

DMF Update

MAA – January 18, 2022

Recent Events

- New Shellfish Advisory Panel
- Aquaculture Update
- Vibrio
- Cares Act II Wrapup



Recent Events con't

- Program Element Evaluation Report (PEER)
- ISSC – next meeting 2023
- Mooring Assessment
- WWTP Dilution Analysis
- Personnel Changes



Shellfish Advisory Panel

- SAP established on ad-hoc basis in 2014 by DMF to address emerging shellfish related issues.
- Primary MSI Strategic Plan recommendation was to adopt this Panel more formally to enhance government-to-stakeholder communication on a wide array issues.
- Legislature adopted the SAP as a formal public body in the Acts of 2021.

Chapter 130, Section 1C. There shall be established in the division of marine fisheries a shellfish advisory panel to: (i) advise the director on matters of concern relevant to shellfish fisheries; (ii) provide a forum for governmental entities to receive and disseminate information relevant to shellfish resources and shellfish management; and (iii) allow members of the public and representatives of governmental entities to bring forth emerging issues in shellfish fisheries.

Members appointed by the chair shall serve for terms of 3 years and may be eligible for re-appointment by the chair. Members of panel shall serve without compensation. The panel shall meet not less than 2 times annually to address issues of substance related to shellfish resources, fisheries and management and assist in the dissemination of information to stakeholders. The chair shall consider the input of the panel.



Shellfish Advisory Panel

- Statute appoints eight state representatives from state government and requires Director appoints 14 members of public of a certain diverse geographic and stakeholder representation

Legislative Appointed Members

- DMF Director, Chair
- Commissioner of Department of Agricultural resources
- Commissioner of Department of Environmental Protection
- Director of Department of Public Health Food Protection Program
- Director of Coastal Zone Management
- Executive Director of Commission on Indian Affairs
- House Chair of Joint Committee on Environment, Natural Resources, and Agriculture.
- Senate Chair of Joint Committee on Environment, Natural Resources, and Agriculture.

DMF Appointed Members

- 1 representative from the National Sea Grant College Program.
- 2 seafood dealers involved in the wholesale or retail sale of shellfish.
- 1 commercial fisherman involved in a state managed wild harvest shellfish fishery.
- 2 commercial fishermen involved in a municipally managed wild harvest shellfish fishery.
- 3 shellfish aquaculturists.
- 1 person involved in the recreational harvest of a municipally managed shellfish resource.
- 2 municipal shellfish officers.
- 1 member of the Marine Fisheries Advisory Commission.
- 1 member from a NGO involved in shellfish conservation.



Mooring Area Inventory

Areas **CLOSED** during boating season

| Town(s) | Mooring Area Name | Growing Area | Area Designation | Classification | Opening Date | Closing Date | Notice Date | Redef/Reclass |
|---------------------|--------------------------------------|--------------------------------------|------------------|----------------|--------------|--------------|-------------|---------------|
| CLOSED | | 66 | | | | | | |
| Barnstable | Cotuit Oyster Company | SC21, Cotuit Bay | SC21.4 | Cond. App. | Nov-1 | May-15 | 5/26/2021 | |
| Barnstable | Cotuit Town Landing | SC21, Cotuit Bay | SC21.6 | Cond. App. | Nov-1 | May-15 | 5/26/2021 | |
| Barnstable | Bridge Street | SC22, West Bay | SC22.2 | Cond. App. | Nov-1 | May-15 | 5/14/2021 | |
| Barnstable | Hyannis Outer Harbor Mooring Area | SC27 Hyannis Outer Harbor | SC27.5 | Cond. App. | Nov-1 | May-1 | 4/30/2021 | |
| Barnstable | Mills River/Prince Cove Mooring Area | SC23, North Bay | SC23.1 | Cond. App. | Feb-15 | May-1 | 4/30/2021 | |
| Barnstable | North Bay Mooring Area | SC23, North Bay | SC23.2 | Cond. App. | Nov-1 | May-1 | 4/30/2021 | |
| Barnstable/Yarmouth | Hyannis Yacht Club Mooring Area | SC27 Hyannis Outer Harbor | SC28.8 | Cond. App. | Nov-1 | Jun-1 | 5/28/2021 | |
| Barnstable/Yarmouth | Hyannis Yacht Club Mooring Area | SC28 Lewis Bay | SC28.8 | Cond. App. | Jun-1 | Oct-31 | 5/28/2021 | |
| Bourne | Mashnee Road | BB46, Phinney's Harbor | BB46.3 | Cond. App. | Sep-1 | Jul-31 | 7/30/2021 | |
| Bourne | Red Brook Harbor | BB49, Red Brook and Pocasset Harbors | BB49.1 | Cond. App. | Nov-15 | Apr-15 | 4/30/2021 | |
| Bourne | Mill Pond | BB49, Red Brook and Pocasset Harbors | BB49.6 | Cond. App. | Oct-1 | Jun-1 | 5/28/2021 | |
| Bourne | Hospital Cove | BB49, Red Brook and Pocasset Harbors | BB49.7 | Cond. App. | Oct-1 | Jun-1 | 5/28/2021 | |
| Bourne/Falmouth | Squeteague Harbor | BB50 | BB50.3 | Cond. App. | Oct-1 | Jul-1 | 6/30/2021 | |
| Dartmouth | Apponagansett Bay | BB12, Apponagansett Bay | BB12.3 | Cond. App. | Nov-1 | May-1 | 4/30/2021 | |
| Edgartown | Edgartown Inner Harbor Mooring Area | V19 | V19.1 | Cond. App. | Nov-1 | May-1 | 4/30/2021 | |
| Essex | Conomo Point Mooring Area East | N7, Essex Bay | N7.10 | Cond. App. | Nov-1 | Apr-16 | 4/15/2021 | |
| Essex | Conomo Point Mooring Area West | N7, Essex Bay | N7.11 | Cond. App. | Nov-1 | Apr-16 | 4/15/2021 | |
| Fairhaven | West Island North Mooring Area | BB18, West Island | BB18.4 | Cond. App. | Nov-1 | May-1 | 4/30/2021 | |



New License Certifications in 2021

| Town | License Sites | Acres |
|--------------|---------------|-------------|
| Bourne | 1 | 0.04 |
| Duxbury | 1 | 1.6 |
| Eastham | 1 | 1 |
| Edgartown | 1 | 2 |
| Fairhaven | 3 | 6 |
| Harwich | 1 | 0.01 |
| Oak Bluffs | 1 | 2 |
| Rowley | 1 | 16 |
| Tisbury | 2 | 2 |
| Wellfleet | 3 | 3.5 |
| Total | 14 | 34.2 |

Existing Permit holders:

- 394 Propagation Permit Holders
- 5 Aquaculture Permit Holders



Confirmed *Vibrio parahaemolyticus* Single Source (18):

| Consumption Date | Implicated Food | Harvest Area |
|------------------|-------------------------|-----------------------|
| 6/5/2021 | Raw Oysters | CCB31 |
| 6/26/2021 | Raw Oysters | BB36 |
| 6/26/2021 | Raw Oysters | BB37 |
| 7/4/21; 7/5/21 | Quahogs | BB32.0 (self harvest) |
| 7/5/2021 | Raw Oysters | E10 |
| 7/10/2021 | Raw Oysters | BB41 (self harvest) |
| 7/10/2021 | Raw Oysters | CCB23 |
| 7/11/2021 | Clams (Steamed at home) | CCB31 (self harvest) |
| 8/5/2021 | Raw Oysters | MHB4 (self harvest) |
| 8/14/2021 | Raw Oysters | V20 |
| 8/15/2021 | Raw Oysters | V20 |
| 9/4/2021 | Raw Little Necks | CCB 9 |
| 9/11/2021 | Raw Oysters | CCB23 |
| 9/12/2021 | Raw Oysters | V20 |
| 9/13/2021 | Raw Oysters | BB37 |
| 9/26/2021 | Raw Oysters | V20 |
| 10/16/2021 | Raw Oysters | V20 |
| 10/21/2021 | Raw Oysters | V20 |

Confirmed *Vibrio* sp Single Source:

V. sp: CCB45 (1) and V20 (1)

V. cholera: SC49 (1)

V. fluvialis: CCB11 (1) and BB37 (1) and out-of-state (1)

Confirmed *Vp* Multi-Source (14):

| Consumption Date | Implicated Food | Harvest Areas |
|------------------|--------------------------------|---|
| 7/4/2021 | Raw and cooked oysters | CCB20, SC61, SC28 |
| 7/13/2021 | Cooked mussels, cooked oysters | CCB45, BB37 |
| 7/8/2021 | Raw Oysters | BB18, CCB45, CCB42, several out-of-state |
| 8/7/2021 | Raw Oysters | CCB 23, BB1, several out-of-state |
| 6/19/2021 | Raw Oysters | CCB45, SC28 |
| 8/13/2021 | Raw Oysters | V20, CCB-11, Damariscotta River (ME) |
| 8/28/2021 | Raw Oysters | CCB11, CCB45, CCB31, SC28, BB37, Taunton Bay (ME) |
| 8/28/2021 | Raw Oysters | V20, V2 |
| 9/12/2021 | Raw Oysters | V20, V2, BB1, Damariscotta River (ME), New Brunswick |
| 9/4/2021 | Raw Oysters | CCB11, CCB45, BB1, several out-of-state |
| 9/26/2021 | Raw Oysters | V2, CCB45, CCB31 |
| 9/21/2021 | "Fully Cooked" Oysters | CCB23, OC5 |
| 10/1/2021 | Raw Oysters | SC61, CCB11, several out-of-state |
| 10/11/2021 | Raw Oysters | CCB11; CCB23; CCB31, CCB45; SC21; V2; V20; several out-of-state |

Confirmed *Vibrio* sp Multi-Source:

V. sp: CCB11 & OC2 (2) and out-o-state (2)

V. Cholera & V. fluvialis in single illness:

BB37, CCB11, CCB23, CCB45, SC21, V2, V20

Round 2 CARES Act Program Timeline

Round 2 CARES Act Fisheries Relief Program

- MA DMF submitted the Round 2 CARES Act Spending Plan on June 9, 2021.
- NOAA Fisheries approved the Round 2 CARES Act Spending Plan on July 7, 2021.
- Applications were mailed to all relevant permit holders on July 20, 2021.
- Round 2 CARES applications were due on August 28, 2021.
- ASFMC mailed checks to all eligible Round 2 applicants on October 7, 2021.



Round 2 CARES Act Fisheries Relief

Round 1 vs. Round 2 Budget

CARES Act Relief Sector Allocations

| Sector | Round 1 | Round 2 |
|--|---------------------|---------------------|
| Seafood Processors | \$13,779,789 | \$11,548,170 |
| Commercial Fishing | \$11,828,404 | \$9,912,809 |
| Aquaculturists | \$1,152,652 | \$965,982 |
| For-Hire Vessels | \$1,000,000 | \$838,051 |
| Tribal Participants | \$5,000 | N/A |
| Administrative, Supplies & Indirect/Fringe Costs | \$14,661 | \$49,366 |
| Total Budget | \$27,780,506 | \$23,314,378 |

MA DMF initially took 10% of the state allocation as a set-aside to be put back into the sector(s) with the greatest need. After reviewing application data, MA DMF decided to distribute these funds proportionally across all sectors in line with the Round 1 sector breakdown.



Round 2 CARES Act Fisheries Relief

Round 1 vs. Round 2

CARES Act Round 1 and Round 2 Applications

| Sector | Applicants | | Payment Recipients | | Made Whole |
|-------------------------------|--------------|--------------|--------------------|------------|------------|
| | Round 1 | Round 2 | Round 1 | Round 2 | Round 2 |
| Seafood Processor | 139 | 109 | 113 | 103 | 18 |
| Commercial Fishing | 823 | 780 | 566 | 474 | 192 |
| Aquaculture | 191 | 117 | 169 | 103 | 23 |
| For-Hire Head Boat Fishing | 37 | 25 | 34 | 24 | 5 |
| For-hire Charter Boat Fishing | 83 | 44 | 72 | 29 | 15 |
| Total | 1,273 | 1,075 | 954 | 733 | |

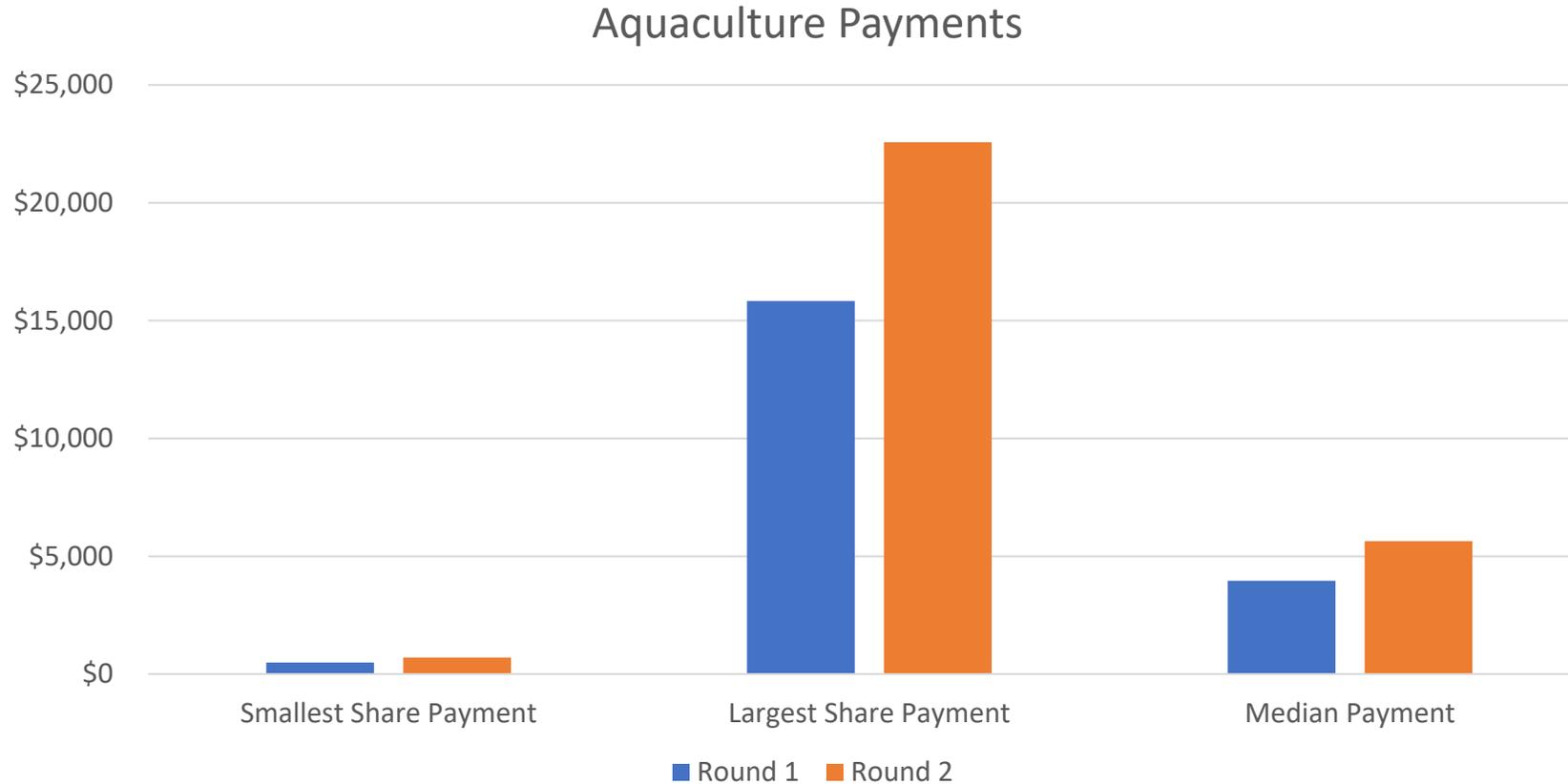


Round 2 CARES Act Fisheries Relief Payments

| Tier | Share | Tier Minimum | Tier Maximum | Amount |
|------|-------|--------------|--------------|-------------|
| 1 | 0.25 | > \$0 | \$7,500 | \$705.26 |
| 2 | 1 | > \$7,500 | \$49,286 | \$2,821.10 |
| 3 | 2 | > \$49,286 | \$91,071 | \$5,642.20 |
| 4 | 3 | > \$91,071 | \$132,857 | \$8,463.30 |
| 5 | 4 | > \$132,857 | \$174,643 | \$11,284.39 |
| 6 | 5 | > \$174,643 | \$216,429 | \$14,105.49 |
| 7 | 6 | > \$216,429 | \$258,214 | \$16,926.59 |
| 8 | 7 | > \$258,214 | \$300,000 | \$19,747.69 |
| 9 | 8 | > \$300,000 | \$2,400,000 | \$22,568.79 |



Round 2 CARES Act Fisheries Relief Round 1 vs. Round 2 Payments



Seafood Processors Pandemic Response and Safety Grant (SPRS)



The Seafood Processors Pandemic Response and Safety (SPRS) Block Grant Program provides grants to eligible state agencies and territories to support seafood processors, including at-sea processing vessels, to respond to coronavirus, including for measures to protect workers against COVID-19.



**Agricultural
Marketing
Service**



Seafood Processors Pandemic Response and Safety Grant (SPRS)

USDA allocated \$50 Million for the SPRS Grant Program

- The SPRS provides funds to assist in defraying the expenses preparing for, preventing exposure to, and responding to the COVID-19 pandemic for seafood processing facilities and processing vessels.
- DMF will partially reimburse eligible facilities for costs incurred between January 27, 2020 through December 31, 2021.

Massachusetts will receive \$1,104,725

- Approximately 300 Seafood Processing Facilities in MA
- Payments only for approved costs not previously compensated under other programs
- Approximately 99% of funds will be distributed directly to industry (1% administration)



SPRS Allowable Program Costs

DMF created an on-line survey and has reached out to Wholesale Seafood Dealers to determine relative expenses incurred for the following activities:

- **Workplace Safety Measures:** Workplace safety measures, including, but not limited to, personal protective equipment, sanitizer, hand washing stations, air filters, thermometers, cleaning supplies, or similar items. **(26%)**
- **Market Pivots:** Market pivots such as transition to virtual/online sales costs (online platform development and fees, online marketing, credit card processing fees), supplies, new signage. **(33%)**
- **Retrofitting Facilities:** Retrofitting facilities for worker and consumer safety to maximize open-air activities, plexiglass, walk up windows, heat lamps, fans, tents, propane, weights, tables, chairs. **(25%)**
- **Transportation:** Additional transportation costs incurred to maintain social distancing. **(6%)**
- **Worker Housing:** Additional worker housing costs incurred to maintain social distancing or to allow for quarantining of new or exposed employees. **(2%)**
- **Medical Services:** Unreimbursed costs associated with providing or enabling vaccinations, testing, or healthcare treatment of infected employees, including any paid leave. **(8%)**



Mooring Area Inventory

Areas **CLOSED** during boating season

| Town(s) | Mooring Area Name | Growing Area | Area Designation | Classification | Opening Date | Closing Date | Redef/Reclass Notice Date |
|---------------------|-------------------------------------|----------------------------|------------------|----------------|--------------|--------------|---------------------------|
| CLOSED | | | | | | | |
| Falmouth | Quisset Harbor | BB58, Quisset Harbor | BB58.2 | Cond. App. | Nov-1 | May-1 | 4/30/2021 |
| Falmouth | Great Harbor | SC2, Great Harbor | SC2.2 | Cond. App. | Nov-14 | May-28 | 5/27/2021 |
| Falmouth | Edgewater Drive East Mooring Area | SC14, Eel River East | SC14.6 | Cond. App. | Nov-14 | May-1 | 4/30/2021 |
| Falmouth | Waquoit Bay | SC15 Waquoit Bay | SC15.3 | Cond. App. | Nov-14 | May-1 | 4/30/2021 |
| Falmouth | Green Pond Mooring Area | SC12 | SC12.4 | Cond. App. | Nov-1 | May-1 | 4/30/2021 |
| Gloucester | Lobster Cove South Mooring Area | N9 | N9.26 | Cond. App. | Oct-16 | May-31 | 9/3/2021 |
| Gloucester | Wheeler's Point Mooring Area | N9 | N9.27 | Cond. App. | Oct-16 | May-31 | 9/3/2021 |
| Gloucester | Wheeler's Cove Mooring Area | N9 | N9.28 | Cond. App. | Oct-16 | May-31 | 9/3/2021 |
| Harwich | Round Cove Mooring Area | SC59 | SC59 | Cond. App. | Nov-1 | May-1 | 4/30/2021 |
| Ipswich | North Ridge Mooring Area | N4, Plum Island Sound | N4.8 | Prohibited | N/A | N/A | 2/5/2021 |
| Ipswich | Ipswich Bay Yacht Club Mooring Area | N4, Plum Island Sound | N4.9 | Prohibited | N/A | N/A | 2/5/2021 |
| Ipswich | Clark Beach Mooring Area | N4, Plum Island Sound | N4.10 | Prohibited | N/A | N/A | 2/5/2021 |
| Ipswich | Pavilion Beach Mooring Area | N4, Plum Island Sound | N4.11 | Prohibited | N/A | N/A | 2/5/2021 |
| Ipswich | Grape Island Mooring Area | N4, Plum Island Sound | N4.12 | Prohibited | N/A | N/A | 2/5/2021 |
| Ipswich | Eel Run Mooring Area | N4, Plum Island Sound | N4.13 | Prohibited | N/A | N/A | 2/5/2021 |
| Ipswich | Sandy Point Mooring Area | N4, Plum Island Sound | N4.14 | Prohibited | N/A | N/A | 2/5/2021 |
| Marion | Sippican Inner Harbor | BB32, Sippican Harbor | BB32.13 | Cond. App. | Nov-1 | May-1 | 4/30/2021 |
| Marion | Wings Cove | BB34, Wings Cove | BB34.1 | Cond. App. | Nov-1 | May-1 | 4/30/2021 |
| Marion/Wareham | Lower River Mooring Area | BB35, Weweantic | BB35.0 | Cond. App. | Oct-1 | Jun-1 | 5/28/2021 |
| Mashpee | Ockway Bay Mooring Area | SC19, Ockway Bay | SC19.2 | Cond. App. | Oct-15 | May-1 | 4/30/2021 |
| Mashpee | Great River Mooring Area | SC16, Great River | SC16.4 | Cond. App. | Oct-15 | May-1 | 4/30/2021 |
| Mattapoisett | Mattapoisett Inner Harbor | BB25, Mattapoisett Harbor | BB25.2 | Cond. App. | Nov-1 | May-1 | 4/30/2021 |
| Nantucket | Nantucket Harbor West | NT2, Nantucket Harbor West | NT2.6 | Cond. App. | Nov-1 | May-1 | 4/30/2021 |
| Newbury/Newburyport | Basin Mooring Area | N2, Merrimack River | N2.6 | Cond. Res. | Nov-1 | Jun-1 | 6/1/2021 |



Mooring Area Inventory

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|---------------|--|----------------------------|------------------|----------------|--------------|--------------|---------------------------|
| CLOSED | | | | | | | |
| Oak Bluffs | Medieros Cove | V11, Lagoon Pond | V11.5 | Cond. App. | Nov-1 | May-15 | 7/7/2021 |
| Oak Bluffs | Mouth of Oak Bluffs Harbor Mooring Area | V13, Oak Bluffs Harbor | V13 | Cond. App. | Nov-1 | May-1 | 4/30/2021 |
| Oak Bluffs | Oak Bluffs Harbor Mooring Area | V14 | V14.1 | Cond. App. | Nov-1 | May-1 | 4/30/2021 |
| Orleans | Arey's Pond Mooring Area | SC63 Arey's Pond | SC63.4 | Cond. App. | Nov-1 | May-1 | 4/30/2021 |
| Orleans | Nauset Marine | SC63 Meetinghouse Pond | SC63.5 | Cond. App. | Nov-1 | May-1 | 4/30/2021 |
| Provincetown | Inner Harbor Mooring Area | CCB4, Provincetown Harbor | CCB4.1 | Prohibited | N/A | N/A | 4/30/2021 |
| Provincetown | Wood End Mooring Field | CCB4, Provincetown Harbor | CCB4.2 | Prohibited | N/A | N/A | 4/30/2021 |
| Swansea | Swansea Marina and Mooring Area | MHB4, Cole River | MHB4.3 | Cond. App. | Nov-1 | May-1 | 5/14/2021 |
| Swansea | Sea View Ave | MHB4, Cole River | MHB4.01 | Cond. App. | Nov-1 | May-1 | 4/30/2021 |
| Tisbury | Town Anchor | V8, Lake Tashmoo | V8.3 | Cond. App. | Nov-1 | Jun-15 | 6/14/2021 |
| Tisbury | East Tashmoo | V8, Lake Tashmoo | V8.2 | Cond. App. | Nov-1 | May-15 | 5/14/2021 |
| Tisbury | Breakwater North | V10, Vineyard Haven Harbor | V10.2 | Cond. App. | Nov-1 | Jun-15 | 6/14/2021 |
| Tisbury | Reniers Mooring Area | V11, Lagoon Pond | V11.10 | Cond. App. | Oct-15 | Jul-20 | 7/19/2021 |
| Tisbury | Vineyard Haven Inner Harbor Mooring Area | V10, Vineyard Haven Harbor | V10.1 | Cond. App. | Nov-1 | May-1 | 4/30/2021 |
| Truro | Pamet Harbor Mooring Area | CCB7, Pamet Harbor | CCB7.1 | Cond. App. | Nov-1 | May-1 | 4/30/2021 |
| Wareham | Town Pier | BB40, Onset Bay | BB40.3 | Cond. App. | Nov-1 | May-1 | 4/30/2021 |
| Wareham | Eastern Side of Onset Bay Mooring Area | BB40, Onset Bay | BB40.6 | Cond. App. | Nov-1 | May-1 | 4/30/2021 |
| Wareham | Sunset Cove | BB41, Sunset Cove | BB41.0 | Cond. App. | Nov-1 | May-1 | 4/30/2021 |
| Wareham | Tempest Knob | BB36, Wareham River | BB36.14 | Cond. App. | Jan-1 | May-1 | 4/30/2021 |
| Wareham | East River, Broad Cove | BB42 East River | BB42.2 | Cond. App. | Nov-1 | May-1 | 4/30/2021 |
| Wareham | East River, Muddy Cove | BB42 East River | BB42.3 | Cond. App. | Dec-1 | May-1 | 4/30/2021 |
| Wellfleet | Chipman's Cove | CCB13, Wellfleet | CCB13.6 | Cond. App. | Oct-15 | May-22 | 5/21/2021 |
| Westport | Westport Harbor | BB3, West Branch | BB3.1 | Cond. App. | Dec-1 | May-1 | 4/30/2021 |
| Yarmouth | Englewood Mooring Area | SC28 Englewood | SC28.4 | Cond. App. | Jun-1 | Oct-31 | 5/28/2021 |



Mooring Area Inventory

Areas **OPEN** during boating season

| Town(s) | Mooring Area Name | Growing Area | Area Designation | Classification | Opening Date | Closing Date | Redef/Reclass Notice Date |
|--------------------|---------------------------------|------------------------|------------------|----------------|--------------|--------------|---------------------------|
| OPEN | | 8 | | | | | |
| Dartmouth | Deep Water Mooring Area | BB12 Apponagansett Bay | BB12.5 | Cond. App. | N/A | N/A | 4/30/2021 |
| Duxbury | Standish Shores Marine | CCB45 | CCB45.4 | Cond. App. | N/A | N/A | 2/4/2021 |
| Duxbury | Town Pier Offshore Mooring Area | CCB45 | CCB45.6 | Cond. App. | N/A | N/A | 2/4/2021 |
| Duxbury | Town Pier Inshore Mooring Area | CCB45 | CCB45.5 | Cond. App. | N/A | N/A | 2/4/2021 |
| Oak Bluffs/Tisbury | Northeast Corner Mooring Area | V11 Lagoon Pond | V11.4 | Cond. App. | N/A | N/A | 7/7/2021 |
| Tisbury | Lagoon Landing Mooring Area | V11 Lagoon Pond | V11.6 | Cond. App. | N/A | N/A | 5/14/2021 |
| Wareham | Sunset Cove Mooring Area | BB41 Sunset Cove | BB41.0 | Cond. App. | N/A | N/A | 4/30/2021 |
| Westport | Julius Way | BB4, East Branch | BB4.27 | Cond. App. | N/A | N/A | 3/12/2021 |

Mooring Areas

Approximately 4,400 acres / Range from 4 - 510 acres / Average 77 acres



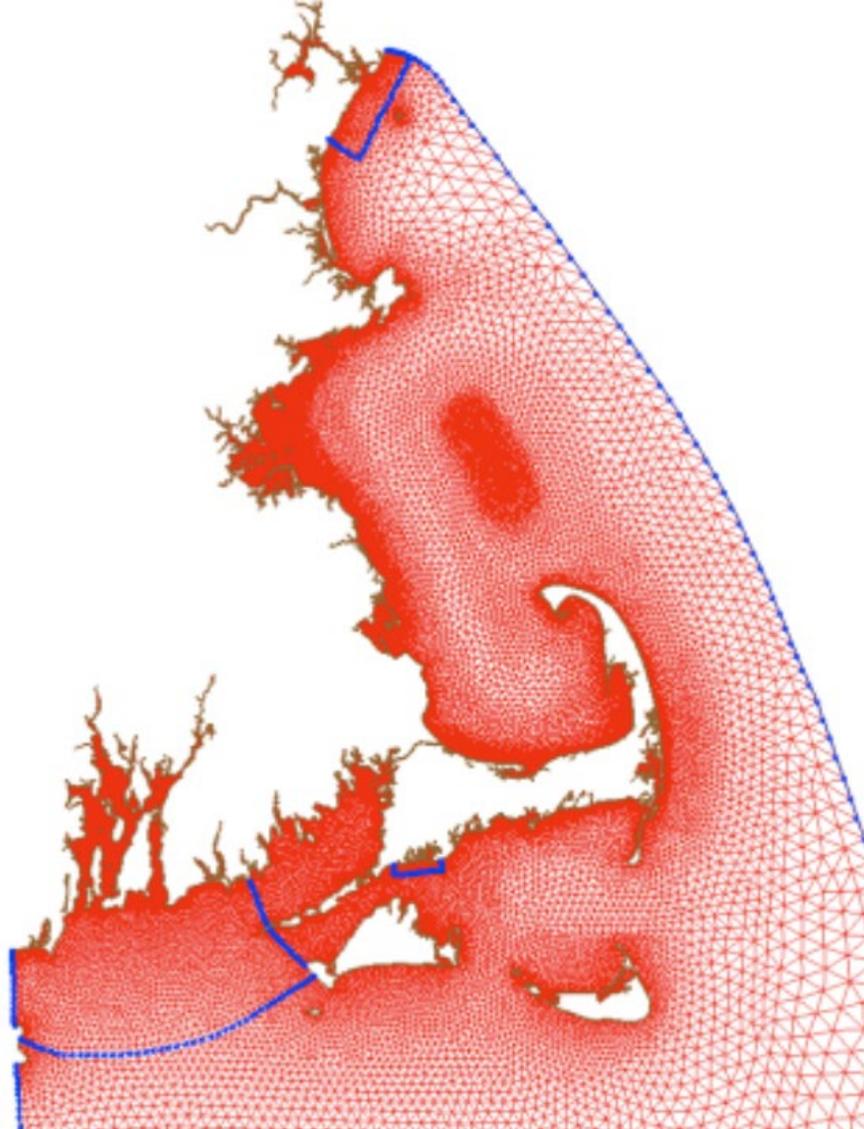
Classification adjacent to Wastewater Treatment Plants

- National Shellfish Sanitation Program (NSSP) Guidance States
 - Without modeled data or dye studies, states are required to set:
 - Mandatory Closed Safety Zone/Prohibited at 1000 / 1 dilution line
 - Conditional area within 100,000 / 1 dilution line
- Impacts
 - CSZ may preclude harvesting
 - Reclassification to Conditionally Approved may impact harvesting
 - Conditional classification requires additional documentation and monthly monitoring by DMF



Our Approach

- DMF has contract with SMAST @Umass Dartmouth
 - Dr. Chen's (FVCOM (finite-volume coastal ocean model) to model WWTP discharge from plants impacting Massachusetts Shellfish Growing Areas
 - 1) DMF provides input parameters for model runs for both Prohibited Closed Safety Zones and Conditional Classifications
 - WWTP outfall locations
 - Flow rates
 - Concentrations
 - 2) SMAST developing high resolution domain



<http://fvcom.smast.umassd.edu/2014/01/06/subdomain-fvcom-gomgb-for-mass-bay-and-nantucket-soundshoalscurrent-version/>



Personnel Changes

- Greg Bettencourt *promoted* Gloucester Shellfish Supervisor
 - Brianne Shanks *promoted* New Bedford Lab Supervisor
 - Jennifer Poniatowski-Bacteriologist I *resigned*
 - Einat Sandbank-Aquatic Biologist I *resigned*
 - Sean Fallon-contractor *resigned*
 - Greg Sawyer *retiring*
 - Matt Camisa *transferred* New Bedford Senior Biologist
 - Tom Shields *relocated*
 - Neil Churchill-contractor hired
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- 3 new Bacteriologists I's are in the works
 - backfill for AB I in New Bedford

