

Affected Critical  
Facilities &  
Infrastructure

MVCid	Site Name	Emergency Use	Flood Zone Category
77	Tisbury SSA Ferry Terminal	Ferry Terminal	100-year flood zone, AE
114	Tisbury Harbor Master	Harbor Master Office	500-year flood zone
124	Packer Fuel Dock West	Fuel Storage	100-year flood zone, AE
125	Packer Fuel Dock East	Fuel Storage	100-year flood zone, AE
167	Packer Barge Dock	Infrastructure	100-year flood zone, VE
168	Eastville Breakwater	Infrastructure	100-year flood zone, VE
169	Lagoon Pond Rd Bridge Culvert	Infrastructure	100-year flood zone, AE
170	Beach Rd Seawall	Infrastructure	100-year flood zone, AE
171	Water Street	Infrastructure	100-year flood zone, AE
172	Beach Rd - Tisbury	Infrastructure	100-year flood zone, VE
173	Lagoon Pond Rd	Infrastructure	100-year flood zone, AE
192	Lagoon Pond Drawbridge	Bridge	100-year flood zone, AE

# FEMA Flood Zones Tisbury, MA

## Hazard Mitigation Plan

Affected Critical Facilities

Affected Critical Infrastructure

Affected Structures

Unaffected Structures

**FEMA Flood Zone**

100-year flood zone, VE

100-year flood zone, AE

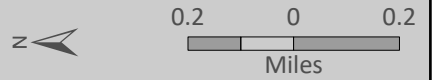
500-year flood zone

Notes: Effective 2016, the 100 and 500-year flood zones represent a subset of the data presented on FEMA's Flood Insurance Rate Maps (FIRM). These data were developed by FEMA to support planning activities but do not replace the effective FIRM maps. These data are not suitable for engineering activities or site work nor can the data be used to determine the absolute delineation of flood boundaries. Instead the data should be used to portray zones of uncertainty and possible risks associated with flooding.

Disclaimer: Data provided are for planning purposes only. These data are not adequate for regulatory interpretation. The MVC is not responsible for the end-user's interpretation of the data.

Compiled by: MVC, CL Seidel,  
www.mvcommission.org; 508-693-3453  
Data: Structures - MassGIS 2019; Roads 2017;  
Town Line - MassGIS 2003/MVC 2020; FEMA  
Flood Zone - FEMA 2016  
Coordinate Reference: Stateplane  
MassMainland NAD83 meters

Folder: Hazard Mitigation Plan  
Project: HMPseries\_FEMA.aprx;  
Export: 1/27/2021 HMPseries\_FEMA\_\*.pdf





MVCid	Site Name	Emergency Use	Feet Affected	Flood Zone Category
168	Eastville Breakwater	Breakwater	642	VE
170	Beach Road Seawall	Seawall	27	VE
170	Beach Road Seawall	Seawall	140	VE
170	Beach Road Seawall	Seawall	1714	AE
171	Water Street	Road	62	VE
171	Water Street	Road	504	AE
172	Beach Road	Road	164	VE
172	Beach Road	Road	1155	VE
172	Beach Road	Road	3137	AE
173	Lagoon Pond Road	Road	269	500-year flood zone
173	Lagoon Pond Road	Road	366	VE
173	Lagoon Pond Road	Road	1928	AE
192	Drawbridge	Bridge	429	AE


# Wildland Urban Interface


## Tisbury, MA


### Hazard Mitigation Plan

 Affected Critical Facilities


 Affected Critical Infrastructure


 Affected Structures


 Unaffected Structures


 Wildland Urban Interface

**Roads**

 Primary Road

 Secondary Road

 Neighborhood Road

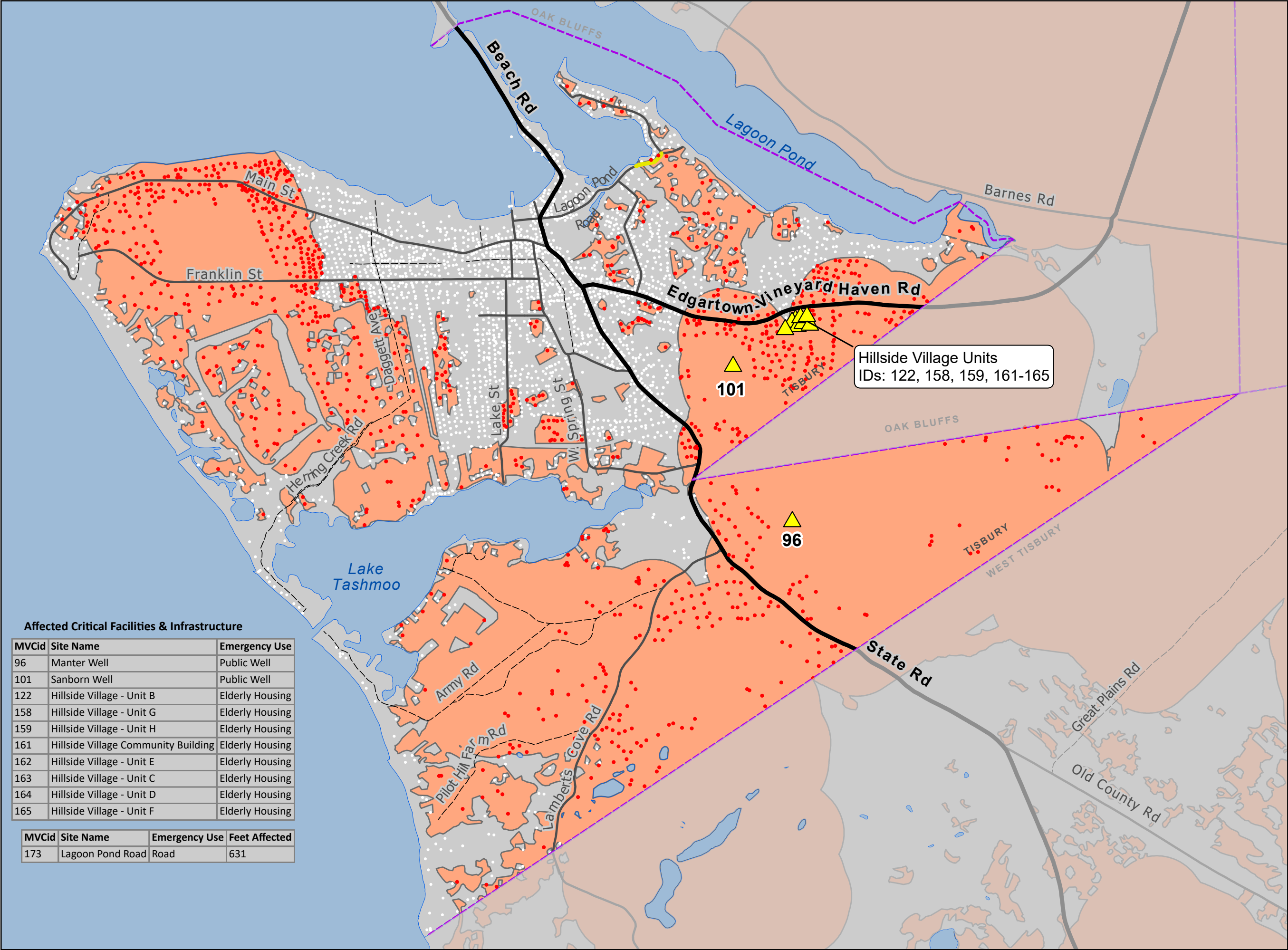
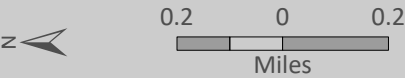
 Local Road

Notes: Wildland Urban Interface (WUI) was delineated by the MVC from The Nature Conservancy's vegetation data (2002) and MassGIS land cover data (2016). Pitch pine and scrub/shrub oak habitats (TNC) were extracted along with subsets of evergreen and deciduous land cover from MassGIS. Any structures within the a) pitch pine/scrub oak habitat; OR b) contiguous woodland (50acre or greater patch); OR c) within 1,000ft of contiguous woodland are considered within the WUI.

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Compiled by: MVC, CL Seidel,  
www.mvcommission.org; 508-693-3453  
Data: Structures - MassGIS 2019; Roads 2017;  
Town Line - MassGIS 2003/MVC 2020; Wildfire Urban Interface - MVC 2020  
Coordinate Reference: Stateplane  
MassMainland NAD83 meters

Folder: Hazard Mitigation Plan  
Project: HMPseries\_Fire.aprx;  
Export: 1/20/2021 HMPseries\_Fire\_\*.pdf



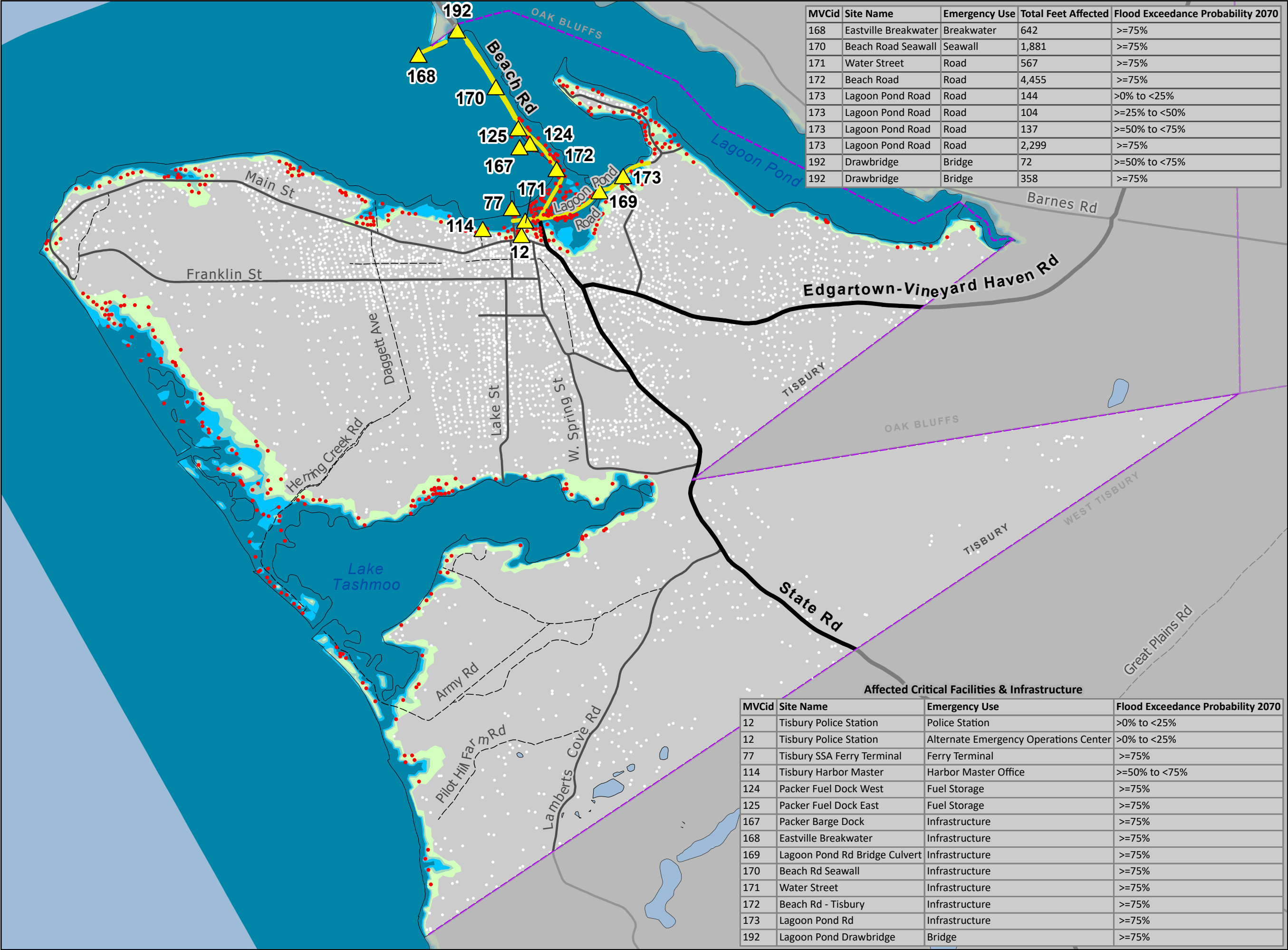
#### Affected Critical Facilities & Infrastructure

MVCid	Site Name	Emergency Use
96	Manter Well	Public Well
101	Sanborn Well	Public Well
122	Hillside Village - Unit B	Elderly Housing
158	Hillside Village - Unit G	Elderly Housing
159	Hillside Village - Unit H	Elderly Housing
161	Hillside Village Community Building	Elderly Housing
162	Hillside Village - Unit E	Elderly Housing
163	Hillside Village - Unit C	Elderly Housing
164	Hillside Village - Unit D	Elderly Housing
165	Hillside Village - Unit F	Elderly Housing

MVCid	Site Name	Emergency Use	Feet Affected
173	Lagoon Pond Road	Road	631







# Annual Coastal Flood Exceedance Probability

Year 2070 Scenario: 4.37ft Sea Level Rise relative to year 2008

## Tisbury, MA Hazard Mitigation Plan

△ Affected Critical Facilities  
— Affected Critical Infrastructure  
• Affected Structures  
• Unaffected Structures

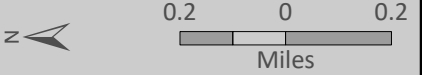
**Coastal Flood Exceedance Probability**

- Dark Blue: >=75%
- Light Blue: >=50% to <75%
- Green: >=25% to <50%
- Yellow: >0% to <25%

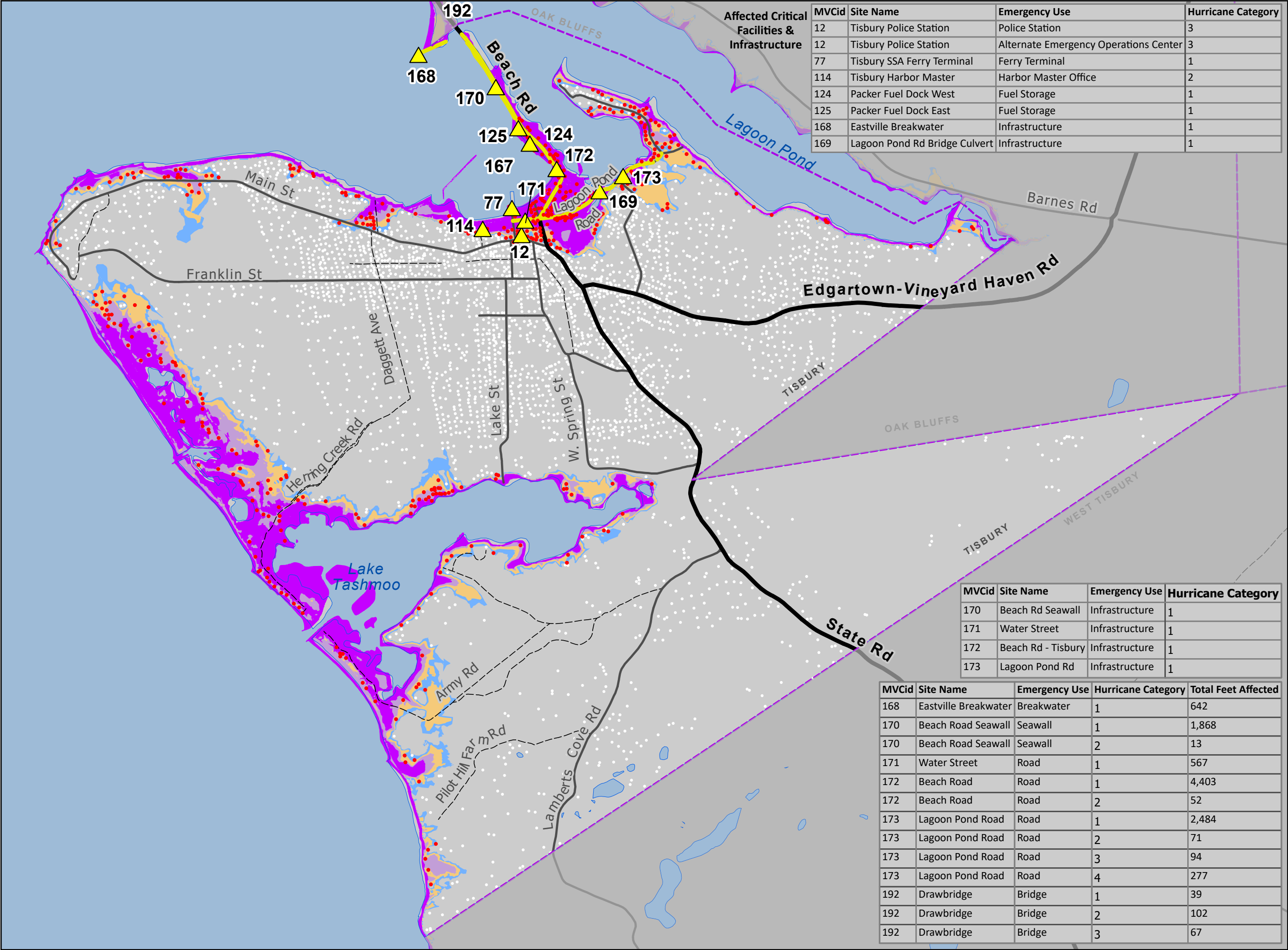
Notes: These data are derived from output of the MA Coast Flood Risk Model (MC-FRM) for several time horizons, sea level rise and coastal storm simulations as described in the report "Assessing the vulnerability of MassDOT's coastal transportation systems to future sea level rise and coastal storms, and developing conceptual adaptation strategies" (2020). Sea level rise values utilized in the model are those adopted by ResilientMA.org and MassCZM. The probabilities is the percent chance that a location would be inundated under a given climate condition. For example, an area of 2% Probability has a 2% chance of flooding in a given year.

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Compiled by: MVC, CL Seidel,  
www.mvcommission.org; 508-693-3453  
Data: Structures - MassGIS 2019; Roads 2017;  
Town Line - MassGIS 2003/MVC 2020; ACSEP -  
MassDOT Highway Div. 2020  
Coordinate Reference: Stateplane  
MassMainland NAD83 meters  
Folder: Hazard Mitigation Plan  
Project: HMPseries\_FRMprob2070.aprx;  
Export: 2/10/2021 HMPseries\_FRMprob2070\_\*.pdf







Affected Critical Facilities & Infrastructure

MVCid	Site Name	Emergency Use	Hurricane Category
12	Tisbury Police Station	Police Station	3
12	Tisbury Police Station	Alternate Emergency Operations Center	3
77	Tisbury SSA Ferry Terminal	Ferry Terminal	1
114	Tisbury Harbor Master	Harbor Master Office	2
124	Packer Fuel Dock West	Fuel Storage	1
125	Packer Fuel Dock East	Fuel Storage	1
168	Eastville Breakwater	Infrastructure	1
169	Lagoon Pond Rd Bridge Culvert	Infrastructure	1

MVCid	Site Name	Emergency Use	Hurricane Category
170	Beach Rd Seawall	Infrastructure	1
171	Water Street	Infrastructure	1
172	Beach Rd - Tisbury	Infrastructure	1
173	Lagoon Pond Rd	Infrastructure	1

MVCid	Site Name	Emergency Use	Hurricane Category	Total Feet Affected
168	Eastville Breakwater	Breakwater	1	642
170	Beach Road Seawall	Seawall	1	1,868
170	Beach Road Seawall	Seawall	2	13
171	Water Street	Road	1	567
172	Beach Road	Road	1	4,403
172	Beach Road	Road	2	52
173	Lagoon Pond Road	Road	1	2,484
173	Lagoon Pond Road	Road	2	71
173	Lagoon Pond Road	Road	3	94
173	Lagoon Pond Road	Road	4	277
192	Drawbridge	Bridge	1	39
192	Drawbridge	Bridge	2	102
192	Drawbridge	Bridge	3	67

Hurricane Surge Inundation Tisbury, MA

Hazard Mitigation Plan

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Affected Critical Facilities

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Affected Critical Infrastructure

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Affected Structures

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Unaffected Structures

**Hurricane Surge Inundation**

*Worst Case Scenario*

Category 1

Category 2

Category 3

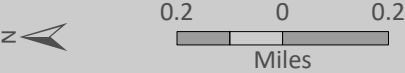
Category 4

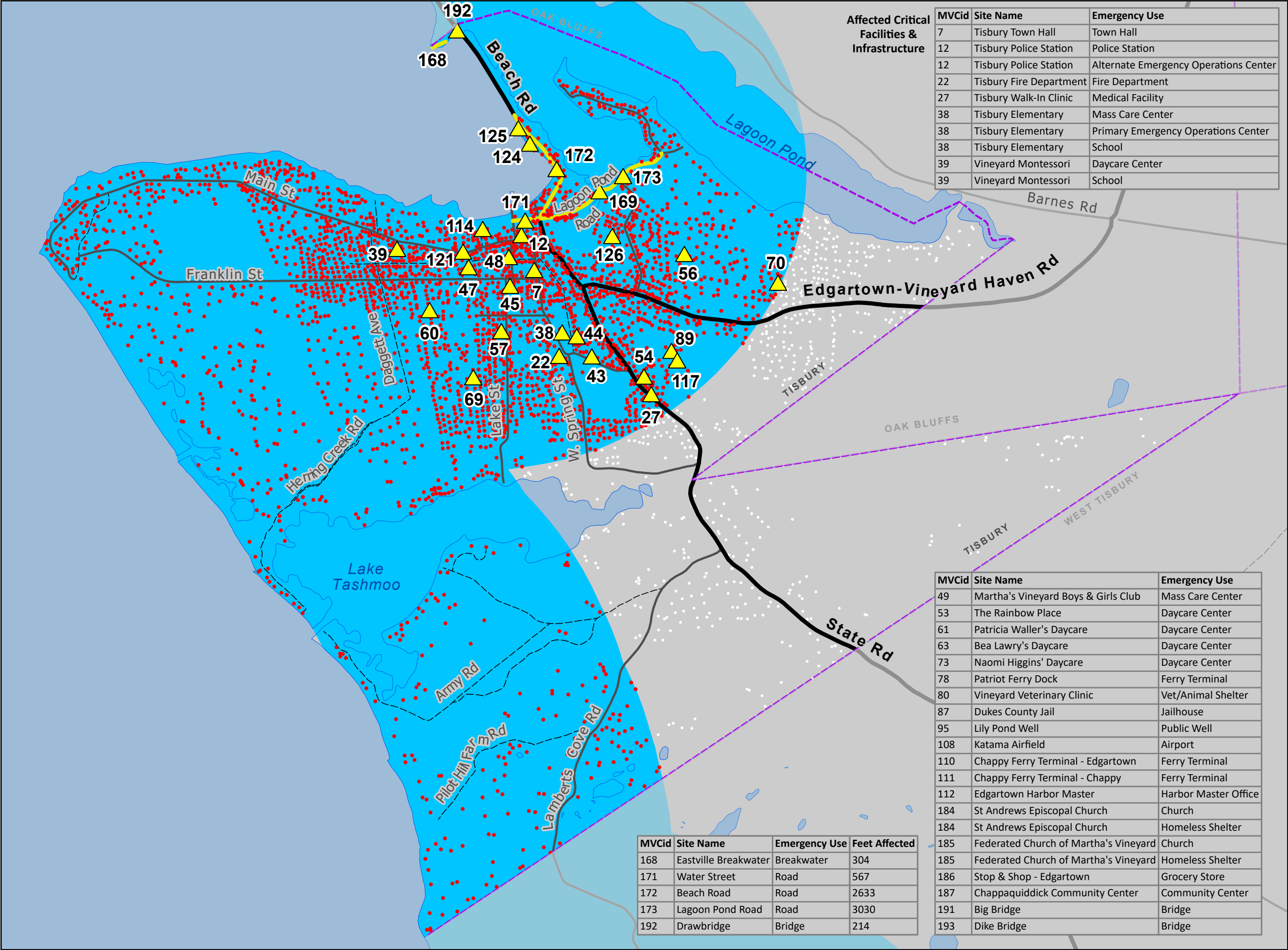
Notes: Per USACE: "Hurricane surge elevations were determined by the National Hurricane Center using the PV2 SLOSH model basin, and assumed peak hurricane surge arriving at mean high water. The hurricane surge inundation areas shown on this map depict the inundation that can be expected to result from a worst case combination of hurricane landfall location, forward speed, and direction for each hurricane category." ACCURACY: SLOSH Model Elevation Data: +/-20 percent LiDAR Elevation Data: +/- 0.5ft vertical; +/-1ft horizontal; Shoreline Data: Less accurate than LiDAR; Hence, discrepancies will be visibly noticeable when displayed together.

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Compiled by: MVC, CL Seidel,  
www.mvcommission.org; 508-693-3453  
Data: Structures - MassGIS 2019; Roads 2017;  
Town Line - MassGIS 2003/MVC 2020;  
Hurricane Inundation - USACE 2013  
Coordinate Reference: Stateplane  
MassMainland NAD83 meters

Folder: Hazard Mitigation Plan  
Project: HMPseries\_SLOSH.aprx;  
Export: 1/24/2021 HMPseries\_SLOSH\_\*.pdf





# Tsunami Hazard Zone

## Tisbury, MA

### Hazard Mitigation Plan

Affected Critical Facilities

Affected Critical Infrastructure

Affected Structures

Unaffected Structures

Potential Tsunami Hazard Zone

**Roads**

Primary Road

Secondary Road

Neighborhood Road

Local Road

Notes: The potential tsunami hazard zone is any land or water area within 1 mile of the coastline. The 1 mile buffer was not applied to the shoreline of coastal ponds.

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Compiled by: MVC, CL Seidel, [www.mvcommission.org](http://www.mvcommission.org); 508-693-3453  
Data: Structures - MassGIS 2019; Roads 2017; Town Line - MassGIS 2003/MVC 2020; Tsunami Hazard Zone - MVC 2020  
Coordinate Reference: Stateplane MassMainland NAD83 meters

Folder: Hazard Mitigation Plan  
Project: HMPseries\_Tsunami.aprx;  
Export: 1/23/2021 HMPseries\_Tsunami\_\*.pdf

0.2 0 0.2  
Miles