the shellfish classification data were too limited to assess the Primary Contact Recreation Use for Herring River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Herring River (MA96-33): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.3642 sq mi (92%). The approved shellfish growing area represents 0.0001 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
No bacteria data are available to assess the Secondary Contact Recreation Use for the Herring River (MA96-33) so it is assessed as having Insufficient Information. The shellfish growing areas (0.3642 sq mi) in this AU are less than 100% approved (0.0001 sq mi, 0%), which means that the shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Herring River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Herring River (MA96-33): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.3642 sq mi (92%). The approved shellfish growing area represents 0.0001 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Herring River (MA96-67)

Location:	Headwaters outlet Herring Pond, Wellfleet to south of High Toss Road, Wellfleet.
AU Type:	RIVER
AU Size:	3.6 MILES
Classification/Qualifier:	B: ORW

Herring River (MA96-67)

Watershed Area: 9.97 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	9.97	9.07	3.04	2.88
Agriculture	0.1%	0.1%	0.1%	0.2%
Developed	7.9%	8.3%	5.1%	5.3%
Natural	74.4%	72.9%	49.6%	47.8%
Wetland	17.5%	18.7%	45.2%	46.8%
Impervious	4.1%	4.4%	2.8%	2.9%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Fish Kill(s)*)	--	Unchanged
5	5	(Fish Passage Barrier*)	--	Unchanged
5	5	(Flow Regime Modification*)	--	Unchanged
5	5	Aluminum	--	Unchanged
5	5	pH, Low	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Kill(s)*)	Changes in Tidal Circulation/Flushing (Y)	X	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Kill(s)*)	Hydrostructure Impacts on Fish Passage (Y)	X	--	--	--	--
(Fish Passage Barrier*)	Hydrostructure Impacts on Fish Passage (Y)	X	--	--	--	--
(Flow Regime Modification*)	Changes in Tidal Circulation/Flushing (Y)	X	--	--	--	--
(Flow Regime Modification*)	Hydrostructure Impacts on Fish Passage (Y)	X	--	--	--	--
Aluminum	Changes in Tidal Circulation/Flushing (Y)	X	--	--	--	--
pH, Low	Changes in Tidal Circulation/Flushing (Y)	X	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Herring River (MA96-67) 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 Herring River (MA96-67), so it is Not Assessed. Since the prior Alert identified for High Phosphorus concentrations was redundantly duplicated across multiple uses for this waterbody, it is being removed from the Aesthetics Use but will continue to be maintained under the Aquatic Life Use.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for the Herring River (MA96-67) are available, so the Primary Contact Recreation Use is Not Assessed. Since the prior Alert identified for High Phosphorus concentrations was redundantly duplicated across multiple uses for this waterbody, it is being removed from the Primary Contact Recreation Use but will continue to be maintained under the Aquatic Life 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 Herring River (MA96-67) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. Since the prior Alert identified for High Phosphorus concentrations was redundantly duplicated across multiple uses for this waterbody, it is being removed from the Secondary Contact Recreation Use but will continue to be maintained under the Aquatic Life Use. MassDEP staff collected *E. coli* bacteria samples in this Herring River AU in 2009 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: a quarter of the way down the AU at station W1915 [Rt. 6, Wellfleet] from May-Oct 2009 (n=6)] and three-quarters of the way down at W1916 [Bound Brook Island Rd, Wellfleet] from May-Oct 2009 (n=6). Analysis of the historic single year limited frequency *E. coli* datasets from W1915 and W1916 indicated 0% and 14% of intervals respectively had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV and the overall GM's were 72 and 147 CFU/100ml. Historic *E. coli* data from W1915 and W1916 meet 2024 CALM guidance, however 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
W1915	MassDEP	Water Quality	Herring River	[Route 6, Wellfleet]	41.959394	-70.029970
W1916	MassDEP	Water Quality	Herring River	[Bound Brook Island Road, Wellfleet]	41.953519	-70.057176

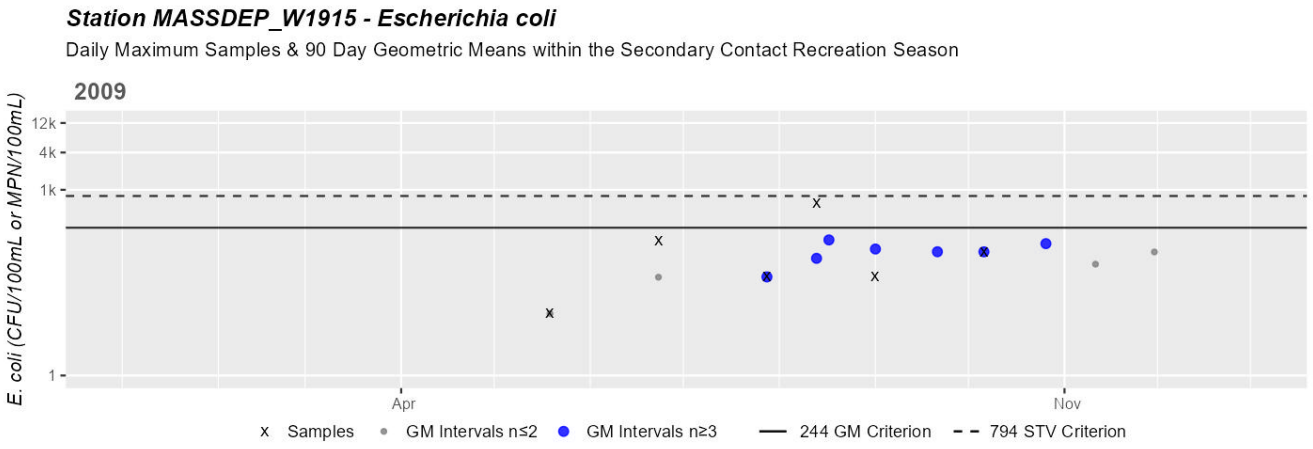
Bacteria Data

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

(MassDEP Undated 9) (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
W1915	MassDEP	E. coli	05/19/09	10/06/09	6	10	620	72
W1916	MassDEP	E. coli	05/19/09	10/06/09	6	60	320	147



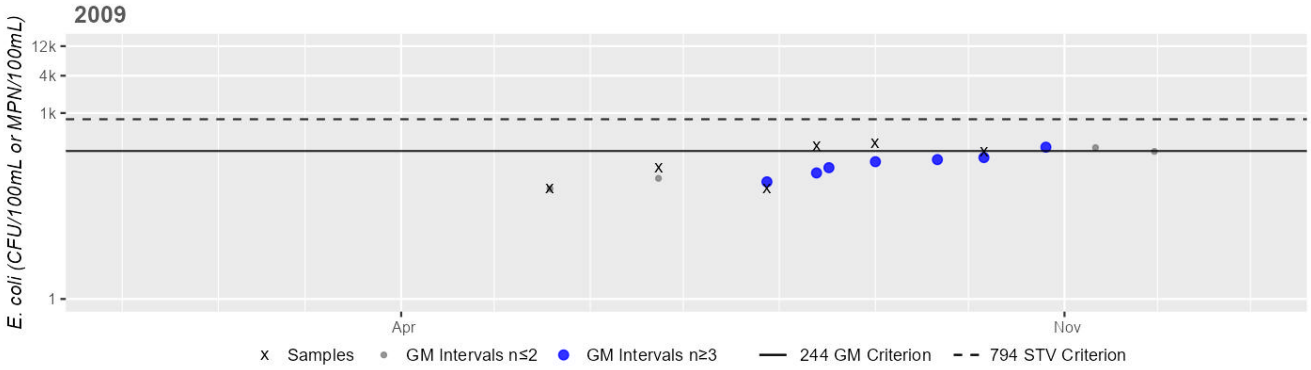
Variable*	Result
Samples	6
SeasGM	72
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Station MASSDEP_W1916 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	147
#GMI	7
#GMI Ex	1
%GMI Ex	14%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
14%

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

Hinckleys Pond (MA96140)

Location:	Harwich.
AU Type:	FRESHWATER LAKE
AU Size:	164 ACRES
Classification/Qualifier:	B

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

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

Recommendations

2024/26 Recommendations
2024/26IR [Harmful Algal Blooms, Low] Follow-up monitoring should be conducted in Hinckleys Pond (MA96140) 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. An Alert was previously identified for Harmful Algal Blooms due to a 17 day posting in 2009 and more recently a 29 day bloom in 2019 continues to cause concern. This is of low priority.

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
There is Insufficient Information to assess the Fish Consumption Use for Hinckleys Pond (MA96140). Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in Hinckleys Pond at station F0460 in 2018, as part of the probabilistic lake surveys (MAP2). However, no site-specific fish consumption advisory was issued by MDPH.

Fish Consumption Advisories

Summary of Fish Toxics Sampling and Resulting Fish Consumption Advisories (MassDEP Undated 7)

Summary Statement
Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in Hinckleys Pond (MA96140) at station F0460 in 2018 as part of the probabilistic lake surveys (MAP2). No site-specific fish consumption advisory was issued by MDPH.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	YES

2024/26 Use Attainment Summary

The Aesthetics Use for Hinckleys Pond (MA96140) is assessed as Fully Supporting based on the general lack of objectionable conditions noted by MassDEP staff during the summer of 2018. The prior Alert identified for Harmful Algal Blooms is being carried forward since C-HAB postings (blooms of >15 days in duration) were reported to MDPH in 2019. MassDEP staff recorded aesthetics observations as part of the MAP2 lake monitoring project in summer 2018 at two stations in Harwich, for Hinckley's Pond; at the eastern edge of the pond ~350 feet from Rt. 124 intersection with rail trail, Harwich (W2800/MAP2L-296S, n=5) and at the deep hole index site (W1237/MAP2L-296)7, n=3). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, or littoral zone duckweed recorded in ten shoreline plots (n=1), though field staff noted green water color on two occasions at the deep hole index site. During the MAP2 macrophyte mapping survey in Jul 2018 (n=1), less than 25% (0.2%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%. However, during the period 2015 through 2022, C-HAB postings for Hinckleys Pond were reported to MDPH based on visual observations for 29 days in 2019 (although 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 the C-HAB postings in 2019 are reflective of the existing Alert for Harmful Algal Blooms in Hinkley's Pond and a recommendation for follow-up sampling will be made.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1237	MassDEP	Water Quality	Hinckleys Pond	[deep hole, Harwich]	41.713776	-70.090629
W2800	MassDEP	Water Quality	Hinckleys Pond	[eastern edge of pond approximately 350 feet from Route 124 intersection with rail trail, Harwich]	41.711748	-70.082539

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W1237	2018	3	Aesthetic observations were made by MassDEP field sampling crews at Station W1237 (MAP2L-296) on Hinckleys Pond (MA96140) during 3 site visits between Jun 2018 and Sep 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted green water color (n=2). During the MAP2 macrophyte mapping survey (n=1) in Jul 2018, less than 25% (0.2%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%.

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2800	2018	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2800 (MAP2L-296S) on Hinckleys Pond (MA96140) during 5 site visits between May 2018 and Sep 2018. 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 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W1237	Hinckleys Pond	2018	Aesthetics Impaired?	No	3	3
W1237	Hinckleys Pond	2018	Aquatic Plant Density, Overall	None	3	3
W1237	Hinckleys Pond	2018	Color	Greenish	2	3
W1237	Hinckleys Pond	2018	Color	None	1	3
W1237	Hinckleys Pond	2018	Objectionable Deposits	No	3	3
W1237	Hinckleys Pond	2018	Odor	None	3	3
W1237	Hinckleys Pond	2018	Scum	No	3	3
W1237	Hinckleys Pond	2018	Turbidity	None	1	3
W1237	Hinckleys Pond	2018	Turbidity	Slightly Turbid	2	3
W2800	Hinckleys Pond	2018	Aesthetics Impaired?	No	5	5
W2800	Hinckleys Pond	2018	Color	None	5	5
W2800	Hinckleys Pond	2018	Objectionable Deposits	No	5	5
W2800	Hinckleys Pond	2018	Odor	None	5	5
W2800	Hinckleys Pond	2018	Scum	No	5	5
W2800	Hinckleys Pond	2018	Turbidity	None	4	5
W2800	Hinckleys Pond	2018	Turbidity	Slightly Turbid	1	5

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

C-HAB Summary Statement
During the period 2015 through 2022, C-HAB postings for Hinckleys Pond (MA96140) were reported to MDPH based on visual observations for 29 days in 2019. 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 2)

[* indicates a C-HAB posting of unknown duration]

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
Hinckleys Pond	Harwich					29			

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	YES

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Hinckleys Pond (MA96140) continues to be assessed as Fully Supporting based on bacteria data collected by MassDEP staff at one station in 2018. The prior Alert identified for Harmful Algal Blooms is being carried forward since C-HAB postings (blooms of >15 days in duration) were reported to MDPH in 2019. During the period 2015 through 2022, C-HAB postings for Hinckleys Pond were reported to MDPH based on visual observations for 29 days in 2019 (although 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 the C-HAB postings in 2019 are reflective of the existing Alert for Harmful Algal Blooms in Hinkleys Pond and a recommendation for follow-up sampling will be made. In 2018 MassDEP staff collected Secchi depth and cyanobacteria cell count data at W1237 [MAP2L-296, Index-deep hole] as well as cyanobacteria cell count and cyanotoxins data at W2800 [MAP2L-296S, Shoreline station at eastern edge of pond ~350 ft from Rt. 124 intersection with rail trail, Harwich]. At station W1237 (station depth=8.3 m) the Secchi depth measurements ranged from 2.3-2.5 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 W2800 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. In addition MassDEP staff collected *E. coli* bacteria samples at station W2800 from May-Sep 2018 (n=5). Analysis of the single year limited frequency dataset from this station indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 6 CFU/100ml, which meets 2024 CALM guidance.

Monitoring Stations

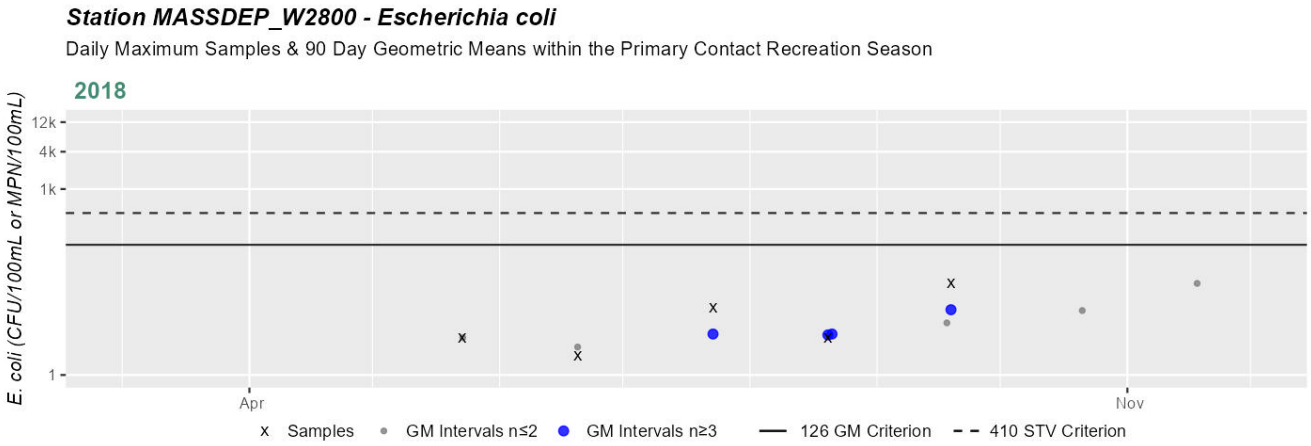
Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1237	MassDEP	Water Quality	Hinckleys Pond	[deep hole, Harwich]	41.713776	-70.090629

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2800	MassDEP	Water Quality	Hinckleys Pond	[eastern edge of pond approximately 350 feet from Route 124 intersection with rail trail, Harwich]	41.711748	-70.082539

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)
(MassDEP Undated 9) (MassDEP Undated 5)
[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
W2800	MassDEP	E. coli	05/23/18	09/19/18	5	2	30	6



Variable*	Result
Samples	5
SeasGM	6
#GMI	4
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Other Indicators

Summary Statement for 2011-2022 Cyanobacteria Cell Count and Cyanotoxin Data, and Secchi Depth Data
(MassDEP Undated 9) (MassDEP Undated 5)

Data Year(s)	Summary
2018	In Hinckleys Pond (MA96140) in 2018, MassDEP collected Secchi and cyanobacteria cell count data at W1237 [MAP2L-296, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at W2800 [MAP2L-296S, Shoreline]. At station W1237 (station depth=8.3 m) the Secchi depth measurements ranged from 2.3-2.5 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 W2800 (n=6) 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 9) (MassDEP Undated 5)

Station Code	Waterbody	Station Type	Data Year	Sample Count	Count >70,000 cells/mL	Exceedance Date(s)
W1237	Hinckleys Pond	Index	2018	3	0	NA
W2800	Hinckleys Pond	Shoreline	2018	3	0	NA

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	YES

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Hinckleys Pond (MA96140) continues to be assessed as Fully Supporting based on a re-evaluation of bacteria data collected by MassDEP staff at one station in 2018. The prior Alert identified for Harmful Algal Blooms is being carried forward since C-HAB postings (blooms of >15 days in duration) were reported to MDPH in 2019. During the period 2015 through 2022, C-HAB postings for Hinckleys Pond were reported to MDPH based on visual observations for 29 days in 2019 (although 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 the C-HAB postings in 2019 are reflective of the existing Alert for Harmful Algal Blooms in Hinkleys Pond and a recommendation for follow-up sampling will be made. In 2018 MassDEP staff collected cyanobacteria cell count data at W1237 [MAP2L-296, Index-deep hole] and cyanobacteria cell count and cyanotoxins data at W2800 [MAP2L-296S, Shoreline at eastern edge of pond ~350 ft from Rt. 124 intersection with rail trail, Harwich]. The cyanobacteria cell count did not exceed 70,000 cells/ml in any of the water samples in 2018 (n=6). Analysis of microcystins and cylindrospermopsin samples from W2800 in 2018 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. MassDEP staff also collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in Hinckleys Pond from 2009-2018 at 2 stations. Samples were collected from the following stations/sample years: at W1980 [near Edith Grove Rd, at outlet on southwestern shore, Harwich] from May-Oct 2009 (n=6) and at station W2800 from May-Sep 2018 (n=5). Since bacteria data from the historic IR window are all indicative of good water quality conditions, only the analysis from the current IR window will be summarized here. Analysis of the single year limited frequency *E. coli* dataset from W2800 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 6 CFU/100ml. *E. coli* data collected in both the historic & the current IR window for Hinckleys Pond are all indicative of good water quality conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1980	MassDEP	Water Quality	Hinckleys Pond	[near Edith Grove Road, at outlet on southwestern shore, Harwich]	41.712086	-70.094584
W2800	MassDEP	Water Quality	Hinckleys Pond	[eastern edge of pond approximately 350 feet from Route 124 intersection with rail trail, Harwich]	41.711748	-70.082539

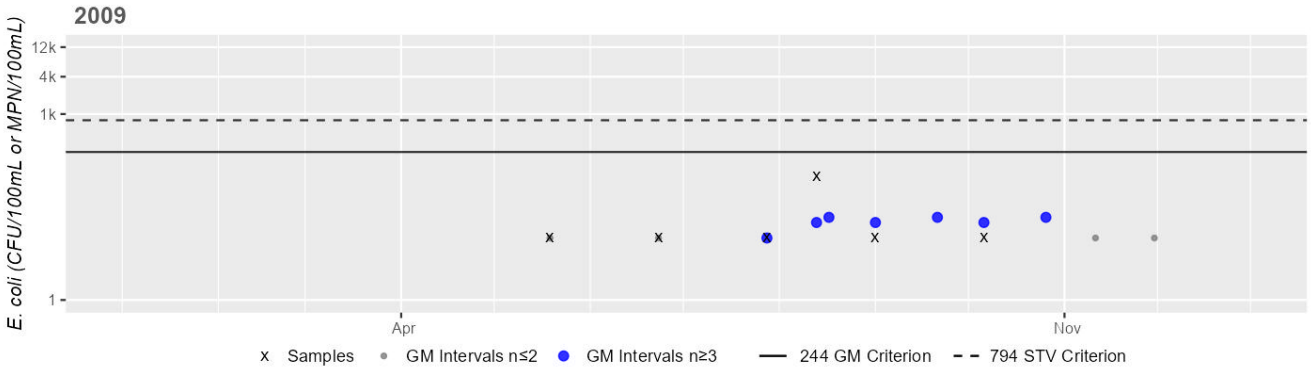
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(MassDEP Undated 9) (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
W1980	MassDEP	E. coli	05/19/09	10/06/09	6	10	100	14
W2800	MassDEP	E. coli	05/23/18	09/19/18	5	2	30	6

Station MASSDEP_W1980 - Escherichia coli

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



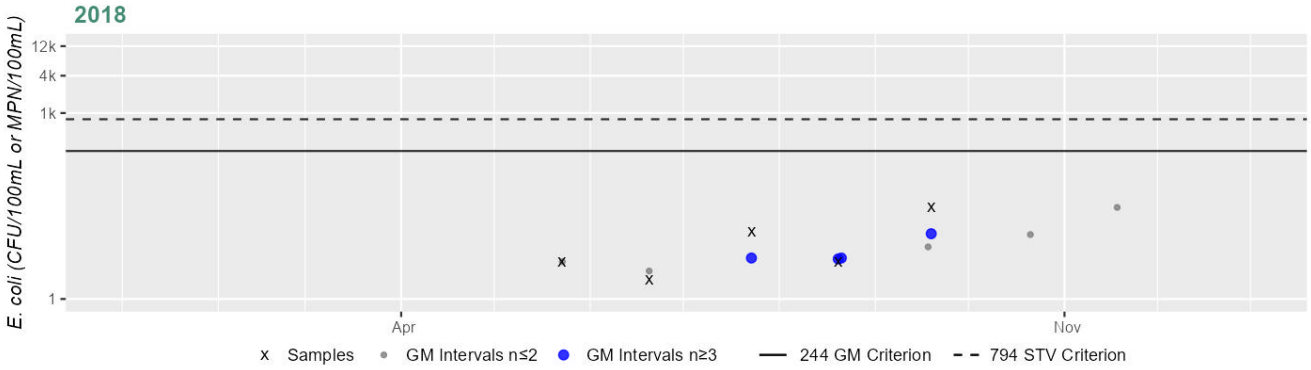
Variable*	Result
Samples	6
SeasGM	14
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Station MASSDEP_W2800 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	6
#GMI	4
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Horseleach Pond (MA96144)

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

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Mercury in Fish Tissue	42401	Unchanged

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Horseleach Pond (MA96144) 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 Horseleach Pond at station F0363 in 2019 and 2022 as part of the MassDEP Office of Research and Standards Mercury Initiative. MDPH included a site-specific advisory for Horseleach Pond (referred to by MDPH as ''Horseleech Pond'') in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent MDPH 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 7)

Summary Statement
Fish toxics sampling was conducted in Horseleach Pond (MA96144) at station F0363 in 2019 and 2022 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 Horseleach Pond (referred to by MDPH as Horseleech Pond) in their January 2025 Freshwater Fish Consumption Advisory List. The site-specific MDPH advisories are indicative of a Fish Consumption Use impairment for Mercury in Fish Tissue for Horseleach Pond (MA96144).

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Horseleach Pond (MA96144) 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 Horseleach Pond (MA96144) 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 Horseleach Pond (MA96144) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Hoxie Pond (MA96146)

Location:	Sandwich.
AU Type:	FRESHWATER LAKE
AU Size:	8 ACRES
Classification/Qualifier:	B

No usable data were available for Hoxie Pond (MA96146) 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

Hyannis Harbor (MA96-05)

Location:	The waters from the shoreline to an imaginary line drawn from the light at the end of Hyannis breakwater, Barnstable to the point west of Dunbar Point, Barnstable.
AU Type:	ESTUARY
AU Size:	0.68 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Enterococcus	36771	Added
5	5	Estuarine Bioassessments	--	Unchanged
5	5	Fecal Coliform	36771	Added

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Enterococcus	Source Unknown (N)	--	--	--	--	X	--
Estuarine Bioassessments	Source Unknown (N)	X	--	--	--	--	--
Fecal Coliform	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 Hyannis Harbor (MA96-05) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Hyannis Harbor (MA96-05): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.669 sq mi (98%). The approved shellfish growing area represents 0.4608 sq mi (68%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications, a Fecal Coliform impairment is being added.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC27.0	Hyannis Outer Harbor	Approved	0.46079	67.6%
SC27.2	Stewart Creek	Prohibited	0.00007	0.0%
SC27.5	Hyannis Outer Harbor Mooring Area	Conditionally Approved	0.20815	30.5%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Hyannis Harbor (MA96-05) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Hyannis Harbor (MA96-05) is assessed as Not Supporting based on MDPH Beach Closure data, with an Enterococcus impairment being added. Hyannis Harbor has 3 beaches with MDPH Beach Closure data: Keyes Beach [Beach ID: 2610], Eugenia Fortes [Beach ID: 2621] and Kalmus Ocean [Beach ID: 2595] beaches in Barnstable. Keyes Beach was posted for >10% of the swimming season in 2020 (24%) and 2022 (11%) indicating an Enterococcus impairment. The shellfish growing areas (0.669 sq mi) in this AU are less than 100% approved (0.4608 sq mi, 68%), which means that the shellfish classification data were too limited to assess the Primary Contact Recreation Use for Hyannis Harbor.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
2595	Kalmus Ocean/ Barnstable	41.63543, -70.28080	41.63272, -70.27280	0%	0%	0%	0%	0%	0%	0%	2%	0%	0
2610	Keyes Beach/ Barnstable	41.63517, -70.29270	41.63536, -70.28910	0%	0%	1%	0%	0%	0%	24%	10%	11%	2
2621	Eugenia Fortes/ Barnstable	41.63144, -70.30030	41.63283, -70.29920	0%	0%	0%	0%	0%	0%	0%	6%	0%	0

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Hyannis Harbor (MA96-05): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.669 sq mi (98%). The approved shellfish growing area represents 0.4608 sq mi (68%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Hyannis Harbor (MA96-05) so it is assessed as having Insufficient Information. Hyannis Harbor has 3 beaches with MDPH Beach Closure data: Keyes Beach [Beach ID: 2610], Eugenia Fortes [Beach ID: 2621] and Kalmus Ocean [Beach ID: 2595] beaches in Barnstable. Available MDPH Beach Closure data cannot be used to positively assess the Secondary Contact Recreation Use since beaches were posted for >10% of the swimming season at Keyes Beach in 2020 and 2022. The shellfish growing areas (0.669 sq mi) in this AU are less than 100% approved (0.4608 sq mi, 68%), which means that the shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Hyannis Harbor.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Hyannis Harbor (MA96-05): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.669 sq mi (98%). The approved shellfish growing area represents 0.4608 sq mi (68%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Hyannis Inner Harbor (MA96-82)

Location:	Waters landward of an imaginary line drawn from Harbor Bluff, Barnstable to Hyannis Park, Yarmouth.
AU Type:	ESTUARY
AU Size:	0.13 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	42357	Unchanged
4a	4a	Nitrogen, Total	64145	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	Marina/Boating Pumpout Releases (Y)	--	--	X	--	--	--
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	Municipal Point Source Discharges (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Hyannis Inner Harbor (MA96-82) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Hyannis Inner Harbor (MA96-82): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1218 sq mi (92%). The approved shellfish growing area represents 0.0002 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC28.0	Lewis Bay	Approved	0.00020	0.2%
SC28.1	Hyannis Inner Harbor	Prohibited	0.04569	34.4%
SC28.8	Hyannis Yacht Club Mooring Area	Conditionally Approved	0.07593	57.2%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Hyannis Inner Harbor (MA96-82) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Hyannis Inner Harbor (MA96-82) continues to be assessed as Fully Supporting based on MDPH Beach Closure data. Hyannis Inner Harbor has 4 beaches with MDPH Beach Closure data: Malfa Road [Beach ID: 5489], Bayview Street [Beach ID: 3224], Vernon St. [Beach ID: 5476] and Windmill [Beach ID: 3240] beaches in Yarmouth. All these beaches were rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (0.1218 sq mi) in this AU are less than 100% approved (0.0002 sq mi, 0%), which means that the shellfish classification data were too limited to assess the Primary Contact Recreation Use for Hyannis Inner Harbor.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
3224	Bayview Street/ Yarmouth	41.64676, -70.27270	41.64752, -70.27360	0%	0%	0%	0%	0%	0%	0%	0%	0%	0

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
3240	Windmill/ Yarmouth	41.64659, -70.27140	41.64639, -70.27080	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
5476	Vernon St./ Yarmouth	41.64582, -70.27010	41.64557, -70.26940	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
5489	Malfa Road/ Yarmouth	41.64538, -70.26840	41.64523, -70.26800	0%	0%	1%	0%	0%	0%	0%	2%	3%	0

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Hyannis Inner Harbor (MA96-82): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1218 sq mi (92%). The approved shellfish growing area represents 0.0002 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Hyannis Inner Harbor (MA96-82) continues to be assessed as Fully Supporting based on MDPH Beach Closure data. Hyannis Inner Harbor has 4 beaches with MDPH Beach Closure data: Malfa Road [Beach ID: 5489], Bayview Street [Beach ID: 3224], Vernon St. [Beach ID: 5476] and Windmill [Beach ID: 3240] beaches in Yarmouth. All these beaches were rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (0.1218 sq mi) in this AU are less than 100% approved (0.0002 sq mi, 0%), which means that the shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Hyannis Inner Harbor.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Hyannis Inner Harbor (MA96-82): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1218 sq mi (92%). The approved shellfish growing area represents 0.0002 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Jehu Pond (MA96-59)

Location:	Mashpee.
AU Type:	ESTUARY
AU Size:	0.09 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO (also tributary to SA B Shellfishing ORW)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Estuarine Bioassessments	R1_MA_2020_08	Unchanged
4a	4a	Nitrogen, Total	R1_MA_2020_08	Unchanged
4a	4a	Nutrient/Eutrophication Biological Indicators	R1_MA_2020_08	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Jehu Pond (MA96-59) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

Jehu Pond (MA96-59): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0857 sq mi (99%). The approved shellfish growing area represents 0.0857 sq mi (99%). The Shellfish Harvesting Use is assessed as Fully Supporting because the growing area (normalized to the AU area) is classified as 100% approved.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC16.5	Jehu Pond and Marsh	Approved	0.08570	99.1%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Jehu Pond (MA96-59) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Jehu Pond (MA96-59) continues to be assessed as Fully Supporting based on shellfish growing area classifications. The shellfish growing areas (0.0857 sq mi) in this AU are 100% approved which is indicative of Fully Supporting conditions.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Jehu Pond (MA96-59): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0857 sq mi (99%). The approved shellfish growing area represents 0.0857 sq mi (99%). The Primary Contact Recreational Use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Secondary Contact Recreation

2024/26 Use Attainment	Alert

Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Jehu Pond (MA96-59) continues to be assessed as Fully Supporting based on shellfish growing area classifications. The shellfish growing areas (0.0857 sq mi) in this AU are 100% approved which is indicative of Fully Supporting conditions.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Jehu Pond (MA96-59): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0857 sq mi (99%). The approved shellfish growing area represents 0.0857 sq mi (99%). The Secondary Contact Recreational use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Jemima Pond (MA96154)

Location:	Eastham.
AU Type:	FRESHWATER LAKE
AU Size:	6 ACRES
Classification/Qualifier:	B

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

Recommendations

2024/26 Recommendations
2024/26IR [Harmful Algal Blooms, Low] Follow-up monitoring should be conducted in Jemima Pond (MA96154) to determine if Harmful Algal Blooms may be impairing the Recreational uses. Cyanobacteria cell counts exceeded the threshold on Jul 25 and Aug 01, 2018 indicating a cyanobacteria bloom estimated to have extended at least 7 days, although analysis of microcystins and cylindrospermopsin samples from the shoreline station {W2802} indicated that the cyanotoxin concentrations did NOT exceed their respective thresholds. Future monitoring should include observational data and collection of cyanobacteria cell count data, as well as continued reporting of algal blooms to MDPH. This is of low priority;

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Insufficient Information	No

2024/26 Use Attainment Summary
There is Insufficient Information to assess the Fish Consumption Use for Jemima Pond (MA96154). Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in Jemima Pond at station F0456 in 2018 as part of the probabilistic lake surveys (MAP2). However, no site-specific fish consumption advisory was issued by MDPH.

Fish Consumption Advisories

Summary of Fish Toxics Sampling and Resulting Fish Consumption Advisories (MassDEP Undated 7)

Summary Statement
Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in Jemima Pond (MA96154) at station F0456 in 2018 as part of the probabilistic lake surveys (MAP2). No site-specific fish consumption advisory was issued by MDPH.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Jemima Pond (MA96154) is assessed as Fully Supporting based on observations made by MassDEP staff in 2018. MassDEP staff recorded aesthetics observations as part of the MAP2 lake monitoring project in summer 2018 at two stations in Eastham, for Jemima Pond, at the northeastern edge of pond near the intersection of Great Pond and Samoset roads (W2802/MAP2L-280S, n=5) and at the deep hole index station (W2801/MAP2L-280, n=3). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, or littoral zone duckweed recorded in ten shoreline plots at W2802 (n=1). During the MAP2 macrophyte mapping survey in Jul 2018 (n=1), less than 25% (5.6%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2801	MassDEP	Water Quality	Jemima Pond	[index site, Eastham]	41.829591	-69.984635
W2802	MassDEP	Water Quality	Jemima Pond	[northeastern edge of pond near the intersection of Great Pond and Samoset roads, Eastham]	41.830203	-69.984354

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2801	2018	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2801 (MAP2L-280) on Jemima Pond (MA96154) during 3 site visits between Jun 2018 and Aug 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. During the MAP2 macrophyte mapping survey (n=1) in Jul 2018, less than 25% (5.6%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%.
W2802	2018	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2802 (MAP2L-280S) on Jemima Pond (MA96154) during 5 site visits between May 2018 and Sep 2018. 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 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2801	Jemima Pond	2018	Aesthetics Impaired?	No	3	3
W2801	Jemima Pond	2018	Aquatic Plant Density, Overall	None	3	3
W2801	Jemima Pond	2018	Color	Light Yellow/Tan	1	3
W2801	Jemima Pond	2018	Color	None	2	3
W2801	Jemima Pond	2018	Objectionable Deposits	No	3	3
W2801	Jemima Pond	2018	Odor	None	3	3
W2801	Jemima Pond	2018	Scum	No	3	3
W2801	Jemima Pond	2018	Turbidity	None	3	3
W2802	Jemima Pond	2018	Aesthetics Impaired?	No	5	5
W2802	Jemima Pond	2018	Color	None	5	5
W2802	Jemima Pond	2018	Objectionable Deposits	No	5	5
W2802	Jemima Pond	2018	Odor	None	5	5
W2802	Jemima Pond	2018	Scum	No	4	5
W2802	Jemima Pond	2018	Scum	Yes	1	5
W2802	Jemima Pond	2018	Turbidity	None	4	5
W2802	Jemima Pond	2018	Turbidity	Slightly Turbid	1	5

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	YES

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Jemima Pond (MA96154) is assessed as Fully Supporting based on bacteria data collected by MassDEP staff at one station in 2018. However, an Alert is being identified for Harmful Algal Blooms based on cyanobacteria cell count data collected in 2018. In 2018, MassDEP staff collected Secchi depth and cyanobacteria cell count data at W2801 [MAP2L-280, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at W2802 [MAP2L-280S, Shoreline]. At station W2801 (station depth=4.7 m) the Secchi depth measurements ranged from 2.52-2.6 m (n=2) indicating water clarity meeting the 1.2 m (4 ft) threshold. However, the cyanobacteria cell count exceeded 70,000 cells/mL on Jul 25 and Aug 01, 2018 (with a maximum cell count of 117,115) indicating a cyanobacteria bloom estimated to have extended at least 7 days (n=6), which is indicative of a Harmful Algal Blooms Alert. Analysis of microcystins and cylindrospermopsin samples from the shoreline station W2802 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. Additional sampling is recommended for this AU. MassDEP staff collected *E. coli* bacteria samples in Jemima Pond at W2802 [northeastern edge of pond near the intersection of Great Pond and Samoset Rds., Eastham] from May-Sep 2018 (n=5). Analysis of the single year limited frequency dataset from this station indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 4 CFU/100ml, which meets 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2801	MassDEP	Water Quality	Jemima Pond	[index site, Eastham]	41.829591	-69.984635
W2802	MassDEP	Water Quality	Jemima Pond	[northeastern edge of pond near the intersection of Great Pond and Samoset roads, Eastham]	41.830203	-69.984354

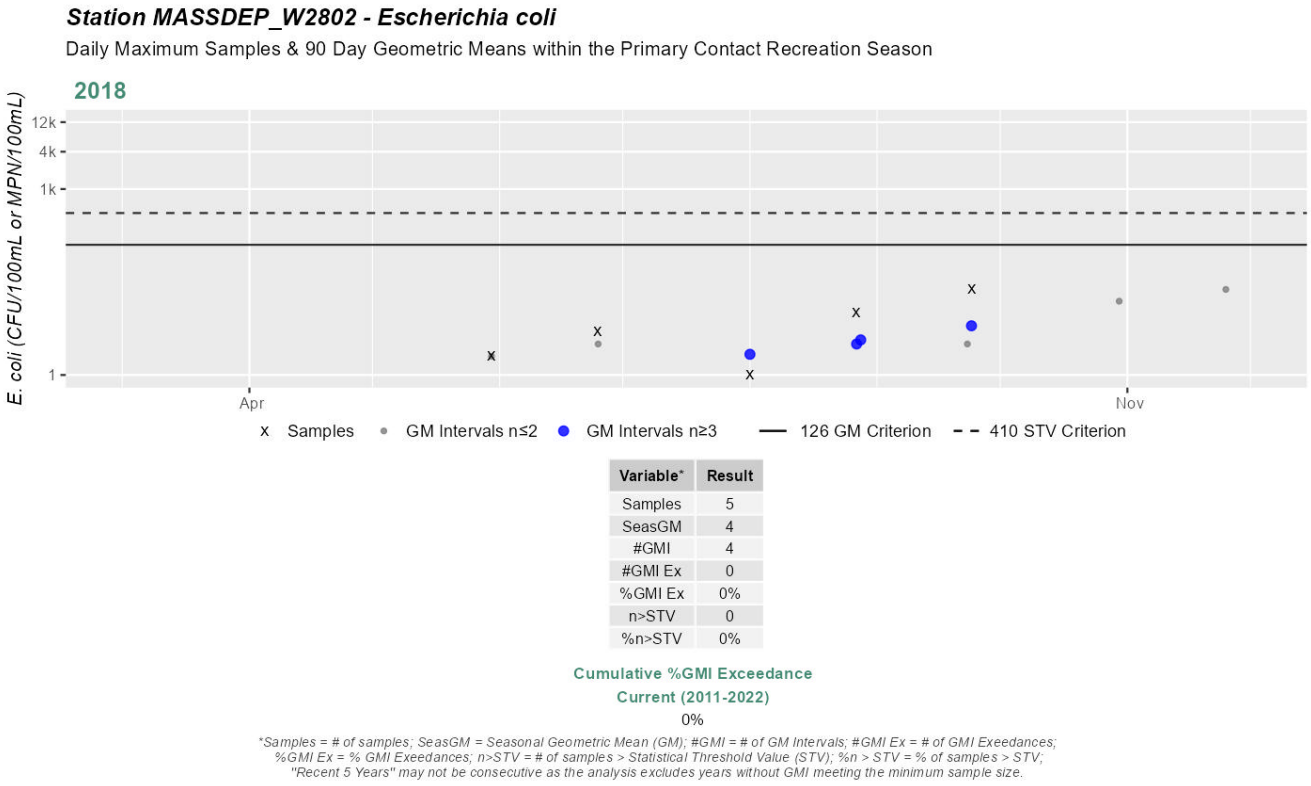
Bacteria Data

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

(MassDEP Undated 9) (MassDEP Undated 5)

[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
W2802	MassDEP	E. coli	05/30/18	09/24/18	5	1	24	4



Other Indicators

Summary Statement for 2011-2022 Cyanobacteria Cell Count and Cyanotoxin Data, and Secchi Depth Data (MassDEP Undated 9) (MassDEP Undated 5)

Data Year(s)	Summary
2018	In Jemima Pond (MA96154) in 2018, MassDEP collected Secchi and cyanobacteria cell count data at W2801 [MAP2L-280, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at W2802 [MAP2L-280S, Shoreline]. At station W2801 (station depth=4.7 m) the Secchi depth measurements ranged from 2.52-2.6 m (n=2) indicating water clarity meeting the 1.2 m (4 ft) threshold. The cyanobacteria cell count exceeded 70,000 cells/mL on Jul 25 and Aug 01, 2018 indicating a cyanobacteria bloom estimated to have extended at least 7 days (n=6). The elevated cyanobacteria cell count measurement is indicative of a Harmful Algal Blooms Alert. Analysis of microcystins and cylindrospermopsin samples from the shoreline station W2802 (n=6) 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 9) (MassDEP Undated 5)

Station Code	Waterbody	Station Type	Data Year	Sample Count	Count >70,000 cells/mL	Exceedance Date(s)
W2801	Jemima Pond	Index	2018	3	1	7/25/2018
W2802	Jemima Pond	Shoreline	2018	3	1	8/1/2018

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	YES

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Jemima Pond (MA96154) is assessed as Fully Supporting based on a re-evaluation of bacteria data collected by MassDEP staff at one station in 2018. An Alert is being identified for Harmful Algal Blooms based on cyanobacteria cell count data collected in 2018. In 2018, MassDEP staff collected Secchi depth and cyanobacteria cell count data at W2801 [MAP2L-280, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at W2802 [MAP2L-280S, Shoreline]. At station W2801 (station depth=4.7 m) the Secchi depth measurements ranged from 2.52-2.6 m (n=2) indicating water clarity meeting the 1.2 m (4 ft) threshold. However, the cyanobacteria cell count exceeded 70,000 cells/mL on Jul 25 and Aug 01, 2018 (with a maximum cell count of 117,115) indicating a cyanobacteria bloom estimated to have extended at least 7 days (n=6), which is indicative of a Harmful Algal Blooms Alert. Analysis of microcystins and cylindrospermopsin samples from the shoreline station W2802 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. Additional sampling is recommended for this AU. MassDEP staff collected *E. coli* bacteria samples in Jemima Pond at W2802 [northeastern edge of pond near the intersection of Great Pond and Samoset Rds., Eastham] from May-Sep 2018 (n=5). Analysis of the single year limited frequency dataset from W2802 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 4 CFU/100ml, which meets 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2802	MassDEP	Water Quality	Jemima Pond	[northeastern edge of pond near the intersection of Great Pond and Samoset roads, Eastham]	41.830203	-69.984354

Bacteria Data

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

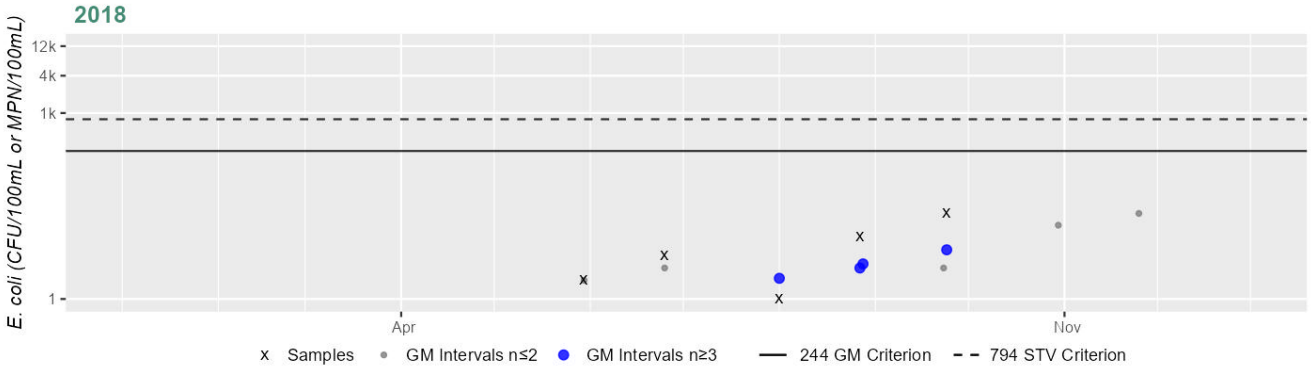
(MassDEP Undated 9) (MassDEP Undated 4)

[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
W2802	MassDEP	E. coli	05/30/18	09/24/18	5	1	24	4

Station MASSDEP_W2802 - Escherichia coli

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



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

Cumulative %GMI Exceedance

Current (2011-2022)

0%

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

Jenkins Pond (MA96155)

Location:	Falmouth.
AU Type:	FRESHWATER LAKE
AU Size:	85 ACRES
Classification/Qualifier:	B

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

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Jenkins Pond (MA96155) is assessed as Not Supporting with a new impairment being added for PFAS in Fish Tissue. Fish toxics sampling was conducted at Jenkins Pond in Falmouth in May 2021 as part of a MDPH pilot study assessing 40 PFAS analytes in fish tissue samples collected on Cape Cod. MDPH issued a site-specific advisory for PFAS in Jenkins Pond in their October 2021 Freshwater Fish Consumption Advisory List and retained it in the January 2025 list. The public should refer to the most recent MDPH 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 2021)

Summary Statement
Fish toxics sampling was conducted at Jenkins Pond (MA96155) in Falmouth in May 2021 as part of a MDPH pilot study assessing 40 PFAS analytes in fish tissue samples collected on Cape Cod. Because of elevated PFAS measured in fish filets, MDPH issued site-specific fish consumption advisories for Jenkins Pond in their October 2021 Freshwater Fish Consumption Advisory List. The site-specific MDPH advisories are indicative of a Fish Consumption Use impairment for PFAS in Fish Tissue for Jenkins Pond (MA96155).

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Jenkins Pond (MA96155) 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 Jenkins Pond (MA96155) so it is assessed as having Insufficient Information. MDPH contractors conducted surface water sampling at Jenkins Pond in Falmouth in May 2021 as part of a pilot study assessing 40 PFAS analytes in surface water and fish tissue samples collected from waterbodies on Cape Cod. In this study, MDPH evaluated four PFAS compounds (PFHxS, PFNA, PFOA, PFOS) individually against a candidate Surface Water Action Level (cSWAL) of 23 ng/L (ppt). All four compounds had concentrations less than the cSWAL, with the maximum being 1.56 ng/L of PFOA.

Other Indicators

Summary of MDPH 2021 and 2022 PFAS in Water Column Data

Data Sources: (Nascarella 2021, MA DPH 2021)

MDPH contractors conducted surface water sampling at Jenkins Pond (MA96155) in Falmouth in May 2021 as part of a pilot study assessing 40 PFAS analytes in surface water and fish tissue samples collected from waterbodies on Cape Cod. In this study, MDPH evaluated four PFAS compounds (PFHxS, PFNA, PFOA, PFOS) individually against a candidate Surface Water Action Level (cSWAL) of 23 ng/L (ppt). All four compounds had concentrations less than the cSWAL, with the maximum being 1.56 ng/L of PFOA.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Jenkins Pond (MA96155) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Johns Pond (MA96157)

Location:	Mashpee.
AU Type:	FRESHWATER LAKE
AU Size:	316 ACRES
Classification/Qualifier:	B: ORW (Tributary to SA* SFO ORW)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	5	(Fish Passage Barrier*)	--	Unchanged
4a	5	Mercury in Fish Tissue	33880	Unchanged
4a	5	PFAS in Fish Tissue	--	Added

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--
Mercury in Fish Tissue	Atmospheric Deposition (Y)	--	X	--	--	--
Mercury in Fish Tissue	Source Unknown (N)	--	X	--	--	--
PFAS in Fish Tissue	Source Unknown (N)	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Fish Consumption Use for Johns Pond (MA96157) continues to be assessed as Not Supporting. The prior Mercury in Fish Tissue impairment is being carried forward and a new impairment is being added for PFAS in Fish Tissue. Fish toxics sampling was conducted at Johns Pond in Mashpee in May 2021 as part of a MDPH pilot study assessing 40 PFAS analytes in fish tissue samples collected on Cape Cod. MDPH issued a site-specific advisory for PFAS in Johns Pond in their October 2021 Freshwater Fish Consumption Advisory List and retained both this advisory as well as the existing Mercury advisory in the January 2025 list. The public should refer to the most recent MDPH 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 2021)

Summary Statement
Fish toxics sampling was conducted at Johns Pond (MA96157) in Mashpee in May 2021 as part of a MDPH pilot study assessing 40 PFAS analytes in fish tissue samples collected on Cape Cod. Because of elevated PFAS measured in fish filets, MDPH issued site-specific fish consumption advisories for Johns Pond in their October 2021 Freshwater Fish Consumption Advisory List and retained them in the January 2025 list. Additionally, MDPH retained the existing site-specific fish consumption advisories for Mercury associated with Johns Pond in their January 2025 Freshwater Fish Consumption Advisory List. The site-specific MDPH advisories are indicative of Fish Consumption Use impairments for PFAS in Fish Tissue and Mercury in Fish Tissue for Johns Pond (MA96157).

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Johns Pond (MA96157) 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 Johns Pond (MA96157) so it is assessed as having Insufficient Information. MDPH contractors conducted surface water sampling at Johns Pond in Mashpee in May 2021 as part of a pilot study assessing 40 PFAS analytes in surface water and fish tissue samples collected from waterbodies on Cape Cod. In this study, MDPH evaluated four PFAS compounds (PFHxS, PFNA, PFOA, PFOS) individually against a candidate Surface Water Action Level (cSWAL) of 23 ng/L (ppt). MDPH reported that "average concentrations of PFNA, PFHxS, and PFOS were 24.6, 54.0, and 55.4 ng/L, respectively," but determined that Johns Pond is still "safe for recreational activities such as wading, boating, and catch-and-release fishing".

Other Indicators

Summary of MDPH 2021 and 2022 PFAS in Water Column Data

Data Sources: (Nascarella 2021, MA DPH 2021)

MDPH contractors conducted surface water sampling at Johns Pond (MA96157) in Mashpee in May 2021 as part of a pilot study assessing 40 PFAS analytes in surface water and fish tissue samples collected from waterbodies on Cape Cod. In this study, MDPH evaluated four PFAS compounds (PFHxS, PFNA, PFOA, PFOS) individually against a candidate Surface Water Action Level (cSWAL) of 23 ng/L (ppt). MDPH reported that "average concentrations of PFNA, PFHxS, and PFOS were 24.6, 54.0, and 55.4 ng/L, respectively," but determined that Johns Pond is still "safe for recreational activities such as wading, boating, and catch-and-release fishing."

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Johns Pond (MA96157) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Kelleys Bay (MA96-113)

Location:	Dennis/Yarmouth.
AU Type:	ESTUARY
AU Size:	0.1 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	5	Fecal Coliform	--	Added
4a	5	Nitrogen, Total	68003	Unchanged
4a	5	Nutrient/Eutrophication Biological Indicators	68003	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--
Nitrogen, Total	Agriculture (Y)	X	--	--	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	Golf Courses (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Agriculture (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nutrient/Eutrophication Biological Indicators	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Golf Courses (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Kelleys Bay (MA96-113) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Kelleys Bay (MA96-113): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0979 sq mi (97%) and the approved shellfish growing area represents 0 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. As a result of the growing area classifications, a Fecal Coliform impairment is being added.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC35.4	Mayfair Boatyard	Conditionally Approved	0.00603	6.0%
SC35.7	Bass River North	Conditionally Approved	0.09186	91.4%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Kelleys Bay (MA96-113) 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 Kelleys Bay (MA96-113) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0979 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that the shellfish classification data were too limited to assess the Primary Contact Recreation Use for Kelleys Bay.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Kelleys Bay (MA96-113): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0979 sq mi (97%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Kelleys Bay (MA96-113) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0979 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that the shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Kelleys Bay.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Kelleys Bay (MA96-113): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0979 sq mi (97%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Kinnacum Pond (MA96163)

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

No usable data were available for Kinnacum Pond (MA96163) 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

Lake Elizabeth (MA96080)

Location:	Barnstable.
AU Type:	FRESHWATER LAKE
AU Size:	6 ACRES
Classification/Qualifier:	B

No usable data were available for Lake Elizabeth (MA96080) 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	(Fish Passage Barrier*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--
(Fish Passage Barrier*)	Habitat Modification - other than Hydromodification (Y)	X	--	--	--	--

Lawrence Pond (MA96165)

Location:	Sandwich.
AU Type:	FRESHWATER LAKE
AU Size:	138 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Mercury in Fish Tissue	42402	Unchanged

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Lawrence Pond (MA96165) continues to be assessed as Not Supporting and the prior Mercury in Fish Tissue impairment is being carried forward. MDPH included a site-specific advisory for Lawrence Pond in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent MDPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Lawrence Pond (MA96165) 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 Lawrence Pond (MA96165) 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 Lawrence Pond (MA96165) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Lewis Bay (MA96-36)

Location:	Includes portion of Pine Island Creek and Uncle Roberts Cove, Yarmouth to confluence with Nantucket Sound, Barnstable/Yarmouth (excluding Hyannis Inner Harbor, Barnstable/Yarmouth and Mill Creek, Yarmouth).
AU Type:	ESTUARY
AU Size:	1.79 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	4a	Estuarine Bioassessments	64146, 64147	Unchanged
5	4a	Fecal Coliform	36771	Unchanged
5	4a	Nitrogen, Total	64146	Changed
5	4a	Nutrient/Eutrophication Biological Indicators	64146	Changed

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Agriculture (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Municipal Point Source Discharges (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	Marina/Boating Pumpout Releases (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--
Nitrogen, Total	Agriculture (Y)	X	--	--	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	Municipal Point Source Discharges (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Agriculture (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Municipal Point Source Discharges (Y)	X	--	--	--	--	--

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

Supporting Information for Removed Impairments

2022 Removed Impairment	Removal Reason	Removal Comment
Nitrogen, Total	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: FINAL Lewis Bay System and Halls Creek Total Maximum Daily Loads For Total Nitrogen (Report CN 314.0, approved 4/15/2015, ATTAINS Action ID: 64146)
Nutrient/Eutrophication Biological Indicators	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: FINAL Lewis Bay System and Halls Creek Total Maximum Daily Loads For Total Nitrogen (Report CN 314.0, approved 4/15/2015, ATTAINS Action ID: 64146)

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 Lewis Bay (MA96-36) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Lewis Bay (MA96-36): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 1.74 sq mi (97%). The approved shellfish growing area represents 1.3723 sq mi (77%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC27.0	Hyannis Outer Harbor	Approved	0.01601	0.9%
SC28.0	Lewis Bay	Approved	1.35626	75.9%
SC28.4	Englewood Mooring Area	Conditionally Approved	0.12844	7.2%
SC28.5	Mill Creek	Conditionally Approved	0.00002	0.0%
SC28.8	Hyannis Yacht Club Mooring Area	Conditionally Approved	0.23906	13.4%
SC28.9	Snow's Creek	Prohibited	0.00018	0.0%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Lewis Bay (MA96-36) is Not Assessed

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Lewis Bay (MA96-36) continues to be assessed as Fully Supporting based on MDPH Beach Closure data. Lewis Bay has 9 beaches with MDPH Beach Closure data: Hyannis Yacht Club [Beach ID: 2602], Kalmus Yacht [Beach ID: 2596] and Kennedy Memorial/Veterans Beach [Beach ID: 2609] beaches in Barnstable and Baxter Avenue [Beach ID: 3221], Bay Road [Beach ID: 3223], Colonial Acres East [Beach ID: 3227], Colonial Acres West [Beach ID: 5631], Columbus Avenue [Beach ID: 3228] and Englewood [Beach ID: 3230] beaches in Yarmouth. All these beaches were rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (1.74 sq mi) in this AU are less than 100% approved (1.3723 sq mi, 77%), which means that the shellfish classification data were too limited to assess the Primary Contact Recreation Use for Lewis Bay.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
2596	Kalmus Yacht/ Barnstable	41.63272, -70.27280	41.63728, -70.27720	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
2602	Hyannis Yacht Club/ Barnstable	41.63955, -70.27780	41.63905, -70.27780	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
2609	Kennedy Memorial/ Veterans Beach/ Barnstable	41.63960, -70.27770	41.64194, -70.27700	0%	0%	0%	0%	0%	0%	2%	1%	0%	0
3221	Baxter Avenue/ Yarmouth	41.64531, -70.26160	41.64585, -70.25940	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
3223	Bay Road/ Yarmouth	41.64364, -70.25290	41.64359, -70.25280	0%	0%	0%	0%	0%	0%	0%	1%	0%	0
3227	Colonial Acres East/ Yarmouth	41.64587, -70.25680	41.64472, -70.25460	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
3228	Columbus Avenue/ Yarmouth	41.64194, -70.25100	41.64180, -70.25090	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
3230	Englewood/ Yarmouth	41.64001, -70.24730	41.64049, -70.24680	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
5631	Colonial Acres West/ Yarmouth	41.64612, -70.25750	41.64587, -70.25680	0%	0%	0%	0%	0%	0%	0%	0%	0%	0

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Lewis Bay (MA96-36): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 1.74 sq mi (97%). The approved shellfish growing area represents 1.3723 sq mi (77%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Lewis Bay (MA96-36) continues to be assessed as Fully Supporting based on MDPH Beach Closure data. Lewis Bay has 9 beaches with MDPH Beach Closure data: Hyannis Yacht Club [Beach ID: 2602], Kalmus Yacht [Beach ID: 2596] and Kennedy Memorial/Veterans Beach [Beach ID: 2609] beaches in Barnstable and Baxter Avenue [Beach ID: 3221], Bay Road [Beach ID: 3223], Colonial Acres East [Beach ID: 3227], Colonial Acres West [Beach ID: 5631], Columbus Avenue [Beach ID: 3228] and Englewood [Beach ID: 3230] beaches in Yarmouth. All these beaches were rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (1.74 sq mi) in this AU are less than 100% approved (1.3723 sq mi, 77%), which means that the shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Lewis Bay.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Lewis Bay (MA96-36): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 1.74 sq mi (97%). The approved shellfish growing area represents 1.3723 sq mi (77%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Lewis Pond (MA96-109)

Location:	north of Seagull Road, Yarmouth (segment includes tidal channel to Parkers River).
AU Type:	ESTUARY
AU Size:	0.07 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Nitrogen, Total	68369	Unchanged
4a	4a	Nutrient/Eutrophication Biological Indicators	68369	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	Municipal Point Source Discharges (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nutrient/Eutrophication Biological Indicators	Municipal Point Source Discharges (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Lewis Pond (MA96-109) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
Lewis Pond (MA96-109): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0715 sq mi (100%). The approved shellfish growing area represents 0.0715 sq mi (100%). The Shellfish Harvesting Use is assessed as Fully Supporting because the growing area (normalized to the AU area) is classified as 100% approved.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC30.0	Parkers River	Approved	0.00001	0.0%
SC31.0	Lewis Pond	Approved	0.07147	99.8%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Lewis Pond (MA96-109) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Lewis Pond (MA96-109) is assessed as Fully Supporting. The shellfish growing areas (0.0715 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Primary Contact Recreation Use of Lewis Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Lewis Pond (MA96-109): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0715 sq mi (100%). The approved shellfish growing area represents 0.0715 sq mi (100%). The Primary Contact Recreational Use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Lewis Pond (MA96-109) is assessed as Fully Supporting. The shellfish growing areas (0.0715 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Secondary Contact Recreation Use of Lewis Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Lewis Pond (MA96-109): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0715 sq mi (100%). The approved shellfish growing area represents 0.0715 sq mi (100%). The Secondary Contact Recreational use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Little Harbor (MA96-19)

Location:	The waters north of an imaginary line drawn from Juniper Point, Falmouth east to Nobska Beach, Falmouth.
AU Type:	ESTUARY
AU Size:	0.07 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	36772	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Marina/Boating Pumpout Releases (Y)	--	--	X	--	--	--
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	--	--	--
Fecal Coliform	Unspecified Urban Stormwater (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Little Harbor (MA96-19) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Little Harbor (MA96-19): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0647 sq mi (97%). The approved shellfish growing area represents 0.0364 sq mi (54%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC4.1	Little Harbor	Conditionally Approved	0.02060	30.8%
SC4.2	Little Harbor	Prohibited	0.00775	11.6%
SC4.3	Little Harbor	Approved	0.03637	54.3%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Little Harbor (MA96-19) 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 Little Harbor (MA96-19) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0647 sq mi) in this AU are less than 100% approved (0.0364 sq mi, 54%), which means that the shellfish classification data were too limited to assess Primary Contact Recreation Use for Little Harbor.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Little Harbor (MA96-19): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0647 sq mi (97%). The approved shellfish growing area represents 0.0364 sq mi (54%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Little Harbor (MA96-19) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0647 sq mi) in this AU are less than 100% approved (0.0364 sq mi, 54%), which means that the shellfish classification data were too limited to assess Secondary Contact Recreation Use for Little Harbor.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Little Harbor (MA96-19): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0647 sq mi (97%). The approved shellfish growing area represents 0.0364 sq mi (54%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Little Namskaket Creek (MA96-26)

Location:	Source west of Route 6, Orleans to mouth at inlet Cape Cod Bay, Orleans.
AU Type:	ESTUARY
AU Size:	0.01 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	36772	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Little Namskaket Creek (MA96-26) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
There is insufficient information available to delist the existing Fecal Coliform impairment so the Shellfish Harvesting Use for Little Namskaket Creek (MA96-26) will continue to be evaluated as Not Supporting. The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0055 sq mi (57%). The approved shellfish growing area represents 0 sq mi (0%) and the prohibited shellfish growing area represents 0.0055 sq mi (57%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as entirely prohibited.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
CCB19.0	Little Namskaket Creek	Prohibited	0.00547	57.1%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Little Namskaket Creek (MA96-26) 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 Little Namskaket Creek (MA96-26) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0055 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that the shellfish classification data were too limited to assess the Primary Contact Recreation Use for Little Namskaket Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Little Namskaket Creek (MA96-26): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0055 sq mi (57%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Little Namskaket Creek (MA96-26) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0055 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that the shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Little Namskaket Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Little Namskaket Creek (MA96-26): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0055 sq mi (57%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Little Pleasant Bay (MA96-78)

Location:	Waters north and east of imaginary lines drawn from the northeasterly edge of Orleans (near The Horseshoe), southeasterly around the northeastern tip of Sipson Island, and Sipson Meadow, Orleans then south to the northern tip of Strong Island, Chatham then east to a point on the inner Cape Cod National Seashore (CCNS)(including SARIS named Hog Island and Broad creeks) (excluding the delineated segments; The River, Pochet Neck, and Paw Wah Pond) (areas within CCNS designated as ORW).
AU Type:	ESTUARY
AU Size:	3.27 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO ('ORW' applies only to portion in Cape Cod National Seashore)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Nitrogen, Total	33794	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Little Pleasant Bay (MA96-78) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
Little Pleasant Bay (MA96-78): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 3.2094 sq mi (98%). The approved shellfish growing area represents 3.2092 sq mi (98%). The Shellfish Harvesting Use is assessed as Fully Supporting because the growing area (normalized to the AU area) is classified as 100% approved.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC53.0	Pleasant Bay	Approved	0.00772	0.2%
SC61.0	Little Pleasant Bay	Approved	3.19861	97.7%
SC63.0	Namequoit River	Approved	0.00287	0.1%
SC64.0	Paw Wah Pond	Prohibited	0.00016	0.0%

Aesthetic

2024/26 Use Attainment	Alert

Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Little Pleasant Bay (MA96-78) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Little Pleasant Bay (MA96-78) continues to be assessed as Fully Supporting. The shellfish growing areas (3.2093 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Primary Contact Recreation Use of Little Pleasant Bay.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Little Pleasant Bay (MA96-78): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 3.2094 sq mi (98%). The approved shellfish growing area represents 3.2092 sq mi (98%). The Primary Contact Recreational Use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Little Pleasant Bay (MA96-78) continues to be assessed as Fully Supporting. The shellfish growing areas (3.2093 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Secondary Contact Recreation Use of Little Pleasant Bay.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Little Pleasant Bay (MA96-78): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 3.2094 sq mi (98%). The approved shellfish growing area represents 3.2092 sq mi (98%). The Secondary Contact Recreational use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Little Pond (MA96-56)

Location:	west of Vista Boulevard, Falmouth outlet to Vineyard Sound, Falmouth.
AU Type:	ESTUARY
AU Size:	0.07 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Estuarine Bioassessments	34009	Unchanged
4a	4a	Fecal Coliform	42364	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Golf Courses (Y)	X	--	--	--	--	--
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--
Fecal Coliform	Agriculture (Y)	--	--	X	--	--	--
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Golf Courses (Y)	--	--	X	--	--	--
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	--	--	--
Fecal Coliform	Unspecified Urban Stormwater (Y)	--	--	X	--	--	--
Fecal Coliform	Yard Maintenance (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Little Pond (MA96-56) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
There is insufficient information available to delist the existing Fecal Coliform impairment so the Shellfish Harvesting Use for Little Pond (MA96-56) will continue to be assessed as Not Supporting. The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.063 sq mi (94%). The approved shellfish growing area represents 0.0001 sq mi (0%) and the prohibited shellfish growing area represents 0.0629 sq mi (94%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as a combination of approved and prohibited.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC10.0	Little Pond	Prohibited	0.06289	94.2%
SC8.0	East Falmouth Coastal	Approved	0.00013	0.2%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Little Pond (MA96-56) 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 Little Pond (MA96-56) so it is assessed as having Insufficient Information. The shellfish growing areas (0.063 sq mi) in this AU are less than 100% approved (0.0001 sq mi, 0%), which means that the shellfish classification data were too limited to assess the Primary Contact Recreation Use for Little Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Little Pond (MA96-56): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.063 sq mi (94%). The approved shellfish growing area represents 0.0001 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Little Pond (MA96-56) so it is assessed as having Insufficient Information. The shellfish growing areas (0.063 sq mi) in this AU are less than 100% approved (0.0001 sq mi, 0%), which means that the shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Little Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Little Pond (MA96-56): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.063 sq mi (94%). The approved shellfish growing area represents 0.0001 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Little River (MA96-61)

Location:	Headwaters outlet Hamblin Pond, Mashpee to mouth at confluence with Great River, Mashpee.
AU Type:	ESTUARY
AU Size:	0.03 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO (Tributary to SA* SFO ORW)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Estuarine Bioassessments	R1_MA_2020_08	Unchanged
4a	4a	Nitrogen, Total	R1_MA_2020_08	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Little River (MA96-61) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
Little River (MA96-61): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0238 sq mi (94%). The approved shellfish growing area represents 0.0238 sq mi (94%). The Shellfish Harvesting Use is assessed as Fully Supporting because the growing area (normalized to the AU area) is classified as 100% approved.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC16.0	Little River and Hamblin Pond	Approved	0.02380	93.7%

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC16.1	Little River Boatyard	Conditionally Approved	0.00000	0.0%

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 (MA96-61) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for the Little River (MA96-61) continues to be assessed as Fully Supporting. The shellfish growing areas (0.0238 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Primary Contact Recreation Use of Little River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Little River (MA96-61): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0238 sq mi (94%). The approved shellfish growing area represents 0.0238 sq mi (94%). The Primary Contact Recreational Use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for the Little River (MA96-61) continues to be assessed as Fully Supporting. The shellfish growing areas (0.0238 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Secondary Contact Recreation Use of Little River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

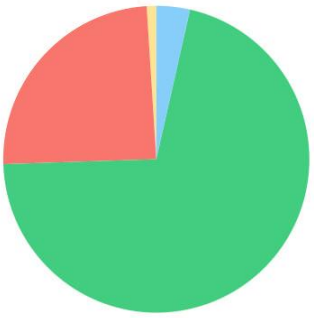
Summary
Little River (MA96-61): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0238 sq mi (94%). The approved shellfish growing area represents 0.0238 sq mi (94%). The Secondary Contact Recreational use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Little River (MA96-99)

Location:	Headwaters outlet Lovells Pond, Barnstable to confluence with tidal portion south of Old Post Road, Barnstable.
AU Type:	RIVER
AU Size:	1.8 MILES
Classification/Qualifier:	B

Little River (MA96-99)

Watershed Area: 4.19 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	4.19	2.61	0.84	0.83
Agriculture	1%	1.5%	4.6%	4.7%
Developed	24.5%	20%	13.5%	13.2%
Natural	70.9%	74%	68.9%	68.9%
Wetland	3.5%	4.5%	13%	13.2%
Impervious	11%	9.3%	6.6%	6.6%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	4a	(Fish Passage Barrier*)	--	Unchanged
5	4a	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Habitat Modification - other than Hydromodification (Y)	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 Little River (MA96-99) 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 (MA96-99) 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 (MA96-99) 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.

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 (MA96-99) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected *E. coli* bacteria samples in the Little River at station W1913 [Old Post Rd, Barnstable] from May-Oct 2009 (n=6). Analysis of the historic single year limited frequency dataset from this station indicated 42% of intervals had GMs >244 CFU/100ml, 1 sample exceeded the 794 CFU/100ml STV (900 CFU), and the overall GM was 130 CFU/100ml. Historic *E. coli* data from station W1913 are inconclusive according to the 2024 CALM to assess the Secondary Contact Recreation Use because this single year, limited frequency dataset included both GMs below the threshold and an exceedance of the STV threshold.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1913	MassDEP	Water Quality	Little River	[Old Post Road, Barnstable]	41.626540	-70.426291

Bacteria Data

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

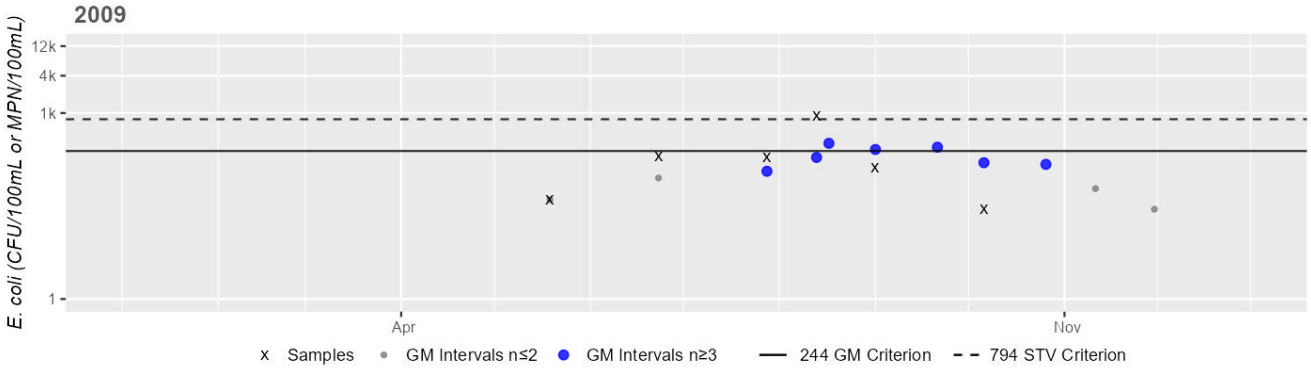
(MassDEP Undated 9) (MassDEP Undated 4)

[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
W1913	MassDEP	E. coli	05/19/09	10/06/09	6	28	900	130

Station MASSDEP_W1913 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	130
#GMI	7
#GMI Ex	3
%GMI Ex	42%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance
Historic (1997-2010)
42%

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

Little Sandy Pond (MA96177)

Location:	Yarmouth.
AU Type:	FRESHWATER LAKE
AU Size:	12 ACRES
Classification/Qualifier:	B

No usable data were available for Little Sandy Pond (MA96177) 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	None	--	Unchanged

Loagy Bay (MA96-125)

Location:	Wellfleet.
AU Type:	ESTUARY
AU Size:	0.2 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Chlorophyll-a	R1_MA_2024_01P	Unchanged
5	5	Dissolved Oxygen	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Chlorophyll-a	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Chlorophyll-a	Rural (Residential Areas) (Y)	X	--	--	--	--	--
Chlorophyll-a	Yard Maintenance (Y)	X	--	--	--	--	--
Dissolved Oxygen	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Dissolved Oxygen	Rural (Residential Areas) (Y)	X	--	--	--	--	--
Dissolved Oxygen	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Loagy Bay (MA96-125) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
Loagy Bay (MA96-125): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.182 sq mi (89%). The approved shellfish growing area represents 0.182 sq mi (89%). The Shellfish Harvesting Use is assessed as Fully Supporting because the growing area (normalized to the AU area) is classified as 100% approved.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
CCB14.0	Loagy Bay, Drummer Cove & Blackfish Creek	Approved	0.18196	89.1%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Loagy Bay (MA96-125) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Loagy Bay (MA96-125) is assessed as Fully Supporting. The shellfish growing areas (0.182 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Primary Contact Recreation Use of Loagy Bay.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Loagy Bay (MA96-125): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.182 sq mi (89%). The approved shellfish growing area represents 0.182 sq mi (89%). The Primary Contact Recreational Use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Loagy Bay (MA96-125) is assessed as Fully Supporting. The shellfish growing areas (0.182 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Secondary Contact Recreation Use of Loagy Bay.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Loagy Bay (MA96-125): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.182 sq mi (89%). The approved shellfish growing area represents 0.182 sq mi (89%). The Secondary Contact Recreational use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Long Pond (MA96179)

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

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

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Long Pond (MA96179) continues to be assessed as Not Supporting and the prior Mercury in Fish Tissue impairment is being carried forward. MDPH included a site-specific advisory for Long Pond in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent MDPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Long Pond (MA96179) 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 Long Pond (MA96179) 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 Long Pond (MA96179) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Long Pond (MA96180)

Location:	Yarmouth.
AU Type:	FRESHWATER LAKE
AU Size:	54 ACRES
Classification/Qualifier:	B

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

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Fish Consumption Use for this Long Pond AU (MA96180) is assessed as Not Supporting with a new impairment being added for PFAS in Fish Tissue. Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in Long Pond at station F0454 in 2018 as part of the probabilistic lake surveys (MAP2); no advisory was identified by MDPH. Additionally, fish toxics sampling was conducted in Long Pond at station F0454 (PFAS Study ID 24) on 10/18/2022 as part of a MassDEP-funded project evaluating 40 PFAS analytes in selected fresh waters. MDPH issued a site-specific advisory for PFAS in Long Pond in their May 2024 Freshwater Fish Consumption Advisory List and retained it in the January 2025 list. The public should refer to the most recent MDPH 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
F0454	MassDEP	Fish Toxics	Long Pond	[Yarmouth (impounded by Long Pond Dam, NAT ID: MA02494)]	41.669523	-70.197641

Fish Tissue Data

Summary of Fish Tissue Data and Resulting Fish Consumption Advisories (MA DPH 2025) (MassDEP 2023) (MassDEP Undated 7)

Summary
Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in this Long Pond AU (MA96180) at station F0454 in 2018 as part of the probabilistic lake surveys (MAP2); no advisory was identified by MDPH. Additionally, fish toxics sampling was conducted in this Long Pond AU (MA96180) at station F0454 (PFAS Study ID 24) on 10/18/2022 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 Long Pond in their May 2024 Freshwater Fish Consumption Advisory List and retained them in the January 2025 list. The site-specific MDPH advisories are indicative of a Fish Consumption Use impairment for PFAS in Fish Tissue for this Long Pond AU (MA96180).

MassDEP 2022 PFAS in Fish Tissue Data for Massachusetts Surface Waters (MassDEP 2023) (MassDEP Undated 7) (MA DPH 2023)

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

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

Station Code	PFAS Study ID	Sample Date	Species	Mean PFHxS ng/g	Mean PFNA ng/g	Mean PFOA ng/g	Mean PFOS ng/g	Analytes with ≥ 1 Sample Qualified
F0454	24	10/18/2022	LMB	ND	ND	ND	5.28	
F0454	24	10/18/2022	P	ND	ND	ND	2.75	

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for Long Pond (MA96180) is assessed as Fully Supporting based on observations made by MassDEP staff in 2018. MassDEP staff recorded aesthetics observations as part of the MAP2 lake monitoring project in summer 2018 at two stations in Yarmouth for this Long Pond AU, at the beach on southeastern edge of pond, north of the intersection of Samoset Road and Indian Memorial Drive (W2804/MAP2L-270S, n=5) and at the deep hole index station, eastern half of pond, west of Station Avenue (W2803/MAP2L-270, n=3). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, or littoral zone duckweed recorded in ten shoreline plots at W2804 (n=1), though field staff noted green water color once on separate occasions at both stations. During the MAP2 macrophyte mapping survey in Sep 2018 (n=1), less than 25% (22.8%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2803	MassDEP	Water Quality	Long Pond	[index site, eastern half of pond, west of Station Avenue, Yarmouth]	41.671685	-70.193271
W2804	MassDEP	Water Quality	Long Pond	[beach on southeastern edge of pond, north of the intersection of Samoset Road and Indian Memorial Drive, Yarmouth]	41.671542	-70.191574

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2803	2018	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2803 (MAP2L-270) on Long Pond (MA96180) during 3 site visits between Jun 2018 and Sep 2018. 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 Sep 2018, less than 25% (22.8%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%.
W2804	2018	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2804 (MAP2L-270S) on Long Pond (MA96180) during 5 site visits between May 2018 and Sep 2018. 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 littoral survey (n=1), duckweed was not noted in any of the 10 shoreline plots.

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2803	Long Pond	2018	Aesthetics Impaired?	No	3	3
W2803	Long Pond	2018	Aquatic Plant Density, Overall	None	3	3
W2803	Long Pond	2018	Color	Greenish	1	3
W2803	Long Pond	2018	Color	None	2	3
W2803	Long Pond	2018	Objectionable Deposits	No	3	3
W2803	Long Pond	2018	Odor	None	3	3
W2803	Long Pond	2018	Scum	No	3	3
W2803	Long Pond	2018	Turbidity	None	2	3
W2803	Long Pond	2018	Turbidity	Slightly Turbid	1	3
W2804	Long Pond	2018	Aesthetics Impaired?	No	5	5
W2804	Long Pond	2018	Color	Greenish	1	5
W2804	Long Pond	2018	Color	None	4	5
W2804	Long Pond	2018	Objectionable Deposits	No	5	5
W2804	Long Pond	2018	Odor	Musty (Basement)	1	5
W2804	Long Pond	2018	Odor	None	4	5
W2804	Long Pond	2018	Scum	No	4	5
W2804	Long Pond	2018	Scum	Yes	1	5
W2804	Long Pond	2018	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 Long Pond (MA96180) is assessed as Fully Supporting based on bacteria data collected at one station in 2018. In 2018 MassDEP staff collected Secchi depth and cyanobacteria cell count data at W2803 [MAP2L-270, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at W2804 [MAP2L-270S, Shoreline station at beach on southeastern edge of pond, North of the intersection of Samoset Rd and Indian Memorial Drive, Yarmouth]. At station W2803 (station depth=9.8 m) the Secchi depth measurements ranged from 3-6.6 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 W2804 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. In addition MassDEP staff collected *E. coli* bacteria samples in Long Pond at W2804 [beach on southeastern edge of pond, North of the intersection of Samoset Rd and Indian Memorial Drive, Yarmouth] from May-Sep 2018 (n=5). Analysis of the single year limited frequency dataset from this station indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 19 CFU/100ml, which meets 2024 CALM guidance. Surface water sampling was conducted in Long Pond (Yarmouth) at station W2804 (PFAS Study ID 24B) and at station W3287 (PFAS Study ID 24), on 10/18/2022 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
W2803	MassDEP	Water Quality	Long Pond	[index site, eastern half of pond, west of Station Avenue, Yarmouth]	41.671685	-70.193271
W2804	MassDEP	Water Quality	Long Pond	[beach on southeastern edge of pond, north of the intersection of Samoset Road and Indian Memorial Drive, Yarmouth]	41.671542	-70.191574
W3287	MassDEP	Water Quality	Long Pond	[the default location representing co-located water/fish PFAS sampling, Yarmouth]	41.669523	-70.197641

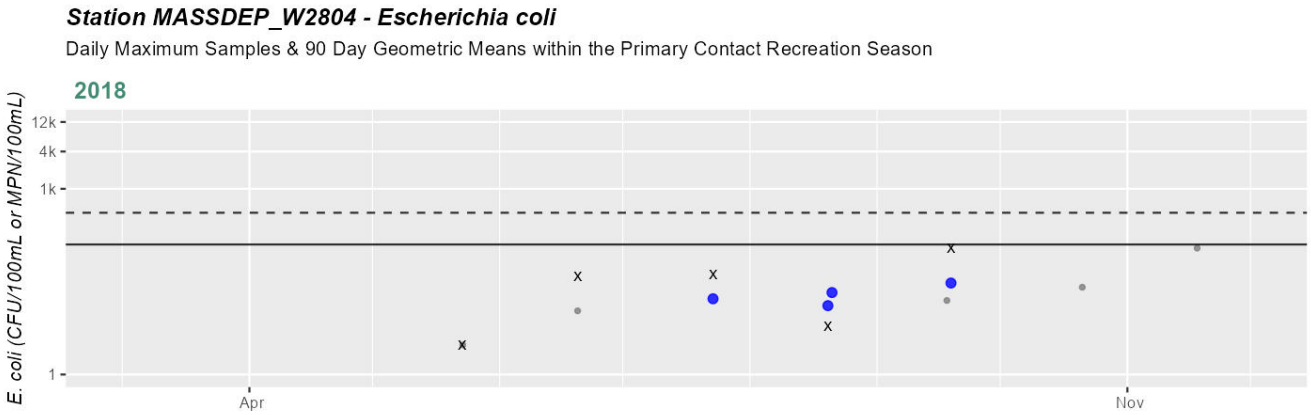
Bacteria Data

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

(MassDEP Undated 9) (MassDEP Undated 5)

[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
W2804	MassDEP	E. coli	05/23/18	09/19/18	5	3	110	19



Variable*	Result
Samples	5
SeasGM	19
#GMI	4
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Other Indicators

Summary Statement(s) for MassDEP 2022 PFAS in Water Column Data (MassDEP 2023) (MassDEP Undated 5)

Summary
Surface water sampling was conducted in Long Pond (Yarmouth) (MA96180) at station W2804 (PFAS Study ID 24B), the beach on the southeastern edge of the pond, on 10/18/2022 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.
Surface water sampling was conducted in Long Pond (Yarmouth) (MA96180) at station W3287 (PFAS Study ID 24) on 10/18/2022 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 5)

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

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

Station Code	PFAS Study ID	Sample Date	PFOA ng/L	PFOS ng/L	PFNA ng/L	PFHxS ng/L	PFBA ng/L	PFBS ng/L	HFPO-DA ng/L	∑PFAS6 ng/L
W2804	24B	10/18/2022	6.1	4.1d	0.72j	1.9j	3.1j	3.6	<2	15.9*
W3287	24	10/18/2022	5.9	##d	0.7j	1.6j	3j	3.9	<2	11.2*

Summary Statement for 2011-2022 Cyanobacteria Cell Count and Cyanotoxin Data, and Secchi Depth Data (MassDEP Undated 9) (MassDEP Undated 5)

Data Year(s)	Summary
2018	In Long Pond (MA96180) in 2018, MassDEP collected Secchi and cyanobacteria cell count data at W2803 [MAP2L-270, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at W2804 [MAP2L-270S, Shoreline]. At station W2803 (station depth=9.8 m) the Secchi depth measurements ranged from 3-6.6 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 W2804 (n=6) 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 9) (MassDEP Undated 5)

Station Code	Waterbody	Station Type	Data Year	Sample Count	Count >70,000 cells/mL	Exceedance Date(s)
W2803	Long Pond	Index	2018	3	0	NA
W2804	Long Pond	Shoreline	2018	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 Long Pond (MA96180) is assessed as Fully Supporting based on a re-evaluation of bacteria data collected at one station in 2018. In 2018 MassDEP staff collected cyanobacteria cell count data at W2803 [MAP2L-270, Index-deep hole] and cyanobacteria cell count and cyanotoxins data at W2804 [MAP2L-270S, Shoreline station at beach on southeastern edge of pond, North of the intersection of Samoset Rd and Indian Memorial Drive, Yarmouth]. 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 W2804 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. In addition MassDEP staff collected *E. coli* bacteria samples in Long Pond at W2804 from May-Sep 2018 (n=5). Analysis of the single year limited frequency dataset from this station indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 19 CFU/100ml, which meets 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2804	MassDEP	Water Quality	Long Pond	[beach on southeastern edge of pond, north of the intersection of Samoset Road and Indian Memorial Drive, Yarmouth]	41.671542	-70.191574

Bacteria Data

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

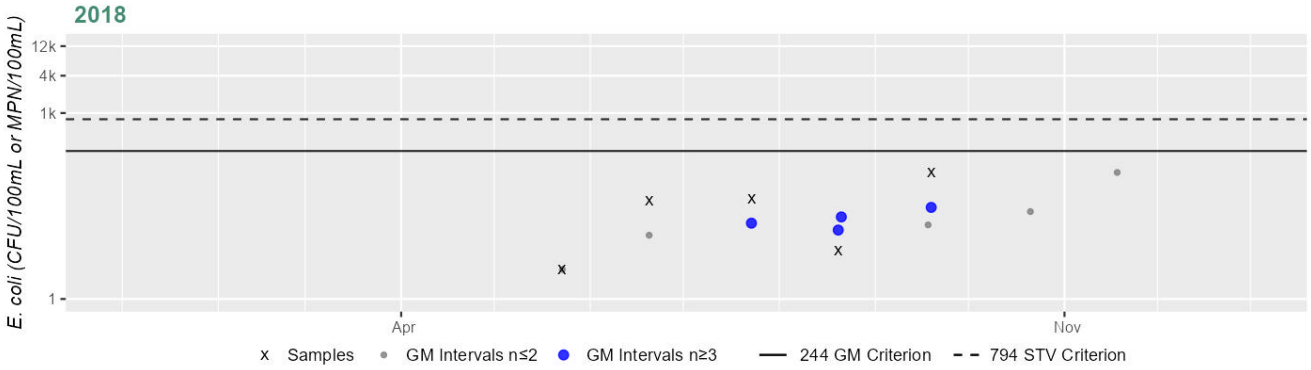
(MassDEP Undated 9) (MassDEP Undated 4)

[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
W2804	MassDEP	E. coli	05/23/18	09/19/18	5	3	110	19

Station MASSDEP_W2804 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	19
#GMI	4
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Long Pond (MA96181)

Location:	west of Santuit-Newton Road, Barnstable.
AU Type:	FRESHWATER LAKE
AU Size:	51 ACRES
Classification/Qualifier:	B

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

Recommendations

2024/26 Recommendations
2024/26IR [Harmful Algal Blooms, High] Follow-up monitoring should be conducted in Long Pond (MA96181) 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. C-HAB postings were reported to MDPH based on visual observations for 40 days in 2020, 58 days in 2021, and 37 days in 2022 and the cyanobacteria cell count exceeded the threshold once in July 2018. MAP2 stations were sampled for this pond in 2016 and 2018 {W2806} and {W2805}. This is a high priority;

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
There is Insufficient Information to assess the Fish Consumption Use for this Long Pond AU (MA96181). Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in Long Pond at station F0455 in 2018 as part of the probabilistic lake surveys (MAP2). However, no site-specific fish consumption advisory was issued by MDPH.

Fish Consumption Advisories

Summary of Fish Toxics Sampling and Resulting Fish Consumption Advisories (MassDEP Undated 7)

Summary Statement
Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in this Long Pond AU (MA96181) at station F0455 in 2018 as part of the probabilistic lake surveys (MAP2). No site-specific fish consumption advisory was issued by MDPH.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	YES

2024/26 Use Attainment Summary
The Aesthetics Use for Long Pond (MA96181) is assessed as Fully Supporting based on the general lack of objectionable conditions noted by MassDEP staff during the summer of 2016. However, an Alert is being identified for Harmful Algal Blooms in this waterbody since C-HAB postings (blooms of >15 days in duration) were reported to MDPH for 2020, 2021 and 2022. MassDEP staff recorded aesthetics observations as part of the MAP2 lake monitoring project in summer 2016 at two stations in Barnstable for this Long Pond AU (also known as Long Pond Marstons Mills); at the beach on northeastern edge of pond, south of Lake Shore Drive (W2806/MAP2L-274S, n=5) and at the index site, west of Santuit Newton Road (W2805/MAP2L-274, 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) and during the MAP2 macrophyte mapping survey in Aug 2018 (n=1), less than 25% (0.9%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%. During the period 2015 through 2022, C-HAB postings for Long Pond (MDPH name Long Pond Marstons Mills) were reported to MDPH based on visual observations for 40 days in 2020, 58 days in 2021, and 37 days in 2022. 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 in this waterbody and a recommendation for follow-up sampling will be made.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2805	MassDEP	Water Quality	Long Pond	[index site, west of Santuit Newton Road, Barnstable]	41.667100	-70.444149
W2806	MassDEP	Water Quality	Long Pond	[beach on northeastern edge of pond, south of Lake Shore Drive, Barnstable]	41.668446	-70.442946

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2805	2018	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2805 (MAP2L-274) on Long Pond (MA96181) during 3 site visits between Jul 2018 and Sep 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. During the MAP2 macrophyte mapping survey (n=1) in Aug 2018, less than 25% (0.9%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%.
W2806	2018	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2806 (MAP2L-274S) on Long Pond (MA96181) during 5 site visits between May 2018 and Sep 2018. 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 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2805	Long Pond	2018	Aesthetics Impaired?	No	3	3
W2805	Long Pond	2018	Aquatic Plant Density, Overall	None	3	3
W2805	Long Pond	2018	Color	None	3	3
W2805	Long Pond	2018	Objectionable Deposits	No	3	3
W2805	Long Pond	2018	Odor	None	3	3
W2805	Long Pond	2018	Scum	No	2	3
W2805	Long Pond	2018	Scum	Yes	1	3
W2805	Long Pond	2018	Turbidity	None	2	3
W2805	Long Pond	2018	Turbidity	Slightly Turbid	1	3
W2806	Long Pond	2018	Aesthetics Impaired?	No	5	5
W2806	Long Pond	2018	Color	None	5	5
W2806	Long Pond	2018	Objectionable Deposits	No	5	5
W2806	Long Pond	2018	Odor	None	5	5
W2806	Long Pond	2018	Scum	No	5	5
W2806	Long Pond	2018	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 2)

C-HAB Summary Statement
During the period 2015 through 2022, C-HAB postings for Long Pond (MDPH name Long Pond Marstons Mills) (MA96181) were reported to MDPH based on visual observations for 40 days in 2020, 58 days in 2021, and 37 days in 2022. 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 2)

[* indicates a C-HAB posting of unknown duration]

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
Long Pond (MDPH name Long Pond Marstons Mills)	Barnstable						40	58	37

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	YES

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Long Pond (MA96181) is assessed as Fully Supporting based on bacteria data collected at one station in 2018. An Alert is being identified for Harmful Algal Blooms and additional sampling is recommended for this AU since C-HAB postings (blooms of >15 days in duration) were reported to MDPH for 2020, 2021 and 2022 and the cyanobacteria cell count exceeded the threshold once in 2018.
During the period 2015 through 2022, C-HAB postings for Long Pond (MDPH name Long Pond Marstons Mills) were reported to MDPH based on visual observations for 40 days in 2020, 58 days in 2021, and 37 days in 2022. 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. In 2018, MassDEP staff collected Secchi depth and cyanobacteria cell count data at W2805 [MAP2L-274, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at W2806 [MAP2L-274S, Shoreline at beach on northeastern edge of pond, South of Lake Shore Drive, Barnstable]. At station W2805 (station depth=5.8 m) the Secchi depth measurements ranged from 2.65-4.4 m (n=3) indicating water clarity meeting the 1.2 m (4 ft) threshold. The cyanobacteria cell count exceeded 70,000 cells/mL for a single sample (412,835 cells) on Jul 23, 2018 (n=6). The elevated cyanobacteria cell count measurement is indicative of a Harmful Algal Blooms Alert, although analysis of microcystins and cylindrospermopsin samples from the shoreline station W2806 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. MassDEP staff collected *E. coli* bacteria samples in Long Pond at W2806 from May-Sep 2018 (n=5). Analysis of the single year limited frequency dataset from this station indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 7 CFU/100ml, which meets 2024 CALM guidance.

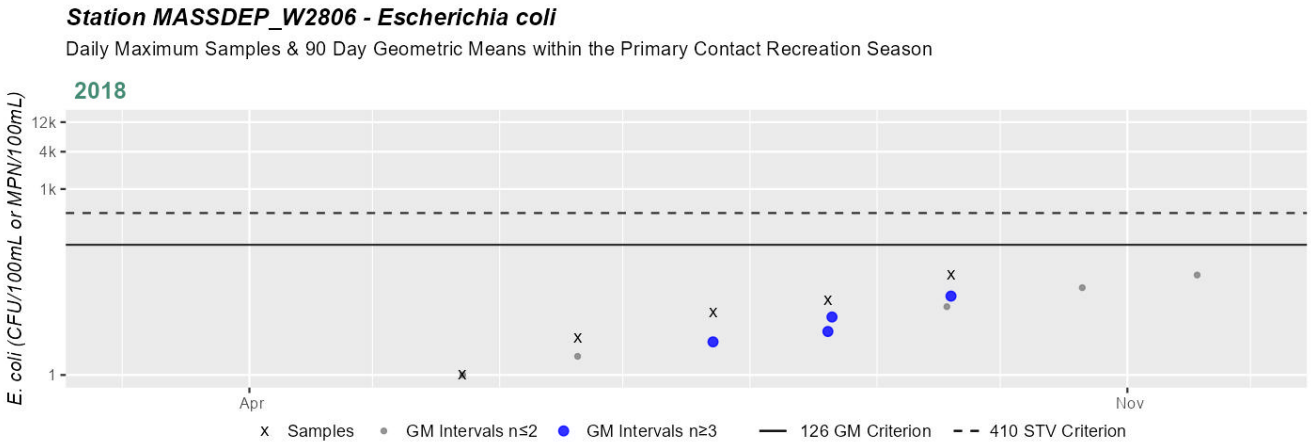
Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2805	MassDEP	Water Quality	Long Pond	[index site, west of Santuit Newton Road, Barnstable]	41.667100	-70.444149
W2806	MassDEP	Water Quality	Long Pond	[beach on northeastern edge of pond, south of Lake Shore Drive, Barnstable]	41.668446	-70.442946

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)
(MassDEP Undated 9) (MassDEP Undated 5)
[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
W2806	MassDEP	E. coli	05/23/18	09/19/18	5	1	41	7



Variable*	Result
Samples	5
SeasGM	7
#GMI	4
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Other Indicators

Summary Statement for 2011-2022 Cyanobacteria Cell Count and Cyanotoxin Data, and Secchi Depth Data (MassDEP Undated 9) (MassDEP Undated 5)

Data Year(s)	Summary
2018	In Long Pond (MA96181) in 2018, MassDEP collected Secchi and cyanobacteria cell count data at W2805 [MAP2L-274, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at W2806 [MAP2L-274S, Shoreline]. At station W2805 (station depth=5.8 m) the Secchi depth measurements ranged from 2.65-4.4 m (n=3) indicating water clarity meeting the 1.2 m (4 ft) threshold. The cyanobacteria cell count exceeded 70,000 cells/mL for a single sample on Jul 23, 2018 (n=6). The elevated cyanobacteria cell count measurement is indicative of a Harmful Algal Blooms Alert. Analysis of microcystins and cylindrospermopsin samples from the shoreline station W2806 (n=6) 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 9) (MassDEP Undated 5)

Station Code	Waterbody	Station Type	Data Year	Sample Count	Count >70,000 cells/mL	Exceedance Date(s)
W2805	Long Pond	Index	2018	3	0	NA
W2806	Long Pond	Shoreline	2018	3	1	7/23/2018

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	YES

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Long Pond (MA96181) is assessed as Fully Supporting based on a re-evaluation of bacteria data collected at one station in 2018. An Alert is being identified for Harmful Algal Blooms and additional sampling is recommended for this AU since C-HAB postings (blooms of >15 days in duration) were reported to MDPH for 2020, 2021 and 2022 and the cyanobacteria cell count exceeded the threshold once in 2018. During the period 2015 through 2022, C-HAB postings for Long Pond (MDPH name Long Pond Marstons Mills) were reported to MDPH based on visual observations for 40 days in 2020, 58 days in 2021, and 37 days in 2022. 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. In 2018, MassDEP staff collected Secchi depth and cyanobacteria cell count data at W2805 [MAP2L-274, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at W2806 [MAP2L-274S, Shoreline at beach on northeastern edge of pond, South of Lake Shore Drive, Barnstable]. At station W2805 (station depth=5.8 m) the Secchi depth measurements ranged from 2.65-4.4 m (n=3) indicating water clarity meeting the 1.2 m (4 ft) threshold. The cyanobacteria cell count exceeded 70,000 cells/mL for a single sample (412,835 cells) on Jul 23, 2018 (n=6). The elevated cyanobacteria cell count measurement is indicative of a Harmful Algal Blooms Alert, although analysis of microcystins and cylindrospermopsin samples from the shoreline station W2806 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. MassDEP staff collected *E. coli* bacteria samples in Long Pond at W2806 from May-Sep 2018 (n=5). Analysis of the single year limited frequency dataset from this station indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 7 CFU/100ml, which meets 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2806	MassDEP	Water Quality	Long Pond	[beach on northeastern edge of pond, south of Lake Shore Drive, Barnstable]	41.668446	-70.442946

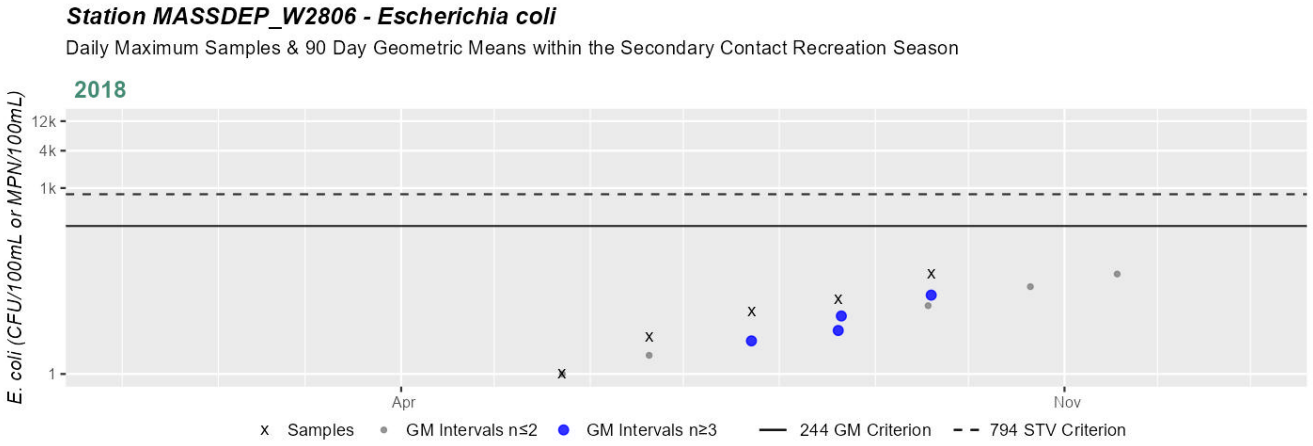
Bacteria Data

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

(MassDEP Undated 9) (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
W2806	MassDEP	E. coli	05/23/18	09/19/18	5	1	41	7



Variable*	Result
Samples	5
SeasGM	7
#GMI	4
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Long Pond (MA96183)

Location:	Brewster/Harwich.
AU Type:	FRESHWATER LAKE
AU Size:	715 ACRES
Classification/Qualifier:	B

No usable data were available for Long Pond (MA96183) 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	Dissolved Oxygen	--	Unchanged

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

Long Pond (MA96184)

Location:	Barnstable.
AU Type:	FRESHWATER LAKE
AU Size:	48 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Non-Native Aquatic Plants*)	--	Unchanged

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

Recommendations

2024/26 Recommendations
2024/26IR [Harmful Algal Blooms, Medium] Follow-up monitoring should be conducted in Long Pond (MA96184) 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. This is of medium priority;

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 Long Pond (MA96184) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Insufficient Information	YES

2024/26 Use Attainment Summary
Too limited data are available to assess the Aesthetics Use for Long Pond (MA96184), so it is assessed as having Insufficient Information. However, an Alert is being identified for Harmful Algal Blooms in this waterbody since C-HAB postings (blooms of >15 days in duration) were reported to MDPH for 2018, 2019 & 2020. During the period 2015 through 2022, C-HAB postings for Long Pond were reported to MDPH based on visual observations for 45 days in 2018, 35 days in 2019, 26 days in 2020, and 10 days in 2022. 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 in this waterbody and a recommendation for follow-up sampling will be made.

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

C-HAB Summary Statement
During the period 2015 through 2022, C-HAB postings for Long Pond (MA96184) were reported to MDPH based on visual observations for 45 days in 2018, 35 days in 2019, 26 days in 2020, and 10 days in 2022. 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 2)

[* indicates a C-HAB posting of unknown duration]

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
Long Pond	Barnstable				45	35	26		10

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 Long Pond (MA96184) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information. However, an Alert is being identified for Harmful Algal Blooms in this waterbody since C-HAB postings (blooms of >15 days in duration) were reported to MDPH for 2018, 2019 & 2020. During the period 2015 through 2022, C-HAB postings for Long Pond were reported to MDPH based on visual observations for 45 days in 2018, 35 days in 2019, 26 days in 2020, and 10 days in 2022. 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 Long Pond (MA96184) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information. However, an Alert is being identified for Harmful Algal Blooms in this waterbody since C-HAB postings (blooms of >15 days in duration) were reported to MDPH for 2018, 2019 & 2020. During the period 2015 through 2022, C-HAB postings for Long Pond were reported to MDPH based on visual observations for 45 days in 2018, 35 days in 2019, 26 days in 2020, and 10 days in 2022. 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.

Lovells Pond (MA96185)

Location:	Barnstable.
AU Type:	FRESHWATER LAKE
AU Size:	54 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Fish Passage Barrier*)	--	Unchanged
5	5	Chlorophyll-a	--	Unchanged
5	5	Dissolved Oxygen	--	Unchanged
5	5	Harmful Algal Blooms	--	Unchanged
5	5	Phosphorus, Total	--	Unchanged
5	5	Transparency / Clarity	--	Unchanged
5	5	Turbidity	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Habitat Modification - other than Hydromodification (Y)	X	--	--	--	--
Chlorophyll-a	Internal Nutrient Recycling (Y)	X	--	--	--	--
Chlorophyll-a	Source Unknown (N)	X	--	--	--	--
Dissolved Oxygen	Internal Nutrient Recycling (Y)	X	--	--	--	--
Dissolved Oxygen	Source Unknown (N)	X	--	--	--	--
Harmful Algal Blooms	Internal Nutrient Recycling (Y)	X	--	--	X	X
Harmful Algal Blooms	Source Unknown (N)	X	--	--	X	X

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Phosphorus, Total	Internal Nutrient Recycling (Y)	X	--	--	--	--
Phosphorus, Total	Source Unknown (N)	X	--	--	--	--
Transparency / Clarity	Internal Nutrient Recycling (Y)	--	--	--	X	--
Transparency / Clarity	Source Unknown (N)	--	--	--	X	--
Turbidity	Internal Nutrient Recycling (Y)	--	--	X	X	X
Turbidity	Source Unknown (N)	--	--	X	X	X

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Lovells Pond (MA96185) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for Lovells Pond (MA96185) continues to be assessed as Not Supporting, with the impairment for Turbidity being carried forward. Since the Transparency/Clarity impairment was redundantly duplicated across multiple uses for this waterbody, the Transparency/Clarity impairment is being removed from the Aesthetics Use but will continue to be maintained under the Primary Contact Recreation Use. The impairment for Harmful Algal Blooms is also being carried forward since C-HAB postings were reported to MDPH in a recent years. During the period 2015 through 2022, C-HAB postings for Lovells Pond were reported to MDPH based on visual observations for 12 days in 2017, 21 days in 2018, 18 days in 2019, 65 days in 2020, and 77 days in 2022. No blooms were reported in other years. Since blooms were reported in recent years this is reflective of the prior Harmful Algal Bloom impairment.

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

C-HAB Summary Statement
During the period 2015 through 2022, C-HAB postings for Lovells Pond (MA96185) were reported to MDPH based on visual observations for 12 days in 2017, 21 days in 2018, 18 days in 2019, 65 days in 2020, and 77 days in 2022. No blooms were reported in other years. Since blooms were reported in recent years, a 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.

Cyanobacteria Harmful Algal Bloom (C-HAB) Data (2015-2022) Provided by MDPH (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

[* indicates a C-HAB posting of unknown duration]

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
Lovells Pond	Barnstable			12	21	18	65		77

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Lovells Pond (MA96185) continues to be assessed as Not Supporting. The prior Harmful Algal Blooms impairment is being carried forward confirmed by the occurrence of C-HAB postings extending >20 days in 3 recent years. The prior Transparency / Clarity impairment and the Turbidity impairment (from the Aesthetics Use) are also being carried forward. During the period 2015 through 2022, C-HAB postings for Lovells Pond were reported to MDPH based on visual observations for 12 days in 2017, 21 days in 2018, 18 days in 2019, 65 days in 2020, and 77 days in 2022. Since blooms were reported in recent years this is reflective of the existing Harmful Algal Bloom impairment for Lovells Pond. In 2017 EPA National Aquatic Resources Survey (NARS_WQX) collected Secchi depth and cyanotoxin data in the middle of Lovells Pond at NARS_WQX-NLA_MA-10032 (station depth=10.9 m). At this station the Secchi depth (n=1) was measured to be 3.15 m on Aug 15, 2017 which meets the 1.2 m (4 ft) threshold, however this data were too limited (n <3) to evaluate water clarity. Analysis of microcystins and cylindrospermopsin samples from NARS_WQX-NLA_MA-10032 (n=2) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. EPA (NARS) staff/volunteers also collected *E. coli* bacteria samples in Lovells Pond at NARS_WQX-NLA_MA-10032 in Aug 2017 (n=1). These bacteria data are too limited according to the 2024 CALM to assess the Primary Contact Recreation Use.

Monitoring Stations

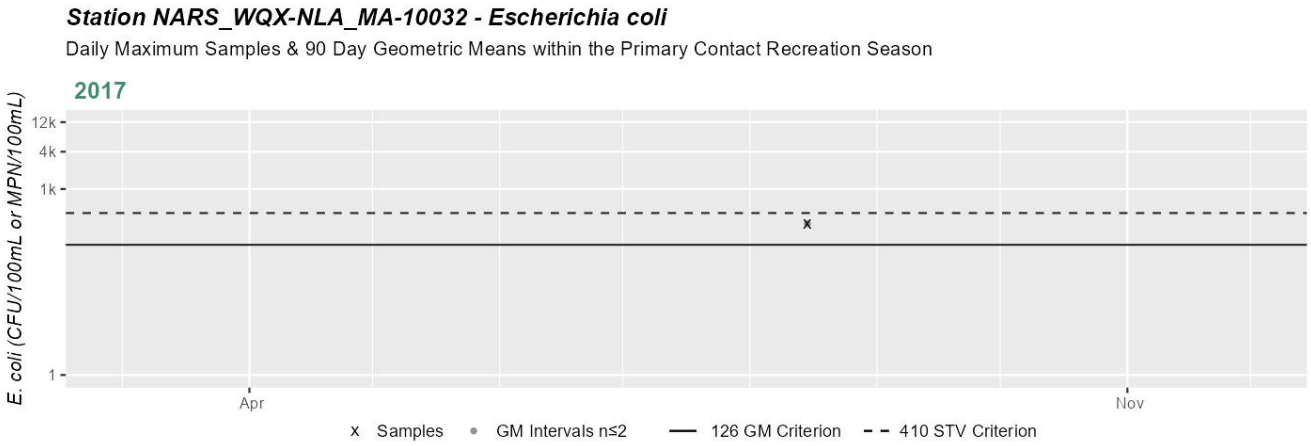
Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
NARS_WQX-NLA_MA-10032	EPA National Aquatic Resources Survey (NARS)	Water Quality	Lovells Pond	Lovells Pond	41.648460	-70.441780

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (EPA 2024) (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-10032	EPA National Aquatic Resources Survey (NARS)	E. coli	08/15/17	08/15/17	1	275	275	275



Variable*	Result
Samples	1
SeasGM	275
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Other Indicators

Summary Statement for 2011-2022 Cyanobacteria Cell Count and Cyanotoxin Data, and Secchi Depth Data (NWQMC 2025) (MassDEP Undated 3)

Data Year(s)	Summary
2017	In Lovells Pond (MA96185), EPA (NARS) collected Secchi depth and cyanotoxin data at NARS_WQX-NLA_MA-10032 in 2017. At station NARS_WQX-NLA_MA-10032 (station depth=10.9 m) the Secchi depth (n=1) was measured to be 3.15 m on Aug 15, 2017 indicating water clarity meeting the 1.2 m (4 ft) threshold. Analysis of microcystins and cylindrospermopsin samples from NARS_WQX-NLA_MA-10032 in 2017 (n=2) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Lovells Pond (MA96185) continues to be assessed as Not Supporting. The prior Harmful Algal Blooms impairment is being carried forward confirmed by the occurrence of C-HAB postings extending >20 days in 3 recent years. The prior Turbidity impairment (from the Aesthetics Use) is being carried forward. Since the Transparency / Clarity impairment is being removed from the Aesthetics Use this cycle, this impairment is also being removed from the Secondary Contact Recreation Use.
During the period 2015 through 2022, C-HAB postings for Lovells Pond were reported to MDPH based on visual observations for 12 days in 2017, 21 days in 2018, 18 days in 2019, 65 days in 2020, and 77 days in 2022. Since blooms were reported in recent years this is reflective of the existing Harmful Algal Bloom impairment for Lovells Pond. In 2017 EPA National Aquatic Resources Survey (NARS_WQX) collected cyanotoxin data in the middle of Lovells Pond at NARS_WQX-NLA_MA-10032. Analysis of microcystins and cylindrospermopsin samples from this station (n=2) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. MassDEP and EPA (NARS) staff/volunteers also collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in Lovells Pond from 2009-2017 at 2 stations. Samples were collected from the following stations/sample years: W1982 [public boat launch on western shore, East off Santuit Newton Rd, Barnstable] from May-Oct 2009 (n=6) and in the middle of the pond at NARS_WQX-NLA_MA-10032 from Aug 2017 (n=1). The available *E. coli* data at station NARS_WQX-NLA_MA-10032 are too limited to assess according to the 2024 CALM. However, analysis of the historic single year limited frequency dataset from station W1982 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV and the overall GM was 22 CFU/100ml, which meets 2024 CALM guidance. While the historic bacteria concentrations in Lovells Pond 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
NARS_WQX-NLA_MA-10032	EPA National Aquatic Resources Survey (NARS)	Water Quality	Lovells Pond	Lovells Pond	41.648460	-70.441780
W1982	MassDEP	Water Quality	Lovells Pond	[public boat launch on western shore, east off Santuit Newton Road, Barnstable]	41.648866	-70.445285

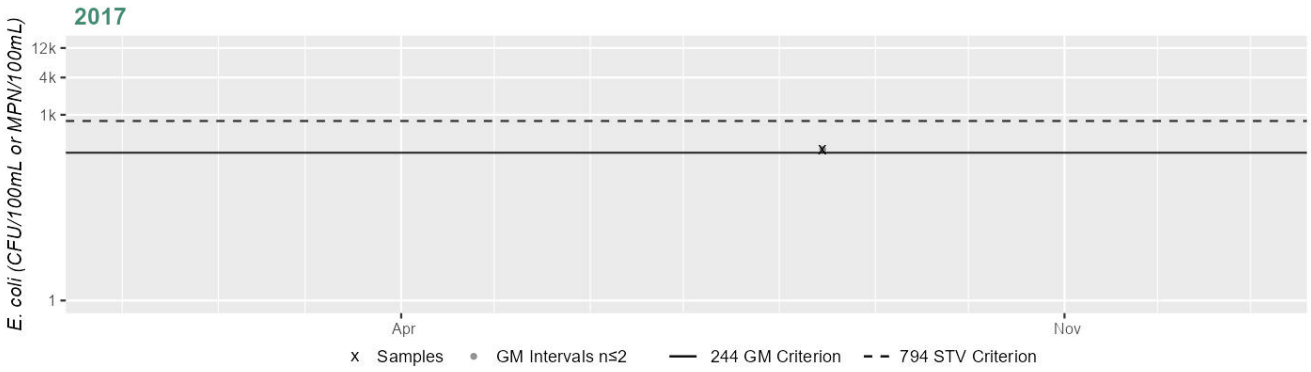
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis) (EPA 2024) (MassDEP Undated 2) (MassDEP Undated 9) (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-10032	EPA National Aquatic Resources Survey (NARS)	E. coli	08/15/17	08/15/17	1	275	275	275
W1982	MassDEP	E. coli	05/19/09	10/06/09	6	10	140	22

Station NARS_WQX-NLA_MA-10032 - Escherichia coli

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



Variable*	Result
Samples	1
SeasGM	275
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

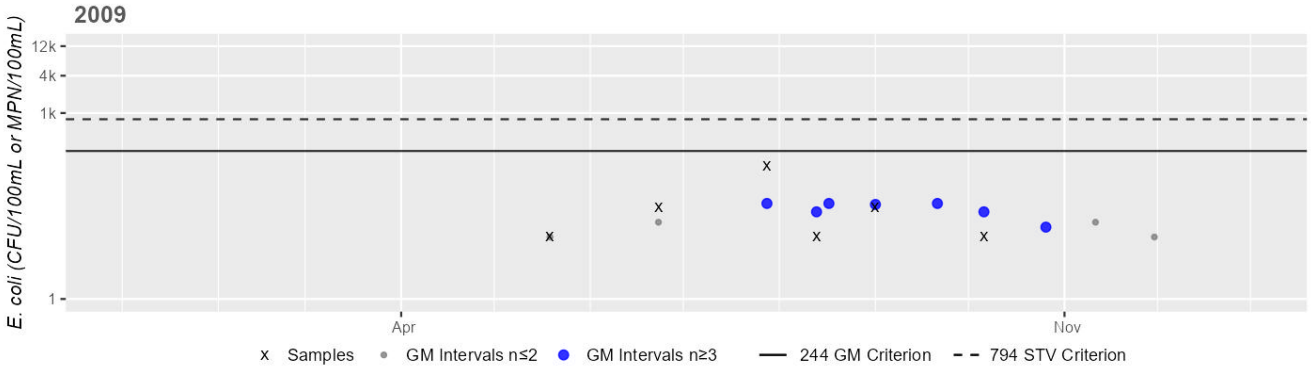
Current (2011-2022)

0%

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

Station MASSDEP_W1982 - Escherichia coli

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



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

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

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

Lovers Lake (MA96186)

Location:	Chatham.
AU Type:	FRESHWATER LAKE
AU Size:	37 ACRES
Classification/Qualifier:	B: ORW, WWF

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

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Transparency / Clarity	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 Lovers Lake (MA96186) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
Too limited data are available to evaluate the Aesthetics Use of Lovers Lake (MA96186), so it is assessed as having Insufficient Information. Since the prior Transparency/Clarity impairment was redundantly duplicated across multiple uses for this waterbody, the Transparency/Clarity impairment is being removed from the Aesthetics Use but will continue to be maintained under the Primary Contact Recreation Use.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Lovers Lake (MA96186) are available, so the Primary Contact Recreation Use continues to be assessed as Not Supporting. The prior Transparency / Clarity 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 Lovers Lake (MA96186) so it is assessed as having Insufficient Information. Since the Transparency / Clarity impairment is being removed from the Aesthetics Use this cycle, this impairment is also being removed from the Secondary Contact Recreation Use.

Lower Mill Pond (MA96188)

Location:	Brewster.
AU Type:	FRESHWATER LAKE
AU Size:	44 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Algae	--	Unchanged
5	5	Chlorophyll-a	--	Unchanged
5	5	Phosphorus, Total	--	Unchanged
5	5	Turbidity	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Algae	Source Unknown (N)	X	--	--	--	--
Chlorophyll-a	Source Unknown (N)	X	--	--	--	--
Phosphorus, Total	Source Unknown (N)	X	--	--	--	--
Turbidity	Source Unknown (N)	X	--	--	--	--

Recommendations

2024/26 Recommendations
2024/26IR [Harmful Algal Blooms, Medium] Follow-up monitoring should be conducted in Lower Mill Pond (MA96188), to determine if Harmful Algal Blooms may be impairing the Recreational and Aesthetic uses. C-HAB postings were reported to MDPH based on visual observations for 69 days in 2022. Monitoring should include observational data and collection of cyanobacteria cell count data, as well as continued reporting of algal blooms to MDPH. This is of medium priority.

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 Lower Mill Pond (MA96188) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Insufficient Information	YES

2024/26 Use Attainment Summary
Too limited data are available to assess the Aesthetics Use for Lower Mill Pond (MA96188), so it is assessed as having Insufficient Information. However, an Alert is being identified for Harmful Algal Blooms in this waterbody since C-HAB postings (blooms of >15 days in duration) were reported to MDPH in 2022. During the period 2015 through 2022, C-HAB postings for Lower Mill Pond were reported to MDPH based on visual observations for 69 days in 2022 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 in this waterbody and a recommendation for follow-up sampling will be made.

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

C-HAB Summary Statement
During the period 2015 through 2022, C-HAB postings for Lower Mill Pond (MA96188) were reported to MDPH based on visual observations for 69 days in 2022. 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 2)

[* indicates a C-HAB posting of unknown duration]

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
Lower Mill Pond	Brewster								69

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 Lower Mill Pond (MA96188) 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 Blooms since C-HAB postings (blooms of >15 days in duration) were reported to MDPH in 2022. During the period 2015 through 2022, C-HAB postings for Lower Mill Pond were reported to MDPH based on visual observations for 69 days in 2022 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, 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 in the current IR window (2011-2022) to assess the Secondary Contact Recreation Use for Lower Mill Pond (MA96188) 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 Blooms since C-HAB postings (blooms of >15 days in duration) were reported to MDPH in 2022.
During the period 2015 through 2022, C-HAB postings for Lower Mill Pond were reported to MDPH based on visual observations for 69 days in 2022 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, a Harmful Algal Bloom Alert is being identified for this waterbody and a recommendation for follow-up sampling will be made. MassDEP staff collected *E. coli* bacteria samples in Lower Mill Pond at station W1928 [top of fish ladder at pond outlet, Brewster] from May-Oct 2009 (n=6). Analysis of the historic single year limited frequency dataset from this station indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 13 CFU/100ml, which meets 2024 CALM guidance. However, 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
W1928	MassDEP	Water Quality	Lower Mill Pond	[top of fish ladder at pond outlet, Brewster]	41.744099	-70.112357

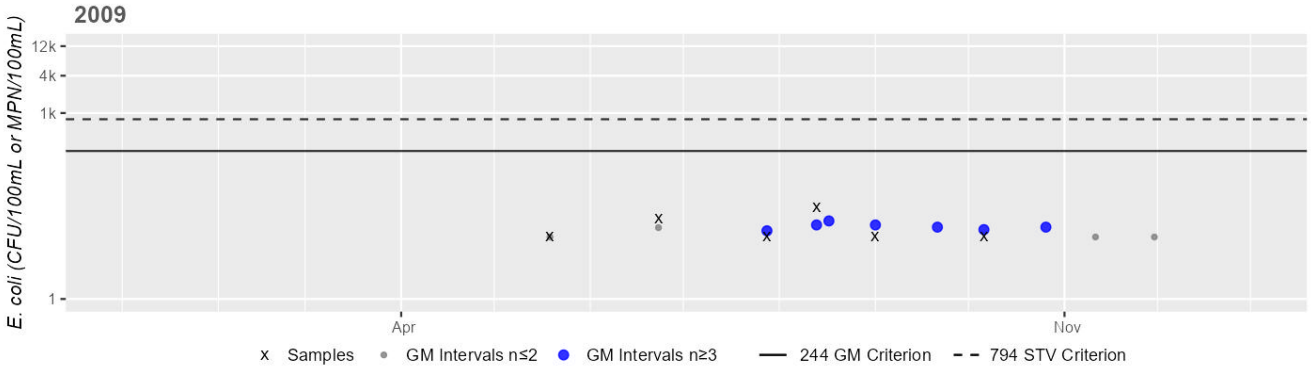
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(MassDEP Undated 9) (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
W1928	MassDEP	E. coli	05/19/09	10/06/09	6	10	30	13

Station MASSDEP_W1928 - Escherichia coli

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



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

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

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

Lumbert Pond (MA96189)

Location:	Barnstable.
AU Type:	FRESHWATER LAKE
AU Size:	10 ACRES
Classification/Qualifier:	B

No usable data were available for Lumbert Pond (MA96189) 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	None	--	Unchanged

Maraspin Creek (MA96-06)

Location:	From Commerce Road, Barnstable to mouth at inlet Barnstable Harbor at Blish Point, Barnstable.
AU Type:	ESTUARY
AU Size:	0.03 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Fecal Coliform	36771	Unchanged
5	5	Nutrient/Eutrophication Biological Indicators	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Nutrient/Eutrophication Biological Indicators	Animal Holding/Management Areas (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nutrient/Eutrophication Biological Indicators	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Maraspin Creek (MA96-06) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
There is insufficient information available to delist the existing Fecal Coliform impairment so the Shellfish Harvesting Use for Maraspin Creek (MA96-06) will continue to be assessed as Not Supporting. The total of all shellfish growing area classifications (MassGIS, 2024) within Maraspin Creek is 0.0228 sq mi (84%). The approved shellfish growing area represents 0 sq mi (0%) and the prohibited shellfish growing area represents 0.0227 sq mi (83%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as a combination of approved and prohibited.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
CCB31.2	Millway Beach Mooring Area	Conditionally Approved	0.00007	0.2%
CCB32.0	Inner Barnstable Harbor	Prohibited	0.02270	83.4%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Maraspin Creek (MA96-06) 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 Maraspin Creek (MA96-06) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0228 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Maraspin Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Maraspin Creek (MA96-06): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0228 sq mi (84%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Maraspin Creek (MA96-06) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0228 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Maraspin Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Maraspin Creek (MA96-06): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0228 sq mi (84%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Marstons Mills River (MA96-127)

Location:	Headwaters outlet Middle Pond, Barnstable to salt water portion approximately 1000 feet south of Route 28 (Falmouth Road), Barnstable.
AU Type:	RIVER
AU Size:	2 MILES
Classification/Qualifier:	B

No usable data were available for Marstons Mills River (MA96-127) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Mashpee Pond (MA96194)

Location:	Mashpee/Sandwich.
AU Type:	FRESHWATER LAKE
AU Size:	377 ACRES
Classification/Qualifier:	B

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

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Dissolved Oxygen	Source Unknown (N)	X	--	--	--	--
Mercury in Fish Tissue	Atmospheric Deposition (Y)	--	X	--	--	--
Mercury in Fish Tissue	Source Unknown (N)	--	X	--	--	--
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 Mashpee Pond (MA96194) continues to be assessed as Not Supporting. The prior Mercury in Fish Tissue impairment is being carried forward and a new impairment is being added for PFAS in Fish Tissue. Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in Mashpee Pond at station F0089 in 2018 as part of the probabilistic lake surveys (MAP2). Additionally, fish toxics sampling was conducted at Mashpee Pond in Mashpee/Sandwich in May 2021 as part of a MDPH pilot study assessing 40 PFAS analytes in fish tissue samples collected on Cape Cod. MDPH issued a site-specific advisory for PFAS in Mashpee Pond (referred to by MDPH as ''Mashpee Pond (Mashpee-Wakeby Pond)'') in their October 2021 Freshwater Fish Consumption Advisory List and retained both this advisory as well as the existing Mercury advisory in the January 2025 list. The public should refer to the most recent MDPH 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) (MassDEP Undated 7) (MA DPH 2021)

Summary Statement
Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in Mashpee Pond (MA96194) at station F0089 in 2018 as part of the probabilistic lake surveys (MAP2). Additionally, fish toxics sampling was conducted at Mashpee Pond (MA96194) in Mashpee/Sandwich in May 2021 as part of a MDPH pilot study assessing 40 PFAS analytes in fish tissue samples collected on Cape Cod. Because of elevated PFAS measured in fish filets, MDPH issued site-specific fish consumption advisories for Mashpee Pond (referred to by MDPH as Mashpee Pond (Mashpee-Wakeby Pond)) in their October 2021 Freshwater Fish Consumption Advisory List and retained them in the January 2025 list. Additionally, MDPH retained the existing site-specific fish consumption advisories for Mercury associated with Mashpee Pond (referred to by MDPH as Mashpee Pond (Mashpee-Wakeby Pond)) in their January 2025 Freshwater Fish Consumption Advisory List. The site-specific MDPH advisories are indicative of Fish Consumption Use impairments for PFAS in Fish Tissue and Mercury in Fish Tissue for Mashpee Pond (MA96194).

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for Mashpee Pond (MA96194) is assessed as Fully Supporting based on observations made by MassDEP field staff during a macrophyte survey in 2018. MassDEP staff recorded aesthetics observations as part of the MAP2 lake monitoring project in summer 2018 at two stations in Mashpee for Mashpee Pond (also known as Mashpee/Wakeby Pond); at the southern tip of pond, north off Lake Avenue (W2807/MAP2L-290S, n=5) and at the deep hole index site (W1308/MAP2L-290, n=3). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, or littoral zone duckweed recorded in ten shoreline plots (n=1), though field staff noted green water color on one occasion at W1308. During the MAP2 macrophyte mapping survey in Aug 2018 (n=1), less than 25% (0.2%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%. During the period 2015 through 2022, C-HAB postings for Mashpee Pond (MDPH name Mashpee-Wakeby Pond) were reported to MDPH based on visual observations for 12 days in 2021 and 7 days in 2022. 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.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1308	MassDEP	Water Quality	Mashpee Pond	[deep hole, Mashpee]	41.656912	-70.483911
W2807	MassDEP	Water Quality	Mashpee Pond	[southern tip of pond, north off Lake Avenue, Mashpee]	41.651447	-70.483327

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W1308	2018	3	Aesthetic observations were made by MassDEP field sampling crews at Station W1308 (MAP2L-290) on Mashpee Pond (MA96194) during 3 site visits between Jun 2018 and Sep 2018. 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 2018, less than 25% (0.2%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%.
W2807	2018	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2807 (MAP2L-290S) on Mashpee Pond (MA96194) during 5 site visits between May 2018 and Sep 2018. 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 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W1308	Mashpee Pond	2018	Aesthetics Impaired?	No	3	3
W1308	Mashpee Pond	2018	Aquatic Plant Density, Overall	None	3	3
W1308	Mashpee Pond	2018	Color	Greenish	1	3
W1308	Mashpee Pond	2018	Color	None	2	3
W1308	Mashpee Pond	2018	Objectionable Deposits	No	3	3
W1308	Mashpee Pond	2018	Odor	None	2	3
W1308	Mashpee Pond	2018	Odor	Sulfide (rotten egg)	1	3
W1308	Mashpee Pond	2018	Scum	No	3	3
W1308	Mashpee Pond	2018	Turbidity	None	3	3
W2807	Mashpee Pond	2018	Aesthetics Impaired?	No	4	5
W2807	Mashpee Pond	2018	Aesthetics Impaired?	NR	1	5
W2807	Mashpee Pond	2018	Color	None	5	5
W2807	Mashpee Pond	2018	Objectionable Deposits	No	5	5
W2807	Mashpee Pond	2018	Odor	None	5	5
W2807	Mashpee Pond	2018	Scum	No	5	5
W2807	Mashpee Pond	2018	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 2)

C-HAB Summary Statement
During the period 2015 through 2022, C-HAB postings for Mashpee Pond (MDPH name Mashpee-Wakeby Pond) (MA96194) were reported to MDPH based on visual observations for 12 days in 2021 and 7 days in 2022. 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.

Cyanobacteria Harmful Algal Bloom (C-HAB) Data (2015-2022) Provided by MDPH (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

[* indicates a C-HAB posting of unknown duration]

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
Mashpee Pond (MDPH name Mashpee-Wakeby Pond)	Mashpee							12	7

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Mashpee Pond (MA96194) is assessed as Fully Supporting based on bacteria data collected by MassDEP staff in 2018. During the period 2015 through 2022, C-HAB postings for Mashpee Pond (MDPH name Mashpee-Wakeby Pond) in Mashpee/Sandwich, were reported to MDPH based on visual observations for 12 days in 2021 and 7 days in 2022. 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. In 2018 MassDEP staff collected Secchi depth and cyanobacteria cell count data at station W1308 [MAP2L-290, Index-deep hole] and cyanobacteria cell count and cyanotoxin data at station W2807 [MAP2L-290S, Shoreline at southern tip of pond, North off Lake Avenue, Mashpee]. At station W1308 (station depth=28.4 m) the Secchi depth measurements ranged from 3.92-5.1 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 and cylindrospermopsin samples from the shoreline station W2807 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. MassDEP staff also collected *E. coli* bacteria samples in Mashpee Pond at station W2807 from May-Sep 2018 (n=5). Analysis of the single year limited frequency dataset from this station indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 2 CFU/100ml, which meets 2024 CALM guidance. MDPH contractors conducted surface water sampling at Mashpee Pond in May 2021 as part of a pilot study assessing 40 PFAS analytes in surface water and fish tissue samples collected from waterbodies on Cape Cod. In this study, MDPH evaluated four PFAS compounds (PFHxS, PFNA, PFOA, PFOS) individually against a candidate Surface Water Action Level (cSWAL) of 23 ng/L (ppt). All four compounds had concentrations less than the cSWAL, with the maximum being 0.757 ng/L of PFOA.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1308	MassDEP	Water Quality	Mashpee Pond	[deep hole, Mashpee]	41.656912	-70.483911
W2807	MassDEP	Water Quality	Mashpee Pond	[southern tip of pond, north off Lake Avenue, Mashpee]	41.651447	-70.483327

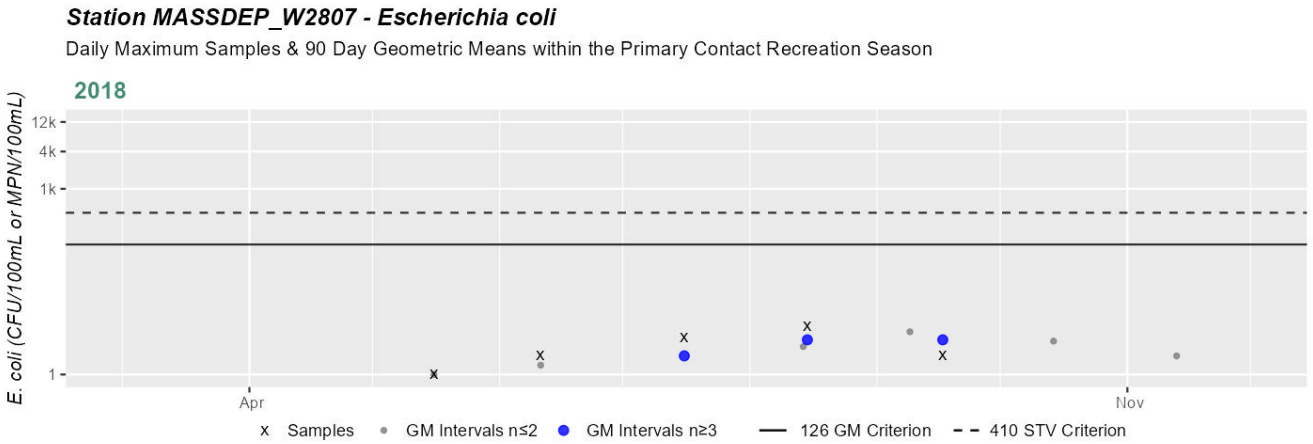
Bacteria Data

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

(MassDEP Undated 9) (MassDEP Undated 5)

[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
W2807	MassDEP	E. coli	05/16/18	09/17/18	5	1	6	2



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

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

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

Other Indicators

Summary Statement for 2011-2022 Cyanobacteria Cell Count and Cyanotoxin Data, and Secchi Depth Data (MassDEP Undated 9) (MassDEP Undated 5)

Data Year(s)	Summary
2018	In Mashpee Pond (MA96194) in 2018, MassDEP collected Secchi and cyanobacteria cell count data at W1308 [MAP2L-290, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at W2807 [MAP2L-290S, Shoreline]. At station W1308 (station depth=28.4 m) the Secchi depth measurements ranged from 3.92-5.1 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 and cylindrospermopsin samples from the shoreline station W2807 (n=6) 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 9) (MassDEP Undated 5)

Station Code	Waterbody	Station Type	Data Year	Sample Count	Count >70,000 cells/mL	Exceedance Date(s)
W1308	Mashpee Pond	Index	2018	3	0	NA
W2807	Mashpee Pond	Shoreline	2018	3	0	NA

Summary of MA DPH 2021 and 2022 PFAS in Water Column Data

Data Sources: (Nascarella 2021, MA DPH 2021)

MDPH contractors conducted surface water sampling at Mashpee Pond (MA96194) in Mashpee/Sandwich in May 2021 as part of a pilot study assessing 40 PFAS analytes in surface water and fish tissue samples collected from waterbodies on Cape Cod. In this study, MDPH evaluated four PFAS compounds (PFHxS, PFNA, PFOA, PFOS) individually against a candidate Surface Water Action Level (cSWAL) of 23 ng/L (ppt). All four compounds had concentrations less than the cSWAL, with the maximum being 0.757 ng/L of PFOA.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Mashpee Pond (MA96194) is assessed as Fully Supporting based on a re-evaluation of bacteria data collected by MassDEP staff in 2018. During the period 2015 through 2022, C-HAB postings for Mashpee Pond (MDPH name Mashpee-Wakeby Pond) were reported to MDPH based on visual observations for 12 days in 2021 and 7 days in 2022. 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. In 2018 MassDEP staff collected cyanobacteria cell count data at W1308 [MAP2L-290, Index-deep hole] and cyanobacteria cell count and cyanotoxins data at W2807 [MAP2L-290S, Shoreline at southern tip of pond, North off Lake Avenue, Mashpee]. The cyanobacteria cell count did not exceed 70,000 cells/ml in any of the water samples in 2018 (n=6). Analysis of microcystins and cylindrospermopsin samples from W2807 in 2018 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. MassDEP staff also collected *E. coli* bacteria samples in Mashpee Pond at station W2807 from May-Sep 2018 (n=5). Analysis of the single year limited frequency dataset from this station indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 2 CFU/100ml which meets 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2807	MassDEP	Water Quality	Mashpee Pond	[southern tip of pond, north off Lake Avenue, Mashpee]	41.651447	-70.483327

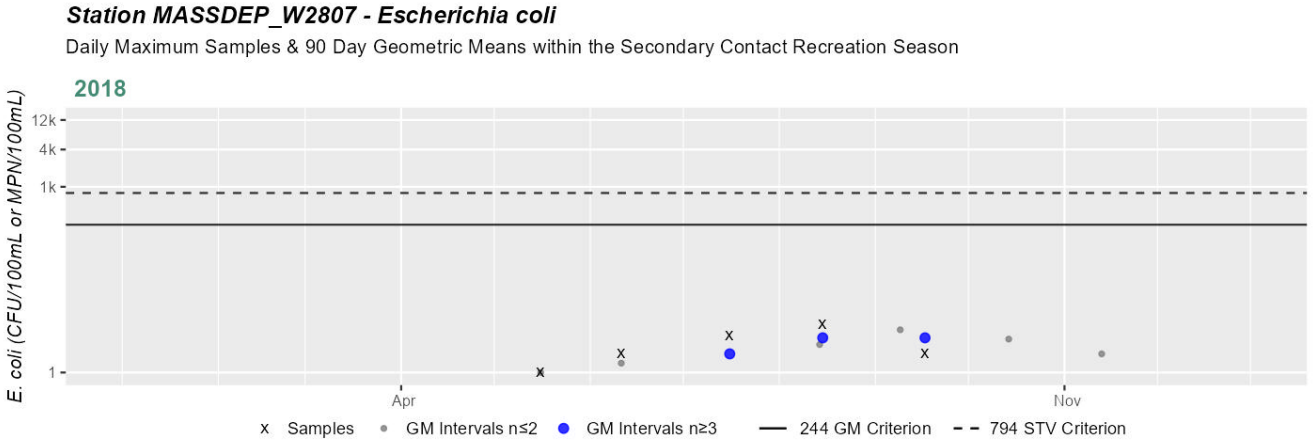
Bacteria Data

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

(MassDEP Undated 9) (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
W2807	MassDEP	E. coli	05/16/18	09/17/18	5	1	6	2



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

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

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

Mashpee River (MA96-24)

Location:	Quinaquisset Avenue, Mashpee to mouth at inlet Shoestring Bay (formerly to mouth at Popponesset Bay), Mashpee.
AU Type:	ESTUARY
AU Size:	0.08 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Estuarine Bioassessments	33965	Unchanged
4a	4a	Fecal Coliform	36771	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Agriculture (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Golf Courses (Y)	X	--	--	--	--	--
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Mashpee River (MA96-24) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Mashpee River (MA96-24): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0777 sq mi (94%). The approved shellfish growing area represents 0 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC20.1	Mashpee River	Conditionally Approved	0.03040	36.8%
SC20.3	Shoestring Bay	Conditionally Approved	0.00153	1.8%

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC20.4	Mashpee River North	Prohibited	0.04580	55.4%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Mashpee River (MA96-24) 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 the Mashpee River (MA96-24) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0777 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Mashpee River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Mashpee River (MA96-24): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0777 sq mi (94%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary

No bacteria data are available to assess the Secondary Contact Recreation Use for the Mashpee River (MA96-24) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0777 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that the shellfish classification data were too limited to assess Secondary Contact Recreation Use for Mashpee River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

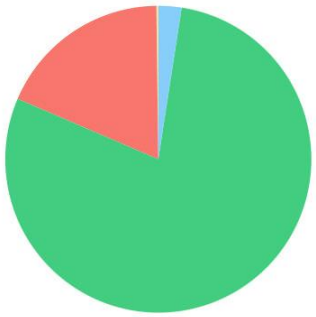
Summary
Mashpee River (MA96-24): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0777 sq mi (94%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Mashpee River (MA96-89)

Location:	Headwaters, outlet Mashpee Pond, Mashpee to Quinaquisset Avenue, Mashpee.
AU Type:	RIVER
AU Size:	2.7 MILES
Classification/Qualifier:	B

Mashpee River (MA96-89)

Watershed Area: 13.43 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	13.43	3.51	2.99	1.16
Agriculture	0.2%	0%	0.5%	0%
Developed	18.4%	19.1%	8.1%	8.3%
Natural	79%	75.1%	82.7%	76.8%
Wetland	2.4%	5.9%	8.6%	14.8%
Impervious	7.8%	10.3%	3.9%	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 Mashpee River (MA96-89) 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 Mashpee River (MA96-89) 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 Mashpee River (MA96-89) 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 Mashpee River (MA96-89) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Middle Pond (MA96198)

Location:	Barnstable.
AU Type:	FRESHWATER LAKE
AU Size:	104 ACRES
Classification/Qualifier:	B

No usable data were available for Middle Pond (MA96198) 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	(Curly-leaf Pondweed*)	--	Unchanged
5	5	Dissolved Oxygen	--	Unchanged
5	5	Harmful Algal Blooms	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Curly-leaf Pondweed*)	Source Unknown (N)	X	--	--	--	--
Dissolved Oxygen	Source Unknown (N)	X	--	--	--	--
Harmful Algal Blooms	Source Unknown (N)	--	--	X	X	X

Mill Creek (MA96-37)

Location:	Headwaters outlet Hallets Millpond, Barnstable/Yarmouth to mouth at inlet Cape Cod Bay, Barnstable/Yarmouth.
AU Type:	ESTUARY
AU Size:	0.03 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	36771	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Mill Creek (MA96-37) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Mill Creek (MA96-37): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0271 sq mi (89%). The approved shellfish growing area represents 0 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
CCB29.0	Mill Creek and Hallets Mill Pond	Conditionally Approved	0.02712	89.4%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Mill Creek (MA96-37) 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 Mill Creek (MA96-37) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0271 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means shellfish classification data were too limited to assess the Primary Contact Recreation Use for Mill Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Mill Creek (MA96-37): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0271 sq mi (89%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Mill Creek (MA96-37) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0271 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Mill Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Mill Creek (MA96-37): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0271 sq mi (89%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Mill Creek (MA96-41)

Location:	Headwaters outlet Taylors Pond, Chatham to mouth at inlet Cockle Cove, Chatham.
AU Type:	ESTUARY
AU Size:	0.03 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	36772	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Unspecified Urban Stormwater (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Mill Creek (MA96-41) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Mill Creek (MA96-41): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0261 sq mi (85%). The approved shellfish growing area represents 0.0011 sq mi (4%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC42.0	Chatham South Coastal	Approved	0.00108	3.5%
SC44.0	Mill Creek	Conditionally Approved	0.02497	80.8%
SC45.0	Taylors Pond	Conditionally Approved	0.00007	0.2%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Mill Creek (MA96-41) 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 Mill Creek (MA96-41) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0261 sq mi) in this AU are less than 100% approved (0.0011 sq mi, 4%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Mill Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Mill Creek (MA96-41): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0261 sq mi (85%). The approved shellfish growing area represents 0.0011 sq mi (4%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Mill Creek (MA96-41) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0261 sq mi) in this AU are less than 100% approved (0.0011 sq mi, 4%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Mill Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Mill Creek (MA96-41): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0261 sq mi (85%). The approved shellfish growing area represents 0.0011 sq mi (4%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Mill Creek (MA96-80)

Location:	Headwaters, outlet Mill Pond, Yarmouth to mouth at inlet Lewis Bay, Yarmouth.
AU Type:	ESTUARY
AU Size:	0.07 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	42365	Unchanged
4a	4a	Nitrogen, Total	64148, 64149	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	Marina/Boating Pumpout Releases (Y)	--	--	X	--	--	--
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--
Nitrogen, Total	Agriculture (Y)	X	--	--	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Mill Creek (MA96-80) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Mill Creek (MA96-80): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0622 sq mi (84%). The approved shellfish growing area represents 0.0006 sq mi (1%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC28.0	Lewis Bay	Approved	0.00058	0.8%

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC28.5	Mill Creek	Conditionally Approved	0.03134	42.3%
SC28.6	Upper Mill Creek	Prohibited	0.03030	40.9%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Mill Creek (MA96-80) 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 Mill Creek (MA96-80) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0622 sq mi) in this AU are less than 100% approved (0.0006 sq mi, 1%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Mill Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Mill Creek (MA96-80): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0622 sq mi (84%). The approved shellfish growing area represents 0.0006 sq mi (1%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Mill Creek (MA96-80) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0622 sq mi) in this AU are less than 100% approved (0.0006 sq mi, 1%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Mill Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Mill Creek (MA96-80): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0622 sq mi (84%). The approved shellfish growing area represents 0.0006 sq mi (1%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Mill Creek (MA96-85)

Location:	Headwaters, outlet Shawme Lake Lower, Sandwich to mouth at confluence with Old Harbor Creek, Sandwich.
AU Type:	ESTUARY
AU Size:	0.02 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	42366	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Mill Creek (MA96-85) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Mill Creek (MA96-85): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0199 sq mi (81%). The approved shellfish growing area represents 0 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
CCB37.0	Sandwich Harbor	Conditionally Approved	0.00805	32.6%
CCB37.1	Boardwalk	Prohibited	0.00901	36.5%
CCB37.5	Boardwalk Relay	Restricted	0.00285	11.6%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Mill Creek (MA96-85) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Mill Creek (MA96-85) is assessed as Fully Supporting based on MDPH Beach Closure data. MDPH Beach Closure data at Mill Creek beach in Sandwich [Beach ID: 5628] was rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (0.0199 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means shellfish classification data were too limited to assess Primary Contact Recreation Use for Mill Creek.

Beach Postings

MADPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
5628	Mill Creek/ Sandwich	41.76472, -70.47590	41.76532, -70.48210	0%	0%	0%	0%	2%	0%	0%	0%	0%	0

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Mill Creek (MA96-85): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0199 sq mi (81%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Mill Creek (MA96-85) is assessed as Fully Supporting based on MDPH Beach Closure data. MDPH Beach Closure data at Mill Creek beach in Sandwich [Beach ID: 5628] was rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (0.0199 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess Secondary Contact Recreation Use for Mill Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Mill Creek (MA96-85): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0199 sq mi (81%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Mill Pond (MA96-117)

Location:	Yarmouth.
AU Type:	ESTUARY
AU Size:	0.09 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Nitrogen, Total	68003	Unchanged
4a	4a	Nutrient/Eutrophication Biological Indicators	68003	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	Agriculture (Y)	X	--	--	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	Landfills (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Agriculture (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Mill Pond (MA96-117) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
Mill Pond (MA96-117): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0851 sq mi (99%). The approved shellfish growing area represents 0 sq mi (0%). The prohibited shellfish growing area represents 0.0851 sq mi (99%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as entirely prohibited.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC35.6	Muddy And Weir Creek	Prohibited	0.08514	98.6%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Mill Pond (MA96-117) 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 Mill Pond (MA96-117) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0851 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Mill Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Mill Pond (MA96-117): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0851 sq mi (99%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Mill Pond (MA96-117) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0851 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Mill Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Mill Pond (MA96-117): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0851 sq mi (99%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Mill Pond (MA96206)

Location:	Yarmouth.
AU Type:	FRESHWATER LAKE
AU Size:	6 ACRES
Classification/Qualifier:	B

No usable data were available for Mill Pond (MA96206) 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

Mill Pond (MA96356)

Location:	Harwich/Brewster.
AU Type:	FRESHWATER LAKE
AU Size:	12 ACRES
Classification/Qualifier:	B

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

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Fish Consumption Use for this Mill Pond AU (MA96356) is assessed as Not Supporting with a new impairment being added for Mercury in Fish Tissue. Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in Mill Pond at station F0467 in 2018 as part of the probabilistic lake surveys (MAP2). MDPH issued a site-specific advisory for Mercury in Mill Pond in their July 2019 Freshwater Fish Consumption Advisory List and retained it in the January 2025 list. The public should refer to the most recent MDPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations. The likely source of Mercury, although not confirmed, is atmospheric deposition.

Fish Consumption Advisories

Summary of Fish Toxics Sampling and Resulting Fish Consumption Advisories (MA DPH 2025) (MassDEP Undated 7)

Summary Statement
Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in this Mill Pond AU (MA96356) at station F0467 in 2018 as part of the probabilistic lake surveys (MAP2). Because of elevated Mercury measured in fish filets, MDPH issued site-specific fish consumption advisories for Mill Pond in their July 2019 Freshwater Fish Consumption Advisory List and retained them in the January 2025 list. The site-specific MDPH advisories are indicative of a Fish Consumption Use impairment for Mercury in Fish Tissue for this Mill Pond AU (MA96356).

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Mill Pond (MA96356) is assessed as Fully Supporting based on observations made by MassDEP field staff during a macrophyte survey in 2018. MassDEP staff recorded aesthetics observations as part of the MAP2 lake monitoring project in summer 2018 at two stations in Harwich/Brewster for Mill Pond, at the eastern edge of the pond, north of Mill Pond Road (W2774/MAP2L-312S, n=5) and at the deep hole index station (W2773/MAP2L-312, n=3). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, or littoral zone duckweed recorded in ten shoreline plots at W2774 (n=1). During the MAP2 macrophyte mapping survey in Aug 2018 (n=1), less than 25% (22.2%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2773	MassDEP	Water Quality	Mill Pond	[Mill Pond, index site, Harwich/Brewster]	41.725465	-70.039742
W2774	MassDEP	Water Quality	Mill Pond	[Mill Pond, eastern edge of pond, north of Mill Pond Road, Harwich]	41.725621	-70.038369

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2773	2018	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2773 (MAP2L-312) on Mill Pond (MA96356) during 3 site visits between Jun 2018 and Sep 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. During the MAP2 macrophyte mapping survey (n=1) in Aug 2018, less than 25% (22.2%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%.
W2774	2018	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2774 (MAP2L-312S) on Mill Pond (MA96356) during 5 site visits between May 2018 and Sep 2018. 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 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2773	Mill Pond	2018	Aesthetics Impaired?	No	3	3
W2773	Mill Pond	2018	Aquatic Plant Density, Overall	None	3	3
W2773	Mill Pond	2018	Color	Brownish	1	3
W2773	Mill Pond	2018	Color	Light Yellow/Tan	2	3
W2773	Mill Pond	2018	Objectionable Deposits	No	3	3
W2773	Mill Pond	2018	Odor	None	3	3
W2773	Mill Pond	2018	Scum	No	3	3
W2773	Mill Pond	2018	Turbidity	None	2	3
W2773	Mill Pond	2018	Turbidity	Slightly Turbid	1	3
W2774	Mill Pond	2018	Aesthetics Impaired?	No	5	5
W2774	Mill Pond	2018	Color	Light Yellow/Tan	1	5
W2774	Mill Pond	2018	Color	None	4	5
W2774	Mill Pond	2018	Objectionable Deposits	No	5	5
W2774	Mill Pond	2018	Odor	None	5	5

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2774	Mill Pond	2018	Scum	No	4	5
W2774	Mill Pond	2018	Scum	Yes	1	5
W2774	Mill Pond	2018	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 Mill Pond (MA96356) is assessed as Fully Supporting based on bacteria data collected by MassDEP staff in 2018. In 2018 at this Mill Pond AU MassDEP staff collected Secchi depth and cyanobacteria cell count data at station W2773 [MAP2L-312, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at station W2774 [MAP2L-312S, Shoreline at eastern edge of pond, North of Mill Pond Rd, Harwich]. At station W2773 (station depth=4.8 m) the Secchi depth measurements ranged from 2.1-3 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 W2774 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. MassDEP staff also collected *E. coli* bacteria samples in Mill Pond at W2774 from May-Sep 2018 (n=5). Analysis of the single year limited frequency dataset from this station indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 2 CFU/100ml, which meets 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2773	MassDEP	Water Quality	Mill Pond	[Mill Pond, index site, Harwich/Brewster]	41.725465	-70.039742
W2774	MassDEP	Water Quality	Mill Pond	[Mill Pond, eastern edge of pond, north of Mill Pond Road, Harwich]	41.725621	-70.038369

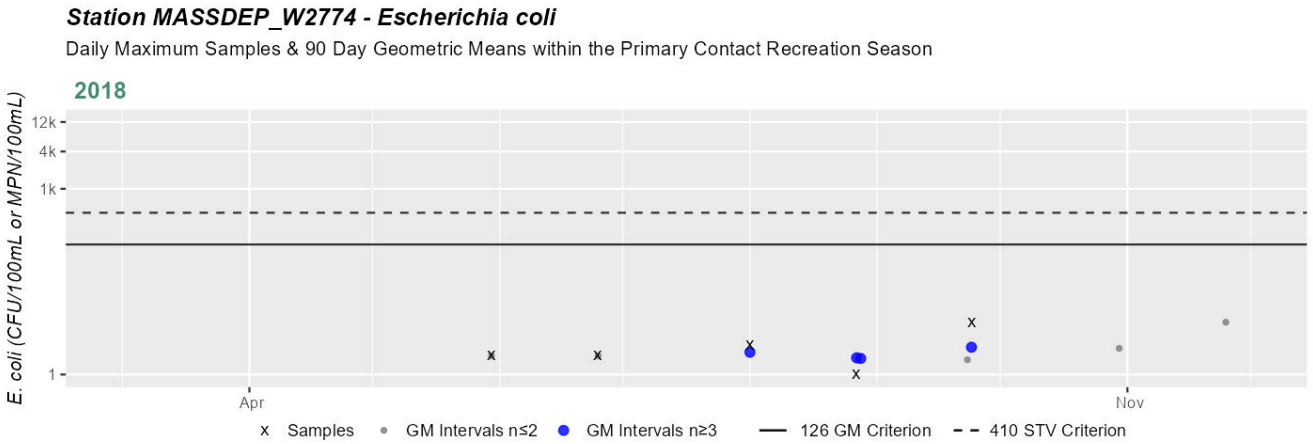
Bacteria Data

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

(MassDEP Undated 9) (MassDEP Undated 5)

[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
W2774	MassDEP	E. coli	05/30/18	09/24/18	5	1	7	2



Variable*	Result
Samples	5
SeasGM	2
#GMI	4
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Other Indicators

Summary Statement for 2011-2022 Cyanobacteria Cell Count and Cyanotoxin Data, and Secchi Depth Data (MassDEP Undated 9) (MassDEP Undated 5)

Data Year(s)	Summary
2018	In 2018 at this Mill Pond AU (MA96356), MassDEP collected Secchi and cyanobacteria cell count data at W2773 [MAP2L-312, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at W2774 [MAP2L-312S, Shoreline]. At station W2773 (station depth=4.8 m) the Secchi depth measurements ranged from 2.1-3 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 W2774 (n=6) 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 9) (MassDEP Undated 5)

Station Code	Waterbody	Station Type	Data Year	Sample Count	Count >70,000 cells/mL	Exceedance Date(s)
W2773	Mill Pond	Index	2018	3	0	NA
W2774	Mill Pond	Shoreline	2018	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 Mill Pond (MA96356) is assessed as Fully Supporting based on a re-evaluation of bacteria data collected by MassDEP staff in 2018. In 2018 at this Mill Pond AU MassDEP staff collected cyanobacteria cell count data at station W2773 [MAP2L-312, Index-deep hole] and cyanobacteria cell count and cyanotoxins data at W2774 [MAP2L-312S, Shoreline at eastern edge of pond, North of Mill Pond Rd, Harwich]. The cyanobacteria cell count did not exceed 70,000 cells/ml in any of the water samples in 2018 (n=6). Analysis of microcystins and cylindrospermopsin samples from the shoreline station W2774 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. MassDEP staff also collected *E. coli* bacteria samples in Mill Pond at station W2774 from May-Sep 2018 (n=5). Analysis of the single year limited frequency *E. coli* dataset from this station indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 2 CFU/100ml which meets 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2774	MassDEP	Water Quality	Mill Pond	[Mill Pond, eastern edge of pond, north of Mill Pond Road, Harwich]	41.725621	-70.038369

Bacteria Data

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

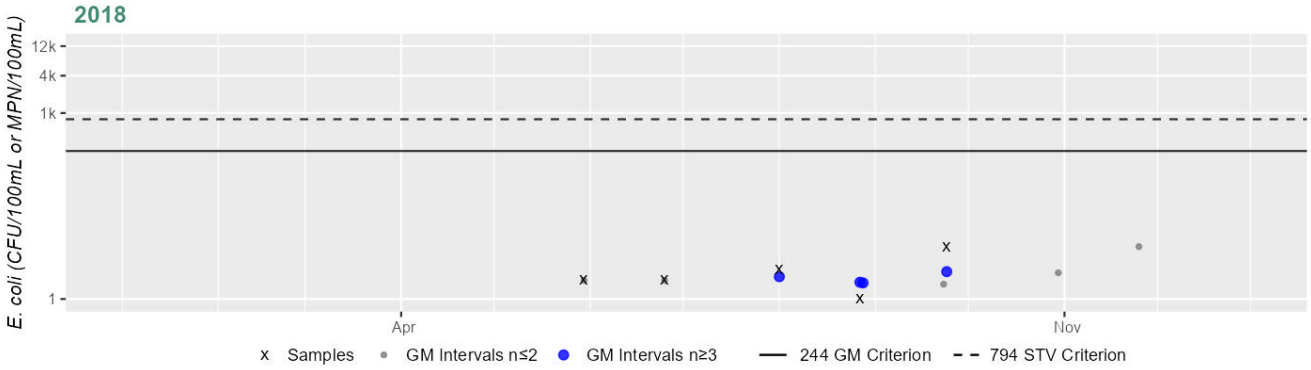
(MassDEP Undated 9) (MassDEP Undated 4)

[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
W2774	MassDEP	E. coli	05/30/18	09/24/18	5	1	7	2

Station MASSDEP_W2774 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	2
#GMI	4
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Mill Pond (MA96-52)

Location:	including Little Mill Pond (PALIS # 96174), Chatham.
AU Type:	ESTUARY
AU Size:	0.06 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	5	Estuarine Bioassessments	36222	Unchanged
4a	5	Fecal Coliform	--	Added
4a	5	Nitrogen, Total	36222	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Golf Courses (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	Golf Courses (Y)	X	--	--	--	--	--
Nitrogen, Total	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Mill Pond (MA96-52) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Mill Pond (MA96-52): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0638 sq mi (100%). The approved shellfish growing area represents 0.0307 sq mi (48%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications, a Fecal Coliform impairment is being added.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC51.0	Mitchell River	Approved	0.03073	48.1%
SC51.1	Mill Pond Mooring Area	Conditionally Approved	0.01885	29.5%
SC51.2	Little Mill Pond Mooring Area	Conditionally Approved	0.01423	22.3%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Mill Pond (MA96-52) 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 Mill Pond (MA96-52) so it is assessed as having Insufficient Information. In addition, the shellfish growing areas (0.0638 sq mi) in this AU are less than 100% approved (0.0307 sq mi, 48%) which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Mill Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Mill Pond (MA96-52): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0638 sq mi (100%). The approved shellfish growing area represents 0.0307 sq mi (48%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Mill Pond (MA96-52) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0638 sq mi) in this AU are less than 100% approved (0.0307 sq mi, 48%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Mill Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Mill Pond (MA96-52): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0638 sq mi (100%). The approved shellfish growing area represents 0.0307 sq mi (48%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Miss Thachers Pond (MA96258)

Location:	Yarmouth.
AU Type:	FRESHWATER LAKE
AU Size:	6 ACRES
Classification/Qualifier:	B

No usable data were available for Miss Thachers Pond (MA96258) 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	(Fish Passage Barrier*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--

Moll Pond (MA96355)

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

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Harmful Algal Blooms	--	Unchanged

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

Recommendations

2024/26 Recommendations
2024/26IR [Harmful Algal Blooms, Low] Follow-up monitoring should be conducted in Moll Pond (MA96355) to determine if Harmful Algal Blooms may be impairing the Recreational and Aesthetic uses. Historically C-HAB postings for Moll Pond were reported to MDPH based on visual observations for 34 days in 2012. Monitoring should include observational data and collection of cyanobacteria cell count data, as well as continued reporting of algal blooms to MDPH. This is of low priority.

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 Moll Pond (MA96355) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Moll Pond (MA96355) continues to be assessed as Not Supporting, with the prior Harmful Algal Blooms impairment being carried forward. Since the existing Harmful Algal Blooms impairment for Moll Pond was based on visual observations (C-HAB postings reported to MDPH for 34 days in 2012), a recommendation is being made to confirm the impairment with cyanobacteria cell count data.

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

C-HAB Summary Statement
Since the existing Harmful Algal Blooms impairment for Moll Pond (MA96355) 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
The Primary Contact Recreation Use for Moll Pond (MA96355) continues to be assessed as Not Supporting, with the prior Harmful Algal Blooms impairment being carried forward. Since the existing Harmful Algal Blooms impairment for Moll Pond was based on visual observations (C-HAB postings reported to MDPH for 34 days in 2012), a recommendation is being made to confirm the impairment with cyanobacteria cell count data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Moll Pond (MA96355) continues to be assessed as Not Supporting, with the prior Harmful Algal Blooms impairment being carried forward. Since the existing Harmful Algal Blooms impairment for Moll Pond was based on visual observations (C-HAB postings reported to MDPH for 34 days in 2012), a recommendation is being made to confirm the impairment with cyanobacteria cell count data.

Muddy Creek (MA96-115)

Location:	Headwaters, outlet North Dennis Road Pond, Yarmouth to mouth at inlet Follins Pond, Yarmouth.
AU Type:	ESTUARY
AU Size:	0.004 SQUARE MILES
Classification/Qualifier:	SA: SFO

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 Muddy Creek (MA96-115) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
Muddy Creek (MA96-115): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0029 sq mi (82%). The approved shellfish growing area represents 0 sq mi (0%) and the prohibited shellfish growing area represents 0.0029 sq mi (82%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as entirely prohibited.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC35.6	Muddy And Weir Creek	Prohibited	0.00292	81.7%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Muddy Creek (MA96-115) 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 Muddy Creek (MA96-115) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0029 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Muddy Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Muddy Creek (MA96-115): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0029 sq mi (82%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Muddy Creek (MA96-115) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0029 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Muddy Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Muddy Creek (MA96-115): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0029 sq mi (82%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Muddy Creek (MA96-51)

Location:	Source south of Countryside Drive and north-northeast of Old Queen Anne Road, Chatham to mouth at inlet Pleasant Bay, Harwich/Chatham, including Upper and Lower reaches.
AU Type:	ESTUARY
AU Size:	0.05 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO (also tributary to SA B Shellfishing ORW)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	(Fish Passage Barrier*)	--	Unchanged
4a	4a	Fecal Coliform	22512	Unchanged
4a	4a	Nitrogen, Total	33798, 33797	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
(Fish Passage Barrier*)	Habitat Modification - other than Hydromodification (Y)	X	--	--	--	--	--
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Wastes from Pets (Y)	X	--	--	--	--	--
Nitrogen, Total	Waterfowl (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Muddy Creek (MA96-51) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Muddy Creek (MA96-51): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.045 sq mi (90%). The approved shellfish growing area represents 0 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC58.1	Muddy Creek Mouth	Conditionally Approved	0.00193	3.9%
SC58.2	Muddy Creek	Prohibited	0.04303	86.6%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Muddy Creek (MA96-51) 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 Muddy Creek (MA96-51) so it is assessed as having Insufficient Information. The shellfish growing areas (0.045 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for this Muddy Creek AU.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Muddy Creek (MA96-51): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.045 sq mi (90%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Muddy Creek (MA96-51) so it is assessed as having Insufficient Information. The shellfish growing areas (0.045 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for this Muddy Creek AU.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Muddy Creek (MA96-51): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.045 sq mi (90%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Mystic Lake (MA96218)

Location:	Barnstable.
AU Type:	FRESHWATER LAKE
AU Size:	146 ACRES
Classification/Qualifier:	B

No usable data were available for Mystic Lake (MA96218) 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	(Non-Native Aquatic Plants*)	--	Unchanged
5	5	Dissolved Oxygen	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Non-Native Aquatic Plants*)	Source Unknown (N)	X	--	--	--	--
Dissolved Oxygen	Source Unknown (N)	X	--	--	--	--

Namequoit River (MA96-71)

Location:	Headwaters, outlet Areys Pond, Orleans to mouth at confluence with The River, Orleans.
AU Type:	ESTUARY
AU Size:	0.06 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO (also tributary to SA B Shellfishing ORW)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Estuarine Bioassessments	33791	Unchanged
4a	4a	Nitrogen, Total	33791	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Agriculture (Y)	X	--	--	--	--	--
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--
Nitrogen, Total	Agriculture (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Namequoit River (MA96-71) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
Namequoit River (MA96-71): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0567 sq mi (97%). The approved shellfish growing area represents 0.0567 sq mi (97%). The Shellfish Harvesting Use is assessed as Fully Supporting because the growing area (normalized to the AU area) is classified as 100% approved.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC63.0	Namequoit River	Approved	0.05668	97.5%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Namequoit River (MA96-71) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for the Namequoit River (MA96-71) continues to be assessed as Fully Supporting. The shellfish growing areas (0.0567 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Primary Contact Recreation Use of Namequoit River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Namequoit River (MA96-71): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0567 sq mi (97%). The approved shellfish growing area represents 0.0567 sq mi (97%). The Primary Contact Recreational Use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for the Namequoit River (MA96-71) continues to be assessed as Fully Supporting. The shellfish growing areas (0.0567 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Secondary Contact Recreation Use of Namequoit River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Namequoit River (MA96-71): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0567 sq mi (97%). The approved shellfish growing area represents 0.0567 sq mi (97%). The Secondary Contact Recreational use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Namskaket Creek (MA96-27)

Location:	Source west of Route 6, Orleans/Brewster to mouth at inlet Cape Cod Bay, Brewster/Orleans.
AU Type:	ESTUARY
AU Size:	0.03 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Enterococcus	36772	Added
4a	4a	Fecal Coliform	36772	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Enterococcus	Source Unknown (N)	--	--	--	--	X	X
Fecal Coliform	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 Namskaket Creek (MA96-27) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
There is insufficient information available to delist the existing Fecal Coliform impairment so the Shellfish Harvesting Use for Namskaket Creek (MA96-27) is evaluated as Not Supporting. The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0192 sq mi (75%). The approved shellfish growing area represents 0 sq mi (0%) and the prohibited shellfish growing area represents 0.0192 sq mi (75%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as entirely prohibited.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
CCB21.0	Namskaket Creek	Prohibited	0.01924	75.4%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Namskaket Creek (MA96-27) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Namskaket Creek (MA96-27) is assessed as Not Supporting based on bacteria data collected at one station in 2020, with an Enterococcus impairment being added. The shellfish growing areas (0.0192 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess Primary Contact Recreation Use for Namskaket Creek. Center for Coastal Studies (CCS) staff/volunteers collected Enterococcus bacteria samples in Namskaket Creek at station CCS_115 [Upper Namskaket Creek] from Apr-Oct 2020 (n=12). Analysis of the single year moderate frequency dataset from this station indicated 94% of intervals had GMs >35 CFU/100ml and 9 samples exceeded the 130 CFU/100ml STV (maximum 4,380 CFU). Enterococcus data from station CCS_115 are indicative of an Enterococcus impairment.

Monitoring Stations

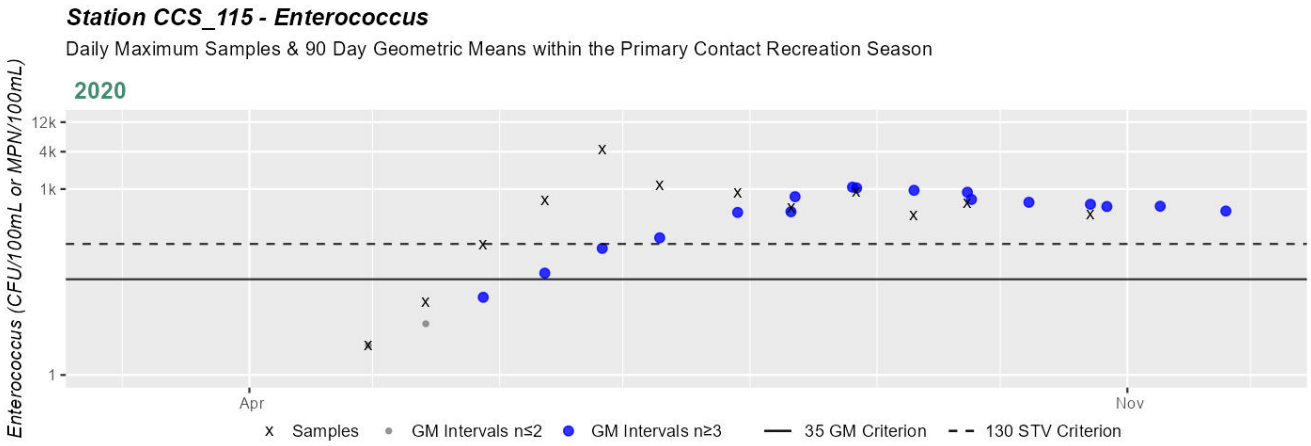
Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CCS_115	Center for Coastal Studies	Water Quality	Namskaket Creek	Upper Namskaket Creek	41.781104	-70.011236

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (CCS 2020) (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
CCS_115	Center for Coastal Studies	Enterococci	04/29/20	10/22/20	12	3	4380	304



Variable*	Result
Samples	12
SeasGM	304
#GMI	17
#GMI Ex	16
%GMI Ex	94%
n>STV	9
%n>STV	75%

Cumulative %GMI Exceedance
Current (2011-2022)
94%

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

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Namskaket Creek (MA96-27): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0192 sq mi (75%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

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

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Namskaket Creek (MA96-27) is assessed as Not Supporting based on a re-evaluation of bacteria data collected at one station in 2020, with an Enterococcus impairment being added. The shellfish growing areas (0.0192 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Namskaket Creek. Center for Coastal Studies (CCS) staff/volunteers collected Enterococcus bacteria samples in Namskaket Creek at station CCS_115 [Upper Namskaket Creek] from Apr-Oct 2020 (n=12). Analysis of the single year moderate frequency Enterococcus dataset from this station indicated 88% of intervals had GMs >68 CFU/100ml and 9 samples exceeded the 252 CFU/100ml STV (maximum 4,380 CFU). Enterococcus data from station CCS_115 are indicative of an Enterococcus impairment.

Monitoring Stations

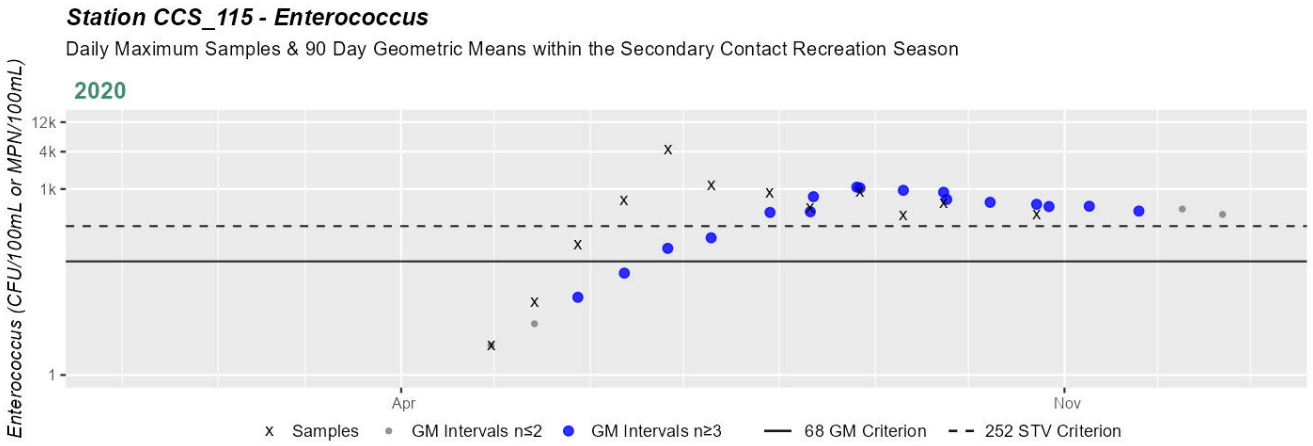
Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CCS_115	Center for Coastal Studies	Water Quality	Namskaket Creek	Upper Namskaket Creek	41.781104	-70.011236

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis) (CCS 2020) (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
CCS_115	Center for Coastal Studies	Enterococci	04/29/20	10/22/20	12	3	4380	304



Variable*	Result
Samples	12
SeasGM	304
#GMI	17
#GMI Ex	15
%GMI Ex	88%
n>STV	9
%n>STV	75%

Cumulative %GMI Exceedance
Current (2011-2022)
88%

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

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Namskaket Creek (MA96-27): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0192 sq mi (75%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Nauset Harbor (MA96-28)

Location:	The waters south of an imaginary line drawn east from Woods Cove, Orleans around the southern point of Stony Island, around the southern end of the unnamed island in the harbor, to Cape Cod National Seashore (CCNS), excluding Mill Pond, Orleans (area within CCNS designated as ORW).
AU Type:	ESTUARY
AU Size:	0.41 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO ('ORW' applies only to portion in Cape Cod National Seashore)

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

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	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 Nauset Harbor (MA96-28) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
Nauset Harbor (MA96-28): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.2829 sq mi (69%). The approved shellfish growing area represents 0.2829 sq mi (69%). The Shellfish Harvesting Use is assessed as Fully Supporting because the growing area (normalized to the AU area) is classified as 100% approved.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
OC1.0		Approved	0.00720	1.7%
OC2.0	Nauset Harbor	Approved	0.27194	66.1%
OC3.0	Mill Pond	Approved	0.00365	0.9%
OC5.0	Nauset Marsh	Approved	0.00010	0.0%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Nauset Harbor (MA96-28) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Nauset Harbor (MA96-28) continues to be assessed as Fully Supporting. The shellfish growing areas (0.2829 sq mi) in this AU are 100% approved and are indicative of fully supporting conditions for the Primary Contact Recreation Use of Nauset Harbor.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Nauset Harbor (MA96-28): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.2829 sq mi (69%). The approved shellfish growing area represents 0.2829 sq mi (69%). The Primary Contact Recreational Use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Nauset Harbor (MA96-28) continues to be assessed as Fully Supporting. The shellfish growing areas (0.2829 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Secondary Contact Recreation Use of Nauset Harbor.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Nauset Harbor (MA96-28): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.2829 sq mi (69%). The approved shellfish growing area represents 0.2829 sq mi (69%). The Secondary Contact Recreational use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

North Bay (MA96-66)

Location:	From Prince Cove outlet at Fox Island to just south of Bridge Street (including Dam Pond, PALIS# 96053) and separated from Cotuit Bay at a line from Point Isabella, Barnstable southward to the opposite shore, Barnstable.
AU Type:	ESTUARY
AU Size:	0.47 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Estuarine Bioassessments	33990	Unchanged
4a	4a	Fecal Coliform	36584	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Agriculture (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Golf Courses (Y)	X	--	--	--	--	--
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	Marina/Boating Pumpout Releases (Y)	--	--	X	--	--	--
Fecal Coliform	Upstream Source (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for North Bay (MA96-66) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
North Bay (MA96-66): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.46 sq mi (98%). The approved shellfish growing area represents 0 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC21.1	Cotuit Narrows	Conditionally Approved	0.00001	0.0%
SC22.0	West Bay	Approved	0.00002	0.0%
SC23.2	North Bay	Conditionally Approved	0.43768	92.8%
SC23.4	North Bay Marina Area	Prohibited	0.02233	4.7%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for North Bay (MA96-66) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for North Bay (MA96-66) continues to be assessed as Fully Supporting based on MDPH Beach Closure data. MDPH Beach Closure data for Cotuit Bay Shores Association beach in Barnstable [Beach ID: 2618] was rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (0.46 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for North Bay.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
2618	Cotuit Bay Shores Association/ Barnstable	41.63319, -70.41270	41.63245, -70.41190	0%	0%	0%	0%	0%	0%	1%	2%	0%	0

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
North Bay (MA96-66): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.46 sq mi (98%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for North Bay (MA96-66) continues to be assessed as Fully Supporting based on MDPH Beach Closure data. MDPH Beach Closure data for Cotuit Bay Shores Association beach in Barnstable [Beach ID: 2618] was rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (0.46 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for North Bay.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
North Bay (MA96-66): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.46 sq mi (98%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

North Pond (MA96225)

Location:	Barnstable.
AU Type:	FRESHWATER LAKE
AU Size:	4 ACRES
Classification/Qualifier:	B

No usable data were available for North Pond (MA96225) 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

Nye Pond (MA96228)

Location:	Sandwich.
AU Type:	FRESHWATER LAKE
AU Size:	6 ACRES
Classification/Qualifier:	B

No usable data were available for Nye Pond (MA96228) 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

Old Harbor Creek (MA96-84)

Location:	From Foster Road, Sandwich to mouth at inlet Sandwich Harbor, Sandwich.
AU Type:	ESTUARY
AU Size:	0.06 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	42367	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Unspecified Urban Stormwater (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Old Harbor Creek (MA96-84) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Old Harbor Creek (MA96-84): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0604 sq mi (94%). The approved shellfish growing area represents 0.0093 sq mi (14%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
CCB35.0	Sandwich North Coastal	Approved	0.00926	14.4%
CCB37.0	Sandwich Harbor	Conditionally Approved	0.01635	25.4%
CCB37.4	Old Harbor Creek	Prohibited	0.03484	54.2%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Old Harbor Creek (MA96-84) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Old Harbor Creek (MA96-84) is assessed as Fully Supporting based on MDPH Beach Closure data. MDPH Beach Closure data for Mill Creek beach in Sandwich [Beach ID: 5628], indicated that this beach was rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (0.0604 sq mi) in this AU are less than 100% approved (0.0093 sq mi, 14%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Old Harbor Creek.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
5628	Mill Creek/ Sandwich	41.76472, -70.47590	41.76532, -70.48210	0%	0%	0%	0%	2%	0%	0%	0%	0%	0

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Old Harbor Creek (MA96-84): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0604 sq mi (94%). The approved shellfish growing area represents 0.0093 sq mi (14%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Old Harbor Creek (MA96-84) is assessed as Fully Supporting based on MDPH Beach Closure data. MDPH Beach Closure data for Mill Creek beach in Sandwich [Beach ID: 5628], indicated that this beach was rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (0.0604 sq mi) in this AU are less than 100% approved (0.0093 sq mi, 14%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Old Harbor Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Old Harbor Creek (MA96-84): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0604 sq mi (94%). The approved shellfish growing area represents 0.0093 sq mi (14%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Oyster Pond (MA96-45)

Location:	Including Stetson Cove, Chatham.
AU Type:	ESTUARY
AU Size:	0.21 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Estuarine Bioassessments	36219	Unchanged
4a	4a	Fecal Coliform	36772	Unchanged
4a	4a	Nitrogen, Total	36219	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Golf Courses (Y)	X	--	--	--	--	--
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	Golf Courses (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Oyster Pond (MA96-45) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Oyster Pond (MA96-45): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.2096 sq mi (99%). The approved shellfish growing area represents 0.033 sq mi (16%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC50.0	Oyster Pond	Approved	0.03296	15.6%
SC50.1	Oyster Pond	Conditionally Approved	0.17637	83.7%
SC50.3	Oyster Furlong Road	Prohibited	0.00013	0.1%
SC50.4	Oyster Pond Beach	Prohibited	0.00013	0.1%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Oyster Pond (MA96-45) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Oyster Pond (MA96-45) continues to be assessed as Fully Supporting based on MDPH Beach Closure data. MDPH Beach Closure data for Oyster Pond beach in Chatham [Beach ID: 2700] indicated that this beach was rarely, if at all, posted for swimming from 2018-2022 (maximum 8% of the season was posted in 2021). The shellfish growing areas (0.2096 sq mi) in this AU are less than 100% approved (0.033 sq mi, 16%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Oyster Pond.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
2700	Oyster Pond/ Chatham	41.68090, -69.96330	41.67987, -69.96330	0%	0%	0%	0%	0%	0%	0%	8%	0%	0

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Oyster Pond (MA96-45): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.2096 sq mi (99%). The approved shellfish growing area represents 0.033 sq mi (16%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Oyster Pond (MA96-45) continues to be assessed as Fully Supporting based on MDPH Beach Closure data. MDPH Beach Closure data for Oyster Pond beach in Chatham [Beach ID: 2700] indicated that this beach was rarely, if at all, posted for swimming from 2018-2022 (maximum 8% of the season was posted in 2021). The shellfish growing areas (0.2096 sq mi) in this AU are less than 100% approved (0.033 sq mi, 16%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Oyster Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Oyster Pond (MA96-45): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.2096 sq mi (99%). The approved shellfish growing area represents 0.033 sq mi (16%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Oyster Pond (MA96-62)

Location:	east of Fells Road, Falmouth.
AU Type:	ESTUARY
AU Size:	0.1 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Dissolved Oxygen	34345	Unchanged
4a	4a	Estuarine Bioassessments	34345	Unchanged
4a	4a	Fecal Coliform	36772	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Dissolved Oxygen	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Dissolved Oxygen	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Dissolved Oxygen	Yard Maintenance (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	--	--	--
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Oyster Pond (MA96-62) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

There is insufficient information available to delist the existing Fecal Coliform impairment, so the Shellfish Harvesting Use for Oyster Pond (MA96-62) will continue to be assessed as Not Supporting. The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0947 sq mi (95%). The approved shellfish growing area represents 0 sq mi (0%) and the prohibited shellfish growing area represents 0.0947 sq mi (95%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as entirely prohibited.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC6.0	Oyster Pond	Prohibited	0.09470	95.0%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Oyster Pond (MA96-62) 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 Oyster Pond (MA96-62) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0947 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Oyster Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Oyster Pond (MA96-62): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0947 sq mi (95%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Oyster Pond (MA96-62) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0947 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Oyster Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Oyster Pond (MA96-62): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0947 sq mi (95%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Oyster Pond River (MA96-46)

Location:	Headwaters outlet Oyster Pond, Chatham to mouth at inlet Stage Harbor, Chatham.
AU Type:	ESTUARY
AU Size:	0.14 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Estuarine Bioassessments	36220	Unchanged
4a	4a	Fecal Coliform	36772	Unchanged
4a	4a	Nitrogen, Total	36220	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--
Fecal Coliform	Marina/Boating Pumpout Releases (Y)	--	--	X	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Oyster Pond River (MA96-46) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Oyster Pond River (MA96-46): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1363 sq mi (97%). The approved shellfish growing area represents 0.0026 sq mi (2%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC48.0	Stage Harbor	Approved	0.00134	1.0%
SC49.1	Oyster River Boatyard	Conditionally Approved	0.00050	0.4%
SC49.2	Chatham Yacht Basin	Conditionally Approved	0.00250	1.8%
SC49.3	Oyster Pond River North Mooring Area	Conditionally Approved	0.04776	34.1%
SC49.4	Oyster Pond River South Mooring Area	Conditionally Approved	0.08291	59.2%
SC50.0	Oyster Pond	Approved	0.00125	0.9%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Oyster Pond River (MA96-46) 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 the Oyster Pond River (MA96-46) so it is assessed as having Insufficient Information. The shellfish growing areas (0.1363 sq mi) in this AU are less than 100% approved (0.0026 sq mi, 2%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Oyster Pond River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Oyster Pond River (MA96-46): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1363 sq mi (97%). The approved shellfish growing area represents 0.0026 sq mi (2%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
No bacteria data are available to assess the Secondary Contact Recreation Use for the Oyster Pond River (MA96-46) so it is assessed as having Insufficient Information. The shellfish growing areas (0.1363 sq mi) in this AU are less than 100% approved (0.0026 sq mi, 2%),which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Oyster Pond River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Oyster Pond River (MA96-46): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1363 sq mi (97%). The approved shellfish growing area represents 0.0026 sq mi (2%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Pamet River (MA96-31)

Location:	From tidegate at Route 6A, Truro to mouth at inlet Cape Cod Bay (including Pamet Harbor), Truro.
AU Type:	ESTUARY
AU Size:	0.14 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Enterococcus	36772	Added
4a	4a	Fecal Coliform	36772	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Enterococcus	Source Unknown (N)	--	--	--	--	X	X
Fecal Coliform	Unspecified Urban Stormwater (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary

Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Pamet River (MA96-31) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Pamet River (MA96-31): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1206 sq mi (84%). The approved shellfish growing area represents 0.0001 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
CCB6.0	Truro West Coastal	Approved	0.00006	0.0%
CCB7.1	Pamet Harbor and River	Conditionally Approved	0.10109	70.7%
CCB7.2	Corn Hill Culvert	Prohibited	0.00007	0.0%
CCB7.3	Pamet River	Prohibited	0.01939	13.6%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Pamet River (MA96-31) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for the Pamet River (MA96-31) is assessed as Not Supporting based on bacteria data collected at one station in 2020, with an Enterococcus impairment being added. MDPH Beach Closure data for Pamet Harbor beach in Truro [Beach ID: 3160], indicated that this beach was rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (0.1206 sq mi) in this AU are less than 100% approved (0.0001 sq mi, 0%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Pamet River. Center for Coastal Studies (CCS) staff/volunteers collected Enterococcus bacteria samples in the Pamet River during 2020 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: at the upstream end of the AU just downstream of Rt.6 at CCS_135 [Upper Pamet River] from Apr-Oct 2020 (n=12) and just upstream of Pamet Harbor at CCS_117 [Lower Pamet River] from Apr-Oct 2020 (n=12). Analysis of the single year moderate frequency Enterococcus dataset from CCS_135 indicated 92% of intervals had GMs >35 CFU/100ml and 9 samples exceeded the 130 CFU/100ml STV (maximum 1,960 CFU). Whereas analysis of the single year moderate frequency Enterococcus dataset from CCS_117 indicated only 28% of intervals had GMs >35 CFU/100ml and 2 samples exceeded the 130 CFU/100ml STV (maximum 1,000 CFU). While Enterococcus data from station CCS_117 are indicative of an Alert status, Enterococcus data from station CCS_135 are indicative of an Enterococcus impairment.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CCS_117	Center for Coastal Studies	Water Quality	Pamet River	Lower Pamet River	41.992330	-70.071090
CCS_135	Center for Coastal Studies	Water Quality	Pamet River	Upper Pamet River	41.993500	-70.050400

Bacteria Data

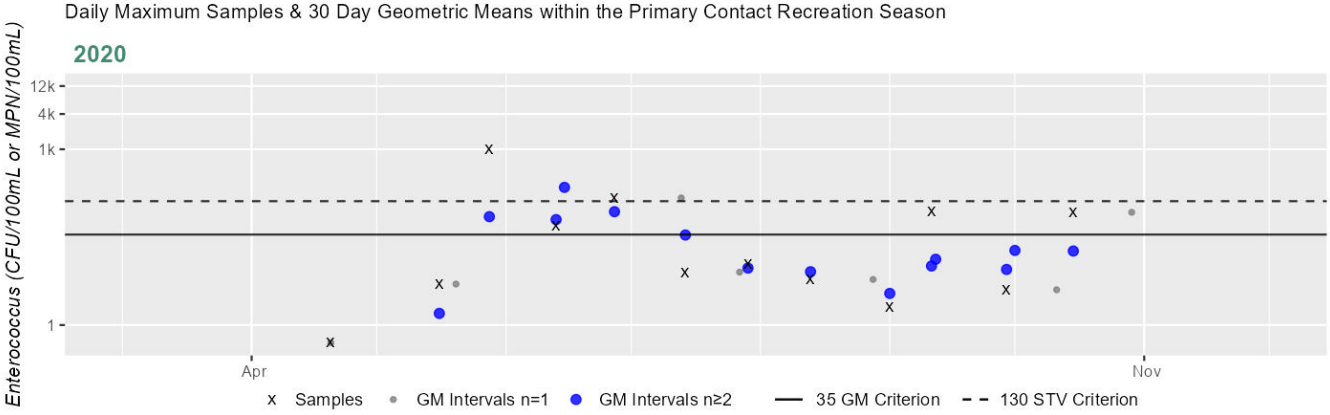
Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (30-day Interval Analysis) (CCS 2020) (MassDEP Undated 3)

[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
CCS_117	Center for Coastal Studies	Enterococcus	04/19/20	10/14/20	12	0	1000	16
CCS_135	Center for Coastal Studies	Enterococcus	04/19/20	10/14/20	12	30	1960	359

Station CCS_117 - Enterococcus

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



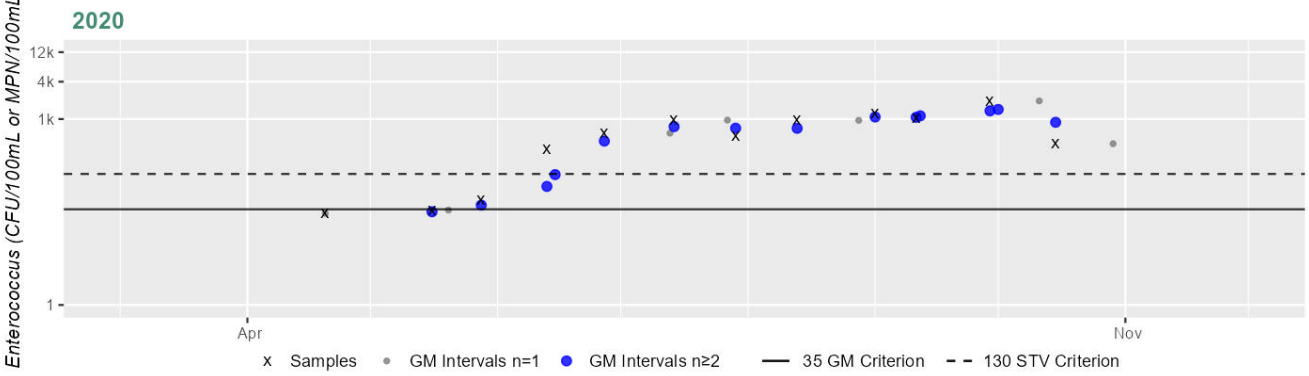
Variable*	Result
Samples	12
SeasGM	16
#GMI	14
#GMI Ex	4
%GMI Ex	28%
n>STV	2
%n>STV	16%

Cumulative %GMI Exceedance
Current (2011-2022)
28%

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

Station CCS_135 - Enterococcus

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



Variable*	Result
Samples	12
SeasGM	359
#GMI	14
#GMI Ex	13
%GMI Ex	92%
n>STV	9
%n>STV	75%

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

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

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
3160	Pamet Harbor/ Truro	41.99231, -70.07170	41.99146, -70.07210	0%	0%	0%	0%	0%	0%	0%	0%	7%	0

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Pamet River (MA96-31): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1206 sq mi (84%). The approved shellfish growing area represents 0.0001 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for the Pamet River (MA96-31) is assessed as Not Supporting based on a re-evaluation of bacteria data collected at one station in 2020, with an Enterococcus impairment being added. MDPH Beach Closure data for Pamet Harbor beach in Truro [Beach ID: 3160], indicated that this beach was rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (0.1206 sq mi) in this AU are less than 100% approved (0.0001 sq mi, 0%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Pamet River. Center for Coastal Studies (CCS) staff/volunteers collected Enterococcus bacteria samples in the Pamet River during 2020 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: at the upstream end of the AU just downstream of Rt.6 at CCS_135 [Upper Pamet River] from Apr-Oct 2020 (n=12) and just upstream of Pamet Harbor at CCS_117 [Lower Pamet River] from Apr-Oct 2020 (n=12). Analysis of the single year moderate frequency Enterococcus dataset from CCS_135 indicated 88% of intervals had GMs >68 CFU/100ml and 9 samples exceeded the 252 CFU/100ml STV (maximum 1,960 CFU). Analysis of the single year moderate frequency Enterococcus dataset from CCS_117 indicated none of the intervals had GMs >68 CFU/100ml and only 1 sample exceeded the 252 CFU/100ml STV. While Enterococcus data from CCS_117 meet 2024 CALM guidance, Enterococcus data from CCS_135 are indicative of an Enterococcus impairment.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CCS_117	Center for Coastal Studies	Water Quality	Pamet River	Lower Pamet River	41.992330	-70.071090
CCS_135	Center for Coastal Studies	Water Quality	Pamet River	Upper Pamet River	41.993500	-70.050400

Bacteria Data

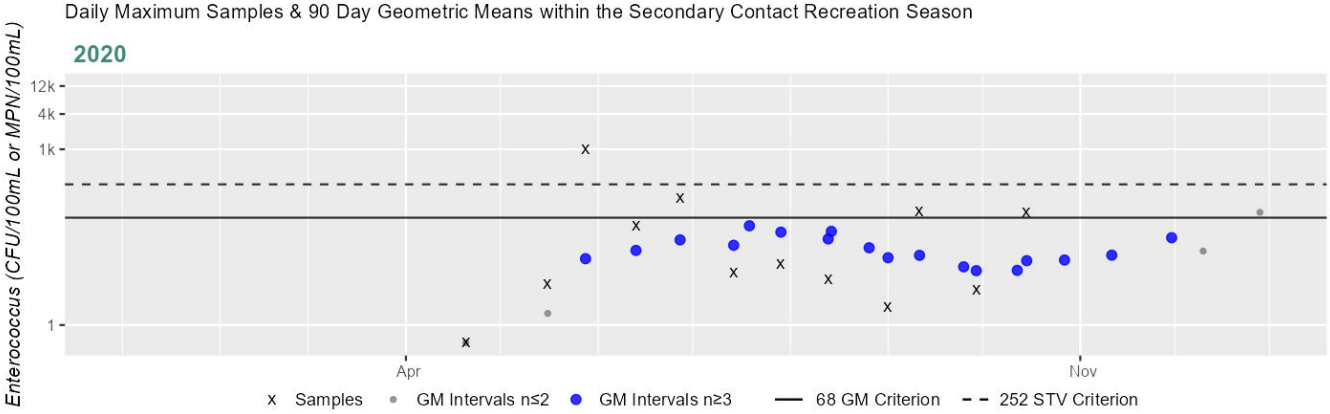
Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis) (CCS 2020) (MassDEP Undated 2)

[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
CCS_117	Center for Coastal Studies	Enterococci	04/19/20	10/14/20	12	0	1000	16
CCS_135	Center for Coastal Studies	Enterococci	04/19/20	10/14/20	12	30	1960	359

Station CCS_117 - Enterococcus

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



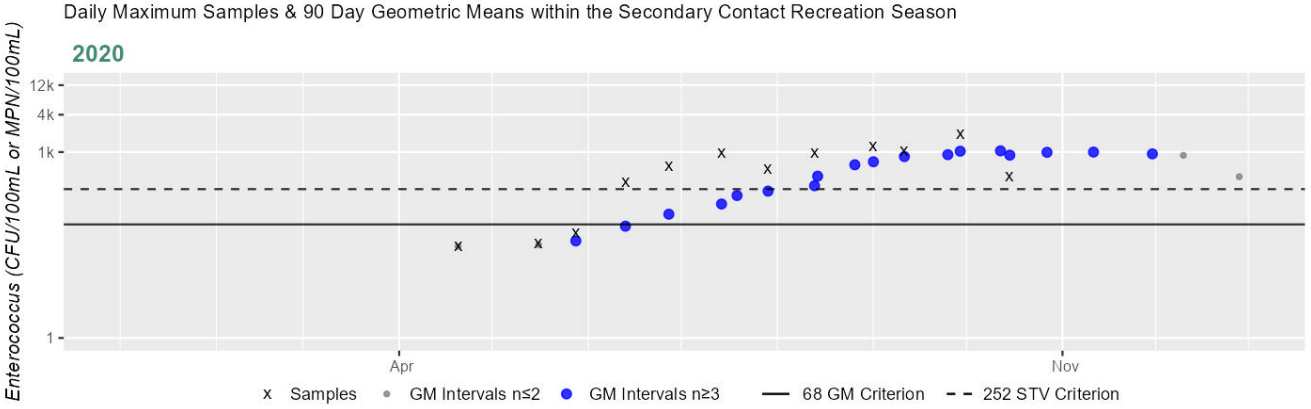
Variable*	Result
Samples	12
SeasGM	16
#GMI	18
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	8%

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

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

Station CCS_135 - Enterococcus

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



Variable*	Result
Samples	12
SeasGM	359
#GMI	18
#GMI Ex	16
%GMI Ex	88%
n>STV	9
%n>STV	75%

Cumulative %GMI Exceedance
Current (2011-2022)
88%

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

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Pamet River (MA96-31): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1206 sq mi (84%). The approved shellfish growing area represents 0.0001 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Parkers River (MA96-38)

Location:	Headwaters outlet Seine Pond, Yarmouth to mouth at inlet Nantucket Sound, Yarmouth (excluding Lewis Pond, Yarmouth).
AU Type:	ESTUARY
AU Size:	0.04 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	36771	Unchanged
4a	4a	Nitrogen, Total	68361	Unchanged
4a	4a	Nutrient/Eutrophication Biological Indicators	68361	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	Marina/Boating Pumpout Releases (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	Municipal Point Source Discharges (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Municipal Point Source Discharges (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Parkers River (MA96-38) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

Parkers River (MA96-38): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0347 sq mi (91%). The approved shellfish growing area represents 0.0078 sq mi (21%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC30.0	Parkers River	Approved	0.00780	20.5%
SC30.3	Parkers River	Conditionally Approved	0.02689	70.8%
SC31.0	Lewis Pond	Approved	0.00002	0.1%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Parkers River (MA96-38) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for the Parkers River (MA96-38) continues to be assessed as Fully Supporting based on MDPH data. MDPH Beach Closure data for Seagull (Left) beach in Yarmouth [Beach ID: 3241] indicated that this beach was never posted for swimming from 2018-2022. The shellfish growing areas (0.0347 sq mi) in this AU are less than 100% approved (0.0078 sq mi, 21%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Parkers River based on shellfish classification data.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
3241	Seagull (Left)/ Yarmouth	41.63700, -70.22240	41.63620, -70.22150	0%	0%	0%	0%	0%	0%	0%	0%	0%	0

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Parkers River (MA96-38): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0347 sq mi (91%). The approved shellfish growing area represents 0.0078 sq mi (21%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for the Parkers River (MA96-38) continues to be assessed as Fully Supporting. MDPH Beach Closure data for Seagull (Left) beach in Yarmouth [Beach ID: 3241], indicated that this beach was never posted for swimming from 2018-2022. The shellfish growing areas (0.0347 sq mi) in this AU are less than 100% approved (0.0078 sq mi, 21%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Parkers River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Parkers River (MA96-38): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0347 sq mi (91%). The approved shellfish growing area represents 0.0078 sq mi (21%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Paw Wah Pond (MA96-72)

Location:	Orleans.
AU Type:	ESTUARY
AU Size:	0.01 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO (also tributary to SA B Shellfishing ORW)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Estuarine Bioassessments	33792	Unchanged
4a	4a	Fecal Coliform	42368	Unchanged
4a	4a	Nitrogen, Total	33792	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--
Fecal Coliform	Unspecified Urban Stormwater (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Source Unknown (N)	X	--	--	--	--	--
Nitrogen, Total	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Paw Wah Pond (MA96-72) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
There is insufficient information available to delist the existing Fecal Coliform impairment so the Shellfish Harvesting Use for Paw Wah Pond (MA96-72) will continue to be assessed as Not Supporting. The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0075 sq mi (91%). The approved shellfish growing area represents 0 sq mi (0%) and the prohibited shellfish growing area represents 0.0075 sq mi (91%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as entirely prohibited.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC64.0	Paw Wah Pond	Prohibited	0.00754	90.6%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Paw Wah Pond (MA96-72) 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 Paw Wah Pond (MA96-72) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0075 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Paw Wah Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Paw Wah Pond (MA96-72): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0075 sq mi (91%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Paw Wah Pond (MA96-72) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0075 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that the shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Paw Wah Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Paw Wah Pond (MA96-72): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0075 sq mi (91%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Perch Pond (MA96-53)

Location:	Connects to northwest end of Great Pond, west of Keechipam Way, Falmouth.
AU Type:	ESTUARY
AU Size:	0.03 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	36772	Added
4a	4a	Nitrogen, Total	32537	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Perch Pond (MA96-53) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Perch Pond (MA96-53): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0235 sq mi (86%). The approved shellfish growing area represents 0 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications, a Fecal Coliform impairment is being added.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC11.3	Great Pond	Conditionally Approved	0.00013	0.5%
SC11.4	Perch Pond	Prohibited	0.02332	86.0%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Perch Pond (MA96-53) 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 Perch Pond (MA96-53) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0235 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Perch Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Perch Pond (MA96-53): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0235 sq mi (86%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Perch Pond (MA96-53) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0235 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Perch Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Perch Pond (MA96-53): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0235 sq mi (86%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Peters Pond (MA96244)

Location:	Sandwich/Mashpee.
AU Type:	FRESHWATER LAKE
AU Size:	123 ACRES
Classification/Qualifier:	B

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

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

Recommendations

2024/26 Recommendations
2024/26IR [Harmful Algal Blooms, Low] Follow-up monitoring should be conducted in Peter's Pond (MA96244) to determine if Harmful Algal Blooms may be impairing the Recreational and Aesthetic uses. C-HAB postings for Peters Pond were reported to MDPH based on visual observations for 42 days in 2021. Monitoring should include observational data and collection of cyanobacteria cell count data, as well as continued reporting of algal blooms to MDPH. This is of low priority;

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Peters Pond (MA96244) continues to be assessed as Not Supporting with the prior Mercury in Fish Tissue impairment being carried forward. MDPH included a site-specific advisory for Peters Pond in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent MDPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations.

Aesthetic

2024/26 Use Attainment	Alert
Insufficient Information	YES

2024/26 Use Attainment Summary
Too limited data are available to assess the Aesthetics Use for Peter's Pond (MA96244), so it is assessed as having Insufficient Information. However, an Alert is being identified for Harmful Algal Blooms in this waterbody since C-HAB postings (blooms of >15 days in duration) were reported to MDPH in 2021. During the period 2015 through 2022, C-HAB postings for Peters Pond were reported to MDPH based on visual observations for 42 days in 2021 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 in this waterbody and a recommendation for follow-up sampling will be made.

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

C-HAB Summary Statement
During the period 2015 through 2022, C-HAB postings for Peters Pond (MA96244) were reported to MDPH based on visual observations for 42 days in 2021. 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 2)

[* indicates a C-HAB posting of unknown duration]

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
Peters Pond	Sandwich							42	

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 Peters Pond (MA96244) 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 Blooms since C-HAB postings (blooms of >15 days in duration) were reported to MDPH in 2021. During the period 2015 through 2022, C-HAB postings for Peters Pond in Sandwich were reported to MDPH based on visual observations for 42 days in 2021. 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. MDPH contractors conducted surface water sampling at Peters Pond in May 2021 as part of a pilot study assessing 40 PFAS analytes in surface water and fish tissue samples collected from waterbodies on Cape Cod. In this study, MDPH evaluated four PFAS compounds (PFHxS, PFNA, PFOA, PFOS) individually against a candidate Surface Water Action Level (cSWAL) of 23 ng/L (ppt). All four compounds had concentrations less than the cSWAL, with the maximum being 2.63 ng/L of PFOA.

Other Indicators

Summary of MDPH 2021 and 2022 PFAS in Water Column Data

Data Sources: (Nascarella 2021, MA DPH 2021)

MDPH contractors conducted surface water sampling at Peters Pond (MA96244) in Sandwich in May 2021 as part of a pilot study assessing 40 PFAS analytes in surface water and fish tissue samples collected from waterbodies on Cape Cod. In this study, MDPH evaluated four PFAS compounds (PFHxS, PFNA, PFOA, PFOS) individually against a candidate Surface Water Action Level (cSWAL) of 23 ng/L (ppt). All four compounds had concentrations less than the cSWAL, with the maximum being 2.63 ng/L of PFOA.

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 Peters Pond (MA96244) 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 Blooms since C-HAB postings (blooms of >15 days in duration) were reported to MDPH in 2021. During the period 2015 through 2022, C-HAB postings for Peters Pond were reported to MDPH based on visual observations for 42 days in 2021. 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.

Pilgrim Lake (MA96246)

Location:	Orleans.
AU Type:	FRESHWATER LAKE
AU Size:	38 ACRES
Classification/Qualifier:	B: ORW, WWF

No usable data were available for Pilgrim Lake (MA96246) 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

Pleasant Bay (MA96-77)

Location:	The waters between the mouth of Muddy Creek, Harwich and imaginary lines drawn from the northeastern edge of Orleans (near The Horseshoe and The Narrows), southeasterly around the northeastern tip of Sipson Island, and Sipson Meadow, Orleans then south to the northern tip of Strong Island, Chatham and from the southeastern tip of Strong Island to Allen Point, Chatham (excluding the delineated segments; Bassing Harbor, Round Cove and Quanset Pond).
AU Type:	ESTUARY
AU Size:	2.88 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Estuarine Bioassessments	--	Unchanged
5	5	Nitrogen, Total	33799	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Agriculture (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Golf Courses (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--
Nitrogen, Total	Agriculture (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	Golf Courses (Y)	X	--	--	--	--	--
Nitrogen, Total	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Pleasant Bay (MA96-77) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
Pleasant Bay (MA96-77): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 2.8527 sq mi (99%). The approved shellfish growing area represents 2.8516 sq mi (99%). The Shellfish Harvesting Use is assessed as Fully Supporting because the growing area (normalized to the AU area) is classified as 100% approved.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC52N.0	Chatham Harbor North	Approved	0.01524	0.5%

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC53.0	Pleasant Bay	Approved	2.82820	98.3%
SC54.0	Bassing Harbor	Approved	0.00445	0.2%
SC58.1	Muddy Creek Mouth	Conditionally Approved	0.00119	0.0%
SC61.0	Little Pleasant Bay	Approved	0.00366	0.1%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Pleasant Bay (MA96-77) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Pleasant Bay (MA96-77) continues to be assessed as Fully Supporting based on MDPH Beach Closure data and shellfish growing area classification data. Pleasant Bay has 4 beaches with MDPH Beach Closure data: Jacknife Harbor [Beach ID: 2704] beach in Chatham, Pleasant Bay [Beach ID: 2874] and Wequasett Inn Resort [Beach ID: 2897] beaches in Harwich and Little Inn at Pleasant Bay [Beach ID: 3049] beach in Orleans. None of these beaches were ever posted for swimming from 2018-2022. In addition, the shellfish growing areas (2.8527 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Primary Contact Recreation Use of Pleasant Bay.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
2704	Jacknife Harbor/ Chatham	41.71290, -69.99380	41.71407, -69.99150	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
2874	Pleasant Bay/ Harwich	41.71387, -69.99570	41.71334, -69.99540	0%	0%	0%	0%	0%	0%	0%	0%	0%	0

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
2897	Wequasett Inn Resort/ Harwich	41.72296, -69.99450	41.72030, -69.99500	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
3049	Little Inn at Pleasant Bay/ Orleans	41.73047, -69.99150	41.72998, -69.99170	0%	0%	0%	0%	0%	0%	0%	0%	0%	0

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Pleasant Bay (MA96-77): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 2.8527 sq mi (99%). The approved shellfish growing area represents 2.8516 sq mi (99%). The Primary Contact Recreational Use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Pleasant Bay (MA96-77) continues to be assessed as Fully Supporting based on MDPH Beach Closure data and shellfish growing area classification data. Pleasant Bay has 4 beaches with DPH Beach Closure data: Jacknife Harbor [Beach ID: 2704] beach in Chatham, Pleasant Bay [Beach ID: 2874] and Wequasett Inn Resort [Beach ID: 2897] beaches in Harwich and Little Inn at Pleasant Bay [Beach ID: 3049] beach in Orleans. None of these beaches were ever posted for swimming from 2018-2022. The shellfish growing areas (2.8527 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Secondary Contact Recreation Use of Pleasant Bay.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Pleasant Bay (MA96-77): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 2.8527 sq mi (99%). The approved shellfish growing area represents 2.8516 sq mi (99%). The Secondary Contact Recreational use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Pochet Neck (MA96-73)

Location:	Outlet to Little Pleasant Bay, Orleans (areas within Cape Cod National Seashore designated as ORW).
AU Type:	ESTUARY
AU Size:	0.24 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO ('ORW' applies only to portion in Cape Cod National Seashore)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Estuarine Bioassessments	33793	Unchanged
4a	4a	Fecal Coliform	42369	Unchanged
4a	4a	Nitrogen, Total	33793	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Discharges from Biosolids (SLUDGE) Storage, Application or Disposal (Y)	X	--	--	--	--	--
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--
Fecal Coliform	Unspecified Urban Stormwater (Y)	--	--	X	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--
Fecal Coliform	Yard Maintenance (Y)	--	--	X	--	--	--
Nitrogen, Total	Discharges from Biosolids (SLUDGE) Storage, Application or Disposal (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Pochet Neck (MA96-73) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

There is insufficient information available to delist the existing Fecal Coliform impairment so the Shellfish Harvesting Use for Pochet Neck (MA96-73) will continue to be assessed as Not Supporting. The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.2235 sq mi (93%). The approved shellfish growing area represents 0.2201 sq mi (92%) and the prohibited shellfish growing area represents 0.0035 sq mi (1%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as a combination of approved and prohibited.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC61.0	Little Pleasant Bay	Approved	0.00344	1.4%
SC62.1	Pochet Creek	Prohibited	0.00347	1.5%
SC62.2	Pochet Creek	Approved	0.21662	90.6%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Pochet Neck (MA96-73) 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 Pochet Neck (MA96-73) so it is assessed as having Insufficient Information. The shellfish growing areas (0.2235 sq mi) in this AU are less than 100% approved (0.2201 sq mi, 92%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Pochet Neck.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Pochet Neck (MA96-73): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.2235 sq mi (93%). The approved shellfish growing area represents 0.2201 sq mi (92%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Pochet Neck (MA96-73) so it is assessed as having Insufficient Information. The shellfish growing areas (0.2235 sq mi) in this AU are less than 100% approved (0.2201 sq mi, 92%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Pochet Neck.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Pochet Neck (MA96-73): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.2235 sq mi (93%). The approved shellfish growing area represents 0.2201 sq mi (92%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Popponesset Bay (MA96-40)

Location:	The waters seaward of an imaginary line connecting Ryefield Point, Barnstable and Punkhorn Point, Mashpee to inlet of Nantucket Sound (including Ockway Bay, Mashpee and Pinquickset Cove, Barnstable) (excludes Popponesset Creek, Mashpee).
AU Type:	ESTUARY
AU Size:	0.68 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	5	Estuarine Bioassessments	33969, 33967, 33968	Unchanged
4a	5	Fecal Coliform	--	Added

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Agriculture (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Golf Courses (Y)	X	--	--	--	--	--
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--
Fecal Coliform	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 Popponesset Bay (MA96-40) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Popponesset Bay (MA96-40): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.6514 sq mi (96%). The approved shellfish growing area represents 0.6274 sq mi (93%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications, a Fecal Coliform impairment is being added.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC17.0		Approved	0.00599	0.9%
SC18.0	Barnstable South Coastal	Approved	0.00786	1.2%
SC19.0	Popponesset Bay	Approved	0.61353	90.7%
SC19.2	Ockway Bay Mooring Area	Conditionally Approved	0.02400	3.5%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Popponesset Bay (MA96-40) 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 Popponesset Bay (MA96-40) so it is assessed as having Insufficient Information. The shellfish growing areas (0.6514 sq mi) in this AU are less than 100% approved (0.6274 sq mi, 93%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Popponesset Bay.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Popponesset Bay (MA96-40): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.6514 sq mi (96%). The approved shellfish growing area represents 0.6274 sq mi (93%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Popponesset Bay (MA96-40) so it is assessed as having Insufficient Information. The shellfish growing areas (0.6514 sq mi) in this AU are less than 100% approved (0.6274 sq mi, 93%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Popponesset Bay.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Popponesset Bay (MA96-40): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.6514 sq mi (96%). The approved shellfish growing area represents 0.6274 sq mi (93%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Popponesset Creek (MA96-39)

Location:	All waters west of Popponesset Island (from Popponesset Island Road bridge at the north to a line extended from the southeastern most point of the island southerly to Popponesset Beach), Mashpee.
AU Type:	ESTUARY
AU Size:	0.05 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Estuarine Bioassessments	--	Unchanged
5	5	Fecal Coliform	36772	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	Marina/Boating Sanitary On-vessel Discharges (N)	--	--	X	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	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 Popponesset Creek (MA96-39) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Popponesset Creek (MA96-39): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0352 sq mi (77%). The approved shellfish growing area represents 0.0333 sq mi (73%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC19.0	Popponesset Bay	Approved	0.03329	73.1%
SC19.1	New Seabury Marina	Conditionally Approved	0.00188	4.1%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Popponesset Creek (MA96-39) 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 Popponesset Creek (MA96-39) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0352 sq mi) in this AU are less than 100% approved (0.0333 sq mi, 73%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Popponesset Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Popponesset Creek (MA96-39): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0352 sq mi (77%). The approved shellfish growing area represents 0.0333 sq mi (73%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Popponesset Creek (MA96-39) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0352 sq mi) in this AU are less than 100% approved (0.0333 sq mi, 73%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Popponesset Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Popponesset Creek (MA96-39): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0352 sq mi (77%). The approved shellfish growing area represents 0.0333 sq mi (73%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Prince Cove (MA96-07)

Location:	Includes areas east of Prince Cove (which are locally known as "Warren Cove" and "Prince Cove Channel") to confluence with North Bay, Barnstable.
AU Type:	ESTUARY
AU Size:	0.14 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Estuarine Bioassessments	33992, 33993, 33991	Unchanged
4a	4a	Fecal Coliform	36585	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Agriculture (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Aquaculture (Permitted) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Wastes from Pets (Y)	X	--	--	--	--	--
Fecal Coliform	Animal Shows and Racetracks (Y)	--	--	X	--	--	--
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Marina/Boating Pumpout Releases (Y)	--	--	X	--	--	--
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	--	--	--
Fecal Coliform	Upstream Source (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Prince Cove (MA96-07) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Prince Cove (MA96-07): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1319 sq mi (95%). The approved shellfish growing area represents 0 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC23.1	Mills River/Princes Cove	Conditionally Approved	0.08832	63.5%
SC23.2	North Bay	Conditionally Approved	0.00218	1.6%
SC23.3	Warren's Cove	Prohibited	0.04136	29.7%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Prince Cove (MA96-07) 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 Prince Cove (MA96-07) so it is assessed as having Insufficient Information. The shellfish growing areas (0.1319 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Prince Cove.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Prince Cove (MA96-07): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1319 sq mi (95%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Prince Cove (MA96-07) so it is assessed as having Insufficient Information. The shellfish growing areas (0.1319 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Prince Cove.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Prince Cove (MA96-07): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1319 sq mi (95%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Provincetown Harbor (MA96-29)

Location:	The waters northwest of an imaginary line drawn northeasterly from the tip of Long Point, Provincetown to Pilgrim Beach (in vicinity of Sandbars Inn), Truro (area within Cape Cod National Seashore designated as ORW).
AU Type:	ESTUARY
AU Size:	4.33 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO ('ORW' applies only to portion in Cape Cod National Seashore)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Enterococcus	36772	Added
4a	4a	Fecal Coliform	36772	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Enterococcus	Source Unknown (N)	--	--	--	--	X	--
Fecal Coliform	Marina/Boating Pumpout Releases (Y)	--	--	X	--	--	--
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	--	--	--
Fecal Coliform	Unspecified Urban Stormwater (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Provincetown Harbor (MA96-29) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Provincetown Harbor (MA96-29): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 4.1502 sq mi (96%). The approved shellfish growing area represents 3.3253 sq mi (77%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
CCB1.0	Herring Cove/Long Point	Approved	0.00003	0.0%
CCB3.0	Truro West Coastal	Approved	0.00034	0.0%
CCB4.0	Provincetown Harbor	Approved	3.30750	76.3%
CCB4.1	Provincetown Inner Harbor (West of MacMillan Pier)	Prohibited	0.39613	9.1%
CCB4.2	Wood End Mooring Field	Prohibited	0.04801	1.1%
CCB4.21	East Side of the Breakwater	Approved	0.01738	0.4%
CCB4.3	Provincetown Inner Harbor	Prohibited	0.00462	0.1%
CCB4.6	Provincetown Inner Harbor (East of MacMillan Pier)	Restricted	0.19887	4.6%
CCB5.0	The Breakwater	Conditionally Approved	0.17448	4.0%
CCB5.1	The Breakwater	Prohibited	0.00280	0.1%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Provincetown Harbor (MA96-29) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Provincetown Harbor (MA96-29) is assessed as Not Supporting based on MDPH Beach Closure data at two beaches, with an Enterococcus impairment being added. The prior Alert for Enterococcus is being removed in light of the new impairment. Provincetown Harbor has 18 beaches with MDPH Beach Closure data: Town Landing - West of Coast Guard [Beach ID: 3072], 451 Commercial Street [Beach ID: 3080], Ryder Street [Beach ID: 3075], 333 Commercial Street [Beach ID: 3087], 593 Commercial Street [Beach ID: 3077], 637 Commercial Street [Beach ID: 3082], Atlantic Avenue [Beach ID: 3070], Johnson Street [Beach ID: 3078], Kendal Lane [Beach ID: 3085], Town Landing - Breakwater [Beach ID: 3074], Town Landing - Snail Road [Beach ID: 3073], West End Lot [Beach ID: 3071], Winston Ave [Beach ID: 5477], Atkins Lane [Beach ID: 3083], Court Street [Beach ID: 3084], Provincetown Inn East [Beach ID: 3081] and Provincetown Inn Rotary [Beach ID: 3069] beaches in Provincetown and Dune's Colony (648 Shore Rd) [Beach ID: 5191] beach in Truro. Beaches were posted for >10% of the swimming season at 451 Commercial Street in 2018 (15%) and 2019 (22%) and Town Landing - West of Coast Guard in 2018 (19%), 2020 (26%), and 2021 (16%) indicating an Enterococcus impairment. The shellfish growing areas (4.1501 sq mi) in this AU are less than 100% approved (3.3252 sq mi, 77%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Provincetown Harbor. Stormwater sampling was conducted by MassDEP staff in 2011-2013 at 16 drain outfall pipes that discharge directly to the Provincetown Harbor as part of the as part of the Bacteria Source Tracking (BST) project. This sampling effort was designed to determine which storm water outfalls were the most significant contributors of fecal bacteria during a storm event. The data indicated that the dirtiest of the outfalls drain the central (most developed) section of the town, with *E.coli* concentrations ranging 10 to 32,550 MPN and Enterococcus concentrations ranging 10 to 65,860 MPN for all the outfalls (it should be noted that all BST data are not in the MassDEP WPP Monitoring database, so are not presented in data tables below in this repository). The Town of Provincetown assisted with up-pipe investigations for those outfalls with the highest concentrations, but no correctable human source was ever found. It should be noted that porous pavement has since been installed throughout much of downtown Provincetown.

Bacteria Data

Summary Statement for 2011-2019 MassDEP Bacteria Source Tracking (BST) Data (MassDEP Undated 1)

Summary
Stormwater sampling was conducted in 2011-2013 at 16 drain outfall pipes that discharge directly to the Provincetown Hbr AU (MA96-29). This sampling effort was designed to determine which storm water outfalls were the most significant contributors of fecal bacteria during a storm event. The data indicated that the dirtiest of the outfalls drain the central (most developed) section of the town, with E.coli ranging 10 to 32,550MPN and Enterococcus 10 to 65,860MPN for all the outfalls. The Town of Provincetown assisted with up-pipe investigations for those outfalls with the highest concentrations, but no correctable human source was ever found. It should be noted that porous pavement has since been installed throughout much of downtown Provincetown. Follow up sampling is recommended at outfall pipes and in the harbor itself to get a more accurate baseline for bacteria concentrations in this AU.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
3069	Provincetown Inn Rotary/ Provincetown	42.03799, -70.19490	42.03683, -70.19640	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
3070	Atlantic Avenue/ Provincetown	42.04691, -70.18980	42.04628, -70.19040	0%	0%	0%	1%	6%	0%	0%	0%	0%	0
3071	West End Lot/ Provincetown	42.04164, -70.19300	42.04132, -70.19330	2%	0%	0%	0%	0%	0%	0%	0%	0%	0
3072	Town Landing - West of Coast Guard/ Provincetown	42.04481, -70.19130	42.04460, -70.19150	0%	0%	11%	0%	19%	0%	26%	16%	8%	4
3073	Town Landing - Snail Road/ Provincetown	42.06095, -70.16410	42.06119, -70.16280	0%	1%	6%	0%	3%	1%	2%	1%	0%	0
3074	Town Landing - Breakwater/ Provincetown	42.06163, -70.16030	42.06172, -70.15390	2%	1%	0%	0%	6%	2%	2%	0%	1%	0
3075	Ryder Street/ Provincetown	42.04948, -70.18730	42.05039, -70.18580	0%	0%	0%	1%	9%	21%	0%	0%	0%	1
3077	593 Commercial Street/ Provincetown	42.05934, -70.17070	42.05946, -70.17030	8%	0%	0%	1%	1%	0%	0%	0%	0%	0

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
3078	Johnson Street/ Provincetown	42.05294, -70.18330	42.05321, -70.18300	0%	0%	0%	0%	6%	0%	0%	0%	5%	0
3080	451 Commercial Street/ Provincetown	42.05520, -70.17990	42.05573, -70.17900	0%	0%	0%	0%	15%	22%	0%	5%	0%	2
3081	Provincetown Inn East/ Provincetown	42.04042, -70.19440	42.03801, -70.19470	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
3082	637 Commercial Street/ Provincetown	42.05993, -70.16850	42.06088, -70.16420	3%	0%	7%	0%	2%	0%	0%	1%	1%	0
3083	Atkins Lane/ Provincetown	42.05728, -70.17620	42.05777, -70.17520	0%	0%	0%	0%	0%	0%	0%	0%	5%	0
3084	Court Street/ Provincetown	42.04815, -70.18880	42.04844, -70.18850	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
3085	Kendal Lane/ Provincetown	42.05824, -70.17400	42.05879, -70.17240	0%	0%	6%	0%	6%	0%	0%	0%	0%	0
3087	333 Commercial Street/ Provincetown	42.05136, -70.18500	42.05228, -70.18400	0%	0%	0%	1%	0%	5%	0%	0%	0%	0
5191	Dune's Colony (648 Shore Rd)/ Truro	42.06050, -70.14820	42.05800, -70.14090	0%	0%	0%	0%	1%	0%	0%	0%	0%	0
5477	Winston Ave/ Provincetown	42.06172, -70.15390	42.06038, -70.14770	3%	1%	2%	0%	2%	5%	7%	0%	8%	0

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Provincetown Harbor (MA96-29): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 4.1502 sq mi (96%). The approved shellfish growing area represents 3.3253 sq mi (77%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Provincetown Harbor (MA96-29) so it is assessed as having Insufficient Information. Provincetown Harbor has 18 beaches with MDPH Beach Closure data: Town Landing - West of Coast Guard [Beach ID: 3072], 451 Commercial Street [Beach ID: 3080], Ryder Street [Beach ID: 3075], 333 Commercial Street [Beach ID: 3087], 593 Commercial Street [Beach ID: 3077], 637 Commercial Street [Beach ID: 3082], Atlantic Avenue [Beach ID: 3070], Johnson Street [Beach ID: 3078], Kendal Lane [Beach ID: 3085], Town Landing - Breakwater [Beach ID: 3074], Town Landing - Snail Road [Beach ID: 3073], West End Lot [Beach ID: 3071], Winston Ave [Beach ID: 5477], Atkins Lane [Beach ID: 3083], Court Street [Beach ID: 3084], Provincetown Inn East [Beach ID: 3081] and Provincetown Inn Rotary [Beach ID: 3069] beaches in Provincetown and Dune's Colony (648 Shore Rd) [Beach ID: 5191] beach in Truro. Available MDPH Beach Closure data cannot be used to positively assess the Secondary Contact Recreation Use since beaches were posted for >10% of the swimming season: 451 Commercial Street in 2018 and 2019 and Town Landing - West of Coast Guard in 2018, 2020, and 2021. The shellfish growing areas (4.1501 sq mi) in this AU are less than 100% approved (3.3252 sq mi, 77%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Provincetown Harbor.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Provincetown Harbor (MA96-29): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 4.1502 sq mi (96%). The approved shellfish growing area represents 3.3253 sq mi (77%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Quanset Pond (MA96-74)

Location:	Orleans.
AU Type:	ESTUARY
AU Size:	0.02 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO (also tributary to SA B Shellfishing ORW)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Nitrogen, Total	33795, 33791	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Quanset Pond (MA96-74) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
Quanset Pond (MA96-74): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0209 sq mi (96%). The approved shellfish growing area represents 0.0209 sq mi (96%). The Shellfish Harvesting Use is assessed as Fully Supporting because the growing area (normalized to the AU area) is classified as 100% approved.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC53.0	Pleasant Bay	Approved	0.00059	2.7%
SC60.0	Quanset Pond	Approved	0.02030	93.2%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Quanset Pond (MA96-74) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Quanset Pond (MA96-74) continues to be assessed as Fully Supporting based on MDPH Beach Closure data and shellfish growing area classification data. MDPH Beach Closure data from Quanset Harbor Club Association beach in Orleans [Beach ID: 3052], indicated that this beach was rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (0.0209 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Primary Contact Recreation Use of Quanset Pond.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
3052	Quanset Harbor Club Association/ Orleans	41.73776, -69.97940	41.73760, -69.97940	0%	0%	0%	0%	0%	0%	0%	0%	0%	0

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Quanset Pond (MA96-74): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0209 sq mi (96%). The approved shellfish growing area represents 0.0209 sq mi (96%). The Primary Contact Recreational Use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Quanset Pond (MA96-74) continues to be assessed as Fully Supporting based on MDPH Beach Closure data and shellfish growing area classification data. MDPH Beach Closure data from Quanset Harbor Club Association beach in Orleans [Beach ID: 3052], indicated that this beach was rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (0.0209 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Secondary Contact Recreation Use of Quanset Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Quanset Pond (MA96-74): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0209 sq mi (96%). The approved shellfish growing area represents 0.0209 sq mi (96%). The Secondary Contact Recreational use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Quashnet River (MA96-20)

Location:	From just south of Route 28, Falmouth to mouth at inlet Waquoit Bay, Falmouth. Also known as Moonakis River.
AU Type:	ESTUARY
AU Size:	0.07 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO (also tributary to SA B Shellfishing ORW)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Dissolved Oxygen	R1_MA_2020_08	Unchanged
4a	4a	Fecal Coliform	36772	Unchanged
4a	4a	Nitrogen, Total	R1_MA_2020_08	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Dissolved Oxygen	Agriculture (Y)	X	--	--	--	--	--
Dissolved Oxygen	Animal Feeding Operations (NPS) (Y)	X	--	--	--	--	--
Dissolved Oxygen	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Dissolved Oxygen	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Dissolved Oxygen	Yard Maintenance (Y)	X	--	--	--	--	--
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--
Nitrogen, Total	Agriculture (Y)	X	--	--	--	--	--
Nitrogen, Total	Animal Feeding Operations (NPS) (Y)	X	--	--	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Quashnet River (MA96-20) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

There is insufficient information available to delist the existing Fecal Coliform impairment so the Shellfish Harvesting Use for Quashnet River (MA96-20) will continue to be assessed as Not Supporting. The total of all shellfish growing area classifications (MassGIS, 2024) within Quashnet River is 0.0669 sq mi (97%). The approved shellfish growing area represents 0.0024 sq mi (3%) and the prohibited shellfish growing area represents 0.0645 sq mi (93%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as a combination of approved and prohibited.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC15.0	Waquoit Bay	Approved	0.00238	3.4%
SC15.2	Moonakiss River, North	Prohibited	0.06448	93.1%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Quashnet River (MA96-20) 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 the Quashnet River (MA96-20) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0669 sq mi) in this AU are less than 100% approved (0.0024 sq mi, 3%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Quashnet River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Quashnet River (MA96-20): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0669 sq mi (97%). The approved shellfish growing area represents 0.0024 sq mi (3%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
No bacteria data are available to assess the Secondary Contact Recreation Use for the Quashnet River (MA96-20) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0669 sq mi) in this AU are less than 100% approved (0.0024 sq mi, 3%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Quashnet River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

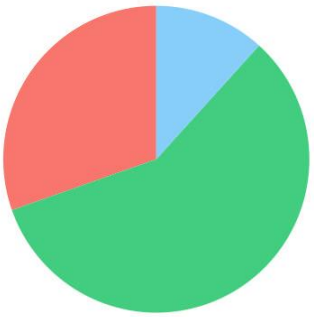
Summary
Quashnet River (MA96-20): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0669 sq mi (97%). The approved shellfish growing area represents 0.0024 sq mi (3%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Quashnet River (MA96-90)

Location:	Headwaters, outlet Johns Pond, Mashpee to just south of Route 28, Falmouth (area within Waquoit Bay ACEC designated as ORW).
AU Type:	RIVER
AU Size:	4.1 MILES
Classification/Qualifier:	B: ORW

Quashnet River (MA96-90)

Watershed Area: 3.79 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	3.79	2.12	0.72	0.59
Agriculture	0%	0%	0%	0%
Developed	30.4%	16.4%	11.8%	13.7%
Natural	57.9%	63.9%	51%	45%
Wetland	11.7%	19.7%	37.2%	41.2%
Impervious	9.2%	6.2%	3.2%	3.5%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Curly-leaf Pondweed*)	--	Unchanged
5	5	Temperature	--	Unchanged

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Quashnet River (MA96-90) 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 Quashnet River (MA96-90) 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 Quashnet River (MA96-90) 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 Quashnet River (MA96-90) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected *E. coli* bacteria samples in the Quashnet River from 2009 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: nearly halfway down the AU at station W1910 [Rt. 151, Mashpee] from May-Oct 2009 (n=6) and at the downstream end of the AU at station W1909 [Martin Rd, Falmouth] from May-Oct 2009 (n=6). Analysis of the historic single year limited frequency E. coli datasets from W1910 and W1909 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM's were 67 and 86 CFU/100ml respectively. Historic *E. coli* data from stations W1910 and W1909 meet 2024 CALM guidance, however 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
W1909	MassDEP	Water Quality	Quashnet River	[Martin Road, Falmouth]	41.592154	-70.507777
W1910	MassDEP	Water Quality	Quashnet River	[Route 151, Mashpee]	41.617753	-70.500578

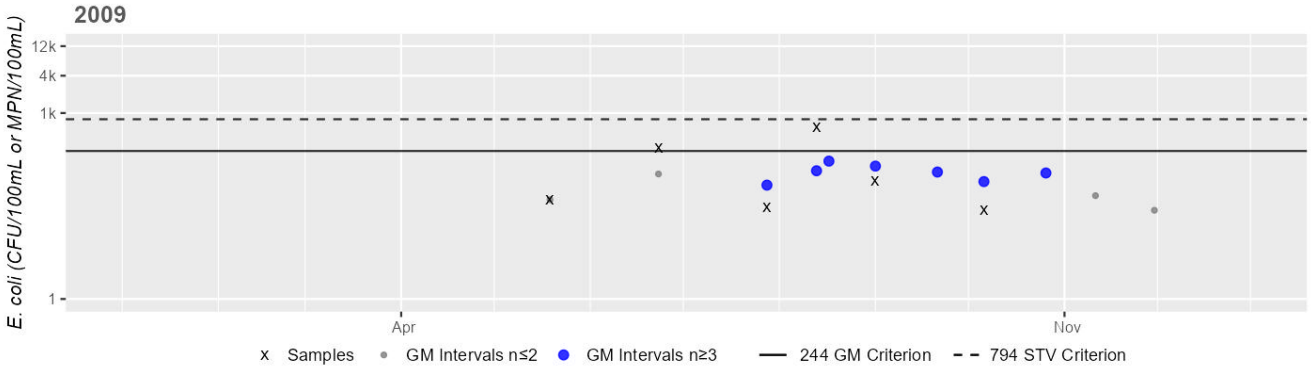
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(MassDEP Undated 9) (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
W1909	MassDEP	E. coli	05/19/09	10/06/09	6	27	580	86
W1910	MassDEP	E. coli	05/19/09	10/06/09	6	10	420	67

Station MASSDEP_W1909 - Escherichia coli

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



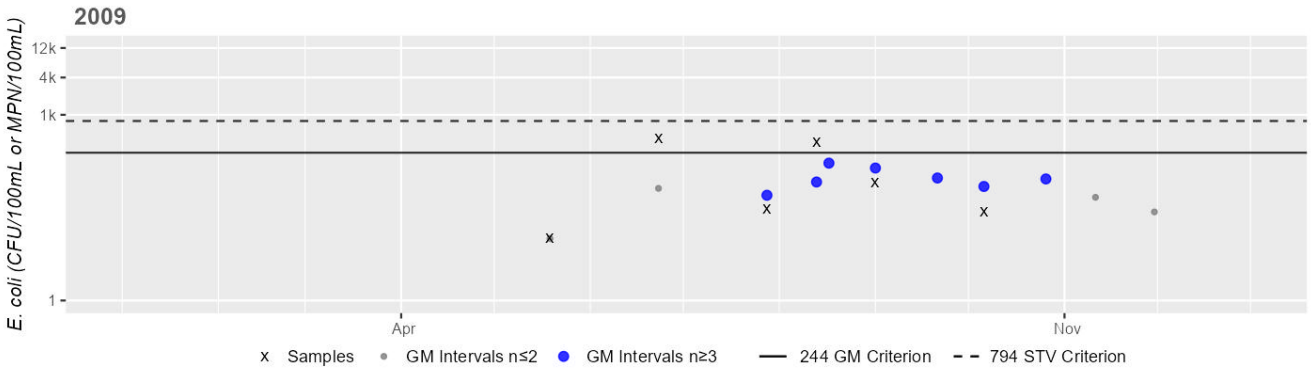
Variable*	Result
Samples	6
SeasGM	86
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Station MASSDEP_W1910 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	67
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Quivett Creek (MA96-09)

Location:	Outlet of unnamed pond just south of Route 6A, Brewster/Dennis to mouth at inlet Cape Cod Bay, Brewster/Dennis.
AU Type:	ESTUARY
AU Size:	0.04 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Curly-leaf Pondweed*)	--	Unchanged
5	5	Dissolved Oxygen	--	Unchanged
5	5	Fecal Coliform	36771	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
(Curly-leaf Pondweed*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--	--
Dissolved Oxygen	Source Unknown (N)	X	--	--	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary

Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Quivett Creek (MA96-09) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
There is insufficient information available to delist the existing Fecal Coliform impairment so the Shellfish Harvesting Use for Quivett Creek (MA96-09) will continue to be assessed as Not Supporting. The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0223 sq mi (58%). The approved shellfish growing area represents 0 sq mi (0%) and the prohibited shellfish growing area represents 0.0223 sq mi (58%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as entirely prohibited..

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
CCB24.0	Quivett Creek	Prohibited	0.02228	58.3%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Quivett Creek (MA96-09) 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 Quivett Creek (MA96-09) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0223 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Quivett Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Quivett Creek (MA96-09): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0223 sq mi (58%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Quivett Creek (MA96-09) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0223 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Quivett Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Quivett Creek (MA96-09): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0223 sq mi (58%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Red Brook (MA96-25)

Location:	From dam (NATID: MA01037) at Red Brook Road, Falmouth/Mashpee to mouth at inlet Hamblin Pond, Falmouth/Mashpee.
AU Type:	ESTUARY
AU Size:	0.01 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO (also tributary to SA B Shellfishing ORW)

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 Red Brook (MA96-25) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
Red Brook (MA96-25): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0085 sq mi (83%). The approved shellfish growing area represents 0 sq mi (0%) and the prohibited shellfish growing area represents 0.0085 sq mi (83%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as entirely prohibited.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC16.2	Red Brook	Prohibited	0.00846	82.8%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Red Brook (MA96-25) 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 Red Brook (MA96-25) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0085 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Red Brook.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Red Brook (MA96-25): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0085 sq mi (83%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Red Brook (MA96-25) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0085 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Red Brook.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Red Brook (MA96-25): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0085 sq mi (83%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Red Lily Pond (MA96257)

Location:	Barnstable.
AU Type:	FRESHWATER LAKE
AU Size:	4 ACRES
Classification/Qualifier:	B

No usable data were available for Red Lily Pond (MA96257) 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	(Aquatic Plants (Macrophytes)*)	--	Unchanged
5	5	Fecal Coliform	--	Unchanged
5	5	Nutrient/Eutrophication Biological Indicators	--	Unchanged

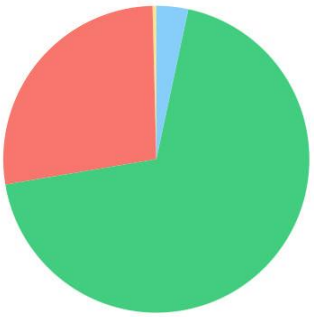
Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Aquatic Plants (Macrophytes)*)	Source Unknown (N)	--	--	X	X	X
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (N)	--	--	--	X	--
Fecal Coliform	Source Unknown (N)	--	--	--	X	--
Nutrient/Eutrophication Biological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

Red River (MA96-107)

Location:	Headwaters west of Mayflower Drive, Chatham to tidal portion north of South Chatham Road, Harwich/Deep Hole Road, Chatham.
AU Type:	RIVER
AU Size:	0.8 MILES
Classification/Qualifier:	B

Red River (MA96-107)

Watershed Area: 2.50 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	2.50	2.50	0.55	0.55
Agriculture	0.4%	0.4%	0.6%	0.6%
Developed	27.2%	27.2%	23.6%	23.6%
Natural	69%	69%	67.4%	67.4%
Wetland	3.4%	3.4%	8.4%	8.4%
Impervious	14.1%	14.1%	12.5%	12.5%

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	X
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	X

Supporting Information for Removed Impairments

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Red River (MA96-107) 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 Red River (MA96-107), so it is Not Assessed. Since the prior Alert identified for High Phosphorus concentrations was redundantly duplicated across multiple uses for this waterbody, it is being removed from the Aesthetics Use but will continue to be maintained under the Aquatic Life Use.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for the Red River (MA96-107) 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. Since the prior Alert identified for High Phosphorus concentrations was redundantly duplicated across multiple uses for this waterbody, it is being removed from the Primary Contact Recreation Use but will continue to be maintained under the Aquatic Life Use.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for the Red River (MA96-107) 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 one station in 2009. Since the prior Alert identified for High Phosphorus concentrations was redundantly duplicated across multiple uses for this waterbody, it is being removed from the Secondary Contact Recreation Use but will continue to be maintained under the Aquatic Life Use. MassDEP staff collected *E. coli* bacteria samples in the Red River at W1918 [West of the Shirley Drive cul-de-sac, Chatham/Harwich] from May-Oct 2009 (n=6). Analysis of the historic single year limited frequency dataset from this station indicated 71% of intervals had GMs >244 CFU/100ml, 3 samples exceeded the 794 CFU/100ml STV (maximum 6,100 CFU) and the overall GM was 445 CFU/100ml, which is indicative of an *E. coli* impairment.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1918	MassDEP	Water Quality	Red River	[west of the Shirley Drive cul-de-sac, Chatham/Harwich]	41.674997	-70.034920

Bacteria Data

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

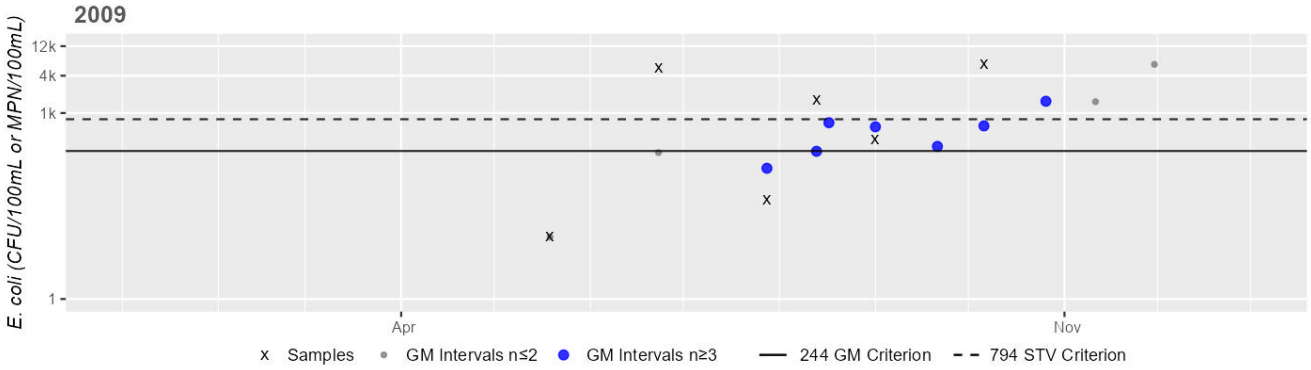
(MassDEP Undated 9) (MassDEP Undated 4)

[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
W1918	MassDEP	E. coli	05/19/09	10/06/09	6	10	6100	445

Station MASSDEP_W1918 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	445
#GMI	7
#GMI Ex	5
%GMI Ex	71%
n>STV	3
%n>STV	50%

Cumulative %GMI Exceedance
Historic (1997-2010)
71%

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

Rock Harbor Creek (MA96-16)

Location:	Headwaters outlet Cedar Pond, Orleans to mouth at inlet Cape Cod Bay, Eastham/Orleans.
AU Type:	ESTUARY
AU Size:	0.03 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	(Fish Passage Barrier*)	--	Unchanged
4a	4a	Enterococcus	36772	Added
4a	4a	Fecal Coliform	36772	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
(Fish Passage Barrier*)	Habitat Modification - other than Hydromodification (Y)	X	--	--	--	--	--
Enterococcus	Source Unknown (N)	--	--	--	--	X	X
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	Municipal Point Source Discharges (Y)	--	--	X	--	--	--
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Rock Harbor Creek (MA96-16) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
There is insufficient information available to delist the existing Fecal Coliform impairment so the Shellfish Harvesting Use for Rock Harbor Creek (MA96-16) continues to be assessed as Not Supporting. The total of all shellfish growing area classifications (MassGIS, 2024) within Rock Harbor Creek is 0.0219 sq mi (76%). The approved shellfish growing area represents 0.0067 sq mi (23%) and the prohibited shellfish growing area represents 0.0151 sq mi (53%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as a combination of approved and prohibited.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
CCB17.0	Orleans North Coastal	Approved	0.00638	22.2%
CCB18.0	Rock Harbor	Prohibited	0.01513	52.6%
CCB9.0	Eastham Coastal	Approved	0.00036	1.3%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Rock Harbor Creek (MA96-16) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Rock Harbor Creek (MA96-16) is assessed as Not Supporting based on bacteria data collected at one station in 2020, with an Enterococcus impairment is being added. The shellfish growing areas (0.0219 sq mi) in this AU are less than 100% approved (0.0067 sq mi, 23%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Rock Harbor Creek. Center for Coastal Studies (CCS) staff/volunteers collected Enterococcus bacteria samples in Rock Harbor Creek at station CCS_304 [Rock Harbor Bend] from Apr-Oct 2020 (n=12). Analysis of the single year moderate frequency dataset from this station indicated 88% of intervals had GMs >35 CFU/100ml and 6 samples exceeded the 130 CFU/100ml STV (maximum 2,360 CFU). The bacteria data from station CCS_304 are indicative of an Enterococcus impairment.

Monitoring Stations

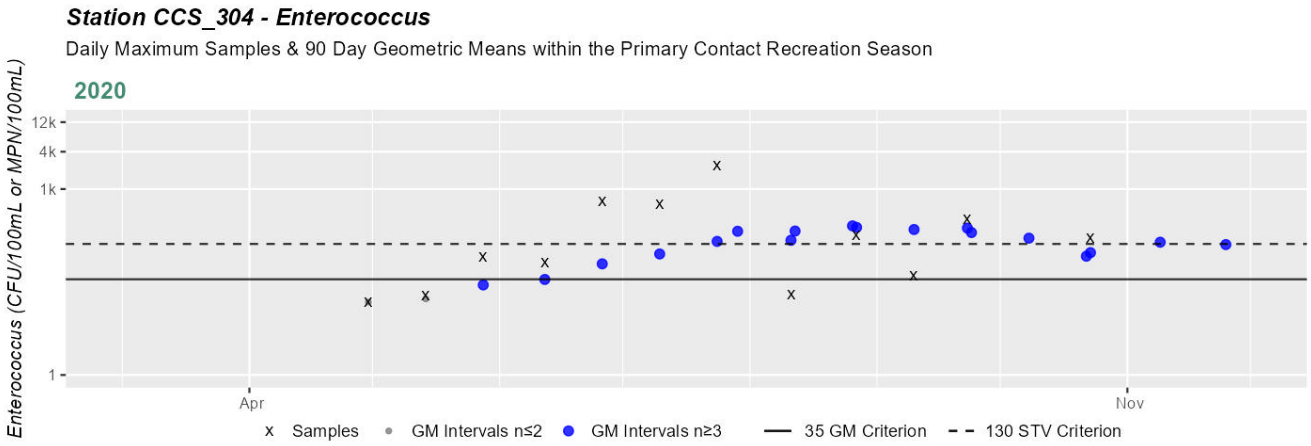
Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CCS_304	Center for Coastal Studies	Water Quality	Rock Harbor Creek	Rock Harbor Bend	41.801339	-70.005092

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (CCS 2020) (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
CCS_304	Center for Coastal Studies	Enterococci	04/29/20	10/22/20	12	15	2360	120



Variable*	Result
Samples	12
SeasGM	120
#GMI	18
#GMI Ex	16
%GMI Ex	88%
n>STV	6
%n>STV	50%

Cumulative %GMI Exceedance
Current (2011-2022)
88%

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

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Rock Harbor Creek (MA96-16): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0219 sq mi (76%). The approved shellfish growing area represents 0.0067 sq mi (23%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

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

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Rock Harbor Creek (MA96-16) is assessed as Not Supporting based on a re-evaluation of bacteria data collected at one station in 2020, with an Enterococcus impairment being added. The shellfish growing areas (0.0219 sq mi) in this AU are less than 100% approved (0.0067 sq mi, 23%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Rock Harbor Creek. Center for Coastal Studies (CCS) staff/volunteers collected Enterococcus bacteria samples in Rock Harbor Creek at station CCS_304 [Rock Harbor Bend] from Apr-Oct 2020 (n=12). Analysis of the single year moderate frequency dataset from this station indicated 83% of intervals had GMs >68 CFU/100ml and 4 samples exceeded the 252 CFU/100ml STV (maximum 2,360 CFU). The bacteria data from station CCS_304 are indicative of an Enterococcus impairment.

Monitoring Stations

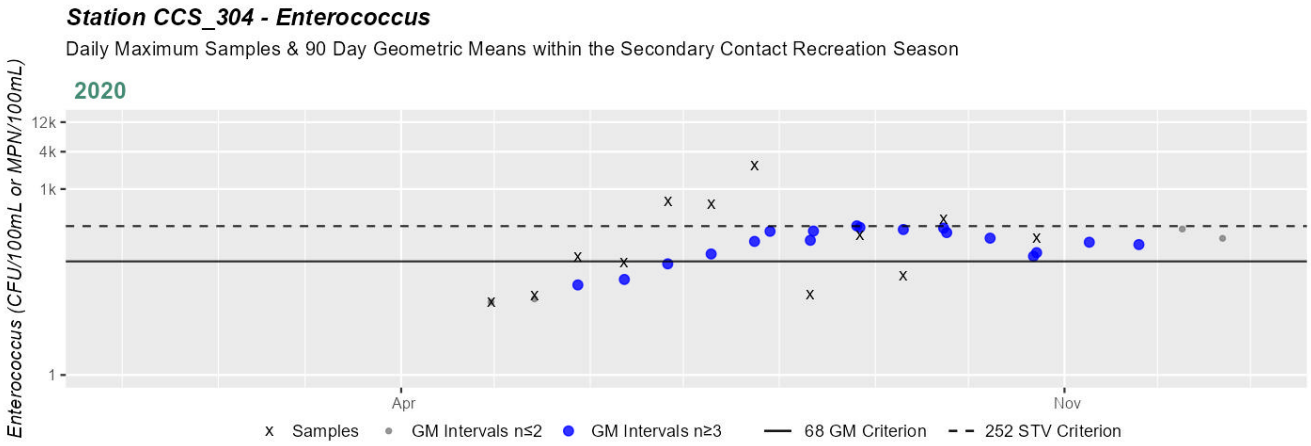
Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CCS_304	Center for Coastal Studies	Water Quality	Rock Harbor Creek	Rock Harbor Bend	41.801339	-70.005092

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis) (CCS 2020) (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
CCS_304	Center for Coastal Studies	Enterococci	04/29/20	10/22/20	12	15	2360	120



Variable*	Result
Samples	12
SeasGM	120
#GMI	18
#GMI Ex	15
%GMI Ex	83%
n>STV	4
%n>STV	33%

Cumulative %GMI Exceedance
Current (2011-2022)
83%

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

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Rock Harbor Creek (MA96-16): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0219 sq mi (76%). The approved shellfish growing area represents 0.0067 sq mi (23%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Round Cove (MA96-75)

Location:	east of Route 28, Harwich outlet to Pleasant Bay, Harwich.
AU Type:	ESTUARY
AU Size:	0.02 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO (also tributary to SA B Shellfishing ORW)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	4a	Fecal Coliform	R1_MA_2024_04	Changed
5	4a	Nitrogen, Total	33796	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Supporting Information for Removed Impairments

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Round Cove (MA96-75) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Round Cove (MA96-75): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0185 sq mi (91%). The approved shellfish growing area represents 0.0001 sq mi (1%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC53.0	Pleasant Bay	Approved	0.00014	0.7%
SC59.0	Round Cove	Conditionally Approved	0.01840	90.0%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Round Cove (MA96-75) 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 Round Cove (MA96-75) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0185 sq mi) in this AU are less than 100% approved (0.0001 sq mi, 1%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Round Cove.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Round Cove (MA96-75): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0185 sq mi (91%). The approved shellfish growing area represents 0.0001 sq mi (1%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Round Cove (MA96-75) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0185 sq mi) in this AU are less than 100% approved (0.0001 sq mi, 1%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Round Cove.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Round Cove (MA96-75): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0185 sq mi (91%). The approved shellfish growing area represents 0.0001 sq mi (1%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Round Pond (East) (MA96260)

Location:	Truro.
AU Type:	FRESHWATER LAKE
AU Size:	6 ACRES
Classification/Qualifier:	B: ORW

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Mercury in Fish Tissue	42403	Unchanged

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Round Pond (East) (MA96260) 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 Round Pond (East) at station F0383 in 2018 and 2021 as part of the MassDEP Office of Research and Standards Mercury Initiative. MDPH included a site-specific advisory for Round Pond (East) (referred to by MDPH as ''Round Pond East'') in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent MDPH 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 7)

Summary Statement
Fish toxics sampling was conducted in Round Pond (East) (MA96260) at station F0383 in 2018 and 2021 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 Round Pond (East) (referred to by MDPH as Round Pond East) in their January 2025 Freshwater Fish Consumption Advisory List. The site-specific MDPH advisories are indicative of a Fish Consumption Use impairment for Mercury in Fish Tissue for Round Pond (East) (MA96260).

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Round Pond (East) (MA96260) 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 Round Pond (East) (MA96260) 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 Round Pond (East) (MA96260) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Round Pond (west) (MA96261)

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

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Mercury in Fish Tissue	42404	Unchanged

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Round Pond (west) (MA96261) continues to be assessed as Not Supporting and the prior Mercury in Fish Tissue impairment is being carried forward. MDPH included a site-specific advisory for Round Pond (west) (referred to by MDPH as ''Round Pond West'') in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent MDPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Round Pond (west) (MA96261) 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 Round Pond (west) (MA96261) 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 Round Pond (west) (MA96261) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Run Pond (MA96265)

Location:	Dennis.
AU Type:	FRESHWATER LAKE
AU Size:	7 ACRES
Classification/Qualifier:	B

No usable data were available for Run Pond (MA96265) 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

Rushy Marsh Pond (MA96266)

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

No usable data were available for Rushy Marsh Pond (MA96266) 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

Ryder Cove (MA96-50)

Location:	Chatham.
AU Type:	ESTUARY
AU Size:	0.19 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO (also tributary to SA B Shellfishing ORW)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Estuarine Bioassessments	33780	Unchanged
4a	4a	Fecal Coliform	36772	Unchanged
4a	4a	Nitrogen, Total	33780	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--
Fecal Coliform	Marina/Boating Pumpout Releases (Y)	--	--	X	--	--	--
Fecal Coliform	Upstream Source (Y)	--	--	X	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Ryder Cove (MA96-50) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Ryder Cove (MA96-50): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1721 sq mi (93%). The approved shellfish growing area represents 0 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC54.0	Bassing Harbor	Approved	0.00004	0.0%
SC56.0	Ryder's Cove	Conditionally Approved	0.15847	85.2%
SC56.2	Ryder's Cove Marina	Conditionally Approved	0.00105	0.6%
SC56.3	Landing Road	Prohibited	0.00272	1.5%
SC57.0	Frostfish Cove	Prohibited	0.00984	5.3%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Ryder Cove (MA96-50) 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 Ryder Cove (MA96-50) so it is assessed as having Insufficient Information. The shellfish growing areas (0.1721 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Ryder Cove.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Ryder Cove (MA96-50): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1721 sq mi (93%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Ryder Cove (MA96-50) so it is assessed as having Insufficient Information. The shellfish growing areas (0.1721 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Ryder Cove.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Ryder Cove (MA96-50): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1721 sq mi (93%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Ryder Pond (MA96268)

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

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

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Dissolved Oxygen	Source Unknown (N)	X	--	--	--	--
Mercury in Fish Tissue	Atmospheric Deposition (Y)	--	X	--	--	--
Mercury in Fish Tissue	Source Unknown (N)	--	X	--	--	--
Phosphorus, Total	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 Ryder Pond (MA96268) continues to be assessed as Not Supporting and the prior Mercury in Fish Tissue impairment is being carried forward. MDPH included a site-specific advisory for Ryder Pond in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent MDPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Ryder Pond (MA96268) 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 Ryder Pond (MA96268) 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 Ryder Pond (MA96268) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Sagelot Pond (MA96-119)

Location:	west of Great Oak Road, Mashpee (segment includes tidal channels to Waquoit Bay).
AU Type:	ESTUARY
AU Size:	0.06 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO (also tributary to SA B Shellfishing ORW)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Nutrient/Eutrophication Biological Indicators	R1_MA_2020_08	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nutrient/Eutrophication Biological Indicators	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Sagelot Pond (MA96-119) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
Sagelot Pond (MA96-119): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0506 sq mi (91%). The approved shellfish growing area represents 0.0506 sq mi (91%). The Shellfish Harvesting Use is assessed as Fully Supporting because the growing area (normalized to the AU area) is classified as 100% approved.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC15.0	Waquoit Bay	Approved	0.05058	90.9%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Sagelot Pond (MA96-119) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Sagelot Pond (MA96-119) is assessed as Fully Supporting. The shellfish growing areas (0.0506 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Primary Contact Recreation Use of Sagelot Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Sagelot Pond (MA96-119): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0506 sq mi (91%). The approved shellfish growing area represents 0.0506 sq mi (91%). The Primary Contact Recreational Use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Sagelot Pond (MA96-119) is assessed as Fully Supporting. The shellfish growing areas (0.0506 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Secondary Contact Recreation Use of Sagelot Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Sagelot Pond (MA96-119): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0506 sq mi (91%). The approved shellfish growing area represents 0.0506 sq mi (91%). The Secondary Contact Recreational use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Santuit Pond (MA96277)

Location:	Mashpee.
AU Type:	FRESHWATER LAKE
AU Size:	164 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Fish Passage Barrier*)	--	Unchanged
5	5	Abnormal Fish Deformities, Erosions, Lesions, Tumors (DELTS)	--	Unchanged
5	5	Chlorophyll-a	--	Unchanged
5	5	Harmful Algal Blooms	--	Unchanged
5	5	Nutrient/Eutrophication Biological Indicators	--	Unchanged
5	5	pH, High	--	Unchanged
5	5	Phosphorus, Total	--	Unchanged
5	5	Transparency / Clarity	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--
Abnormal Fish Deformities, Erosions, Lesions, Tumors (DELTS)	Source Unknown (N)	X	--	--	--	--
Chlorophyll-a	Internal Nutrient Recycling (Y)	X	--	--	--	--
Chlorophyll-a	Source Unknown (N)	X	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Harmful Algal Blooms	Internal Nutrient Recycling (Y)	X	--	X	X	X
Harmful Algal Blooms	Source Unknown (N)	X	--	X	X	X
Nutrient/Eutrophication Biological Indicators	Internal Nutrient Recycling (Y)	X	--	--	--	--
pH, High	Source Unknown (N)	X	--	--	--	--
Phosphorus, Total	Internal Nutrient Recycling (Y)	X	--	--	--	--
Phosphorus, Total	Source Unknown (N)	X	--	--	--	--
Transparency / Clarity	Internal Nutrient Recycling (Y)	--	--	--	X	--
Transparency / Clarity	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 Santuit Pond (MA96277) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for Santuit Pond (MA96277) continues to be assessed as Not Supporting with the Harmful Algal Blooms impairment carried forward since extended blooms were reported in a recent year(s). Since the prior Transparency/Clarity impairment was redundantly duplicated across multiple uses for this waterbody, the Transparency/Clarity impairment is being removed from the Aesthetics Use but will continue to be maintained under the the Primary Contact Recreation Use. Since the Total Phosphorus and Chlorophyll-a impairments were redundantly duplicated across multiple uses for this waterbody, both of these impairments are being removed from the Aesthetics Use, but will continue to be maintained under the Aquatic Life Use. During the period 2015 through 2022, C-HAB postings for Santuit Pond were reported to MDPH for 128 days in 2017 (visual observations), 135 days in 2019 (visual observations), 154 days in 2020 (cell count), 169 days in 2021 (visual observations), and 54 days in 2022 (visual observations). No blooms were reported in other years. Since extended blooms (>20 days in duration) based on cell count data were reported in recent years, this is reflective of the existing Harmful Algal Blooms impairment for Santuit Pond.

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

C-HAB Summary Statement
During the period 2015 through 2022, C-HAB postings for Santuit Pond (MA96277) were reported to MDPH for 128 days in 2017 (visual observations), 135 days in 2019 (visual observations), 154 days in 2020 (cell count), 169 days in 2021 (visual observations), and 54 days in 2022 (visual observations). No blooms were reported in other years. Since extended blooms (>20 days in duration) based on cell count data were reported in recent years, the Aesthetics Use and Primary/Secondary Contact Recreational Uses continue to be assessed as Not Supporting.

Cyanobacteria Harmful Algal Bloom (C-HAB) Data (2015-2022) Provided by MDPH (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

[* indicates a C-HAB posting of unknown duration]

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
Santuit Pond	Mashpee			128		135	154	169	54

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Santuit Pond (MA96277) continues to be assessed as Not Supporting, with the prior Harmful Algal Blooms impairment being carried forward since extended blooms were reported in a recent year(s). The prior Transparency / Clarity impairment is being carried forward and since the Chlorophyll-a and Total Phosphorus impairments are being removed from the Aesthetics Use this cycle, these impairments are also being removed from the Primary Contact Recreation Use. During the period 2015 through 2022, C-HAB postings for Santuit Pond, Mashpee were reported to MDPH for 128 days in 2017 (visual observations), 135 days in 2019 (visual observations), 154 days in 2020 (cell count), 169 days in 2021 (visual observations), and 54 days in 2022 (visual observations). No blooms were reported in other years. Since extended blooms (>20 days in duration) based on cell count data were reported in recent years, this C-HAB data continues to be indicative of a Harmful Algal Bloom impairment. USGS collected cyanotoxins data at station USGS-413913070273101 in 2020 (n=1); analysis of cylindrospermopsin samples from this station indicated that the concentrations did not exceed the threshold of 15 µg/L. MDPH contractors conducted surface water sampling at Santuit Pond in May 2021 as part of a pilot study assessing 40 PFAS analytes in surface water and fish tissue samples collected from waterbodies on Cape Cod. In this study, MDPH evaluated four PFAS compounds (PFHxS, PFNA, PFOA, PFOS) individually against a candidate Surface Water Action Level (cSWAL) of 23 ng/L (ppt). All four compounds had concentrations less than the cSWAL, with the maximum being 1.46 ng/L of PFOA.

Other Indicators

Summary Statement for 2011-2022 Cyanobacteria Cell Count and Cyanotoxin Data, and Secchi Depth Data (NWQMC 2025) (MassDEP Undated 3)

Data Year(s)	Summary
2020	In 2020 at Santuit Pond (MA96277), USGS collected cyanotoxin data at USGS-413913070273101 [41.65372, -70.458082, SANTUIT POND, MASHPEE]. Analysis of a cylindrospermopsin sample from USGS-413913070273101 (n=1) indicated that the concentration did not exceed the threshold of 15 µg/L.

Summary of MDPH 2021 and 2022 PFAS in Water Column Data

Data Sources: (Nascarella 2021, MA DPH 2021)

MDPH contractors conducted surface water sampling at Santuit Pond (MA96277) in Mashpee in May 2021 as part of a pilot study assessing 40 PFAS analytes in surface water and fish tissue samples collected from waterbodies on Cape Cod. In this study, MDPH evaluated four PFAS compounds (PFHxS, PFNA, PFOA, PFOS) individually against a candidate Surface Water Action Level (cSWAL) of 23 ng/L (ppt). All four compounds had concentrations less than the cSWAL, with the maximum being 1.46 ng/L of PFOA.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Santuit Pond (MA96277) continues to be assessed as Not Supporting, with the prior Harmful Algal Blooms impairment being carried forward since extended blooms were reported in a recent year(s). Since the Chlorophyll-a, Total Phosphorus, and Transparency / Clarity impairments are being removed from the Aesthetics Use this cycle, these impairments are also being removed from the Secondary Contact Recreation Use. During the period 2015 through 2022, C-HAB postings for Santuit Pond in Mashpee were reported to MDPH for 128 days in 2017 (visual observations), 135 days in 2019 (visual observations), 154 days in 2020 (cell count), 169 days in 2021 (visual observations), and 54 days in 2022 (visual observations). No blooms were reported in other years. Since extended blooms (>20 days in duration) based on cell count data were reported in recent years, the C-HAB data continues to be indicative of a Harmful Algal Bloom impairment. USGS collected cyanotoxins data at station USGS-413913070273101 in 2020 (n=1); analysis of cylindrospermopsin samples from this station indicated that the concentrations did not exceed the threshold of 15 µg/L. MassDEP staff collected *E. coli* bacteria samples in Santuit Pond at W1983 [public boat launch on northwestern shore, East off Timberlane Drive, Mashpee] from May-Oct 2009 (n=6). Analysis of the historic single year limited frequency dataset from this station indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 28 CFU/100ml. Historic *E. coli* data from station W1983 meet 2024 CALM guidance, however 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
W1983	MassDEP	Water Quality	Santuit Pond	[public boat launch on northwestern shore, east off Timberlane Drive, Mashpee]	41.657083	-70.463350

Bacteria Data

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

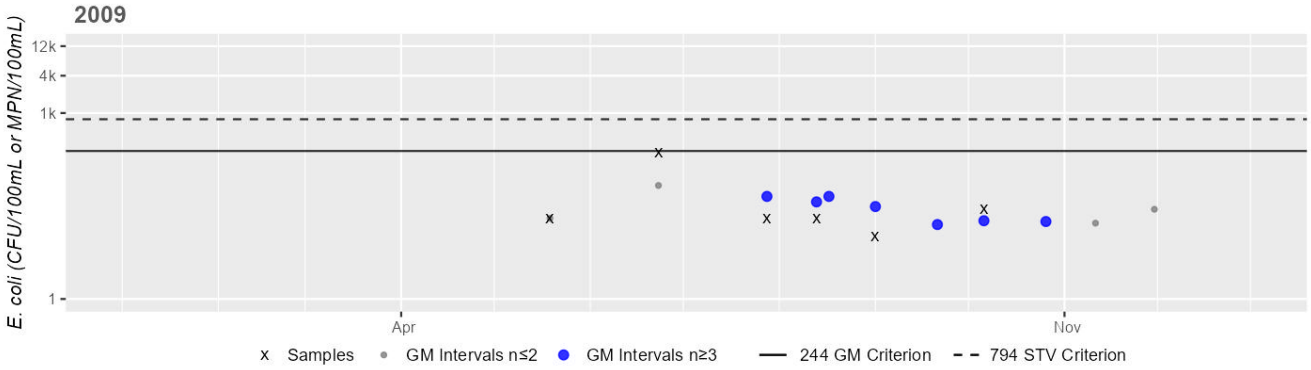
(MassDEP Undated 9) (MassDEP Undated 4)

[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
W1983	MassDEP	E. coli	05/19/09	10/06/09	6	10	230	28

Station MASSDEP_W1983 - Escherichia coli

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



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

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

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

Santuit River (MA96-91)

Location:	Headwaters, outlet Santuit Pond, Mashpee to confluence with tidal portion south of Old Mill Road/Old Kings Road, Mashpee/Barnstable.
AU Type:	RIVER
AU Size:	1.6 MILES
Classification/Qualifier:	B

Santuit River (MA96-91)

Watershed Area: 2.54 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	2.54	2.53	1.02	1.02
Agriculture	1.4%	1.4%	3.3%	3.3%
Developed	25.9%	25.9%	12%	12%
Natural	63.9%	63.8%	67.9%	67.9%
Wetland	8.8%	8.8%	16.9%	16.9%
Impervious	12.7%	12.7%	6.1%	6.1%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Fish Passage Barrier*)	--	Unchanged
5	5	Temperature	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--
Temperature	Agricultural Water Diversion (Y)	X	--	--	--	--
Temperature	Cranberry Production (Y)	X	--	--	--	--
Temperature	Dam or Impoundment (Y)	X	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Santuit River (MA96-91) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Santuit River (MA96-91) continues to be assessed as Fully Supporting based on the general lack of objectionable conditions noted by MassDEP staff during the summer of 2013. MassDEP staff recorded aesthetics observations as part of the MAP2 wadeable streams monitoring project in summer 2013, close to the upstream end of this Santuit River AU, east of Route 130, ~1400 feet downstream/south of the outlet of Santuit Pond, Mashpee (W2391, n=8). 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
W2391	MassDEP	Water Quality	Santuit River	[east of Route 130, approximately 1400 feet downstream/south of the outlet of Santuit Pond, Mashpee]	41.643578	-70.453369

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2391	2013	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2391 on Santuit River (MA96-91) during 8 site visits between May 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted objectionable deposits (n=2).

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2391	2013	8	6	1

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2391	Santuit River	2013	Aesthetics Impaired?	No	7	8
W2391	Santuit River	2013	Aesthetics Impaired?	NR	1	8
W2391	Santuit River	2013	Aquatic Plant Density, Overall	None	5	8
W2391	Santuit River	2013	Aquatic Plant Density, Overall	Sparse	1	8
W2391	Santuit River	2013	Aquatic Plant Density, Overall	Unobservable	2	8
W2391	Santuit River	2013	Color	Brownish	1	8
W2391	Santuit River	2013	Color	Light Yellow/Tan	4	8
W2391	Santuit River	2013	Color	None	3	8
W2391	Santuit River	2013	Objectionable Deposits	No	6	8
W2391	Santuit River	2013	Objectionable Deposits	Yes	2	8
W2391	Santuit River	2013	Odor	Musty (Basement)	2	8
W2391	Santuit River	2013	Odor	None	5	8
W2391	Santuit River	2013	Odor	Rotting Vegetables	1	8
W2391	Santuit River	2013	Periphyton Density, Filamentous	None	4	8
W2391	Santuit River	2013	Periphyton Density, Filamentous	Sparse	1	8
W2391	Santuit River	2013	Periphyton Density, Filamentous	Unobservable	2	8
W2391	Santuit River	2013	Periphyton Density, Filamentous	Very Dense	1	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2391	Santuit River	2013	Periphyton Density, Film	None	5	8
W2391	Santuit River	2013	Periphyton Density, Film	Sparse	1	8
W2391	Santuit River	2013	Periphyton Density, Film	Unobservable	2	8
W2391	Santuit River	2013	Scum	No	6	8
W2391	Santuit River	2013	Scum	Yes	2	8
W2391	Santuit River	2013	Turbidity	Moderately Turbid	1	8
W2391	Santuit River	2013	Turbidity	None	3	8
W2391	Santuit River	2013	Turbidity	Slightly Turbid	4	8

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for the Santuit River (MA96-91) continues to be assessed as Fully Supporting based on bacteria samples collected at one station in 2013. USGS collected cyanotoxins data about halfway down the AU at station USGS-01105883391 [150 ft South of Rt 28] in 2020 and close to the downstream end of the AU at station USGS-0110588340 [Old Kings Rd] also in 2020. Analysis of cylindrospermopsin samples from both these stations (n=2) indicated that the concentrations did not exceed the threshold of 15 µg/L. MassDEP staff collected *E. coli* bacteria samples close to the upstream end of the Santuit River at station W2391 [East of Rt. 130, ~1400 ft downstream/South of the outlet of Santuit Pond, Mashpee] from May-Sep 2013 (n=5). Analysis of the single year limited frequency dataset from this station indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 29 CFU/100ml, which meets 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2391	MassDEP	Water Quality	Santuit River	[east of Route 130, approximately 1400 feet downstream/south of the outlet of Santuit Pond, Mashpee]	41.643578	-70.453369

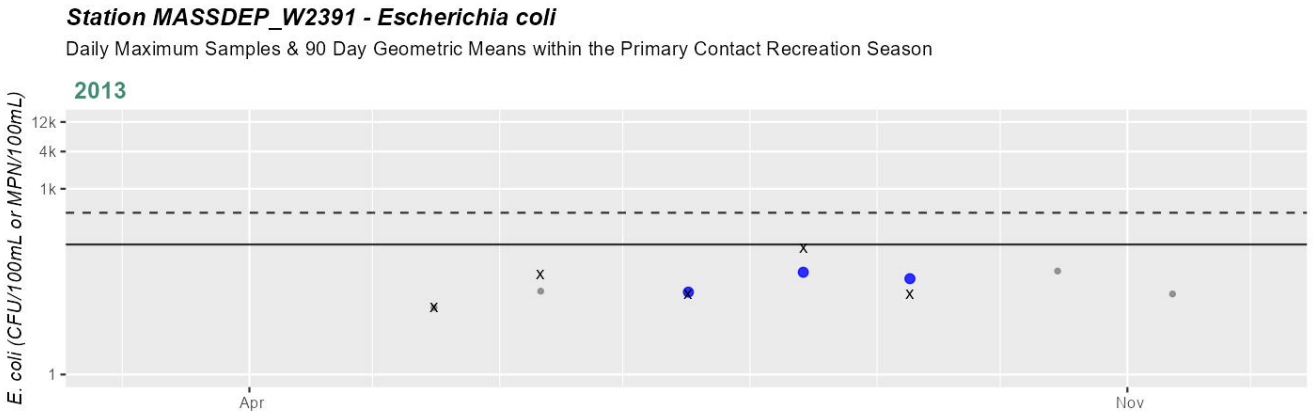
Bacteria Data

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

(MassDEP Undated 9) (MassDEP Undated 5)

[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
W2391	MassDEP	E. coli	05/16/13	09/09/13	5	12	110	29



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

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

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

Other Indicators

Summary Statement for 2011-2022 Cyanobacteria Cell Count and Cyanotoxin Data, and Secchi Depth Data (NWQMC 2025) (MassDEP Undated 3)

Data Year(s)	Summary
2020	In 2020 at this Santuit River AU (MA96-91), USGS collected cyanotoxin data at 2 stations, USGS-01105883391 [41.636856, -70.452494, SANTUIT RIVER, 150FT S. OF RT 28, AT SANTUIT] and USGS-0110588340 [41.62761, -70.450582, SANTUIT RIVER AT OLD KINGS ROAD AT SANTUIT, MA]. Analysis of cylindrospermopsin samples from USGS-01105883391 and USGS-0110588340 (n=2) indicated that the concentrations did not exceed the threshold of 15 µg/L.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for the Santuit River (MA96-91) continues to be assessed as Fully Supporting based on a re-evaluation of bacteria samples collected at one station in 2013. USGS collected cyanotoxins data about halfway down the AU at station USGS-01105883391 [150 ft South of Rt 28] in 2020 and close to the downstream end of the AU at station USGS-0110588340 [Old Kings Rd] also in 2020. Analysis of cylindrospermopsin samples from both these stations (n=2) indicated that the concentrations did not exceed the threshold of 15 µg/L. MassDEP staff collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in the Santuit River from 2009-2013 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: close to the upstream end of the AU at station W2391 [East of Rt. 130, ~1400 ft downstream/South of the outlet of Santuit Pond, Mashpee] from May-Sep 2013 (n=5) and close to the downstream end of the AU at station W1912 [Old Mill Rd/Old Kings Rd, Mashpee/Barnstable] from May-Oct 2009 (n=6). Since bacteria data from the historic IR window are indicative of good water quality conditions, only the analysis from the current IR window will be summarized here. Analysis of the single year limited frequency *E. coli* dataset from W2391 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 29 CFU/100ml, which meets 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1912	MassDEP	Water Quality	Santuit River	[Old Mill Road/Old Kings Road, Mashpee/Barnstable]	41.627876	-70.450793
W2391	MassDEP	Water Quality	Santuit River	[east of Route 130, approximately 1400 feet downstream/south of the outlet of Santuit Pond, Mashpee]	41.643578	-70.453369

Bacteria Data

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

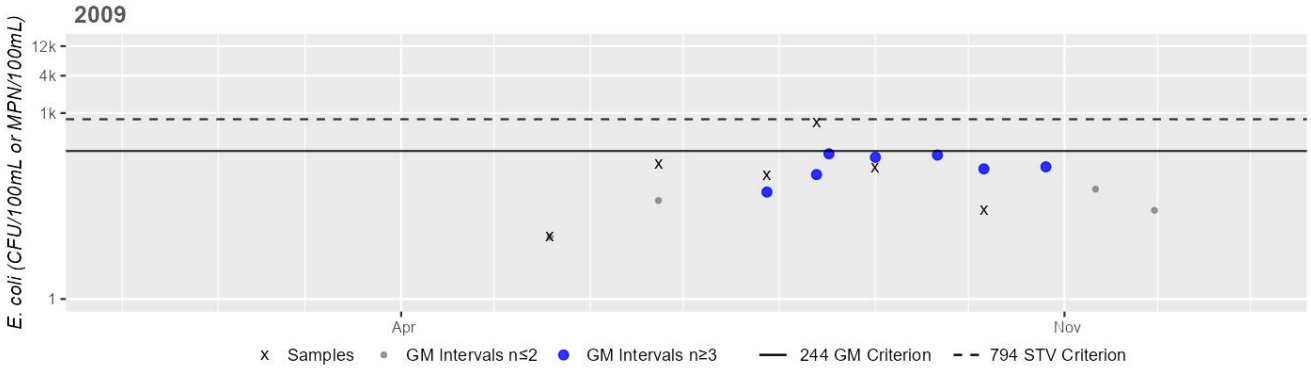
(MassDEP Undated 9) (MassDEP Undated 4)

[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
W1912	MassDEP	E. coli	05/19/09	10/06/09	6	10	710	84
W2391	MassDEP	E. coli	05/16/13	09/09/13	5	12	110	29

Station MASSDEP_W1912 - Escherichia coli

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



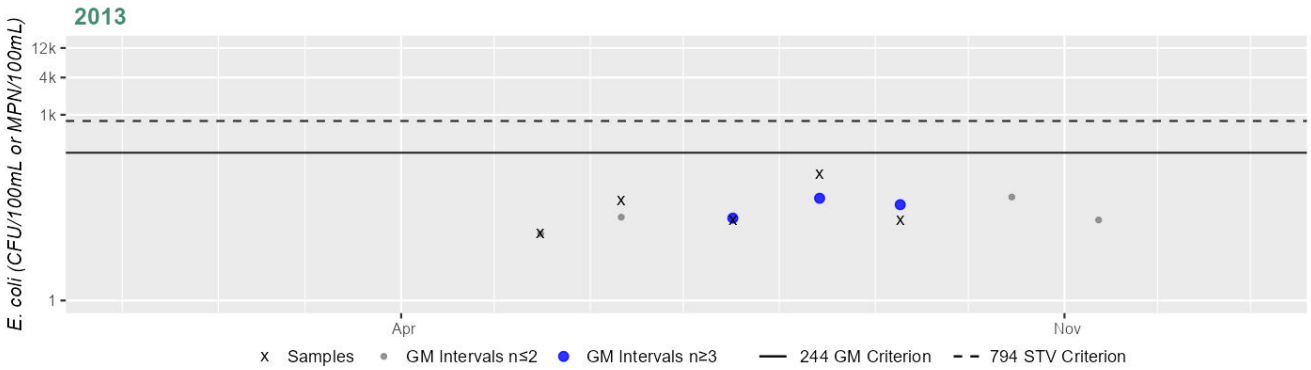
Variable*	Result
Samples	6
SeasGM	84
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Station MASSDEP_W2391 - 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
Current (2011-2022)
0%

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

Santuit River (MA96-92)

Location:	From confluence with fresh water portion south of Old Mill Road, Mashpee to mouth at inlet Shoestring Bay, Mashpee/Barnstable.
AU Type:	ESTUARY
AU Size:	0.01 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	42360	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Santuit River (MA96-92) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
There is insufficient information available to delist the existing Fecal Coliform impairment so the Shellfish Harvesting Use for Santuit River (MA96-92) is evaluated as Not Supporting. The total of all shellfish growing area classifications (MassGIS, 2024) within Santuit River is 0.0062 sq mi (77%). The approved shellfish growing area represents 0 sq mi (0%) and the prohibited shellfish growing area represents 0.0062 sq mi (77%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as entirely prohibited.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC20.2	Shoestring Bay North	Prohibited	0.00625	76.8%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Santuit River (MA96-92) 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 the Santuit River (MA96-92) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0062 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Santuit River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Santuit River (MA96-92): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0062 sq mi (77%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
No bacteria data are available to assess the Secondary Contact Recreation Use for the Santuit River (MA96-92) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0062 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Santuit River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Santuit River (MA96-92): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0062 sq mi (77%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Saquatucket Harbor (MA96-23)

Location:	South of Route 28, Harwich outlet to Nantucket Sound, Harwich.
AU Type:	ESTUARY
AU Size:	0.02 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	36772	Unchanged
4a	4a	Nitrogen, Total	65884	Unchanged
4a	4a	Nutrient/Eutrophication Biological Indicators	65884	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--
Nitrogen, Total	Agriculture (Y)	X	--	--	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	Golf Courses (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Agriculture (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Golf Courses (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Saquatucket Harbor (MA96-23) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

Saquatucket Harbor (MA96-23): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0212 sq mi (89%). The approved shellfish growing area represents 0.0002 sq mi (1%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC37.0	Harwich South Coastal	Approved	0.00019	0.8%
SC41.1	Saquatucket Harbor	Conditionally Approved	0.01284	53.6%
SC41.2	Saquatucket Municipal Marina	Prohibited	0.00821	34.3%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Saquatucket Harbor (MA96-23) 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 Saquatucket Harbor (MA96-23) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0212 sq mi) in this AU are less than 100% approved (0.0002 sq mi, 1%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Saquatucket Harbor.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Saquatucket Harbor (MA96-23): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0212 sq mi (89%). The approved shellfish growing area represents 0.0002 sq mi (1%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Saquatucket Harbor (MA96-23) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0212 sq mi) in this AU are less than 100% approved (0.0002 sq mi, 1%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Saquatucket Harbor.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Saquatucket Harbor (MA96-23): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0212 sq mi (89%). The approved shellfish growing area represents 0.0002 sq mi (1%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Scargo Lake (MA96279)

Location:	Dennis.
AU Type:	FRESHWATER LAKE
AU Size:	54 ACRES
Classification/Qualifier:	B

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

Recommendations

2024/26 Recommendations
2024/26IR [Harmful Algal Blooms, Low] Follow-up monitoring should be conducted in Scargo Lake (MA96279) to determine if Harmful Algal Blooms may be impairing the Recreational and Aesthetic uses. C-HAB postings were reported to MDPH based on visual observations for 8 days in 2021 and 15 days in 2022. Monitoring should include observational data and collection of cyanobacteria cell count data, as well as continued reporting of algal blooms to MDPH. This is of low priority;

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 Scargo Lake (MA96279) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Insufficient Information	YES

2024/26 Use Attainment Summary
Too limited data are available to assess the Aesthetics Use for Scargo Lake (MA96279) so it is assessed as having Insufficient Information. However, an Alert is being identified for Harmful Algal Blooms in this waterbody since C-HAB postings (a bloom of 15 days duration) was reported to MDPH for 2022. During the period 2015 through 2022, C-HAB postings for Scargo Lake were reported to MDPH based on visual observations for 8 days in 2021 and 15 days in 2022 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 in this waterbody and a recommendation for follow-up sampling will be made.

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

C-HAB Summary Statement
During the period 2015 through 2022, C-HAB postings for Scargo Lake (MA96279) were reported to MDPH based on visual observations for 8 days in 2021 and 15 days in 2022. 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 2)

[* indicates a C-HAB posting of unknown duration]

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
Scargo Lake	Dennis							8	15

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 Scargo Lake (MA96279) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information. However, an Alert is being identified for Harmful Algal Blooms in this waterbody since C-HAB postings (a bloom of 15 days duration) was reported to MDPH for 2022. During the period 2015 through 2022, C-HAB postings for Scargo Lake were reported to MDPH based on visual observations for 8 days in 2021 and 15 days in 2022. 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 Scargo Lake (MA96279) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information. However, an Alert is being identified for Harmful Algal Blooms in this waterbody since C-HAB postings (a bloom of 15 days duration) was reported to MDPH for 2022. During the period 2015 through 2022, C-HAB postings for Scargo Lake were reported to MDPH based on visual observations for 8 days in 2021 and 15 days in 2022. 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.

Schoolhouse Pond (MA96281)

Location:	Chatham.
AU Type:	FRESHWATER LAKE
AU Size:	20 ACRES
Classification/Qualifier:	B

No usable data were available for Schoolhouse Pond (MA96281) 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

Scorton Creek (MA96-30)

Location:	Jones Lane, Sandwich to mouth at inlet Cape Cod Bay, Sandwich (includes Scorton Harbor).
AU Type:	ESTUARY
AU Size:	0.03 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	36771	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Scorton Creek (MA96-30) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
There is insufficient information available to delist the existing Fecal Coliform impairment so the Shellfish Harvesting Use for Scorton Creek (MA96-30) will continue to be assessed as Not Supporting. The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0267 sq mi (79%). The approved shellfish growing area represents 0 sq mi (0%) and the prohibited shellfish growing area represents 0.0267 sq mi (79%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as entirely prohibited.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
CCB35.3	Scorton Harbor Approach	Prohibited	0.00009	0.3%
CCB36.0	Scorton Harbor	Prohibited	0.02661	78.4%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Scorton Creek (MA96-30) 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 Scorton Creek (MA96-30) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0267 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Scorton Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Scorton Creek (MA96-30): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0267 sq mi (79%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Scorton Creek (MA96-30) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0267 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Scorton Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Scorton Creek (MA96-30): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0267 sq mi (79%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Seapit River (MA96-122)

Location:	From confluence of Childs River and Eel Pond, Falmouth to inlet Waquoit Bay , Falmouth.
AU Type:	ESTUARY
AU Size:	0.05 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO (Tributary)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	5	Fecal Coliform	--	Added

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	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 Seapit River (MA96-122) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Seapit River (MA96-122): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0484 sq mi (94%). The approved shellfish growing area represents 0.0374 sq mi (73%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. As a result of the growing area classifications, a Fecal Coliform impairment is being added.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC14.7	Mouth of Child's River	Conditionally Approved	0.01063	20.7%
SC15.0	Waquoit Bay	Approved	0.03741	72.8%
SC14.6	Edgewater Drive East Mooring Area	Conditionally Approved	0.00031	0.6%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Seapit River (MA96-122) 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 the Seapit River (MA96-122) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0484 sq mi) in this AU are less than 100% approved (0.0374 sq mi, 73%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Seapit River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Seapit River (MA96-122): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0484 sq mi (94%). The approved shellfish growing area represents 0.0374 sq mi (73%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
No bacteria data are available to assess the Secondary Contact Recreation Use for the Seapit River (MA96-122) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0484 sq mi) in this AU are less than 100% approved (0.0374 sq mi, 73%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Seapit River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Seapit River (MA96-122): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0484 sq mi (94%). The approved shellfish growing area represents 0.0374 sq mi (73%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Seapuit River (MA96-64)

Location:	south of Osterville Grand Island, Barnstable to Cotuit Bay and West Bay, Barnstable.
AU Type:	ESTUARY
AU Size:	0.06 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	36583	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Marina/Boating Pumpout Releases (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Seapuit River (MA96-64) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Seapuit River (MA96-64): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0542 sq mi (86%). The approved shellfish growing area represents 0.0481 sq mi (77%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC21.2	Seapuit River	Conditionally Approved	0.00605	9.7%
SC21.7	Seapuit River	Approved	0.04762	76.0%
SC22.0	West Bay	Approved	0.00049	0.8%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Seapuit River (MA96-64) 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 the Seapuit River (MA96-64) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0542 sq mi) in this AU are less than 100% approved (0.0481 sq mi, 77%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Seapuit River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Seapuit River (MA96-64): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0542 sq mi (86%). The approved shellfish growing area represents 0.0481 sq mi (77%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
No bacteria data are available to assess the Secondary Contact Recreation Use for the Seapuit River (MA96-64) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0542 sq mi) in this AU are less than 100% approved (0.0481 sq mi, 77%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Seapuit River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Seapuit River (MA96-64): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0542 sq mi (86%). The approved shellfish growing area represents 0.0481 sq mi (77%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Seine Pond (MA96-110)

Location:	east of Winslow Gray Road, Yarmouth.
AU Type:	ESTUARY
AU Size:	0.13 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	5	Fecal Coliform	--	Added
4a	5	Nitrogen, Total	68362	Unchanged
4a	5	Nutrient/Eutrophication Biological Indicators	68362	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	Municipal Point Source Discharges (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nutrient/Eutrophication Biological Indicators	Municipal Point Source Discharges (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Seine Pond (MA96-110) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Seine Pond (MA96-110): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1286 sq mi (97%). The approved shellfish growing area represents 0 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. As a result of the growing area classifications, a Fecal Coliform impairment is being added.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC30.2	Seine Pond	Prohibited	0.01673	12.6%
SC30.3	Parkers River	Conditionally Approved	0.11185	84.2%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Seine Pond (MA96-110) 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 Seine Pond (MA96-110) so it is assessed as having Insufficient Information. The shellfish growing areas (0.1286 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Seine Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Seine Pond (MA96-110): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1286 sq mi (97%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Seine Pond (MA96-110) so it is assessed as having Insufficient Information. The shellfish growing areas (0.1286 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Seine Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Seine Pond (MA96-110): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1286 sq mi (97%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Sesuit Creek (MA96-13)

Location:	From Route 6A, Dennis to mouth at inlet Sesuit Harbor, Cape Cod Bay, Dennis.
AU Type:	ESTUARY
AU Size:	0.01 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	36771	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	Marina/Boating Pumpout Releases (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Sesuit Creek (MA96-13) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Sesuit Creek (MA96-13): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0095 sq mi (72%). The approved shellfish growing area represents 0 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
CCB25.0	Sesuit Harbor	Conditionally Approved	0.00950	72.3%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Sesuit Creek (MA96-13) 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 Sesuit Creek (MA96-13) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0095 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Sesuit Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Sesuit Creek (MA96-13): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0095 sq mi (72%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Sesuit Creek (MA96-13) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0095 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Sesuit Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Sesuit Creek (MA96-13): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0095 sq mi (72%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Sesuit Creek (MA96-130)

Location:	Headwaters outlet Scargo Lake, Dennis to salt water portion, Route 6A, Dennis.
AU Type:	RIVER
AU Size:	0.4 MILES
Classification/Qualifier:	B

No usable data were available for Sesuit Creek (MA96-130) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Habitat Modification - other than Hydromodification (Y)	X	--	--	--	--

Shallow Pond (MA96285)

Location:	Barnstable.
AU Type:	FRESHWATER LAKE
AU Size:	76 ACRES
Classification/Qualifier:	B

No usable data were available for Shallow Pond (MA96285) 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

Shawme Lake Lower (MA96288)

Location:	Sandwich.
AU Type:	FRESHWATER LAKE
AU Size:	25 ACRES
Classification/Qualifier:	B

No usable data were available for Shawme Lake Lower (MA96288) 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	Nutrient/Eutrophication Biological Indicators	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Nutrient/Eutrophication Biological Indicators	Source Unknown (N)	--	--	X	X	X

Sheep Pond (MA96289)

Location:	Brewster.
AU Type:	FRESHWATER LAKE
AU Size:	139 ACRES
Classification/Qualifier:	B

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

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	No

2024/26 Use Attainment Summary
The Fish Consumption Use for Sheep Pond (MA96289) continues to be assessed as Not Supporting and the prior Mercury in Fish Tissue impairment is being carried forward. MDPH included a site-specific advisory for Sheep Pond in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent MDPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations.

Aesthetic

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
Too limited data are available to assess the Aesthetics Use for Sheep Pond (MA96289), so it is assessed as having Insufficient Information. During the period 2015 through 2022, C-HAB postings for Sheep Pond were reported to MDPH based on visual observations for 14 days in 2022 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.

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

C-HAB Summary Statement
During the period 2015 through 2022, C-HAB postings for Sheep Pond (MA96289) were reported to MDPH based on visual observations for 14 days in 2022. 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.

Cyanobacteria Harmful Algal Bloom (C-HAB) Data (2015-2022) Provided by MDPH (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

[* indicates a C-HAB posting of unknown duration]

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
Sheep Pond	Brewster								14

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 Sheep Pond (MA96289) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information. During the period 2015 through 2022, C-HAB postings for Sheep Pond were reported to MDPH based on visual observations for 14 days in 2022. 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.

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 Sheep Pond (MA96289) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information. During the period 2015 through 2022, C-HAB postings for Sheep Pond were reported to MDPH based on visual observations for 14 days in 2022. 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.

Shoestring Bay (MA96-08)

Location:	Quinaquisset Avenue, Mashpee/Barnstable to Popponesset Bay (line from Ryefield Point, Barnstable to Punkhorn Point, Mashpee, including Gooseberry Island), Barnstable/Mashpee.
AU Type:	ESTUARY
AU Size:	0.31 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Estuarine Bioassessments	33966	Unchanged
4a	4a	Fecal Coliform	36771	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Agriculture (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Animal Shows and Racetracks (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Golf Courses (Y)	X	--	--	--	--	--
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	Marina/Boating Pumpout Releases (Y)	--	--	X	--	--	--
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Recommendations

2024/26 Recommendations
2024/26IR [Bacteria, Low] Conduct additional bacteria sampling/analysis on Shoestring Bay (MA96-08) to better evaluate the extent of the impairment for Enterococcus. An Alert for Enterococcus was identified since Mashpee Neck Road (Town Landing) beach was posted for >10% of the swimming season in 2021 (33%). This is of low priority.

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 Shoestring Bay (MA96-08) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert

Not Supporting	NO

2024/26 Use Attainment Summary
Shoestring Bay (MA96-08): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.3098 sq mi (99%). The approved shellfish growing area represents 0.001 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC19.0	Popponesset Bay	Approved	0.00102	0.3%
SC20.2	Shoestring Bay North	Prohibited	0.14313	45.7%
SC20.3	Shoestring Bay	Conditionally Approved	0.16567	52.9%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Shoestring Bay (MA96-08) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	YES

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Shoestring Bay (MA96-08) continues to be assessed as Fully Supporting based on MDPH Beach Closure data. MDPH Beach Closure data for Mashpee Neck Road (Town Landing) beach in Mashpee [Beach ID: 2958], indicated that this beach was rarely, if at all, posted for swimming from 2018-2022. However, an Alert for Enterococcus is being identified since Mashpee Neck Road (Town Landing) was posted for >10% of the swimming season in 2021 (33%). The shellfish growing areas (0.3098 sq mi) in this AU are less than 100% approved (0.001 sq mi, 0%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Shoestring Bay.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
2958	Mashpee Neck Road (Town Landing)/ Mashpee	41.60048, -70.46580	41.60017, -70.46640	0%	0%	0%	0%	0%	0%	0%	33%	0%	1

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Shoestring Bay (MA96-08): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.3098 sq mi (99%). The approved shellfish growing area represents 0.001 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Shoestring Bay (MA96-08) continues to be assessed as Fully Supporting based on MDPH Beach Closure data. MDPH Beach Closure data for Mashpee Neck Road (Town Landing) beach in Mashpee [Beach ID: 2958] indicated that this beach was rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (0.3098 sq mi) in this AU are less than 100% approved (0.001 sq mi, 0%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Shoestring Bay.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Shoestring Bay (MA96-08): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.3098 sq mi (99%). The approved shellfish growing area represents 0.001 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Shubael Pond (MA96293)

Location:	Barnstable.
AU Type:	FRESHWATER LAKE
AU Size:	55 ACRES
Classification/Qualifier:	B

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

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

Recommendations

2024/26 Recommendations
2024/26IR [Harmful Algal Blooms, Medium] Follow-up monitoring should be conducted in Shubael Pond (MA96293) to determine if Harmful Algal Blooms may be impairing the Recreational and Aesthetic uses. C-HAB postings were reported to MDPH based on visual observations for 77 days in 2019 and 52 days in 2020. Monitoring should include observational data and collection of cyanobacteria cell count data, as well as continued reporting of algal blooms to MDPH. This is of medium priority;

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	No

2024/26 Use Attainment Summary
The Fish Consumption Use for Shubael Pond (MA96293) is assessed as Not Supporting with a new impairment being added for Mercury in Fish Tissue. Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in Shubael Pond at station F0292 in 2018 as part of the probabilistic lake surveys (MAP2). MDPH issued a site-specific advisory for Mercury in Shubael Pond in their July 2019 Freshwater Fish Consumption Advisory List and retained it in the January 2025 list. The public should refer to the most recent MDPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations. The likely source of Mercury, although not confirmed, is atmospheric deposition.

Fish Consumption Advisories

Summary of Fish Toxics Sampling and Resulting Fish Consumption Advisories (MA DPH 2025) (MassDEP Undated 7)

Summary Statement
Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in Shubael Pond (MA96293) at station F0292 in 2018 as part of the probabilistic lake surveys (MAP2). Because of elevated Mercury measured in fish filets, MDPH issued site-specific fish consumption advisories for Shubael Pond in their July 2019 Freshwater Fish Consumption Advisory List and retained them in the January 2025 list. The site-specific MDPH advisories are indicative of a Fish Consumption Use impairment for Mercury in Fish Tissue for Shubael Pond (MA96293).

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	YES

2024/26 Use Attainment Summary

The Aesthetics Use for Shubael Pond (MA96293) is assessed as Fully Supporting based on the general lack of objectionable conditions noted by MassDEP staff during the summer of 2018. An Alert is being identified for Harmful Algal Blooms in this waterbody since C-HAB postings (blooms of >15 days in duration) were reported to MDPH for 2019 and 2020. MassDEP staff recorded aesthetics observations as part of the MAP2 lake monitoring project in summer 2018 at two stations in Barnstable for this Shubael Pond AU; at the northwestern edge of pond off Willimantic Drive (W2809/MAP2L-258S, n=5) and at the deep hole index site (W2808/MAP2L-258, 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 Jul 2018 (n=1), less than 25% (0.3%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%. During the period 2015 through 2022, C-HAB postings for Shubael Pond were reported to MDPH based on visual observations for 77 days in 2019 and 52 days in 2020. 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 in this waterbody and a recommendation for follow-up sampling will be made.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2808	MassDEP	Water Quality	Shubael Pond	[index site, Barnstable]	41.671039	-70.393715
W2809	MassDEP	Water Quality	Shubael Pond	[northwestern edge of pond off Willimantic Drive, Barnstable]	41.674226	-70.394929

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2808	2018	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2808 (MAP2L-258) on Shubael Pond (MA96293) during 3 site visits between Jul 2018 and Sep 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. During the MAP2 macrophyte mapping survey (n=1) in Jul 2018, less than 25% (0.3%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%.

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2809	2018	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2809 (MAP2L-258S) on Shubael Pond (MA96293) during 5 site visits between May 2018 and Sep 2018. 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 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2808	Shubael Pond	2018	Aesthetics Impaired?	No	3	3
W2808	Shubael Pond	2018	Aquatic Plant Density, Overall	None	3	3
W2808	Shubael Pond	2018	Color	None	3	3
W2808	Shubael Pond	2018	Objectionable Deposits	No	3	3
W2808	Shubael Pond	2018	Odor	None	2	3
W2808	Shubael Pond	2018	Odor	Sulfide (rotten egg)	1	3
W2808	Shubael Pond	2018	Scum	No	3	3
W2808	Shubael Pond	2018	Turbidity	None	2	3
W2808	Shubael Pond	2018	Turbidity	Slightly Turbid	1	3
W2809	Shubael Pond	2018	Aesthetics Impaired?	No	5	5
W2809	Shubael Pond	2018	Color	None	5	5
W2809	Shubael Pond	2018	Objectionable Deposits	No	5	5
W2809	Shubael Pond	2018	Odor	None	5	5
W2809	Shubael Pond	2018	Scum	No	4	5
W2809	Shubael Pond	2018	Scum	Yes	1	5
W2809	Shubael Pond	2018	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 2)

C-HAB Summary Statement
During the period 2015 through 2022, C-HAB postings for Shubael Pond (MA96293) were reported to MDPH based on visual observations for 77 days in 2019 and 52 days in 2020. 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 2)

[* indicates a C-HAB posting of unknown duration]

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
Shubael Pond	Barnstable					77	52		

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	YES

2024/26 Use Attainment Summary

Too limited bacteria data are available to assess the Primary Contact Recreation Use for Shubael Pond (MA96293) and available other indicators and aesthetics observations 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 Blooms since C-HAB postings (extended blooms) were reported to MDPH in 2019 and 2020, as well as cyanobacteria cell counts exceeding the threshold for one sample in Aug 2018.
During the period 2015 through 2022, C-HAB postings for Shubael Pond were reported to MDPH based on visual observations for 77 days in 2019 and 52 days in 2020 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, a Harmful Algal Bloom Alert is being identified for this waterbody and a recommendation for follow-up sampling will be made. In Shubael Pond in 2018 MassDEP staff collected Secchi depth and cyanobacteria cell count data at W2808 [MAP2L-258, Index-deep hole] and cyanobacteria cell count and cyanotoxin data at W2809 [MAP2L-258S, Shoreline at northwestern edge of pond off Willimantic Drive, Barnstable]. At station W2808 (station depth=13.8 m) the Secchi depth measurements ranged from 4.05-5.19 m (n=3), indicating water clarity meeting the 1.2 m (4 ft) threshold. The cyanobacteria cell count exceeded 70,000 cells/mL for a single sample (88,874 cells) on Aug 20, 2018 (n=6), which is indicative of a Harmful Algal Blooms Alert. Analysis of microcystins and cylindrospermopsin samples from the shoreline station W2809 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. MassDEP staff also collected *E. coli* bacteria samples in Shubael Pond at W2809 from May-Sep 2018 (n=5). Analysis of the single year limited frequency dataset from this station indicated 25% of intervals had GMs >126 CFU/100ml, 1 sample exceeded the 410 CFU/100ml STV (1,300 CFU), and the seasonal GM was 57 CFU/100ml. *E. coli* data from W2809 are inconclusive according to the 2024 CALM and therefore cannot be used to assess the Primary Contact Recreation Use, because this single year, limited frequency dataset included both a seasonal GM below the threshold and an STV exceedance of the threshold. MDPH contractors conducted surface water sampling at in May 2021 as part of a pilot study assessing 40 PFAS analytes in surface water and fish tissue samples collected from waterbodies on Cape Cod. In this study, MDPH evaluated four PFAS compounds (PFHxS, PFNA, PFOA, PFOS) individually against a candidate Surface Water Action Level (cSWAL) of 23 ng/L (ppt). All four compounds had concentrations less than the cSWAL, with the maximum being 1.79 ng/L of PFOA.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2808	MassDEP	Water Quality	Shubael Pond	[index site, Barnstable]	41.671039	-70.393715
W2809	MassDEP	Water Quality	Shubael Pond	[northwestern edge of pond off Willimantic Drive, Barnstable]	41.674226	-70.394929

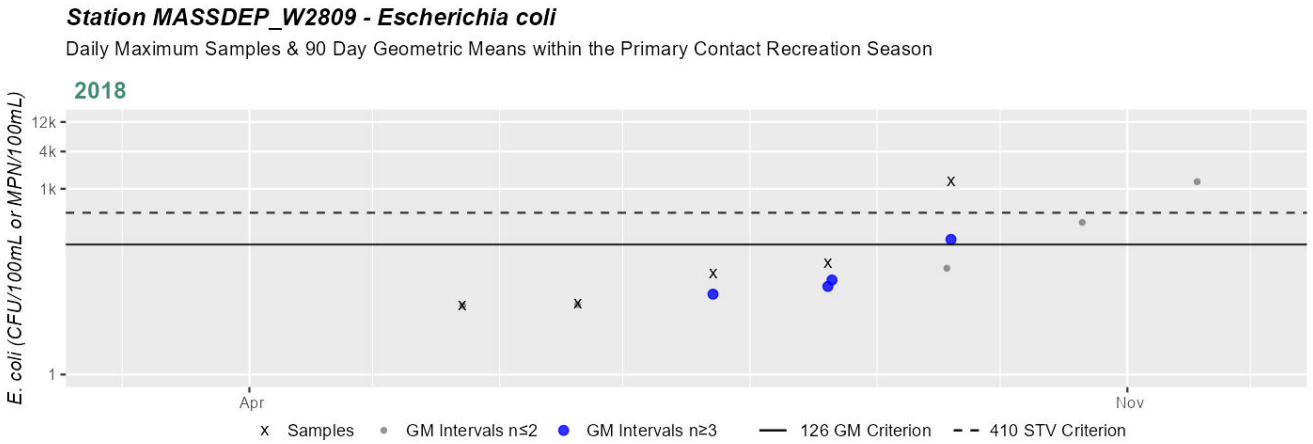
Bacteria Data

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

(MassDEP Undated 9) (MassDEP Undated 5)

[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
W2809	MassDEP	E. coli	05/23/18	09/19/18	5	13	1300	57



Variable*	Result
Samples	5
SeasGM	57
#GMI	4
#GMI Ex	1
%GMI Ex	25%
n>STV	1
%n>STV	20%

Cumulative %GMI Exceedance
Current (2011-2022)
25%

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

Other Indicators

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

(MassDEP Undated 9) (MassDEP Undated 5)

Data Year(s)	Summary
2018	In Shubael Pond (MA96293) in 2018, MassDEP collected Secchi and cyanobacteria cell count data at W2808 [MAP2L-258, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at W2809 [MAP2L-258S, Shoreline]. At station W2808 (station depth=13.8 m) the Secchi depth measurements ranged from 4.05-5.19 m (n=3) indicating water clarity meeting the 1.2 m (4 ft) threshold. The cyanobacteria cell count exceeded 70,000 cells/mL for a single sample on Aug 20, 2018 (n=6). The elevated cyanobacteria cell count measurement is indicative of a Harmful Algal Blooms Alert. Analysis of microcystins and cylindrospermopsin samples from the shoreline station W2809 (n=6) 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 9) (MassDEP Undated 5)

Station Code	Waterbody	Station Type	Data Year	Sample Count	Count >70,000 cells/mL	Exceedance Date(s)
W2808	Shubael Pond	Index	2018	3	0	NA
W2809	Shubael Pond	Shoreline	2018	3	1	8/20/2018

Summary of MDPH 2021 and 2022 PFAS in Water Column Data

Data Sources: (Nascarella 2021, MA DPH 2021)

MDPH contractors conducted surface water sampling at Shubael Pond (MA96293) in Barnstable in May 2021 as part of a pilot study assessing 40 PFAS analytes in surface water and fish tissue samples collected from waterbodies on Cape Cod. In this study, MDPH evaluated four PFAS compounds (PFHxS, PFNA, PFOA, PFOS) individually against a candidate Surface Water Action Level (cSWAL) of 23 ng/L (ppt). All four compounds had concentrations less than the cSWAL, with the maximum being 1.79 ng/L of PFOA.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	YES

2024/26 Use Attainment Summary

Too limited bacteria data are available to assess the Secondary Contact Recreation Use for Shubael Pond (MA96293) and available other indicators and aesthetics observations 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 Blooms since C-HAB postings (extended blooms) were reported to MDPH in 2019 and 2020, as well as cyanobacteria cell counts exceeding the threshold for one sample in Aug 2018.
During the period 2015 through 2022, C-HAB postings for Shubael Pond were reported to MDPH based on visual observations for 77 days in 2019 and 52 days in 2020 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, a Harmful Algal Blooms Alert is being identified for this waterbody and a recommendation for follow-up sampling will be made. In Shubael Pond in 2018 MassDEP staff collected cyanobacteria cell count data at W2808 [MAP2L-258, Index-deep hole] and cyanobacteria cell count and cyanotoxins data at W2809 [MAP2L-258S, Shoreline at northwestern edge of pond off Willimantic Drive, Barnstable]. The cyanobacteria cell count exceeded 70,000 cells/ml for a single sample (88,874 cells) on Aug 20, 2018 in 2018 (n=6), which is indicative of a Harmful Algal Blooms Alert. Analysis of microcystins and cylindrospermopsin samples from W2809 in 2018 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. MassDEP staff also collected *E. coli* bacteria samples in Shubael Pond at station W2809 from May-Sep 2018 (n=5). Analysis of the single year limited frequency dataset from this station indicated 0% of intervals had GMs >244 CFU/100ml, 1 sample exceeded the 794 CFU/100ml STV (1,300 CFU) and the overall GM was 57 CFU/100ml. *E. coli* data from W2809 are inconclusive according to the 2024 CALM and therefore cannot be used to assess the Secondary Contact Recreation Use, because this single year, limited frequency dataset included both a seasonal GM below the threshold and an STV exceedance of the threshold.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2809	MassDEP	Water Quality	Shubael Pond	[northwestern edge of pond off Willimantic Drive, Barnstable]	41.674226	-70.394929

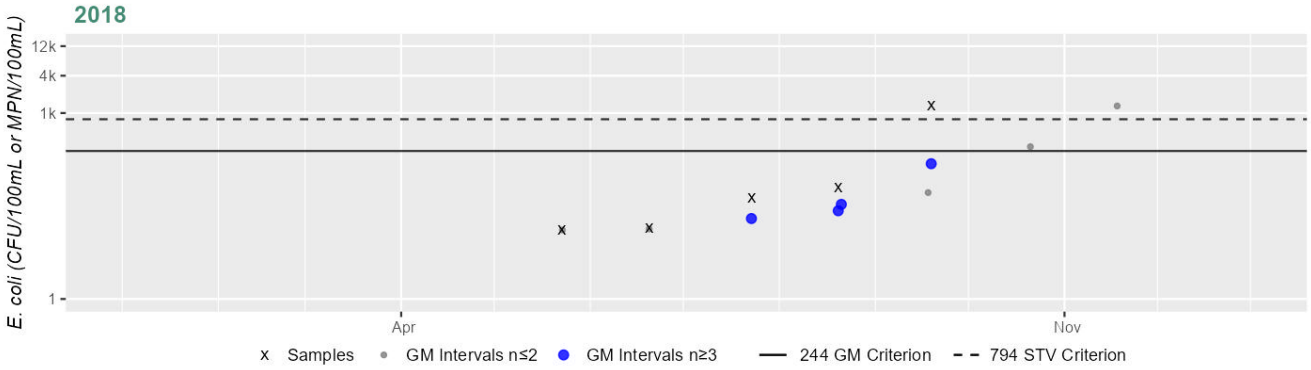
Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
(MassDEP Undated 9) (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
W2809	MassDEP	E. coli	05/23/18	09/19/18	5	13	1300	57

Station MASSDEP_W2809 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	57
#GMI	4
#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 Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.*

Silver Spring Brook (MA96-136)

Location:	Headwaters east of Route 6, Wellfleet to saltwater portion west of West Road, Wellfleet.
AU Type:	RIVER
AU Size:	0.6 MILES
Classification/Qualifier:	B

No usable data were available for Silver Spring Brook (MA96-136) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Slough Pond (MA96298)

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

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

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Slough Pond (MA96298) 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 Slough Pond at station F0385 in 2018 and 2021 as part of the MassDEP Office of Research and Standards Mercury Initiative. MDPH included a site-specific advisory for Slough Pond in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent MDPH 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 7)

Summary Statement
Fish toxics sampling was conducted in Slough Pond (MA96298) at station F0385 in 2018 and 2021 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 Slough Pond in their January 2025 Freshwater Fish Consumption Advisory List. The site-specific MDPH advisories are indicative of a Fish Consumption Use impairment for Mercury in Fish Tissue for Slough Pond (MA96298).

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Slough Pond (MA96298) 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 Slough Pond (MA96298) 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 Slough Pond (MA96298) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Smith Pond (MA96301)

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

No usable data were available for Smith Pond (MA96301) 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

Snake Pond (MA96302)

Location:	Sandwich.
AU Type:	FRESHWATER LAKE
AU Size:	81 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	5	Mercury in Fish Tissue	33880	Unchanged
4a	5	PFAS in Fish Tissue	--	Added

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Fish Consumption Use for Snake Pond (MA96302) continues to be assessed as Not Supporting. The prior Mercury in Fish Tissue impairment is being carried forward and a new impairment is being added for PFAS in Fish Tissue. Fish toxics sampling was conducted in Snake Pond at station F0327 (PFAS Study ID 35) on 10/12/2022 as part of a MassDEP-funded project evaluating 40 PFAS analytes in selected fresh waters. MDPH issued a site-specific advisory for PFAS in Snake Pond in their May 2024 Freshwater Fish Consumption Advisory List and retained both this advisory as well as the existing Mercury advisory in the January 2025 list. The public should refer to the most recent MDPH 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
F0327	MassDEP	Fish Toxics	Snake Pond	[Sandwich]	41.682180	-70.520352

Fish Tissue Data

Summary of Fish Tissue Data and Resulting Fish Consumption Advisories (MA DPH 2025) (MassDEP 2023) (MassDEP Undated 7)

Summary
Fish toxics sampling was conducted in Snake Pond (MA96302) at station F0327 (PFAS Study ID 35) on 10/12/2022 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 Snake Pond in their May 2024 Freshwater Fish Consumption Advisory List and retained them in the January 2025 list. Additionally, MDPH retained the existing site-specific fish consumption advisories for Mercury associated with Snake Pond in their January 2025 Freshwater Fish Consumption Advisory List. The site-specific MDPH advisories are indicative of Fish Consumption Use impairments for PFAS in Fish Tissue and Mercury in Fish Tissue for Snake Pond (MA96302).

MassDEP 2022 PFAS in Fish Tissue Data for Massachusetts Surface Waters (MassDEP 2023) (MassDEP Undated 7) (MA DPH 2023)

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

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

Station Code	PFAS Study ID	Sample Date	Species	Mean PFHxS ng/g	Mean PFNA ng/g	Mean PFOA ng/g	Mean PFOS ng/g	Analytes with ≥ 1 Sample Qualified
F0327	35	10/12/2022	B	ND	ND	ND	0.62	
F0327	35	10/12/2022	P	ND	ND	ND	0.61	

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
F0327	35	10/12/2022	YP	ND	ND	ND	0.37	PFOS

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Snake Pond (MA96302) 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 Snake Pond (MA96302) so it is assessed as having Insufficient Information. Surface water sampling was conducted in Snake Pond at station W3299 (PFAS Study ID 35) and station W3300 (PFAS Study ID 35B), the beach on the southern edge of the pond, on 10/12/2022 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
W3299	MassDEP	Water Quality	Snake Pond	[the default location representing co-located water/fish PFAS sampling, Sandwich]	41.682180	-70.520352
W3300	MassDEP	Water Quality	Snake Pond	[beach on southern edge of pond, Sandwich]	41.679099	-70.518574

Other Indicators

Summary Statement(s) for MassDEP 2022 PFAS in Water Column Data (MassDEP 2023) (MassDEP Undated 5)

Summary
Surface water sampling was conducted in Snake Pond (MA96302) at station W3299 (PFAS Study ID 35) on 10/12/2022 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.
Surface water sampling was conducted in Snake Pond (MA96302) at station W3300 (PFAS Study ID 35B), the beach on the southern edge of the pond, on 10/12/2022 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 5)

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

Station Code	PFAS Study ID	Sample Date	PFOA ng/L	PFOS ng/L	PFNA ng/L	PFHxS ng/L	PFBA ng/L	PFBS ng/L	HFPO-DA ng/L	∑PFAS6 ng/L
W3299	35	10/12/2022	1j	0.74j	<0.51	<0.58	<2	0.68j	<2	4.2*
W3300	35B	10/12/2022	0.71j	<0.53	<0.53	<0.6	<2.1	0.82j	<2.1	3.7*

Summary of MDPH 2021 and 2022 PFAS in Water Column Data

Data Sources: (Nascarella 2021, MA DPH 2021)

MDPH contractors conducted surface water sampling at Snake Pond (MA96302) in Sandwich in May 2021 as part of a pilot study assessing 40 PFAS analytes in surface water and fish tissue samples collected from waterbodies on Cape Cod. In this study, MDPH evaluated four PFAS compounds (PFHxS, PFNA, PFOA, PFOS) individually against a candidate Surface Water Action Level (cSWAL) of 23 ng/L (ppt). All four compounds had concentrations less than the cSWAL, with the maximum being 0.720 ng/L of PFOA.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Snake Pond (MA96302) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Snow Pond (MA96303)

Location:	Truro.
AU Type:	FRESHWATER LAKE
AU Size:	7 ACRES
Classification/Qualifier:	B: ORW

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

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Snow Pond (MA96303) continues to be assessed as Not Supporting and the prior Mercury in Fish Tissue impairment is being carried forward. MDPH included a site-specific advisory for Snow Pond in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent MDPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations.

Aesthetic

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
Too limited data are available to assess the Aesthetics Use for Snow Pond (MA96303), so it is assessed as having Insufficient Information. During the period 2015 through 2022, C-HAB postings for Snow Pond were reported to MDPH based on visual observations for 14 days in 2022 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.

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

C-HAB Summary Statement
During the period 2015 through 2022, C-HAB postings for Snow Pond (MA96303) were reported to MDPH based on visual observations for 14 days in 2022. 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.

Cyanobacteria Harmful Algal Bloom (C-HAB) Data (2015-2022) Provided by MDPH (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

[* indicates a C-HAB posting of unknown duration]

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
Snow Pond	Truro								14

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 Snow Pond (MA96303) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information. During the period 2015 through 2022, C-HAB postings for Snow Pond were reported to MDPH based on visual observations for 14 days in 2022 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.

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 Snow Pond (MA96303) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information. During the period 2015 through 2022, C-HAB postings for Snow Pond were reported to MDPH based on visual observations for 14 days in 2022. 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.

Snows Creek (MA96-81)

Location:	East of Old Colony Road, Barnstable to mouth at inlet Lewis Bay, Barnstable.
AU Type:	ESTUARY
AU Size:	0.02 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	42361	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Snows Creek (MA96-81) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Snows Creek (MA96-81): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.014 sq mi (91%). The approved shellfish growing area represents 0 sq mi (0%) and the prohibited shellfish growing area represents 0.014 sq mi (91%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as entirely prohibited. There is insufficient information available to delist the existing Fecal Coliform impairment so the Shellfish Harvesting Use is evaluated as Not Supporting.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC28.9	Snow's Creek	Prohibited	0.01396	91.5%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Snows Creek (MA96-81) 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 Snows Creek (MA96-81) so it is assessed as having Insufficient Information. The shellfish growing areas (0.014 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Snows Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Snows Creek (MA96-81): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.014 sq mi (91%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Snows Creek (MA96-81) so it is assessed as having Insufficient Information. The shellfish growing areas (0.014 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Snows Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Snows Creek (MA96-81): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.014 sq mi (91%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Spectacle Pond (MA96306)

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

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Mercury in Fish Tissue	42405	Unchanged

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Spectacle Pond (MA96306) continues to be assessed as Not Supporting and the prior Mercury in Fish Tissue impairment is being carried forward. MDPH included a site-specific advisory for Spectacle Pond in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent MDPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Spectacle Pond (MA96306) 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 Spectacle Pond (MA96306) 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 Spectacle Pond (MA96306) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Spectacle Pond (MA96307)

Location:	Sandwich.
AU Type:	FRESHWATER LAKE
AU Size:	93 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Dissolved Oxygen	--	Unchanged
5	5	Mercury in Fish Tissue	42406	Unchanged

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Fish Consumption Use for Spectacle Pond (MA96307) continues to be assessed as Not Supporting and the prior Mercury in Fish Tissue impairment is being carried forward. MDPH included a site-specific advisory for Spectacle Pond in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent MDPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Spectacle Pond (MA96307) 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 Spectacle Pond (MA96307) 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 Spectacle Pond (MA96307) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Springhill Creek (MA96-87)

Location:	From railroad crossing northeast of Route 6A, Sandwich to mouth at confluence with Old Harbor Creek, Sandwich.
AU Type:	ESTUARY
AU Size:	0.01 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	42362	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Springhill Creek (MA96-87) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
There is insufficient information available to delist the existing Fecal Coliform impairment so the Shellfish Harvesting Use for Springhill Creek (MA96-87) is assessed as Not Supporting. The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0105 sq mi (82%). The approved shellfish growing area represents 0 sq mi (0%) and prohibited shellfish growing area represents 0.0105 sq mi (82%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as entirely prohibited..

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
CCB37.4	Old Harbor Creek	Prohibited	0.01047	82.2%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Springhill Creek (MA96-87) 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 Springhill Creek (MA96-87) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0105 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Springhill Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Springhill Creek (MA96-87): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0105 sq mi (82%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Springhill Creek (MA96-87) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0105 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use the Springhill Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Springhill Creek (MA96-87): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0105 sq mi (82%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Stage Harbor (MA96-11)

Location:	From outlet Mill Pond, Chatham (includes Mitchell River SARIS# 9661975) to inlet of Nantucket Sound at a line from the southernmost point of Harding Beach southeast to Harding Beach Point, Chatham.
AU Type:	ESTUARY
AU Size:	0.56 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	4a	Estuarine Bioassessments	36221	Changed
5	4a	Fecal Coliform	36772	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--
Fecal Coliform	Marina/Boating Pumpout Releases (Y)	--	--	X	--	--	--

Supporting Information for Removed Impairments

2022 Removed Impairment	Removal Reason	Removal Comment
Estuarine Bioassessments	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: Stage Harbor/Oyster Pond, Sulphur Springs/Bucks Creek, Taylors Pond/Mill Creek Total Maximum Daily Load Re-Evaluations for Total Nitrogen (Report CN 206.1, approved 6/22/2009, ATTAINS Action ID: 36221)

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 Stage Harbor (MA96-11) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Stage Harbor (MA96-11): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.5538 sq mi (98%). The approved shellfish growing area represents 0.4084 sq mi (73%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC47.0	Monomoy Island	Approved	0.00000	0.0%
SC48.0	Stage Harbor	Approved	0.38169	67.8%
SC48.4	Stage Harbor Marine	Conditionally Approved	0.00319	0.6%
SC48.5	Champlain Creek	Conditionally Approved	0.00028	0.0%

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC48.6	Battlefield Mooring Area	Conditionally Approved	0.06239	11.1%
SC48.7	Stage Harbor Mooring Area	Conditionally Approved	0.07064	12.6%
SC48.8	Mitchell River Mooring Area	Conditionally Approved	0.00889	1.6%
SC51.0	Mitchell River	Approved	0.02673	4.8%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Stage Harbor (MA96-11) 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 Stage Harbor (MA96-11) so it is assessed as having Insufficient Information. The shellfish growing areas (0.5538 sq mi) in this AU are less than 100% approved (0.4084 sq mi, 73%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Stage Harbor.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Stage Harbor (MA96-11): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.5538 sq mi (98%). The approved shellfish growing area represents 0.4084 sq mi (73%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Stage Harbor (MA96-11) so it is assessed as having Insufficient Information. The shellfish growing areas (0.5538 sq mi) in this AU are less than 100% approved (0.4084 sq mi, 73%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Stage Harbor.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Stage Harbor (MA96-11): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.5538 sq mi (98%). The approved shellfish growing area represents 0.4084 sq mi (73%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Stewarts Creek (MA96-94)

Location:	Estuarine portion west of Stetson Street, Barnstable to mouth at inlet Hyannis Harbor, Barnstable.
AU Type:	ESTUARY
AU Size:	0.01 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	42363	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Stewarts Creek (MA96-94) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Stewarts Creek (MA96-94): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0084 sq mi (59%). The approved shellfish growing area represents 0 sq mi (0%) and the prohibited shellfish growing area represents 0.0084 sq mi (59%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as a combination of approved and prohibited. There is insufficient information available to delist the existing Fecal Coliform impairment so the Shellfish Harvesting Use is evaluated as Not Supporting.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC27.0	Hyannis Outer Harbor	Approved	0.00004	0.2%
SC27.2	Stewart Creek	Prohibited	0.00840	58.8%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Stewarts Creek (MA96-94) 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 Stewarts Creek (MA96-94) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0084 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Stewarts Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Stewarts Creek (MA96-94): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0084 sq mi (59%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Stewarts Creek (MA96-94) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0084 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Stewarts Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Stewarts Creek (MA96-94): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0084 sq mi (59%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Stillwater Pond (MA96309)

Location:	Chatham.
AU Type:	FRESHWATER LAKE
AU Size:	18 ACRES
Classification/Qualifier:	B: ORW, WWF

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	4c	(Fish Passage Barrier*)	--	Unchanged
5	4c	Transparency / Clarity	--	Removed

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Habitat Modification - other than Hydromodification (Y)	X	--	--	--	--

Supporting Information for Removed Impairments

2022 Removed Impairment	Removal Reason	Removal Comment
Transparency / Clarity	Applicable WQS attained; based on new data	The Transparency/Clarity impairment for Stillwater Pond was originally listed in the 2012 reporting cycle, at that time it was a new Assessment Unit. This impairment was based on observations of the waterbody in 2007. As was summarized in the 2004-2008 WQAR (MassDEP 2011) Secchi disk transparency measurements were taken in Stillwater Pond between May and November 2007 by ENSR Corporation AECOM. Transparency was poor (i.e., <1.2 m) throughout August and mid September through early October; (i.e. four of 12 measurements during primary contact recreational season). In 2018 MassDEP staff took Secchi depth measurements at the Index-deep hole station W2810 (station depth=15.3 m), these measurements ranged from 3.05-4.95 m (n=3), indicating water clarity meeting the 1.2 m (4 ft) threshold. Given this improvement in Secchi depth measurements the Primary Contact Recreation Use should be delisted for Transparency/Clarity.

Transparency / Clarity

See removal comment in "supporting information for removed impairments" table above.

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
There is Insufficient Information to assess the Fish Consumption Use for Stillwater Pond (MA96309). Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in Stillwater Pond at station F0453 in 2018 as part of the probabilistic lake surveys (MAP2). However, no site-specific fish consumption advisory was issued by MDPH.

Fish Consumption Advisories

Summary of Fish Toxics Sampling and Resulting Fish Consumption Advisories (MassDEP Undated 7)

Summary Statement
Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in Stillwater Pond (MA96309) at station F0453 in 2018 as part of the probabilistic lake surveys (MAP2). No site-specific fish consumption advisory was issued by MDPH.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Stillwater Pond (MA96309) is assessed as Fully Supporting based on observations made by MassDEP field staff during a macrophyte survey in 2018. Since the impairment for Transparency/Clarity was redundantly duplicated across multiple uses for this waterbody, the Transparency/Clarity impairment is being removed from the Aesthetics Use but will be discussed under the Primary Contact Recreation Use. MassDEP staff recorded aesthetics observations as part of the MAP2 lake monitoring project in summer 2018 at two stations in Chatham for Stillwater Pond, at the western tip of pond off Stillwater Road (W2811/MAP2L-269S, n=5) and at the deep hole index station (W2810/MAP2L-269, n=3). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, or littoral zone duckweed recorded in ten shoreline plots at W2811 (n=1) though scum was noted on two occasions, once including a minor algal mat and once a slight oily sheen. During the MAP2 macrophyte mapping survey in Jul 2018 (n=1), less than 25% (22.2%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2810	MassDEP	Water Quality	Stillwater Pond	[index site, Chatham]	41.703389	-69.986116
W2811	MassDEP	Water Quality	Stillwater Pond	[western tip of lake off Stillwater Road, Chatham]	41.703062	-69.987640

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2810	2018	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2810 (MAP2L-269) on Stillwater Pond (MA96309) during 3 site visits between Jun 2018 and Aug 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. During the MAP2 macrophyte mapping survey (n=1) in Jul 2018, less than 25% (22.2%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%.
W2811	2018	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2811 (MAP2L-269S) on Stillwater Pond (MA96309) during 5 site visits between May 2018 and Sep 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though scum was noted on 2 occasions. 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 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2810	Stillwater Pond	2018	Aesthetics Impaired?	No	3	3
W2810	Stillwater Pond	2018	Aquatic Plant Density, Overall	None	3	3
W2810	Stillwater Pond	2018	Color	Light Yellow/Tan	2	3
W2810	Stillwater Pond	2018	Color	None	1	3
W2810	Stillwater Pond	2018	Objectionable Deposits	No	3	3
W2810	Stillwater Pond	2018	Odor	None	3	3
W2810	Stillwater Pond	2018	Scum	No	3	3
W2810	Stillwater Pond	2018	Turbidity	None	2	3
W2810	Stillwater Pond	2018	Turbidity	Slightly Turbid	1	3
W2811	Stillwater Pond	2018	Aesthetics Impaired?	No	5	5
W2811	Stillwater Pond	2018	Color	None	5	5
W2811	Stillwater Pond	2018	Objectionable Deposits	No	5	5
W2811	Stillwater Pond	2018	Odor	None	5	5
W2811	Stillwater Pond	2018	Scum	No	3	5
W2811	Stillwater Pond	2018	Scum	Yes	2	5
W2811	Stillwater Pond	2018	Turbidity	None	4	5
W2811	Stillwater Pond	2018	Turbidity	Slightly Turbid	1	5

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Stillwater Pond (MA96309) is assessed as Fully Supporting. The Transparency / Clarity impairment is being delisted since water clarity did not exceed the threshold on three separate dates during the summer of 2018 (See removal comment in "supporting information for removed impairments" table above). In Stillwater Pond in 2018 MassDEP staff collected Secchi depth and cyanobacteria cell count data at W2810 [MAP2L-269, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at W2811 [MAP2L-269S, Shoreline at western tip of lake off Stillwater Rd, Chatham]. At station W2810 (station depth=15.3 m) the Secchi depth measurements ranged from 3.05-4.95 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 W2811 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. The cyanobacteria cell count did not exceed 70,000 cells/ml in any of the water samples in 2018 (n=6). Analysis of microcystins and cylindrospermopsin samples from W2811 in 2018 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. MassDEP staff collected *E. coli* bacteria samples in Stillwater Pond at station W2811 from May-Sep 2018 (n=5). Analysis of the single year limited frequency dataset from this station indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV and the seasonal GM was 6 CFU/100m, which meets 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2810	MassDEP	Water Quality	Stillwater Pond	[index site, Chatham]	41.703389	-69.986116
W2811	MassDEP	Water Quality	Stillwater Pond	[western tip of lake off Stillwater Road, Chatham]	41.703062	-69.987640

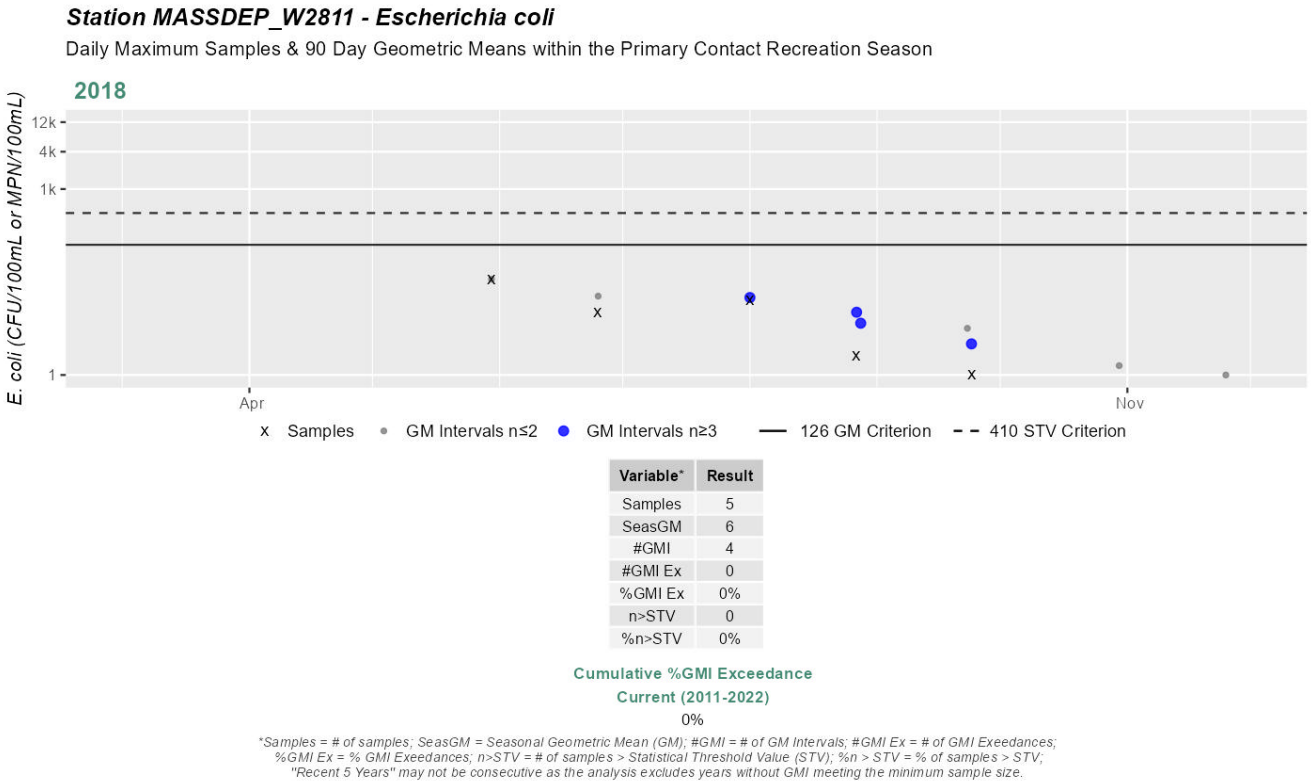
Bacteria Data

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

(MassDEP Undated 9) (MassDEP Undated 5)

[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
W2811	MassDEP	E. coli	05/30/18	09/24/18	5	1	35	6



Other Indicators

Summary Statement for 2011-2022 Cyanobacteria Cell Count and Cyanotoxin Data, and Secchi Depth Data (MassDEP Undated 9) (MassDEP Undated 5)

Data Year(s)	Summary
2018	In Stillwater Pond (MA96309) in 2018, MassDEP collected Secchi and cyanobacteria cell count data at W2810 [MAP2L-269, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at W2811 [MAP2L-269S, Shoreline]. At station W2810 (station depth=15.3 m) the Secchi depth measurements ranged from 3.05-4.95 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 W2811 (n=6) 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 9) (MassDEP Undated 5)

Station Code	Waterbody	Station Type	Data Year	Sample Count	Count >70,000 cells/mL	Exceedance Date(s)
W2810	Stillwater Pond	Index	2018	3	0	NA
W2811	Stillwater Pond	Shoreline	2018	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 Stillwater Pond (MA96309) is assessed as Fully Supporting. Since the Transparency / Clarity impairment is being removed from the Aesthetics Use this cycle, this impairment is also being removed from the Secondary Contact Recreation Use. In Stillwater Pond in 2018 MassDEP collected Secchi depth and cyanobacteria cell count data at W2810 [MAP2L-269, Index-deep hole] and cyanobacteria cell count and cyanotoxin data at W2811 [MAP2L-269S, Shoreline at western tip of lake off Stillwater Rd, Chatham]. At station W2810 (station depth=15.3 m) the Secchi depth measurements ranged from 3.05-4.95 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 W2811 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. MassDEP staff collected *E. coli* bacteria samples in Stillwater Pond at station W2811 from May-Sep 2018 (n=5). Analysis of the single year limited frequency dataset from this station indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV and the overall GM was 6 CFU/100ml, which meets 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2811	MassDEP	Water Quality	Stillwater Pond	[western tip of lake off Stillwater Road, Chatham]	41.703062	-69.987640

Bacteria Data

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

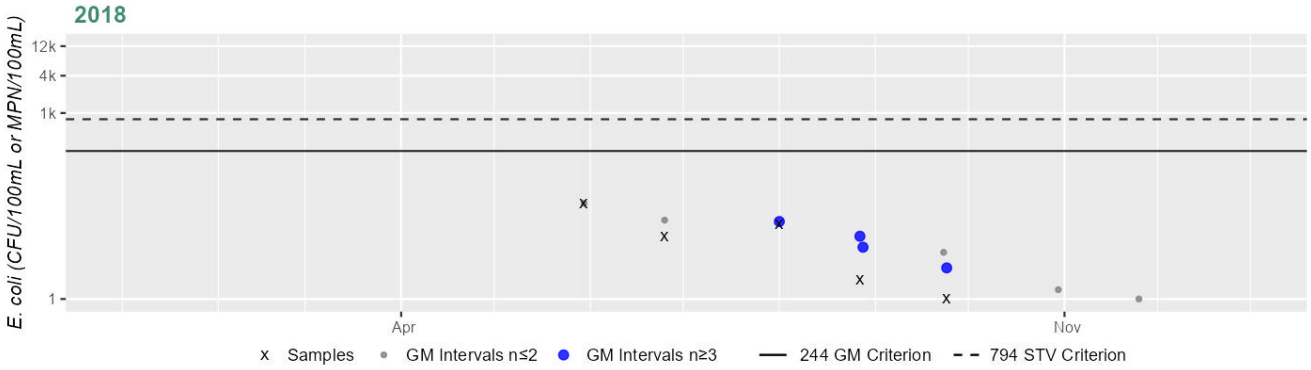
(MassDEP Undated 9) (MassDEP Undated 4)

[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
W2811	MassDEP	E. coli	05/30/18	09/24/18	5	1	35	6

Station MASSDEP_W2811 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	6
#GMI	4
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

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

Swan Pond (MA96-111)

Location:	Dennis.
AU Type:	ESTUARY
AU Size:	0.22 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	5	Enterococcus	--	Added
4a	5	Fecal Coliform	--	Added
4a	5	Nitrogen, Total	68000	Unchanged
4a	5	Nutrient/Eutrophication Biological Indicators	68000	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Enterococcus	Source Unknown (N)	--	--	--	--	X	--
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	Landfills (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nutrient/Eutrophication Biological Indicators	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Landfills (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Swan Pond (MA96-111) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Swan Pond (MA96-111): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.214 sq mi (98%). The approved shellfish growing area represents 0 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. As a result of the growing area classifications, a Fecal Coliform impairment is being added.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC36.0	Swan Pond/Swan Pond River	Conditionally Approved	0.03632	16.6%
SC36.1	Swan Pond North	Prohibited	0.17763	81.0%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Swan Pond (MA96-111) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Swan Pond (MA96-111) is assessed as Not Supporting based on MDPH Beach Closures data, with an Enterococcus impairment being added. MDPH Beach Closure data for Clipper Lane beach in Dennis [Beach ID: 5467] indicated that this beach was posted for >10% of the swimming season in 2021 (23%) and 2022 (19%) indicating an Enterococcus impairment. The shellfish growing areas (0.214 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Swan Pond.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
5467	Clipper Lane/ Dennis	41.67466, -70.13050	41.67478, -70.13020	5%	1%	11%	0%	0%	9%	0%	23%	19%	3

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Swan Pond (MA96-111): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.214 sq mi (98%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Swan Pond (MA96-111) so it is assessed as having Insufficient Information. MDPH Beach Closure data for Clipper Lane beach in Dennis [Beach ID: 5467] cannot be used to positively assess the Secondary Contact Recreation Use, since beaches were posted for >10% of the swimming season in 2021 and 2022. The shellfish growing areas (0.214 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Swan Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Swan Pond (MA96-111): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.214 sq mi (98%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Swan Pond River (MA96-14)

Location:	Headwaters, outlet Swan Pond, Dennis to mouth at inlet Nantucket Sound, Dennis.
AU Type:	ESTUARY
AU Size:	0.04 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Estuarine Bioassessments	68001	Unchanged
4a	4a	Fecal Coliform	36771	Unchanged
4a	4a	Nitrogen, Total	68001	Unchanged
4a	4a	Nutrient/Eutrophication Biological Indicators	68001	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	--	--	--
Fecal Coliform	Wastes from Pets (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Swan Pond River (MA96-14) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Swan Pond River (MA96-14): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0303 sq mi (86%). The approved shellfish growing area represents 0 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC32.2	Glendon Road Beach	Conditionally Approved	0.00014	0.4%
SC36.0	Swan Pond/Swan Pond River	Conditionally Approved	0.03015	85.8%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Swan Pond River (MA96-14) 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 the Swan Pond River (MA96-14) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0303 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Swan Pond River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Swan Pond River (MA96-14): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0303 sq mi (86%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
No bacteria data are available to assess the Secondary Contact Recreation Use for the Swan Pond River (MA96-14) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0303 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Swan Pond River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Swan Pond River (MA96-14): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0303 sq mi (86%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Taylors Pond (MA96-42)

Location:	Chatham.
AU Type:	ESTUARY
AU Size:	0.02 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	36772	Unchanged
4a	4a	Nitrogen, Total	36231	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--
Nitrogen, Total	Agriculture (Y)	X	--	--	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Taylors Pond (MA96-42) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Taylors Pond (MA96-42): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0173 sq mi (100%). The approved shellfish growing area represents 0 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC45.0	Taylors Pond	Conditionally Approved	0.01733	100.0%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Taylors Pond (MA96-42) 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 Taylors Pond (MA96-42) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0173 sq mi) in this AU are less than 100% approved (0 sq mi, 0%). The data were too limited to assess Primary Contact Recreation Use of Taylors Pond (MA96-42) based on shellfish classification data.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Taylors Pond (MA96-42): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0173 sq mi (100%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Taylors Pond (MA96-42) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0173 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Taylors Pond.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Taylors Pond (MA96-42): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0173 sq mi (100%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

The River (MA96-76)

Location:	The water landward of an imaginary line drawn between Old Field Point and Namequoit Point including Meetinghouse Pond, and Kescayo Gansett Pond (locally known as "Lonnies Pond"), Orleans (excluding the delineated segments; Namequoit River and Areys Pond).
AU Type:	ESTUARY
AU Size:	0.41 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO (also tributary to SA B Shellfishing ORW)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	42359	Unchanged
4a	4a	Nitrogen, Total	33787, 33788, 33790, 33789	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	--	--	X	--	--	--
Fecal Coliform	Marina/Boating Pumpout Releases (Y)	--	--	X	--	--	--
Fecal Coliform	Waterfowl (Y)	--	--	X	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Unspecified Urban Stormwater (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for The River (MA96-76) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The River (MA96-76): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.4084 sq mi (98%). The approved shellfish growing area represents 0.3664 sq mi (88%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC63.0	Namequoit River	Approved	0.36641	88.3%
SC63.4	Nauset Marine/Meetinghouse Pond Mooring Area	Conditionally Approved	0.03453	8.3%
SC63.6	Frostfish Cove	Conditionally Approved	0.00743	1.8%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for The River (MA96-76) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for the The River (MA96-76) continues to be assessed as Fully Supporting based on MDPH Beach Closure data. MDPH Beach Closure data for Meeting House Pond beach in Orleans [Beach ID: 3061] indicated that this beach was rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (0.4084 sq mi) in this AU are less than 100% approved (0.3664 sq mi, 88%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for The River.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
3061	Meeting House Pond/ Orleans	41.77995, -69.96200	41.77973, -69.96210	0%	0%	0%	0%	0%	0%	0%	8%	0%	0

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
The River (MA96-76): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.4084 sq mi (98%). The approved shellfish growing area represents 0.3664 sq mi (88%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for the The River (MA96-76) continues to be assessed as Fully Supporting Supporting based on MDPH Beach Closure data. MDPH Beach Closure data for Meeting House Pond beach in Orleans [Beach ID: 3061] indicated that this beach was rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (0.4084 sq mi) in this AU are less than 100% approved (0.3664 sq mi, 88%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for The River.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
The River (MA96-76): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.4084 sq mi (98%). The approved shellfish growing area represents 0.3664 sq mi (88%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Town Brook (MA96-137)

Location:	Headwaters, outlet Little Sandy Pond, Yarmouth to mouth at inlet Mill Pond, Yarmouth.
AU Type:	RIVER
AU Size:	0.5 MILES
Classification/Qualifier:	B

No usable data were available for Town Brook (MA96-137) 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	None	--	Unchanged

Town Cove (MA96-68)

Location:	Entire cove, Orleans/Eastham (including Rachael Cove and Woods Cove, Orleans) outlet to Nauset Harbor, Orleans (area within Cape Cod National Seashore designated as ORW).
AU Type:	ESTUARY
AU Size:	0.79 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO ('ORW' applies only to portion in Cape Cod National Seashore)

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

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	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 Town Cove (MA96-68) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
Town Cove (MA96-68): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.7719 sq mi (97%). The approved shellfish growing area represents 0.769 sq mi (97%). The Shellfish Harvesting Use is assessed as Fully Supporting because the growing area (normalized to the AU area) is classified as 100% approved.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
OC2.0	Nauset Harbor	Approved	0.14625	18.4%
OC4.0	Town Cove	Approved	0.62277	78.4%
OC4.1	Abeno Creek	Prohibited	0.00287	0.4%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Town Cove (MA96-68) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Town Cove (MA96-68) continues to be assessed as Fully Supporting based on MDPH Beach Closure data and shellfish growing area classifications data. MDPH Beach Closure data indicated that Town Cove beach in Eastham [Beach ID: 2790] was rarely, if at all, posted for swimming from 2018-2022. In addition the shellfish growing areas (0.7719 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Primary Contact Recreation Use of Town Cove.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
2790	Town Cove/ Eastham	41.80009, -69.98060	41.80067, -69.98010	0%	0%	0%	0%	0%	0%	5%	5%	0%	0

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Town Cove (MA96-68): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.7719 sq mi (97%). The approved shellfish growing area represents 0.769 sq mi (97%). The Primary Contact Recreational Use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Town Cove (MA96-68) continues to be assessed as Fully Supporting based on MDPH Beach Closure data and shellfish growing area classifications data. MDPH Beach Closure data indicated that Town Cove beach in Eastham [Beach ID: 2790] was rarely, if at all, posted for swimming from 2018-2022. In addition the shellfish growing areas (0.7719 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Secondary Contact Recreation Use of Town Cove.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Town Cove (MA96-68): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.7719 sq mi (97%). The approved shellfish growing area represents 0.769 sq mi (97%). The Secondary Contact Recreational use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Uncle Harvey Pond (MA96319)

Location:	Orleans.
AU Type:	FRESHWATER LAKE
AU Size:	6 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Harmful Algal Blooms	--	Unchanged

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

Recommendations

2024/26 Recommendations
2024/26IR [Harmful Algal Blooms, Low] Follow-up monitoring should be conducted in Uncle Harvey Pond (MA96319) to confirm the existing Harmful Algal Blooms impairment to the Recreational and Aesthetic uses. C-HAB postings for Uncle Harvey Pond were reported to MDPH based on visual observations for 32 days in 2015. Monitoring should focus on the collection of cyanobacteria cell count data. This is of low priority;

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 Uncle Harvey Pond (MA96319) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Uncle Harvey Pond (MA96319) is assessed as Not Supporting, with the prior impairment for Harmful Algal Blooms being carried forward. During the period 2015 through 2022, C-HAB postings for Uncle Harvey Pond were reported to MDPH based on visual observations for 32 days in 2015 and no blooms were reported in other years. Since blooms were reported in a recent year this is reflective of the existing Harmful Algal Bloom impairment. Considering 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.

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

C-HAB Summary Statement
During the period 2015 through 2022, C-HAB postings for Uncle Harvey Pond (MA96319) were reported to MDPH based on visual observations for 32 days in 2015. No blooms were reported in other years. Since blooms were reported in a recent year, a 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.

Cyanobacteria Harmful Algal Bloom (C-HAB) Data (2015-2022) Provided by MDPH (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

[* indicates a C-HAB posting of unknown duration]

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
Uncle Harvey Pond	Orleans	32							

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Uncle Harvey Pond (MA96319) continues to be assessed as Not Supporting, with the prior impairment for Harmful Algal Blooms being carried forward. During the period 2015 through 2022, C-HAB postings for Uncle Harvey Pond were reported to MDPH based on visual observations for 32 days in 2015, though no blooms were reported in other years. Since blooms were reported in a recent year, this C-HAB data is reflective of the existing Harmful Algal Blooms impairment for Uncle Harvey Pond. 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.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

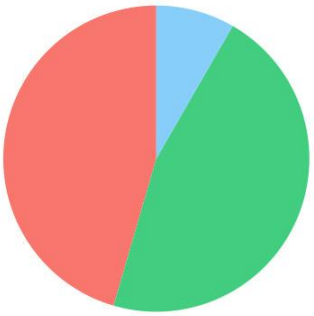
2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Uncle Harvey Pond (MA96319) continues to be assessed as Not Supporting, with the prior impairment for Harmful Algal Blooms being carried forward. During the period 2015 through 2022, C-HAB postings for Uncle Harvey Pond were reported to MDPH based on visual observations for 32 days in 2015, though no blooms were reported in other years. Since blooms were reported in a recent year, this C-HAB data is reflective of the existing Harmful Algal Blooms impairment for Uncle Harvey Pond. 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.

Unnamed Tributary (MA96-100)

Location:	Unnamed tributary to Halls Creek, Barnstable from headwaters south of the intersection of Old Craigville and Old Town roads, Barnstable to confluence with tidal portion just south of Craigville Beach Road, Barnstable.
AU Type:	RIVER
AU Size:	0.5 MILES
Classification/Qualifier:	B

Unnamed Tributary (MA96-100)

Watershed Area: 0.46 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	0.46	0.46	0.07	0.07
Agriculture	0%	0%	0%	0%
Developed	45.5%	45.5%	23.1%	23.1%
Natural	46.2%	46.2%	33.5%	33.5%
Wetland	8.3%	8.3%	43.5%	43.5%
Impervious	27.5%	27.5%	8.6%	8.6%

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 Unnamed Tributary (MA96-100) 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 Unnamed Tributary (MA96-100) 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 Unnamed Tributary (MA96-100) 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.

Secondary Contact Recreation

2024/26 Use Attainment	Alert

Not Assessed	NO

2024/26 Use Attainment Summary

No bacteria or other indicator data for Unnamed Tributary (MA96-100) 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 at the downstream end of this Unnamed Tributary AU at W1914 [unnamed tributary to Halls Creek, Craigville Beach Rd, Barnstable] from May-Oct 2009 (n=6). Analysis of the historic single year limited frequency dataset from this station indicated 71% of intervals had GMs >244 CFU/100ml, 1 sample exceeded the 794 CFU/100ml STV (1,900 CFU) and the overall GM was 225 CFU/100ml. Historic *E. coli* data from station W1914 are inconclusive according to the 2024 CALM to assess the Secondary Contact Recreation Use because this single year, limited frequency dataset included both GMs below the threshold and an exceedance of the STV threshold.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1914	MassDEP	Water Quality	Unnamed Tributary	[unnamed tributary to Halls Creek, Craigville Beach Road, Barnstable]	41.639085	-70.322151

Bacteria Data

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

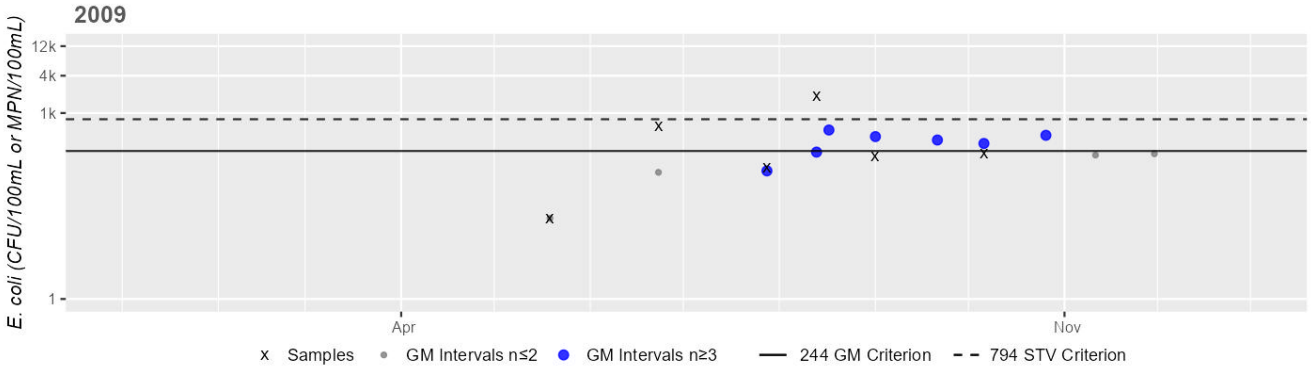
(MassDEP Undated 9) (MassDEP Undated 4)

[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
W1914	MassDEP	E. coli	05/19/09	10/06/09	6	20	1900	225

Station MASSDEP_W1914 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	225
#GMI	7
#GMI Ex	5
%GMI Ex	71%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance
Historic (1997-2010)
71%

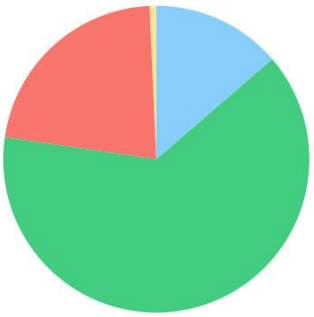
**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes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

Unnamed Tributary (MA96-104)

Location:	Unnamed tributary to Freemans Pond, Brewster from outlet of channelized wetland south of Lower Road, Brewster to confluence with tidal portion west of Lower Road, Brewster.
AU Type:	RIVER
AU Size:	0.4 MILES
Classification/Qualifier:	B

Unnamed Tributary (MA96-104)

Watershed Area: 1.91 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	1.91	1.91	0.57	0.57
Agriculture	0.7%	0.7%	1.9%	1.9%
Developed	22%	22%	13.3%	13.3%
Natural	63.6%	63.6%	55.6%	55.6%
Wetland	13.7%	13.7%	29.2%	29.2%
Impervious	11.4%	11.4%	6.9%	6.9%

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	X
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	X

Supporting Information for Removed Impairments

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Unnamed Tributary (MA96-104) 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 Unnamed Tributary (MA96-104) 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 Unnamed Tributary (MA96-104) 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.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Unnamed Tributary (MA96-104) 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 one station in 2009. MassDEP staff collected *E. coli* bacteria samples at the downstream end of this Unnamed Tributary AU at station W1921 [unnamed tributary to Freemans Pond, the northern most tributary on the eastern side of Lower Rd, Brewster] from May-Oct 2009 (n=6). Analysis of the historic single year limited frequency dataset from this station indicated 85% of intervals had GMs >244 CFU/100ml, 1 sample exceeded the 794 CFU/100ml STV (1,000 CFU) and the overall GM was 285 CFU/100ml, which is indicative of an *E. coli* impairment.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1921	MassDEP	Water Quality	Unnamed Tributary	[unnamed tributary to Freemans Pond, the northern most tributary on the eastern side of Lower Road, Brewster]	41.757481	-70.104328

Bacteria Data

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

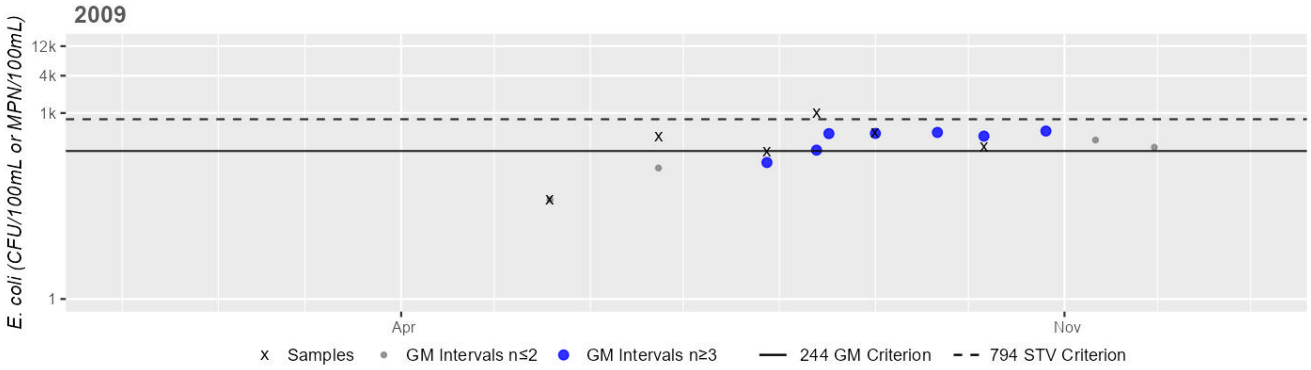
(MassDEP Undated 9) (MassDEP Undated 4)

[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
W1921	MassDEP	E. coli	05/19/09	10/06/09	6	40	1000	285

Station MASSDEP_W1921 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	285
#GMI	7
#GMI Ex	6
%GMI Ex	85%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance
Historic (1997-2010)
85%

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

Unnamed Tributary (MA96-105)

Location:	Unnamed tributary to Herring River, headwaters outlet Walkers Pond, Harwich to outlet channelized wetland south of Great Western Road, Harwich.
AU Type:	RIVER
AU Size:	3.3 MILES
Classification/Qualifier:	B

Unnamed Tributary (MA96-105)

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	3.18	1.27	1.07
Agriculture	1.2%	1.6%	2.5%	3%
Developed	24.2%	26.4%	11.3%	13%
Natural	65.8%	60.8%	63%	57.4%
Wetland	8.8%	11.2%	23.3%	26.6%
Impervious	10.6%	11%	5%	5.7%

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 Unnamed Tributary (MA96-105) 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 Unnamed Tributary (MA96-105) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Unnamed Tributary (MA96-105) are available, so the Primary Contact Recreation Use is Not Assessed.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Unnamed Tributary (MA96-105) 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 at the downstream end of this Unnamed Tributary AU at station W1919 [unnamed tributary to the Herring River, Great Western Rd, Harwich] from May-Oct 2009 (n=6). Analysis of the historic single year limited frequency *E. coli* dataset from this station indicated 0% of intervals had GMs >244 CFU/100ml, 2 samples exceeded the 794 CFU/100ml STV (maximum 1,300 CFU) and the overall GM was 100 CFU/100ml. Historic *E. coli* data from W1919 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
W1919	MassDEP	Water Quality	Unnamed Tributary	[unnamed tributary to the Herring River, Great Western Road, Harwich]	41.686309	-70.094734

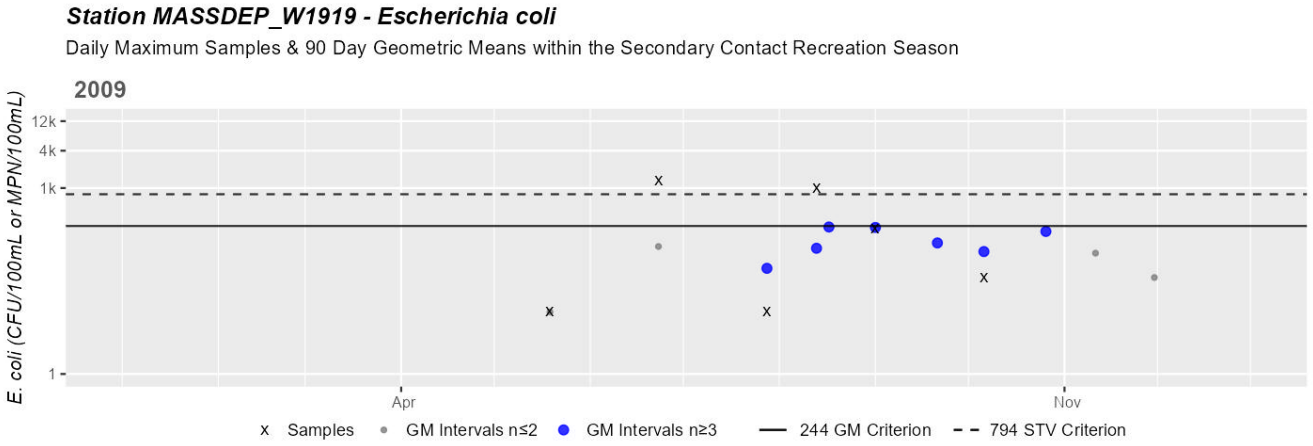
Bacteria Data

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

(MassDEP Undated 9) (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
W1919	MassDEP	E. coli	05/19/09	10/06/09	6	10	1300	100



Variable*	Result
Samples	6
SeasGM	100
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	33%

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

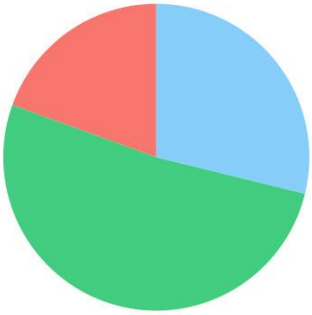
**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes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

Unnamed Tributary (MA96-108)

Location:	Unnamed tributary to Herring River, headwaters outlet Perch Pond, Wellfleet to mouth at confluence with Herring River, Wellfleet (area within Cape Cod National Seashore designated as ORW).
AU Type:	RIVER
AU Size:	2 MILES
Classification/Qualifier:	B: ORW ('ORW' applies only to portion in Cape Cod National Seashore)

Unnamed Tributary (MA96-108)

Watershed Area: 1.98 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	1.98	1.98	0.74	0.74
Agriculture	0%	0%	0%	0%
Developed	19.5%	19.5%	9.4%	9.4%
Natural	51.7%	51.7%	25.8%	25.8%
Wetland	28.8%	28.8%	64.8%	64.8%
Impervious	10.9%	10.9%	5.5%	5.5%

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

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

Supporting Information for Removed Impairments

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Unnamed Tributary (MA96-108) 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 Unnamed Tributary (MA96-108), so it is Not Assessed. Since the prior Alert identified for High Phosphorus concentrations was redundantly duplicated across multiple uses for this waterbody, it is being removed from the Aesthetics Use but will continue to be maintained under the Aquatic Life Use.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Unnamed Tributary (MA96-108) 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. Since the prior Alert identified for High Phosphorus concentrations was redundantly duplicated across multiple uses for this waterbody, it is being removed from the Primary Contact Recreation Use but will continue to be maintained under the Aquatic Life Use.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Unnamed Tributary (MA96-108) 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 one station in 2009. Since the prior Alert identified for High Phosphorus concentrations was redundantly duplicated across multiple uses for this waterbody, it is being removed from the Secondary Contact Recreation Use but will continue to be maintained under the Aquatic Life Use. MassDEP staff collected *E. coli* bacteria samples halfway down this Unnamed Tributary AU at station W1917 [unnamed tributary to the Herring River, Pole Dike Rd, Wellfleet] from May-Oct 2009 (n=6). Analysis of the historic single year limited frequency dataset from this station indicated 85% of intervals had GMs >244 CFU/100ml, 1 sample exceeded the 794 CFU/100ml STV (800 CFU) and the overall GM was 343 CFU/100ml, which is indicative of an *E. coli* impairment.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1917	MassDEP	Water Quality	Unnamed Tributary	[unnamed tributary to the Herring River, Pole Dike Road, Wellfleet]	41.947825	-70.044395

Bacteria Data

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

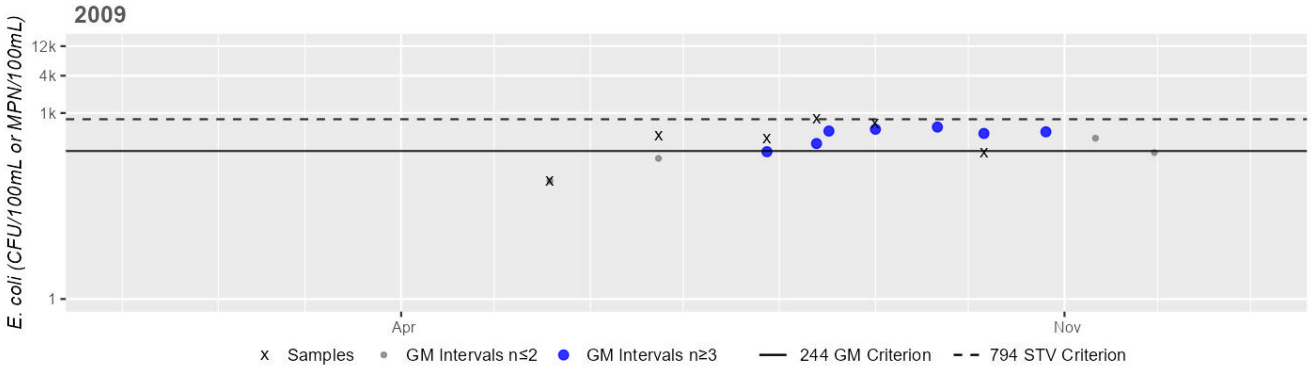
(MassDEP Undated 9) (MassDEP Undated 4)

[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
W1917	MassDEP	E. coli	05/19/09	10/06/09	6	80	800	343

Station MASSDEP_W1917 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	343
#GMI	7
#GMI Ex	6
%GMI Ex	85%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance
Historic (1997-2010)
85%

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

Unnamed Tributary (MA96-128)

Location:	Unnamed tributary to Long Pond, headwaters outlet Wequaquet Lake at dam (NATID# MA02391), Barnstable to mouth at inlet Long Pond, Barnstable.
AU Type:	RIVER
AU Size:	0.3 MILES
Classification/Qualifier:	B

No usable data were available for Unnamed Tributary (MA96-128) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--

Unnamed Tributary (MA96-129)

Location:	Unnamed tributary to Ryder Cove, headwaters outlet Stillwater Pond, Chatham to mouth at inlet Ryder Cove, Chatham.
AU Type:	RIVER
AU Size:	0.2 MILES
Classification/Qualifier:	B: ORW

No usable data were available for Unnamed Tributary (MA96-129) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Habitat Modification - other than Hydromodification (Y)	X	--	--	--	--

Unnamed Tributary (MA96-131)

Location:	Unnamed tributary to Coonamessett River, headwaters outlet Flax Pond, Falmouth to mouth at confluence with Coonamessett River, Falmouth.
AU Type:	RIVER
AU Size:	0.3 MILES
Classification/Qualifier:	B

No usable data were available for Unnamed Tributary (MA96-131) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Unnamed Tributary (MA96-132)

Location:	Unnamed tributary to unnamed tributary to Centerville River, headwaters outlet Lake Elizabeth, Barnstable to salt water portion approximately 125 feet upstream from Prospect Avenue, Barnstable.
AU Type:	RIVER
AU Size:	0.2 MILES
Classification/Qualifier:	B

No usable data were available for Unnamed Tributary (MA96-132) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--
(Fish Passage Barrier*)	Habitat Modification - other than Hydromodification (Y)	X	--	--	--	--

Unnamed Tributary (MA96-134)

Location:	Unnamed tributary (locally known as 'Cold Brook') to Saquatucket Harbor, headwaters outlet Grass Pond, Harwich to mouth at inlet Saquatucket Harbor, Harwich.
AU Type:	RIVER
AU Size:	1.4 MILES
Classification/Qualifier:	B

No usable data were available for Unnamed Tributary (MA96-134) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Unnamed Tributary (MA96-135)

Location:	Unnamed tributary (locally known as 'Skunknett River') to Bumps River, headwaters outlet Lumbert Pond, Barnstable to saltwater portion, Bumps River Road, Barnstable.
AU Type:	RIVER
AU Size:	1 MILES
Classification/Qualifier:	B

No usable data were available for Unnamed Tributary (MA96-135) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

Unnamed Tributary (MA96-97)

Location:	Unnamed tributary to Hyannis Inner Harbor (referred to in TMDL as Inner Harbor Creek), from salt water portion north of Park Avenue, Yarmouth to mouth at inlet Hyannis Inner Harbor, Yarmouth.
AU Type:	ESTUARY
AU Size:	0.001 SQUARE MILES
Classification/Qualifier:	SA: SFO

No usable data were available for Unnamed Tributary (MA96-97) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Nitrogen, Total	64151	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	Impervious Surface/Parking Lot Runoff (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Residential Districts (Y)	X	--	--	--	--	--

Upper Mill Pond (MA96324)

Location:	Brewster.
AU Type:	FRESHWATER LAKE
AU Size:	249 ACRES
Classification/Qualifier:	B

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

Recommendations

2024/26 Recommendations
2024/26IR [Harmful Algal Blooms, Low] Follow-up monitoring should be conducted in Upper Mill Pond (MA96324) to determine if Harmful Algal Blooms may be impairing the Recreational and Aesthetic uses. C-HAB postings for Upper Mill Pond were reported to MDPH based on visual observations for 34 days in 2017, 6 days in 2018, and 12 days in 2019. Monitoring should include observational data and collection of cyanobacteria cell count data, as well as continued reporting of algal blooms to MDPH. This is of low priority.

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 Upper Mill Pond (MA96324) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Insufficient Information	YES

2024/26 Use Attainment Summary
Too limited data are available to assess the Aesthetics Use for Upper Mill Pond (MA96324) so it is assessed as having Insufficient Information. However, an Alert is being identified for Harmful Algal Blooms in this waterbody since C-HAB postings (blooms of >15 days in duration) were reported to MDPH for 2017. During the period 2015 through 2022, C-HAB postings for Upper Mill Pond were reported to MDPH based on visual observations for 34 days in 2017, 6 days in 2018, and 12 days in 2019. 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 in this waterbody and a recommendation for follow-up sampling will be made.

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

C-HAB Summary Statement
During the period 2015 through 2022, C-HAB postings for Upper Mill Pond (MA96324) were reported to MDPH based on visual observations for 34 days in 2017, 6 days in 2018, and 12 days in 2019. 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 2)

[* indicates a C-HAB posting of unknown duration]

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
Upper Mill Pond	Brewster			34	6	12			

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 Upper Mill Pond (MA96324) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information. However, an Alert is being identified for Harmful Algal Blooms in this waterbody since C-HAB postings (blooms of >15 days in duration) were reported to MDPH for 2017. During the period 2015 through 2022, C-HAB postings for Upper Mill Pond were reported to MDPH based on visual observations for 34 days in 2017, 6 days in 2018, and 12 days in 2019. 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 in the current IR window (2011-2022) to assess the Secondary Contact Recreation Use for Upper Mill Pond (MA96324) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information. However, an Alert is being identified for Harmful Algal Blooms in this waterbody since C-HAB postings (blooms of >15 days in duration) were reported to MDPH for 2017. During the period 2015 through 2022, C-HAB postings for Upper Mill Pond were reported to MDPH based on visual observations for 34 days in 2017, 6 days in 2018, and 12 days in 2019. 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. MassDEP staff collected *E. coli* bacteria samples in Upper Mill Pond at W1929 [public boat launch on eastern shore, West off Run Hill Rd, Brewster] from May-Oct 2009 (n=6). Analysis of the historic single year limited frequency dataset from this station indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 12 CFU/100ml, which meets 2024 CALM guidance. However, 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
W1929	MassDEP	Water Quality	Upper Mill Pond	[public boat launch on eastern shore, west off Run Hill Road, Brewster]	41.731226	-70.109993

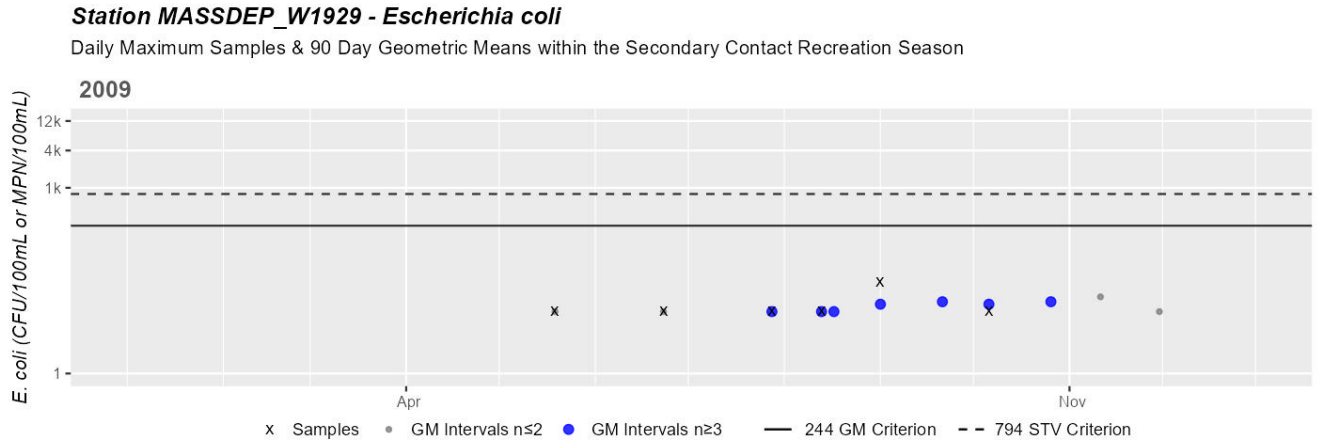
Bacteria Data

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

(MassDEP Undated 9) (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
W1929	MassDEP	E. coli	05/19/09	10/06/09	6	10	30	12



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

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

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

Upper Shawme Lake (MA96326)

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

No usable data were available for Upper Shawme Lake (MA96326) 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	Nutrient/Eutrophication Biological Indicators	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Nutrient/Eutrophication Biological Indicators	Source Unknown (N)	--	--	X	X	X

Village Pond (MA96329)

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

No usable data were available for Village Pond (MA96329) 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

Wakeby Pond (MA96346)

Location:	Mashpee/Sandwich.
AU Type:	FRESHWATER LAKE
AU Size:	353 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	5	Mercury in Fish Tissue	33880	Unchanged
4a	5	PFAS in Fish Tissue	--	Added

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Fish Consumption Use for Wakeby Pond (MA96346) continues to be assessed as Not Supporting. The prior Mercury in Fish Tissue impairment is being carried forward and a new impairment is being added for PFAS in Fish Tissue. Fish toxics sampling was conducted at Wakeby Pond in Mashpee/Sandwich in May 2021 as part of a MDPH pilot study assessing 40 PFAS analytes in fish tissue samples collected on Cape Cod. MDPH issued a site-specific advisory for PFAS in Wakeby Pond (referred to by MDPH as ''Wakeby Pond (Mashpee-Wakeby Pond)'') in their October 2021 Freshwater Fish Consumption Advisory List and retained both this advisory as well as the existing Mercury advisory in the January 2025 list. The public should refer to the most recent MDPH 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 2021)

Summary Statement
Fish toxics sampling was conducted at Wakeby Pond (MA96346) in Mashpee/Sandwich in May 2021 as part of a MDPH pilot study assessing 40 PFAS analytes in fish tissue samples collected on Cape Cod. Because of elevated PFAS measured in fish filets, MDPH issued site-specific fish consumption advisories for Wakeby Pond (referred to by MDPH as Wakeby Pond (Mashpee-Wakeby Pond)) in their October 2021 Freshwater Fish Consumption Advisory List and retained them in the January 2025 list. Additionally, MDPH retained the existing site-specific fish consumption advisories for Mercury associated with Wakeby Pond (referred to by MDPH as Wakeby Pond (Mashpee-Wakeby Pond)) in their January 2025 Freshwater Fish Consumption Advisory List. The site-specific MDPH advisories are indicative of Fish Consumption Use impairments for PFAS in Fish Tissue and Mercury in Fish Tissue for Wakeby Pond (MA96346).

Aesthetic

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
Too limited data are available to assess the Aesthetics Use for Wakeby Pond (MA96346), so it is assessed as having Insufficient Information. During the period 2015 through 2022, C-HAB postings for Wakeby Pond (MDPH name Mashpee-Wakeby Pond) were reported to MDPH based on visual observations for 12 days in 2021 and 7 days in 2022. 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

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

C-HAB Summary Statement
During the period 2015 through 2022, C-HAB postings for Wakeby Pond (MDPH name Mashpee-Wakeby Pond) (MA96346) were reported to MDPH based on visual observations for 12 days in 2021 and 7 days in 2022. 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.

Cyanobacteria Harmful Algal Bloom (C-HAB) Data (2015-2022) Provided by MDPH (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

[* indicates a C-HAB posting of unknown duration]

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
Wakeby Pond (MDPH name Mashpee-Wakeby Pond)	Mashpee							12	7

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 Wakeby Pond (MA96346) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information. During the period 2015 through 2022, C-HAB postings for Wakeby Pond (MDPH name Mashpee-Wakeby Pond) in Mashpee/Sandwich were reported to MDPH based on visual observations for 12 days in 2021 and 7 days in 2022. 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. In addition, MDPH contractors conducted surface water sampling at Wakeby Pond in May 2021 as part of a pilot study assessing 40 PFAS analytes in surface water and fish tissue samples collected from waterbodies on Cape Cod. In this study, MDPH evaluated four PFAS compounds (PFHxS, PFNA, PFOA, PFOS) individually against a candidate Surface Water Action Level (cSWAL) of 23 ng/L (ppt). All four compounds had concentrations less than the cSWAL, with the maximum being 0.757 ng/L of PFOA.

Other Indicators

Summary of MDPH 2021 and 2022 PFAS in Water Column Data

Data Sources: (Nascarella 2021, MA DPH 2021)

MDPH contractors conducted surface water sampling at Wakeby Pond (MA96346) in Mashpee/Sandwich in May 2021 as part of a pilot study assessing 40 PFAS analytes in surface water and fish tissue samples collected from waterbodies on Cape Cod. In this study, MDPH evaluated four PFAS compounds (PFHxS, PFNA, PFOA, PFOS) individually against a candidate Surface Water Action Level (cSWAL) of 23 ng/L (ppt). All four compounds had concentrations less than the cSWAL, with the maximum being 0.757 ng/L of PFOA.

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 Wakeby Pond (MA96346) and available other indicators for this AU did not result in any impairment, so it is assessed as having Insufficient Information. During the period 2015 through 2022, C-HAB postings for Wakeby Pond (MDPH name Mashpee-Wakeby Pond) were reported to MDPH based on visual observations for 12 days in 2021 and 7 days in 2022. 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.

Walkers Pond (MA96331)

Location:	Brewster.
AU Type:	FRESHWATER LAKE
AU Size:	100 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Algae	--	Unchanged
5	5	Chlorophyll-a	--	Unchanged
5	5	Harmful Algal Blooms	--	Unchanged
5	5	Nutrient/Eutrophication Biological Indicators	--	Unchanged
5	5	Phosphorus, Total	--	Unchanged
5	5	Transparency / Clarity	--	Unchanged
5	5	Turbidity	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Algae	Agriculture (N)	X	--	X	X	X
Algae	Source Unknown (N)	X	--	X	X	X
Chlorophyll-a	Agriculture (N)	--	--	X	X	X
Chlorophyll-a	Source Unknown (N)	--	--	X	X	X
Harmful Algal Blooms	Agriculture (N)	--	--	X	X	X
Harmful Algal Blooms	Source Unknown (N)	--	--	X	X	X
Nutrient/Eutrophication Biological Indicators	Source Unknown (N)	X	--	--	--	--
Phosphorus, Total	Agriculture (N)	X	--	--	--	--
Phosphorus, Total	Source Unknown (N)	X	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Transparency / Clarity	Agriculture (N)	--	--	--	X	--
Transparency / Clarity	Source Unknown (N)	--	--	--	X	--
Turbidity	Agriculture (N)	X	--	X	X	X
Turbidity	Source Unknown (N)	X	--	X	X	X

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Walkers Pond (MA96331) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Walkers Pond (MA96331) continues to be assessed as Not Supporting with the Harmful Algal Blooms impairment being carried forward, because C-HAB postings were reported to MDPH in 2017, 2020 and 2022. The Chlorophyll-a, Algae and Turbidity impairments are also being carried forward. Since the prior Transparency/Clarity impairment was redundantly duplicated across multiple uses for this waterbody, the Transparency/Clarity impairment is being removed from the Aesthetics Use but will continue to be maintained under the Primary Contact Recreation Use. Since the Total Phosphorus impairment was redundantly duplicated across multiple uses for this waterbody, the Total Phosphorus impairment is being removed from the Aesthetics Use, but will continue to be maintained under the Aquatic Life Use. During the period 2015 through 2022, C-HAB postings for Walkers Pond were reported to MDPH based on visual observations for 64 days in 2017, 16 days in 2020, and 122 days in 2022. No blooms were reported in other years. Since blooms were reported in recent years this is reflective of the existing Harmful Algal Bloom impairment.

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

C-HAB Summary Statement
During the period 2015 through 2022, C-HAB postings for Walkers Pond (MA96331) were reported to MDPH based on visual observations for 64 days in 2017, 16 days in 2020, and 122 days in 2022. No blooms were reported in other years. Since blooms were reported in recent years, a 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.

Cyanobacteria Harmful Algal Bloom (C-HAB) Data (2015-2022) Provided by MDPH (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

[* indicates a C-HAB posting of unknown duration]

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
Walkers Pond	Brewster			64			16		122

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Walkers Pond (MA96331) 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. The prior Transparency / Clarity impairment is being carried forward and the prior Algae, Chlorophyll-a, and Turbidity impairments (from the Aesthetics Use) are being carried forward. Since the Total Phosphorus impairment is being removed from the Aesthetics Use this cycle, this impairment is also being removed from the Primary Contact Recreation Use. During the period 2015 through 2022, C-HAB postings for Walkers Pond (MA96331) were reported to MDPH based on visual observations for 64 days in 2017, 16 days in 2020, and 122 days in 2022. No blooms were reported in other years. Since blooms were reported in recent years, a prior Harmful Algal Bloom impairment is being carried forward and the C-HAB data continues to be indicative of a Harmful Algal Bloom impairment.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Walkers Pond (MA96331) 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. The prior Algae, Chlorophyll-a, and Turbidity impairments (from the Aesthetics Use) are being carried forward. Since the Total Phosphorus and Transparency / Clarity impairments are being removed from the Aesthetics Use this cycle, these impairments are also being removed from the Secondary Contact Recreation Use. During the period 2015 through 2022, C-HAB postings for Walkers Pond (MA96331) were reported to MDPH based on visual observations for 64 days in 2017, 16 days in 2020, and 122 days in 2022. No blooms were reported in other years. Since blooms were reported in recent years, a prior Harmful Algal Bloom impairment is being carried forward and the C-HAB data continues to be indicative of a Harmful Algal Bloom impairment. MassDEP staff collected E. coli bacteria samples in Walkers Pond (MA96331) at W1930 [public boat launch on southwestern shore, E off Slough Rd, Brewster] from May-Oct 2009 (n=6). Historic E. coli data from W1930 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
W1930	MassDEP	Water Quality	Walkers Pond	[public boat launch on southwestern shore, east off Slough Road, Brewster]	41.720154	-70.131679

Bacteria Data

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

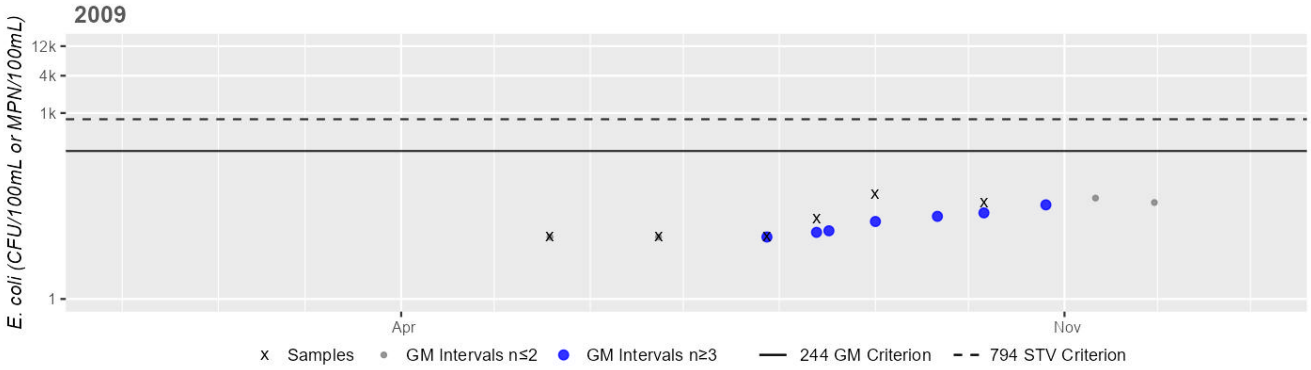
(MassDEP Undated 9) (MassDEP Undated 4)

[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
W1930	MassDEP	E. coli	05/19/09	10/06/09	6	10	50	18

Station MASSDEP_W1930 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	18
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Waquoit Bay (MA96-21)

Location:	From mouths of Seapit River, Quashnet River (also known as Moonakis River), Falmouth and Great River, Mashpee to inlet of Vineyard Sound, Falmouth/Mashpee.
AU Type:	ESTUARY
AU Size:	1.43 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Dissolved Oxygen	R1_MA_2020_08	Unchanged
4a	4a	Estuarine Bioassessments	R1_MA_2020_08	Unchanged
4a	4a	Fecal Coliform	36772	Added
4a	4a	Nitrogen, Total	R1_MA_2020_08	Unchanged
4a	4a	Nutrient/Eutrophication Biological Indicators	R1_MA_2020_08	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Dissolved Oxygen	Agriculture (Y)	X	--	--	--	--	--
Dissolved Oxygen	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Dissolved Oxygen	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Dissolved Oxygen	Yard Maintenance (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Agriculture (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--
Nitrogen, Total	Agriculture (Y)	X	--	--	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Agriculture (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Waquoit Bay (MA96-21) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Waquoit Bay (MA96-21): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 1.4154 sq mi (99%). The approved shellfish growing area represents 1.2565 sq mi (88%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications, a Fecal Coliform impairment is being added.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC15.0	Waquoit Bay	Approved	1.25470	88.0%
SC15.1	North of Waquoit Bay Yacht Club	Approved	0.00169	0.1%
SC15.3	Northern Waquoit Bay Mooring Area	Conditionally Approved	0.15897	11.2%
SC16.0	Little River and Hamblin Pond	Approved	0.00000	0.0%
SC17.0		Approved	0.00007	0.0%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Waquoit Bay (MA96-21) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Waquoit Bay (MA96-21) continues to be assessed as Fully Supporting based on MDPH Beach Closure data. Waquoit Bay has 2 beaches with MDPH Beach Closure data: Callies Beach [Beach ID: 2962] and Seconsett Island Causeway [Beach ID: 2963] beaches in Mashpee. Both these beaches were rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (1.4154 sq mi) in this AU are less than 100% approved (1.2565 sq mi, 88%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Waquoit Bay.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
2962	Callies Beach/ Mashpee	41.55823, -70.51520	41.55378, -70.51570	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
2963	Seconsett Island Causeway/ Mashpee	41.56747, -70.51460	41.56709, -70.51430	0%	0%	0%	0%	0%	0%	0%	0%	2%	0

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Waquoit Bay (MA96-21): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 1.4154 sq mi (99%). The approved shellfish growing area represents 1.2565 sq mi (88%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Waquoit Bay (MA96-21) continues to be assessed as Fully Supporting based on MDPH Beach Closure data. Waquoit Bay has 2 beaches with DPH Beach Closure data: Callies Beach [Beach ID: 2962] and Seconsett Island Causeway [Beach ID: 2963] beaches in Mashpee. Both these beaches were rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (1.4154 sq mi) in this AU are less than 100% approved (1.2565 sq mi, 88%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Waquoit Bay.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Waquoit Bay (MA96-21): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 1.4154 sq mi (99%). The approved shellfish growing area represents 1.2565 sq mi (88%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Weir Creek (MA96-116)

Location:	Headwaters, outlet Mill Pond, Yarmouth to mouth at confluence with Muddy Creek, Yarmouth.
AU Type:	ESTUARY
AU Size:	0.02 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Nitrogen, Total	68003	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Weir Creek (MA96-116) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
Weir Creek (MA96-116): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0164 sq mi (93%). The approved shellfish growing area represents 0 sq mi (0%) and the prohibited shellfish growing area represents 0.0164 sq mi (93%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as entirely prohibited.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC35.6	Muddy And Weir Creek	Prohibited	0.01643	93.1%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Weir Creek (MA96-116) 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 Weir Creek (MA96-116) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0164 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Weir Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Weir Creek (MA96-116): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0164 sq mi (93%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Weir Creek (MA96-116) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0164 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Weir Creek.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Weir Creek (MA96-116): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0164 sq mi (93%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Wellfleet Harbor (MA96-34)

Location:	The waters north of an imaginary line drawn east from the southern tip of Jeremy Point, Wellfleet to Sunken Meadow, Eastham excluding the estuaries of Herring River, Duck Creek, Blackfish Creek, and Fresh Brook, Wellfleet (area within Cape Cod National Seashore designated as ORW).
AU Type:	ESTUARY
AU Size:	9.16 SQUARE MILES
Classification/Qualifier:	SA: ORW, SFO ('ORW' applies only to portion in Cape Cod National Seashore)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	4a	Nitrogen, Total	R1_MA_2024_01	Changed
5	4a	Nutrient/Eutrophication Biological Indicators	R1_MA_2024_01	Changed

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	Golf Courses (Y)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Rural (Residential Areas) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Golf Courses (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nutrient/Eutrophication Biological Indicators	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Rural (Residential Areas) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Yard Maintenance (Y)	X	--	--	--	--	--

Supporting Information for Removed Impairments

2022 Removed Impairment	Removal Reason	Removal Comment
Nitrogen, Total	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: Wellfleet Harbor Embayment System TMDL for Total Nitrogen (Report CN 447.1, approved 9/29/2023, ATTAINS Action ID: R1_MA_2024_01)
Nutrient/Eutrophication Biological Indicators	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: Wellfleet Harbor Embayment System TMDL for Total Nitrogen (Report CN 447.1, approved 9/29/2023, ATTAINS Action ID: R1_MA_2024_01)

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 Wellfleet Harbor (MA96-34) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
Wellfleet Harbor (MA96-34): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 9.0348 sq mi (99%) and the approved shellfish growing area represents 8.9934 sq mi (98%). The Shellfish Harvesting Use is assessed as Fully Supporting because the growing area (normalized to the AU area) is classified as 100% approved.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
CCB10.0	Hatches Creek	Prohibited	0.00049	0.0%
CCB11.0	Wellfleet Harbor	Approved	7.26839	79.3%
CCB12.1	Herring River	Conditionally Approved	0.01147	0.1%
CCB13.0	Wellfleet Inner Harbor	Approved	0.18883	2.1%
CCB13.3	Wellfleet Boat Ramp	Conditionally Approved	0.00006	0.0%
CCB13.6	Chipman's Cove Mooring Area	Conditionally Approved	0.02935	0.3%
CCB14.0	Loagy Bay, Drummer Cove & Blackfish Creek	Approved	0.61005	6.7%
CCB8.0	Wellfleet West Coastal	Approved	0.00455	0.0%
CCB9.0	Eastham Coastal	Approved	0.92158	10.1%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Wellfleet Harbor (MA96-34) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Wellfleet Harbor (MA96-34) continues to be assessed as Fully Supporting based on MDPH Beach Closure data and shellfish growing area classifications data. Wellfleet Harbor has 6 beaches with MDPH Beach Closure data: Burton Baker [Beach ID: 5154], Mayo [Beach ID: 5149], Chequesset Yacht and Country Club [Beach ID: 5153], Indian Neck [Beach ID: 5152], Omaha Road [Beach ID: 5148] and Powers Landing [Beach ID: 5147] beaches in Wellfleet. All the beaches were rarely, if at all, posted for swimming from 2018-2022. In addition the shellfish growing areas (9.0347 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Primary Contact Recreation Use of Wellfleet Harbor.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
5147	Powers Landing/ Wellfleet	41.92981, -70.04890	41.92997, -70.04800	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
5148	Omaha Road/ Wellfleet	41.91438, -70.02770	41.91352, -70.02670	0%	0%	0%	0%	0%	0%	0%	0%	2%	0
5149	Mayo/ Wellfleet	41.93038, -70.03460	41.92915, -70.03070	0%	0%	0%	1%	0%	0%	0%	0%	0%	0
5152	Indian Neck/ Wellfleet	41.92491, -70.03390	41.92127, -70.03210	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
5153	Chequesset Yacht and Country Club/ Wellfleet	41.92888, -70.05290	41.92924, -70.05140	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
5154	Burton Baker/ Wellfleet	41.91838, -70.03120	41.91821, -70.03090	0%	0%	0%	0%	0%	1%	0%	0%	0%	0

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Wellfleet Harbor (MA96-34): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 9.0348 sq mi (99%). The approved shellfish growing area represents 8.9934 sq mi (98%). The Primary Contact Recreational Use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Wellfleet Harbor (MA96-34) continues to be assessed as Fully Supporting based on MDPH Beach Closure data and shellfish growing area classifications data. Wellfleet Harbor has 6 beaches with DPH Beach Closure data: Burton Baker [Beach ID: 5154], Mayo [Beach ID: 5149], Chequesset Yacht and Country Club [Beach ID: 5153], Indian Neck [Beach ID: 5152], Omaha Road [Beach ID: 5148] and Powers Landing [Beach ID: 5147] beaches in Wellfleet. All these beaches were rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (9.0347 sq mi) in this AU are 100% approved and are indicative of Fully Supporting conditions for the Secondary Contact Recreation Use of Wellfleet Harbor.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Wellfleet Harbor (MA96-34): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 9.0348 sq mi (99%). The approved shellfish growing area represents 8.9934 sq mi (98%). The Secondary Contact Recreational use is assessed as fully supporting because the growing area (normalized to the AU area) is classified as 100% approved, unless other data are available that contradict this use attainment decision.

Wequaquet Lake (MA96333)

Location:	Barnstable.
AU Type:	FRESHWATER LAKE
AU Size:	577 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	(Fanwort*)	--	Unchanged
4a	4a	(Fish Passage Barrier*)	--	Unchanged
4a	4a	Mercury in Fish Tissue	33880	Unchanged

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

Recommendations

2024/26 Recommendations
2024/26IR [Harmful Algal Blooms, Low] Follow-up monitoring should be conducted in Wequaquet Lake (MA96333) to determine if Harmful Algal Blooms may be impairing the Recreational and Aesthetic uses. C-HAB postings for Wequaquet Lake were reported to MDPH based on visual observations for 23 days in 2019. Monitoring should include observational data and collection of cyanobacteria cell count data, as well as continued reporting of algal blooms to MDPH. This is of low priority;

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Wequaquet Lake (MA96333) 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 Wequaquet Lake (MA96333) at station F0090 in 2020 as part of the MassDEP Office of Research and Standards Mercury Initiative. MDPH included a site-specific advisory for Wequaquet Lake in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent MDPH 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 7)

Summary Statement
Fish toxics sampling was conducted in Wequaquet Lake (MA96333) at station F0090 in 2020 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 Wequaquet Lake in their January 2025 Freshwater Fish Consumption Advisory List. The site-specific MDPH advisories are indicative of a Fish Consumption Use impairment for Mercury in Fish Tissue for Wequaquet Lake (MA96333).

Aesthetic

2024/26 Use Attainment	Alert
Insufficient Information	YES

2024/26 Use Attainment Summary

Too limited data are available to assess the Aesthetics Use for Wequaquet Lake (MA96333) so it is assessed as having Insufficient Information. An Alert is being identified for Harmful Algal Blooms in this waterbody since C-HAB postings (blooms of >15 days in duration) were reported to MDPH for 2019. During the period 2015 through 2022, C-HAB postings for Wequaquet Lake were reported to MDPH based on visual observations for 23 days in 2019 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 in this waterbody and a recommendation for follow-up sampling will be made.

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

C-HAB Summary Statement
During the period 2015 through 2022, C-HAB postings for Wequaquet Lake (MA96333) were reported to MDPH based on visual observations for 23 days in 2019. 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 2)

[* indicates a C-HAB posting of unknown duration]

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
Wequaquet Lake	Barnstable					23			

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 Wequaquet Lake (MA96333) 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 Blooms in this waterbody since C-HAB postings (blooms of >15 days in duration) were reported to MDPH for 2019. During the period 2015 through 2022, C-HAB postings for Wequaquet Lake were reported to MDPH based on visual observations for 23 days in 2019. 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 Wequaquet Lake (MA96333) 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 Blooms in this waterbody since C-HAB postings (blooms of >15 days in duration) were reported to MDPH for 2019. During the period 2015 through 2022, C-HAB postings for Wequaquet Lake were reported to MDPH based on visual observations for 23 days in 2019. 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 Blooms Alert is being identified for this waterbody and a recommendation for follow-up sampling will be made

West Bay (MA96-65)

Location:	From south of the Bridge Street bridge, Barnstable outlet to Nantucket Sound including Eel River (SARIS# 9662625), Barnstable (excludes delineated segment Seapuit River).
AU Type:	ESTUARY
AU Size:	0.52 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	5	Estuarine Bioassessments	33989	Unchanged
4a	5	Fecal Coliform	--	Added

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Estuarine Bioassessments	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Golf Courses (Y)	X	--	--	--	--	--
Estuarine Bioassessments	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Estuarine Bioassessments	Yard Maintenance (Y)	X	--	--	--	--	--
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for West Bay (MA96-65) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
West Bay (MA96-65): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.5146 sq mi (99%). The approved shellfish growing area represents 0.4784 sq mi (92%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications, a Fecal Coliform impairment is being added.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC18.0	Barnstable South Coastal	Approved	0.00013	0.0%
SC21.7	Seapuit River	Approved	0.00002	0.0%
SC22.0	West Bay	Approved	0.47824	92.1%
SC22.1	Windmill Marsh	Prohibited	0.00089	0.2%
SC22.2	Bridge Street Mooring Area	Conditionally Approved	0.03531	6.8%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for West Bay (MA96-65) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for West Bay (MA96-65) continues to be assessed as Fully Supporting based on MDPH Beach Closure data. MDPH Beach Closure data indicated that Wianno Club (Salt-107 Seaview) beach in Barnstable [Beach ID: 2608] was rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (0.5146 sq mi) in this AU are less than 100% approved (0.4784 sq mi, 92%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for West Bay.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
2608	Wianno Club (Salt-107 Seaview)/ Barnstable	41.62198, -70.39560	41.62174, -70.39480	0%	0%	0%	0%	0%	0%	0%	0%	0%	0

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
West Bay (MA96-65): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.5146 sq mi (99%). The approved shellfish growing area represents 0.4784 sq mi (92%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for West Bay (MA96-65) continues to be assessed as Fully Supporting based on MDPH Beach Closure data. MDPH Beach Closure data indicated that Wianno Club (Salt-107 Seaview) beach in Barnstable [Beach ID: 2608] was rarely, if at all, posted for swimming from 2018-2022. The shellfish growing areas (0.5146 sq mi) in this AU are less than 100% approved (0.4784 sq mi, 92%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for West Bay.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
West Bay (MA96-65): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.5146 sq mi (99%). The approved shellfish growing area represents 0.4784 sq mi (92%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

White Pond (MA96338)

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

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

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Fish Consumption Use for White Pond (MA96338) is assessed as Not Supporting with a new impairment being added for Mercury in Fish Tissue. Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in White Pond at station F0468 in 2018 as part of the probabilistic lake surveys (MAP2). MDPH issued a site-specific advisory for Mercury in White Pond in their July 2019 Freshwater Fish Consumption Advisory List and retained it in the January 2025 list. The public should refer to the most recent MDPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations. The likely source of Mercury, although not confirmed, is atmospheric deposition.

Fish Consumption Advisories

Summary of Fish Toxics Sampling and Resulting Fish Consumption Advisories (MA DPH 2025) (MassDEP Undated 7)

Summary Statement
Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in White Pond (MA96338) at station F0468 in 2018 as part of the probabilistic lake surveys (MAP2). Because of elevated Mercury measured in fish filets, MDPH issued site-specific fish consumption advisories for White Pond in their July 2019 Freshwater Fish Consumption Advisory List and retained them in the January 2025 list. The site-specific MDPH advisories are indicative of a Fish Consumption Use impairment for Mercury in Fish Tissue for White Pond (MA96338).

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for White Pond (MA96338) is assessed as Fully Supporting based on observations made by MassDEP field staff during a macrophyte survey in 2018. MassDEP staff recorded aesthetics observations as part of the MAP2 lake monitoring project in summer 2018 at two stations in Dennis/Harwich for White Pond, at the southeastern edge of pond, north off Old Chatham Road (W2813/MAP2L-315S, n=5) and at the deep hole index station (W2812/MAP2L-315, n=3). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, or littoral zone duckweed recorded in ten shoreline plots at W2813 (n=1); though field staff noted green water color on one occasion at the index station and minor trash deposits on two occasions at the shoreline station. During the MAP2 macrophyte mapping survey (n=1) in Aug 2018, less than 25% (1.8%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2812	MassDEP	Water Quality	White Pond	[index site, Dennis/Harwich]	41.702422	-70.132742
W2813	MassDEP	Water Quality	White Pond	[southeastern edge of pond, north off Old Chatham Road, Harwich]	41.701645	-70.131946

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2812	2018	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2812 (MAP2L-315) on White Pond (MA96338) during 3 site visits between Jun 2018 and Sep 2018. 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 2018, less than 25% (1.8%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%.
W2813	2018	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2813 (MAP2L-315S) on White Pond (MA96338) during 5 site visits between May 2018 and Sep 2018. 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 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2812	White Pond	2018	Aesthetics Impaired?	No	3	3
W2812	White Pond	2018	Aquatic Plant Density, Overall	None	3	3
W2812	White Pond	2018	Color	Greenish	1	3
W2812	White Pond	2018	Color	None	2	3
W2812	White Pond	2018	Objectionable Deposits	No	3	3
W2812	White Pond	2018	Odor	None	3	3
W2812	White Pond	2018	Scum	No	3	3
W2812	White Pond	2018	Turbidity	None	3	3
W2813	White Pond	2018	Aesthetics Impaired?	No	5	5
W2813	White Pond	2018	Color	None	4	5
W2813	White Pond	2018	Color	NR	1	5
W2813	White Pond	2018	Objectionable Deposits	No	3	5
W2813	White Pond	2018	Objectionable Deposits	Yes	2	5

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2813	White Pond	2018	Odor	Musty (Basement)	1	5
W2813	White Pond	2018	Odor	None	4	5
W2813	White Pond	2018	Scum	No	5	5
W2813	White Pond	2018	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 White Pond (MA96338) is assessed as Fully Supporting based on bacteria data collected at one station by MassDEP staff in 2018. In 2018 MassDEP staff collected Secchi depth and cyanobacteria cell count data at station W2812 [MAP2L-315, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at station W2813 [MAP2L-315S, Shoreline at southeastern edge of pond, North off Old Chatham Rd, Harwich]. At station W2812 (station depth=8.6 m) the Secchi depth measurements ranged from 5.7-6.3 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 W2813 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. MassDEP staff collected *E. coli* bacteria samples in White Pond at station W2813 from May-Sep 2018 (n=5). Analysis of the single year limited frequency dataset from this station indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV and the seasonal GM was 1 CFU/100ml, which meets 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2812	MassDEP	Water Quality	White Pond	[index site, Dennis/Harwich]	41.702422	-70.132742
W2813	MassDEP	Water Quality	White Pond	[southeastern edge of pond, north off Old Chatham Road, Harwich]	41.701645	-70.131946

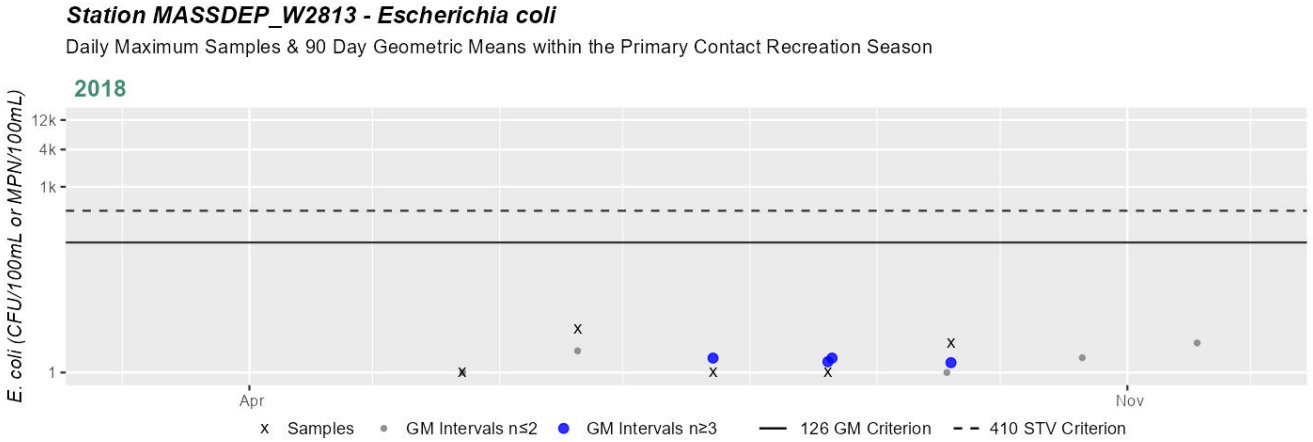
Bacteria Data

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

(MassDEP Undated 9) (MassDEP Undated 5)

[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
W2813	MassDEP	E. coli	05/23/18	09/19/18	5	1	5	1



Variable*	Result
Samples	5
SeasGM	1
#GMI	4
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Other Indicators

Summary Statement for 2011-2022 Cyanobacteria Cell Count and Cyanotoxin Data, and Secchi Depth Data (MassDEP Undated 9) (MassDEP Undated 5)

Data Year(s)	Summary
2018	In White Pond (MA96338) in 2018, MassDEP collected Secchi and cyanobacteria cell count data at W2812 [MAP2L-315, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at W2813 [MAP2L-315S, Shoreline]. At station W2812 (station depth=8.6 m) the Secchi depth measurements ranged from 5.7-6.3 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 W2813 (n=6) 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 9) (MassDEP Undated 5)

Station Code	Waterbody	Station Type	Data Year	Sample Count	Count >70,000 cells/mL	Exceedance Date(s)
W2812	White Pond	Index	2018	3	0	NA
W2813	White Pond	Shoreline	2018	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 White Pond (MA96338) is assessed as Fully Supporting based on a re-evaluation of bacteria data collected at one station by MassDEP staff in 2018. In 2018 MassDEP staff collected cyanobacteria cell count data at station W2812 [MAP2L-315, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at station W2813 [MAP2L-315S, Shoreline at southeastern edge of pond, North off Old Chatham Rd, Harwich]. 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 W2813 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. MassDEP staff collected *E. coli* bacteria samples in White Pond at W2813 from May-Sep 2018 (n=5). Analysis of the single year limited frequency dataset from this station indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV and the overall GM was 1 CFU/100ml, which meets 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2813	MassDEP	Water Quality	White Pond	[southeastern edge of pond, north off Old Chatham Road, Harwich]	41.701645	-70.131946

Bacteria Data

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

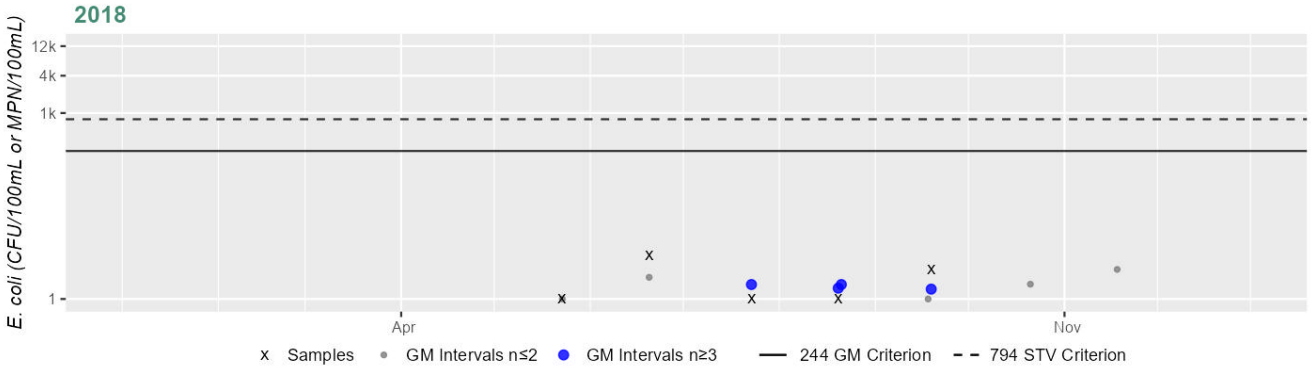
(MassDEP Undated 9) (MassDEP Undated 4)

[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
W2813	MassDEP	E. coli	05/23/18	09/19/18	5	1	5	1

Station MASSDEP_W2813 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	1
#GMI	4
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

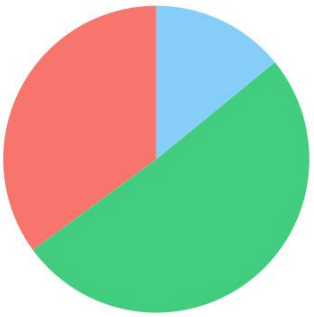
**Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exeedances; %GMI Ex = % GMI Exeedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes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

Whites Brook (MA96-102)

Location:	Headwaters in channelized wetland south of Route 6A, Yarmouth to confluence with tidal portion north of Route 6A, Yarmouth.
AU Type:	RIVER
AU Size:	0.3 MILES
Classification/Qualifier:	B

Whites Brook (MA96-102)

Watershed Area: 0.47 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	0.47	0.47	0.11	0.11
Agriculture	0%	0%	0%	0%
Developed	35.1%	35.1%	13.4%	13.4%
Natural	50.8%	50.8%	35.9%	35.9%
Wetland	14.1%	14.1%	50.6%	50.6%
Impervious	19.3%	19.3%	7%	7%

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 Whites Brook (MA96-102) 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 Whites Brook (MA96-102) 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 Whites Brook (MA96-102) 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.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Whites Brook (MA96-102) 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 at the upstream end of Whites Brook at station W1924 [Rt. 6A, Yarmouth] from May-Oct 2009 (n=6). Analysis of the historic single year limited frequency dataset from this station indicated 57% of intervals had GMs >244 CFU/100ml, 2 samples exceeded the 794 CFU/100ml STV (maximum 2,200 CFU) and the overall GM was 199 CFU/100ml. Historic *E. coli* data from W1924 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
W1924	MassDEP	Water Quality	Whites Brook	[Route 6A, Yarmouth]	41.704873	-70.223727

Bacteria Data

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

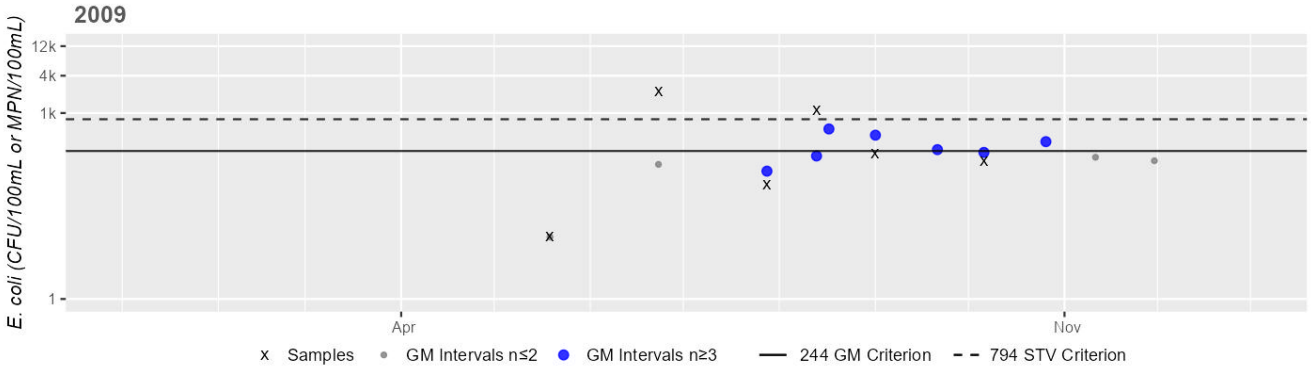
(MassDEP Undated 9) (MassDEP Undated 4)

[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
W1924	MassDEP	E. coli	05/19/09	10/06/09	6	10	2200	199

Station MASSDEP_W1924 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	199
#GMI	7
#GMI Ex	4
%GMI Ex	57%
n>STV	2
%n>STV	33%

Cumulative %GMI Exceedance
Historic (1997-2010)
57%

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

Williams Pond (MA96341)

Location:	Wellfleet.
AU Type:	FRESHWATER LAKE
AU Size:	8 ACRES
Classification/Qualifier:	B: ORW

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
--	4c	(Aquatic Plants (Macrophytes)*)	--	Added

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
There is Insufficient Information to assess the Fish Consumption Use for Williams Pond (MA96341). Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in Williams Pond (MA96341) at station F0452 in 2018 as part of the probabilistic lake surveys (MAP2). However, no site-specific fish consumption advisory was issued by MDPH.

Fish Consumption Advisories

Summary of Fish Toxics Sampling and Resulting Fish Consumption Advisories (MassDEP Undated 7)

Summary Statement
Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in Williams Pond (MA96341) at station F0452 in 2018 as part of the probabilistic lake surveys (MAP2). No site-specific fish consumption advisory was issued by MDPH.

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Williams Pond (MA96341) is assessed as Not Supporting with an impairment for Aquatic Plants (Macrophytes) being added, based on observations made by MassDEP field staff during a macrophyte survey in 2018. MassDEP staff recorded aesthetics observations as part of the MAP2 lake monitoring project in summer 2018 at two stations in Wellfleet for Williams Pond; at the northeastern edge of pond (W2815/MAP2L-264S, n=5) and at the deep hole index station (W2814/MAP2L-264, n=3). While there were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, or littoral zone duckweed recorded in ten shoreline plots at W2815 (n=1), field staff noted highly turbid water at the index station in August with dense and very dense coverage of Aquatic Plants at the index station in July and August. Also, during the MAP2 macrophyte mapping survey in July (n=1), greater than 25% (73.5%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2814	MassDEP	Water Quality	Williams Pond	[index site, Wellfleet]	41.964105	-70.007719
W2815	MassDEP	Water Quality	Williams Pond	[northeastern edge of pond, Wellfleet]	41.965345	-70.007574

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2814	2018	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2814 (MAP2L-264) on Williams Pond (MA96341) during 3 site visits between Jun 2018 and Aug 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted high turbidity (n=1), dense/very dense aquatic plants (n=2), and dense/very dense plant cover on the waterbody surface (n=1). During the MAP2 macrophyte mapping survey (n=1) in Jul 2018, greater than 25% (73.5%) 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.
W2815	2018	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2815 (MAP2L-264S) on Williams Pond (MA96341) during 5 site visits between May 2018 and Sep 2018. 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 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2814	Williams Pond	2018	Aesthetics Impaired?	No	3	3
W2814	Williams Pond	2018	Aquatic Plant Density, Overall	Dense	1	3
W2814	Williams Pond	2018	Aquatic Plant Density, Overall	Sparse	1	3
W2814	Williams Pond	2018	Aquatic Plant Density, Overall	Very Dense	1	3
W2814	Williams Pond	2018	Aquatic Plant Density, Whole Lake	Very Dense	1	1
W2814	Williams Pond	2018	Color	Light Yellow/Tan	2	3
W2814	Williams Pond	2018	Color	Reddish	1	3
W2814	Williams Pond	2018	Duckweed Density, Whole Lake	None	1	1
W2814	Williams Pond	2018	Objectionable Deposits	No	3	3
W2814	Williams Pond	2018	Odor	None	3	3
W2814	Williams Pond	2018	Scum	No	3	3
W2814	Williams Pond	2018	Turbidity	Highly Turbid	1	3
W2814	Williams Pond	2018	Turbidity	None	1	3
W2814	Williams Pond	2018	Turbidity	Slightly Turbid	1	3
W2815	Williams Pond	2018	Aesthetics Impaired?	No	5	5
W2815	Williams Pond	2018	Color	Light Yellow/Tan	3	5
W2815	Williams Pond	2018	Color	None	2	5
W2815	Williams Pond	2018	Objectionable Deposits	No	5	5
W2815	Williams Pond	2018	Odor	Musty (Basement)	1	5
W2815	Williams Pond	2018	Odor	None	4	5

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2815	Williams Pond	2018	Scum	No	3	5
W2815	Williams Pond	2018	Scum	Yes	2	5
W2815	Williams Pond	2018	Turbidity	None	3	5
W2815	Williams Pond	2018	Turbidity	Slightly Turbid	2	5

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Williams Pond (MA96341) is assessed as Not Supporting. An Aquatic Plants (Macrophytes) impairment is being added (from the Aesthetics Use). In 2018 MassDEP staff collected Secchi depth and cyanobacteria cell count data at station W2814 [MAP2L-264, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at station W2815 [MAP2L-264S, Shoreline at northeastern edge of pond, Wellfleet]. At station W2814 (station depth=1.9 m) the Secchi depth measurements ranged from 0.85-1.8 m (n=3), with 1 measurement taken on Aug 29, 2018 that was less than the 1.2 m (4 ft) threshold; overall however, this data are generally indicative of water clarity meeting the 1.2m (4ft) 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 W2815 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. MassDEP staff collected *E. coli* bacteria samples in Williams Pond at station W2815 from May-Sep 2018 (n=5). Analysis of the single year limited frequency dataset from this station indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV and the seasonal GM was 1 CFU/100ml, which meets 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2814	MassDEP	Water Quality	Williams Pond	[index site, Wellfleet]	41.964105	-70.007719
W2815	MassDEP	Water Quality	Williams Pond	[northeastern edge of pond, Wellfleet]	41.965345	-70.007574

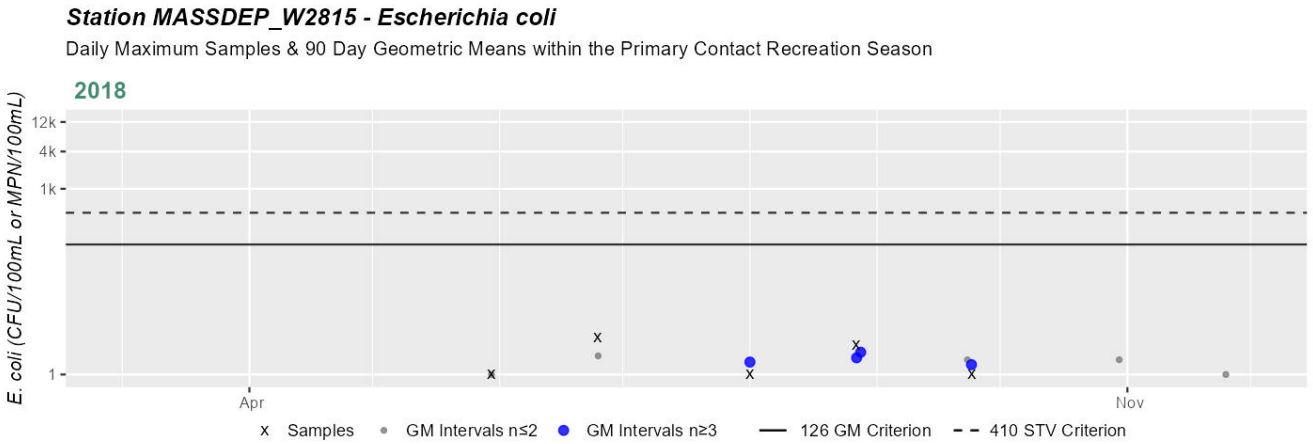
Bacteria Data

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

(MassDEP Undated 9) (MassDEP Undated 5)

[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
W2815	MassDEP	E. coli	05/30/18	09/24/18	5	1	4	1



Variable*	Result
Samples	5
SeasGM	1
#GMI	4
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Other Indicators

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

(MassDEP Undated 9) (MassDEP Undated 5)

Data Year(s)	Summary
2018	In Williams Pond (MA96341) in 2018, MassDEP collected Secchi depth and cyanobacteria cell count data at W2814 [MAP2L-264, Index-deep hole] and cyanobacteria cell count and cyanotoxin data at W2815 [MAP2L-264S, Shoreline]. At station W2814 (station depth=1.9 m) the Secchi depth measurements ranged from 0.85-1.8 m (n=3) with 1 measurement taken on Aug 29, 2018 that was less than 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 W2815 (n=6) 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 9) (MassDEP Undated 5)

Station Code	Waterbody	Station Type	Data Year	Sample Count	Count >70,000 cells/mL	Exceedance Date(s)
W2814	Williams Pond	Index	2018	3	0	NA
W2815	Williams Pond	Shoreline	2018	3	0	NA

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Williams Pond (MA96341) is assessed as Not Supporting. An Aquatic Plants (Macrophytes) impairment is being added (from the Aesthetics Use). In 2018 MassDEP collected cyanobacteria cell count data at station W2814 [MAP2L-264, Index-deep hole] (2018) and cyanobacteria cell count and cyanotoxins data at station W2815 [MAP2L-264S, Shoreline at northeastern edge of pond, Wellfleet]. The cyanobacteria cell count did not exceed 70,000 cells/ml in any of the water samples in 2018 (n=6). Analysis of microcystins and cylindrospermopsin samples from W2815 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. MassDEP staff collected *E. coli* bacteria samples in Williams Pond at from May-Sep 2018 (n=5). Analysis of the single year limited frequency dataset from this station indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV and the overall GM was 1 CFU/100ml, which meets 2024 CALM guidance.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2815	MassDEP	Water Quality	Williams Pond	[northeastern edge of pond, Wellfleet]	41.965345	-70.007574

Bacteria Data

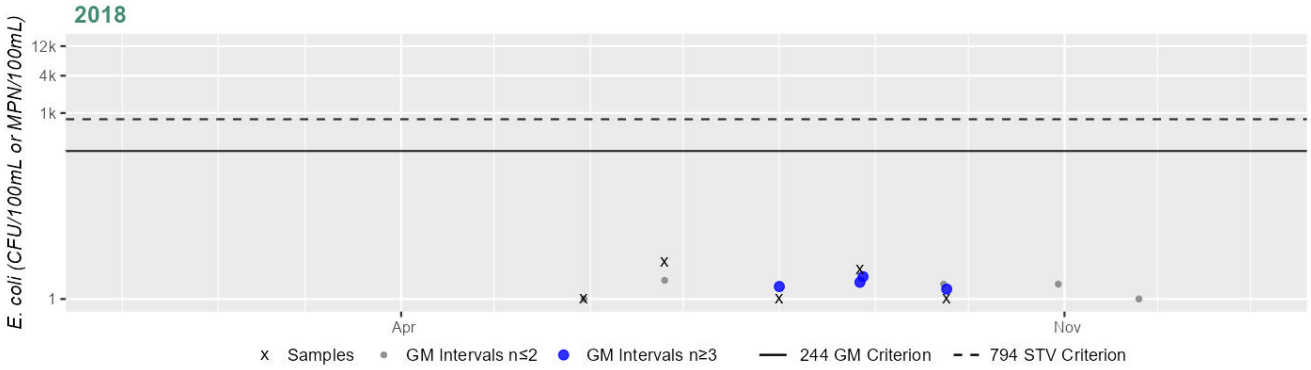
Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis) (MassDEP Undated 9) (MassDEP Undated 4)

[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
W2815	MassDEP	E. coli	05/30/18	09/24/18	5	1	4	1

Station MASSDEP_W2815 - Escherichia coli

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



Variable*	Result
Samples	5
SeasGM	1
#GMI	4
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

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

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

Wychmere Harbor (MA96-96)

Location:	south of Route 28, Harwich outlet to Nantucket Sound, Harwich.
AU Type:	ESTUARY
AU Size:	0.02 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	4a	Fecal Coliform	R1_MA_2024_04	Changed
5	4a	Nitrogen, Total	65882	Unchanged
5	4a	Nutrient/Eutrophication Biological Indicators	65882	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	--	--	X	--	--	--
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--
Nitrogen, Total	Agriculture (Y)	X	--	--	--	--	--
Nitrogen, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	X	--	--	--	--	--
Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nitrogen, Total	Yard Maintenance (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nutrient/Eutrophication Biological Indicators	Agriculture (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Yard Maintenance (Y)	X	--	--	--	--	--

Supporting Information for Removed Impairments

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

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Wychmere Harbor (MA96-96) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Wychmere Harbor (MA96-96): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0207 sq mi (97%). The approved shellfish growing area represents 0.0002 sq mi (1%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
SC37.0	Harwich South Coastal	Approved	0.00021	1.0%
SC40.0	Wychmere Harbor	Conditionally Approved	0.02053	95.6%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Wychmere Harbor (MA96-96) 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 Wychmere Harbor (MA96-96) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0207 sq mi) in this AU are less than 100% approved (0.0002 sq mi, 1%), which means that shellfish classification data were too limited to assess the Primary Contact Recreation Use for Wychmere Harbor.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Wychmere Harbor (MA96-96): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0207 sq mi (97%). The approved shellfish growing area represents 0.0002 sq mi (1%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

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 Wychmere Harbor (MA96-96) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0207 sq mi) in this AU are less than 100% approved (0.0002 sq mi, 1%), which means that shellfish classification data were too limited to assess the Secondary Contact Recreation Use for Wychmere Harbor.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Wychmere Harbor (MA96-96): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0207 sq mi (97%). The approved shellfish growing area represents 0.0002 sq mi (1%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Data Sources

Bailey, Logan. "DPH 2022 freshwater beach posting data provided to Laurie Kennedy and Dan Davis (MassDEP Watershed Planning Program) via Excel file (FreshwaterBeachPostings_2022) attached to email (RE: DPH Beach Posting information update needed for 2024 IR)." Additional 2020-2022 freshwater/marine beach posting data downloaded from the Mass Environmental Public Health Tracker tool or EPA BEACON tool, respectively, Environmental Toxicology Program, Bureau of Environmental Health, Massachusetts Department of Public Health, Boston, MA, Sept. 10, 2023.

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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 3.

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 4.

MassDEP. "Open file analysis of MassDEP WPP water quality data collected between 2011 and 2020 using 2024 CALM guidance." Watershed Planning Program, Massachusetts Department of Environmental Protection, Worcester, MA, Undated 5.

MassDEP. "Open file analysis of shellfish growing area classifications using 2024 CALM guidance." Data published June 2024 and available on MassGIS website, Watershed Planning Program, Massachusetts Department of Environmental Protection, Worcester, MA, Undated 6.

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 7.

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