

Wildland Urban Interface

Edgartown, MA

Hazard Mitigation Plan

Affected Critical Facilities

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.

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; Wildfire
Urban Interface - MVC 2020
Coordinate Reference: Stateplane
MassMainland NAD83 meters

Folder: Hazard Mitigation Plan
Project: HMPseries_Fire.aprx;
Export: 1/27/2021 HMPseries_Fire_*.pdf

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Miles

EDGARTOWN, MARtha's VINEYARD, MASSACHUSETTS

INCORPORATED 1857

U.S. DEPARTMENT OF
INTERIOR

BUREAU OF LAND MANAGEMENT

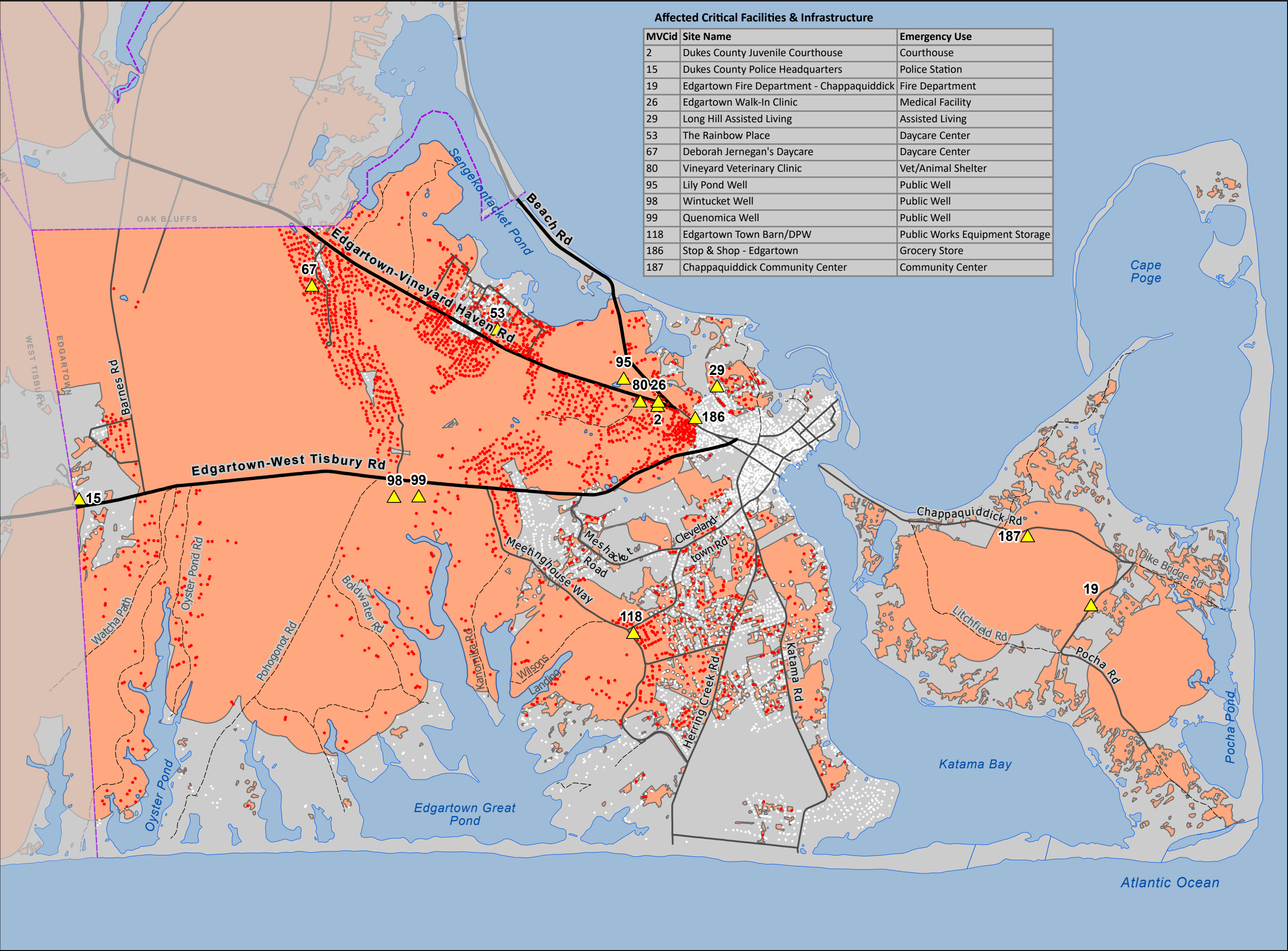
MASS GIS

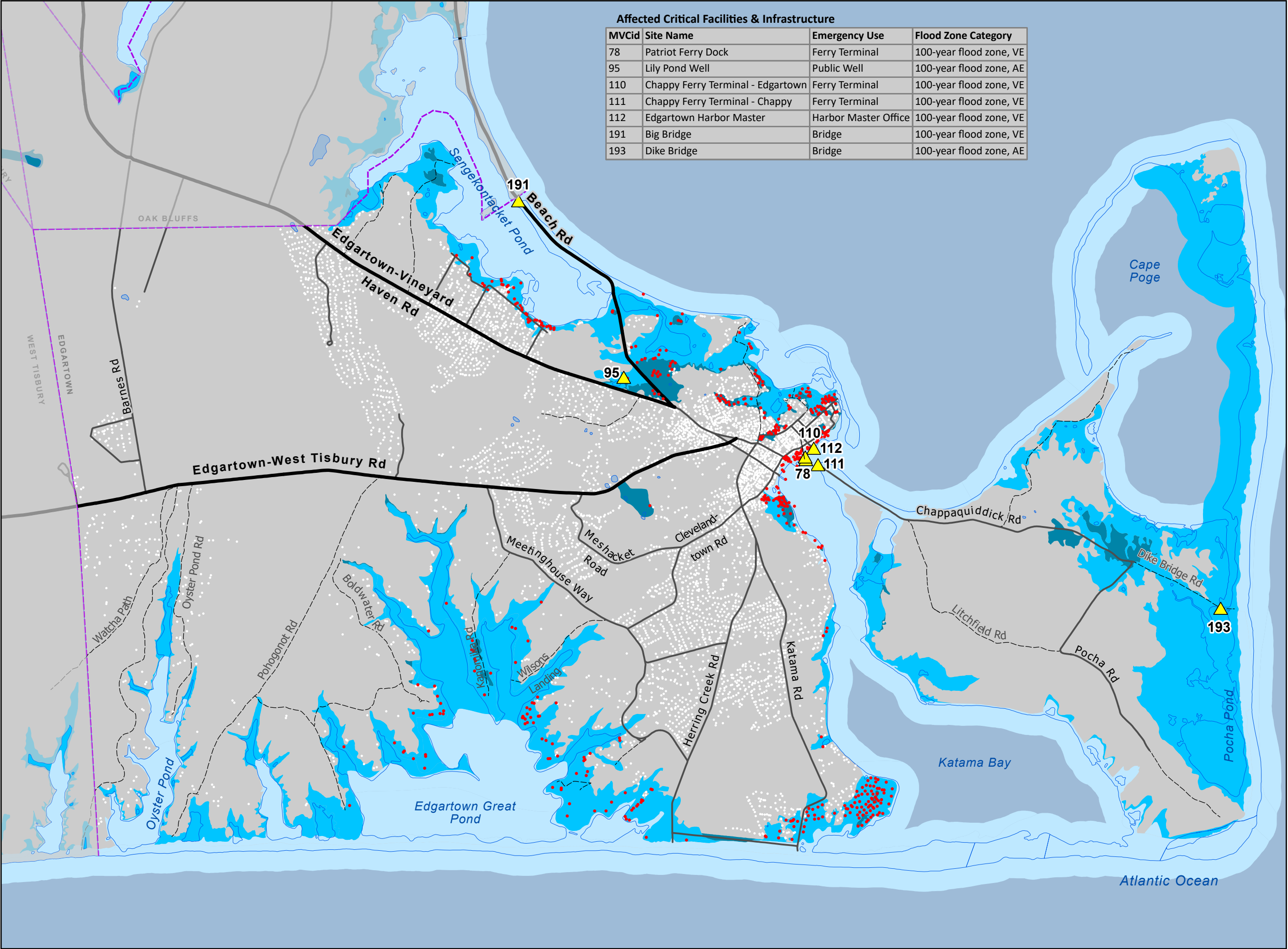
FEMA

MARtha's VINEYARD
COMMISSION

Affected Critical Facilities & Infrastructure

MVCid	Site Name	Emergency Use
2	Dukes County Juvenile Courthouse	Courthouse
15	Dukes County Police Headquarters	Police Station
19	Edgartown Fire Department - Chappaquiddick	Fire Department
26	Edgartown Walk-In Clinic	Medical Facility
29	Long Hill Assisted Living	Assisted Living
53	The Rainbow Place	Daycare Center
67	Deborah Jernegan's Daycare	Daycare Center
80	Vineyard Veterinary Clinic	Vet/Animal Shelter
95	Lily Pond Well	Public Well
98	Wintucket Well	Public Well
99	Quenomica Well	Public Well
118	Edgartown Town Barn/DPW	Public Works Equipment Storage
186	Stop & Shop - Edgartown	Grocery Store
187	Chappaquiddick Community Center	Community Center





Affected Critical Facilities & Infrastructure			
MVCid	Site Name	Emergency Use	Flood Zone Category
78	Patriot Ferry Dock	Ferry Terminal	100-year flood zone, VE
95	Lily Pond Well	Public Well	100-year flood zone, AE
110	Chappy Ferry Terminal - Edgartown	Ferry Terminal	100-year flood zone, VE
111	Chappy Ferry Terminal - Chappy	Ferry Terminal	100-year flood zone, VE
112	Edgartown Harbor Master	Harbor Master Office	100-year flood zone, VE
191	Big Bridge	Bridge	100-year flood zone, VE
193	Dike Bridge	Bridge	100-year flood zone, AE

FEMA Flood Zones

Edgartown, MA

Hazard Mitigation Plan

Affected Critical Facilities

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.

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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; FEMA
Flood Zone - FEMA 2016
Coordinate Reference: Stateplane
MassMainland NAD83 meters

Folder: Hazard Mitigation Plan
Project: HMPseries_FEMA.aprx;
Export: 1/23/2021 HMPseries_FEMA_*.pdf



Hurricane Surge Inundation

Edgartown, MA

Hazard Mitigation Plan

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Affected Critical Facilities

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Affected Structures

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Unaffected Structures

Hurricane Surge Inundation

Worst Case Scenario

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Category 1

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Category 2

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Category 3

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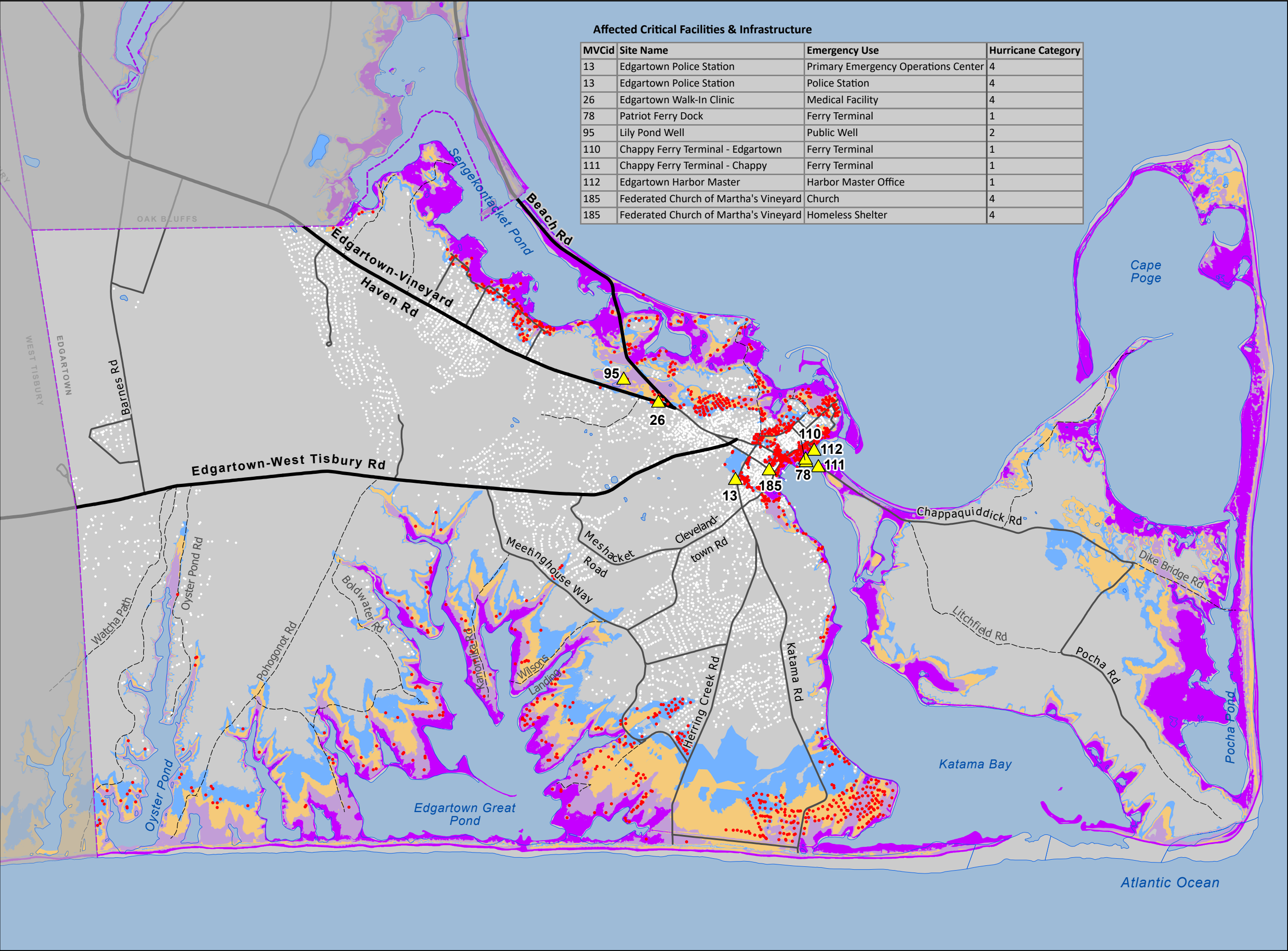
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www.mvcommission.org; 508-693-3453
Data: Structures - MassGIS 2019; Roads 2017;
Town Line - MassGIS 2003/MVC 2020;
Hurricane Inundation - USACE 2013
Coordinate Reference: Stateplane
MassMainland NAD83 meters

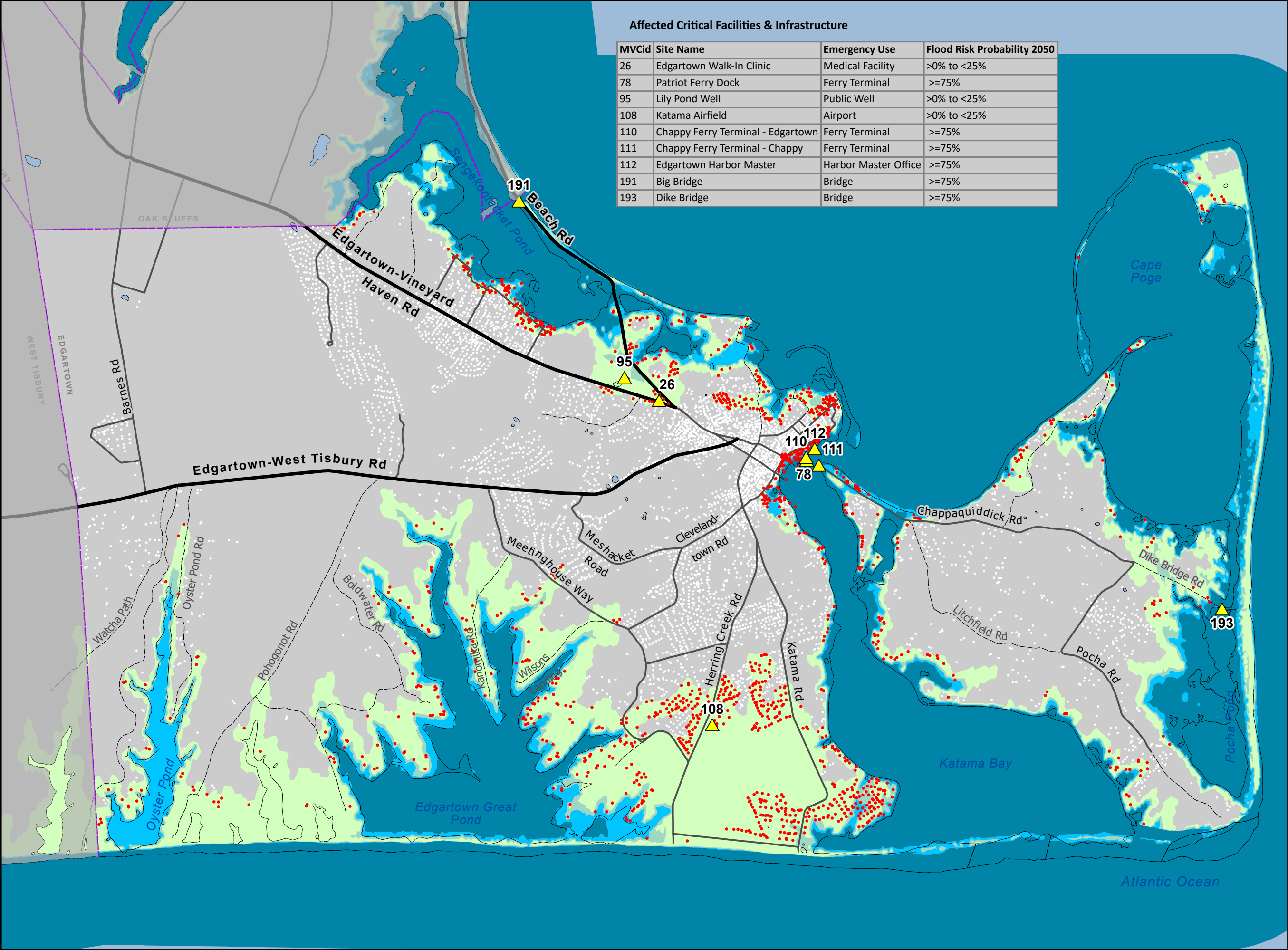
Folder: Hazard Mitigation Plan
Project: HMPseries_SLOSH.aprx;
Export: 1/24/2021 HMPseries_SLOSH_*.pdf



Affected Critical Facilities & Infrastructure

MVCid	Site Name	Emergency Use	Hurricane Category
13	Edgartown Police Station	Primary Emergency Operations Center	4
13	Edgartown Police Station	Police Station	4
26	Edgartown Walk-In Clinic	Medical Facility	4
78	Patriot Ferry Dock	Ferry Terminal	1
95	Lily Pond Well	Public Well	2
110	Chappy Ferry Terminal - Edgartown	Ferry Terminal	1
111	Chappy Ferry Terminal - Chappy	Ferry Terminal	1
112	Edgartown Harbor Master	Harbor Master Office	1
185	Federated Church of Martha's Vineyard	Church	4
185	Federated Church of Martha's Vineyard	Homeless Shelter	4





Affected Critical Facilities & Infrastructure			
MVCid	Site Name	Emergency Use	Flood Risk Probability 2050
26	Edgartown Walk-In Clinic	Medical Facility	>0% to <25%
78	Patriot Ferry Dock	Ferry Terminal	>=75%
95	Lily Pond Well	Public Well	>0% to <25%
108	Katama Airfield	Airport	>0% to <25%
110	Chappy Ferry Terminal - Edgartown	Ferry Terminal	>=75%
111	Chappy Ferry Terminal - Chappy	Ferry Terminal	>=75%
112	Edgartown Harbor Master	Harbor Master Office	>=75%
191	Big Bridge	Bridge	>=75%
193	Dike Bridge	Bridge	>=75%

Annual Coastal
Flood
Exceedance
Probability

2050 Scenario: 2.57ft Sea
Level Rise relative to year
2008

Edgartown, MA
Hazard Mitigation Plan

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Affected Critical Facilities

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Affected Structures

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Unaffected Structures

Coastal Flood Exceedance
Probability

>=75%

>=50% to <75%

>=25% to <50%

>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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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_FRMprob2050.aprx;
Export: 2/2/2021 HMPseries_FRMprob2050_*.pdf

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Miles

EDGARTOWN MARTHA'S VINEYARD

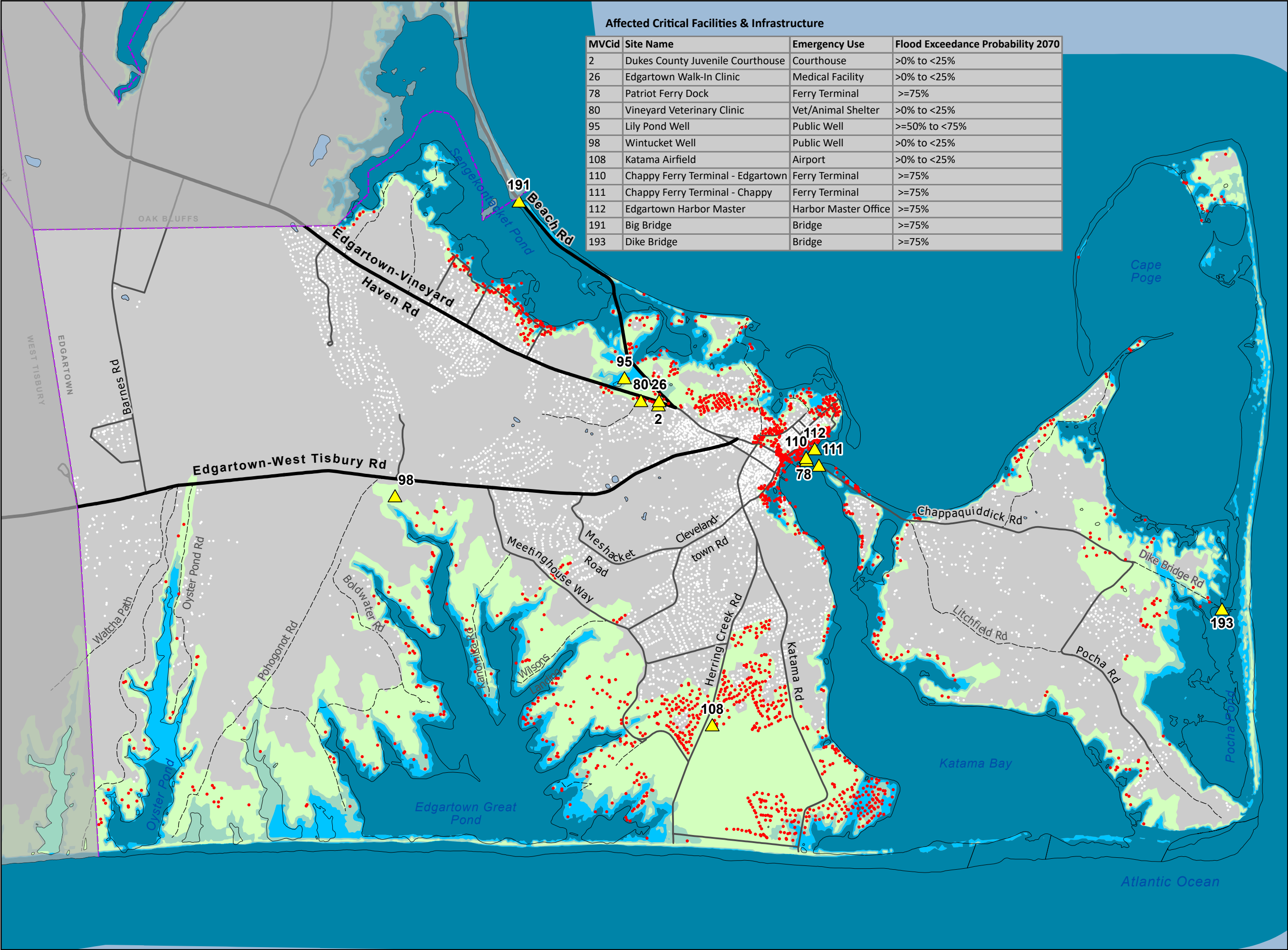
INCORPORATED 1917

U.S. DEPARTMENT OF
HOMELAND SECURITY

FEMA

MARTHA'S VINEYARD
COMMISSION

MASS GIS



Affected Critical Facilities & Infrastructure			
MVCid	Site Name	Emergency Use	Flood Exceedance Probability 2070
2	Dukes County Juvenile Courthouse	Courthouse	>0% to <25%
26	Edgartown Walk-In Clinic	Medical Facility	>0% to <25%
78	Patriot Ferry Dock	Ferry Terminal	>=75%
80	Vineyard Veterinary Clinic	Vet/Animal Shelter	>0% to <25%
95	Lily Pond Well	Public Well	>=50% to <75%
98	Wintucket Well	Public Well	>0% to <25%
108	Katama Airfield	Airport	>0% to <25%
110	Chappy Ferry Terminal - Edgartown	Ferry Terminal	>=75%
111	Chappy Ferry Terminal - Chappy	Ferry Terminal	>=75%
112	Edgartown Harbor Master	Harbor Master Office	>=75%
191	Big Bridge	Bridge	>=75%
193	Dike Bridge	Bridge	>=75%

Annual Coastal Flood Exceedance Probability

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

Edgartown, MA Hazard Mitigation Plan

Affected Critical Facilities

Affected Structures

Unaffected Structures

Coastal Flood Exceedance Probability

>=75%

>=50% to <75%

>=25% to <50%

>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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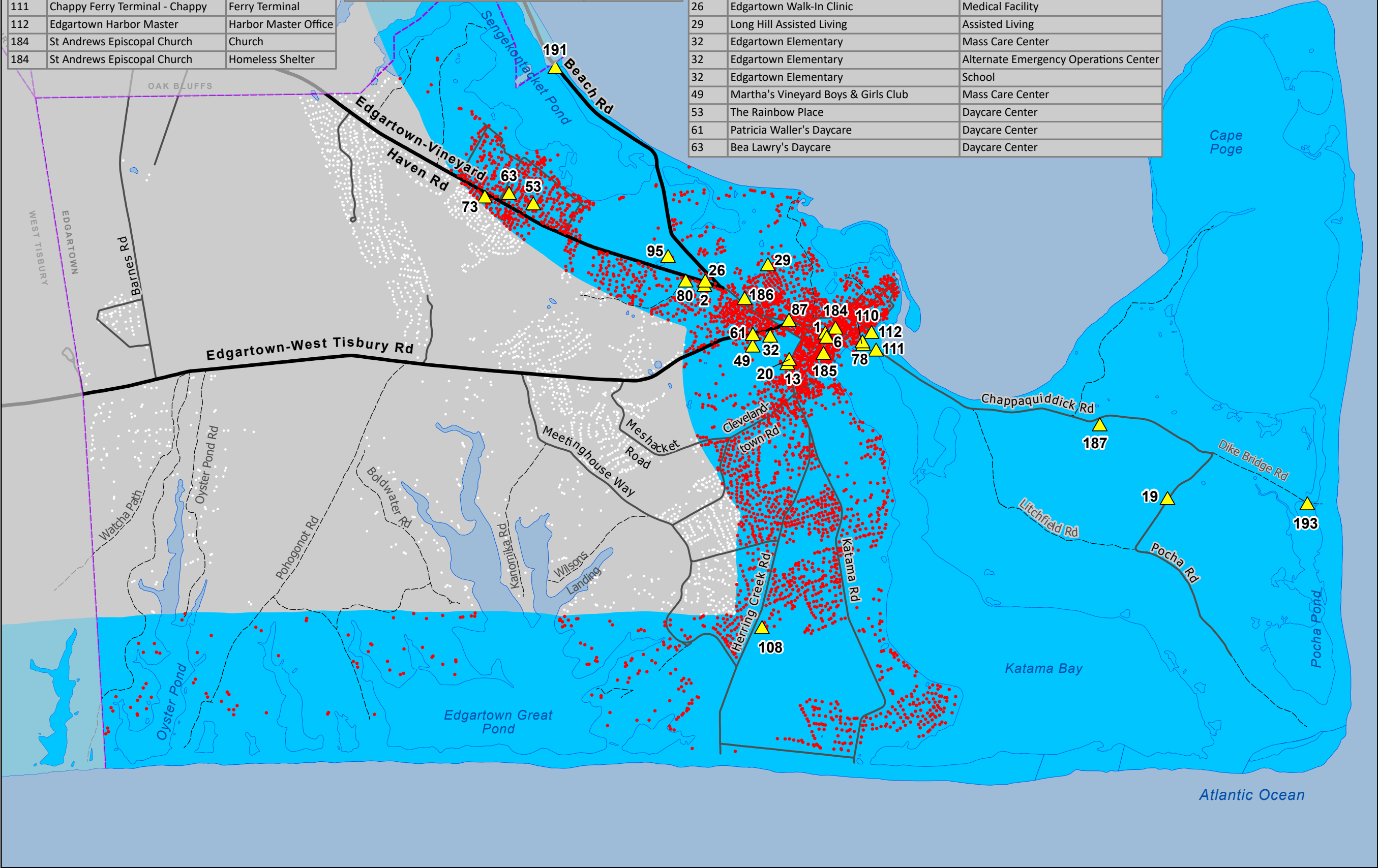
Compiled by: MVC, CL Seidel, www.mvcommission.org; 508-693-3453
Data: Structures - MassGIS 2019; Roads 2017; Town Line - MassGIS 2003/MVC 2020; ACFEP - MassDOT Highway Div. 2020
Coordinate Reference: Stateplane MassMainland NAD83 meters
Folder: Hazard Mitigation Plan
Project: HMPseries_FRMprob2070.aprx;
Export: 2/10/2021 HMPseries_FRMprob2070_*.pdf



MVCid	Site Name	Emergency Use
73	Naomi Higgins' Daycare	Daycare Center
78	Patriot Ferry Dock	Ferry Terminal
80	Vineyard Veterinary Clinic	Vet/Animal Shelter
87	Dukes County Jail	Jailhouse
95	Lily Pond Well	Public Well
108	Katama Airfield	Airport
110	Chappy Ferry Terminal - Edgartown	Ferry Terminal
111	Chappy Ferry Terminal - Chappy	Ferry Terminal
112	Edgartown Harbor Master	Harbor Master Office
184	St Andrews Episcopal Church	Church
184	St Andrews Episcopal Church	Homeless Shelter

Affected Critical Facilities & Infrastructure		
MVCid	Site Name	Emergency Use
185	Federated Church of Martha's Vineyard	Church
185	Federated Church of Martha's Vineyard	Homeless Shelter
186	Stop & Shop - Edgartown	Grocery Store
187	Chappaquiddick Community Center	Community Center
191	Big Bridge	Bridge
193	Dike Bridge	Bridge

MVCid	Site Name	Emergency Use
1	Dukes County Courthouse	Courthouse
2	Dukes County Juvenile Courthouse	Courthouse
6	Edgartown Town Hall	Town Hall
13	Edgartown Police Station	Primary Emergency Operations Center
13	Edgartown Police Station	Police Station
19	Edgartown Fire Department - Chappaquiddick	Fire Department
20	Edgartown Fire Department	Fire Department
26	Edgartown Walk-In Clinic	Medical Facility
29	Long Hill Assisted Living	Assisted Living
32	Edgartown Elementary	Mass Care Center
32	Edgartown Elementary	Alternate Emergency Operations Center
32	Edgartown Elementary	School
49	Martha's Vineyard Boys & Girls Club	Mass Care Center
53	The Rainbow Place	Daycare Center
61	Patricia Waller's Daycare	Daycare Center
63	Bea Lawry's Daycare	Daycare Center



Tsunami Hazard Zone

Edgartown, MA

Hazard Mitigation Plan

Affected Critical Facilities

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; 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: 1/22/2021 HMPseries_Tsunami_*.pdf

