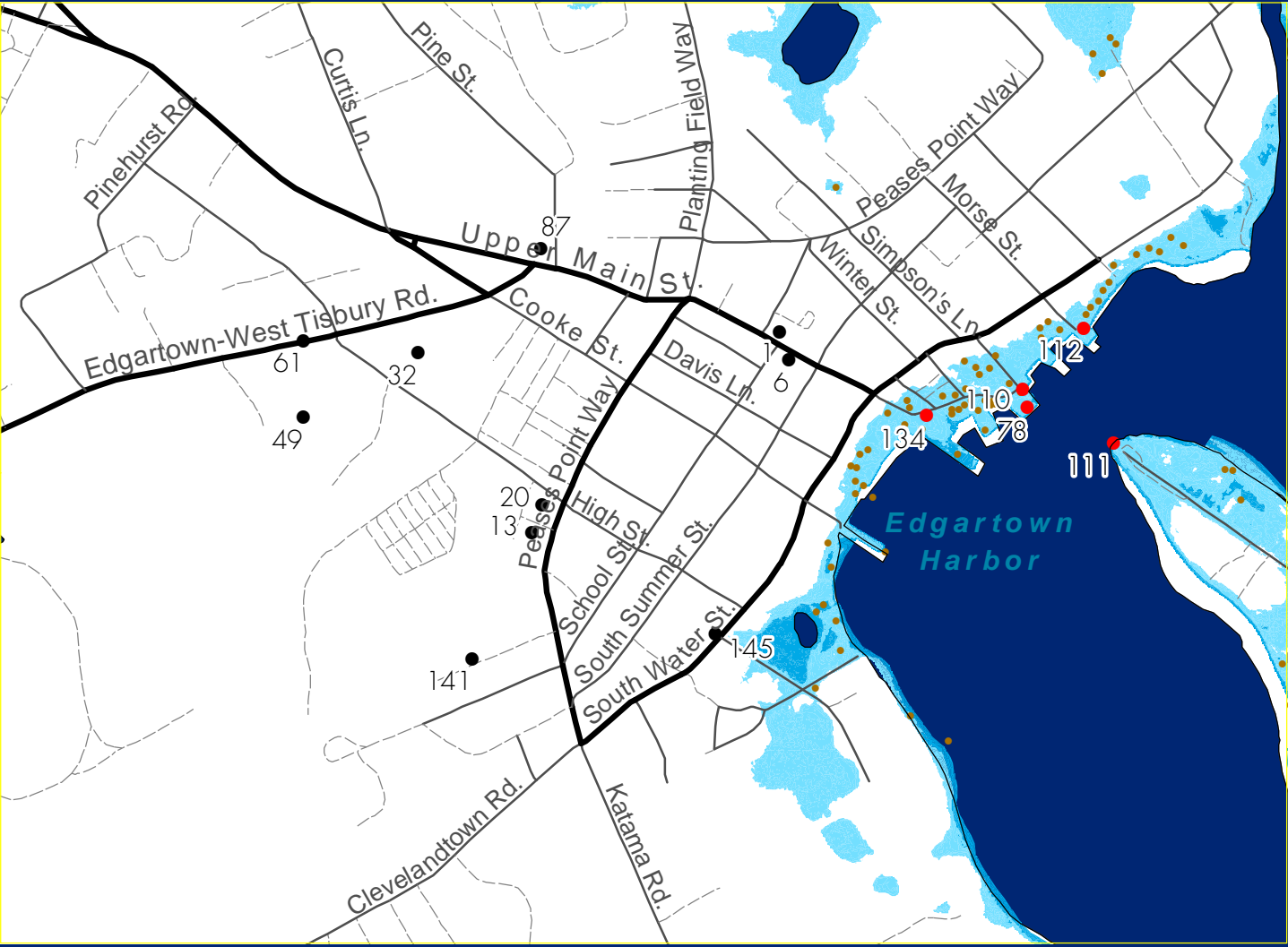
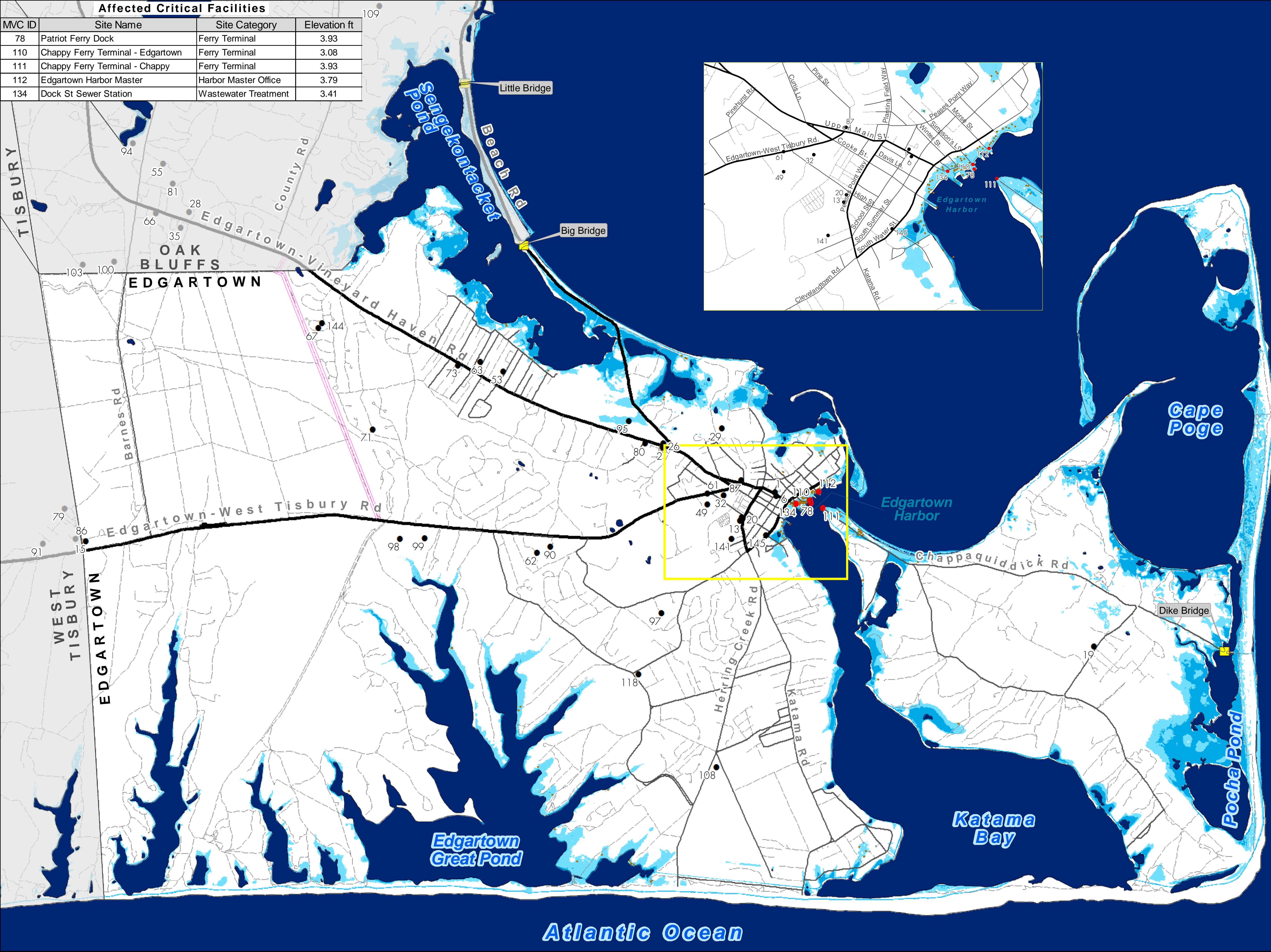


Affected Critical Facilities			
MVC ID	Site Name	Site Category	Elevation ft
78	Patriot Ferry Dock	Ferry Terminal	3.93
110	Chappy Ferry Terminal - Edgartown	Ferry Terminal	3.08
111	Chappy Ferry Terminal - Chappy	Ferry Terminal	3.93
112	Edgartown Harbor Master	Harbor Master Office	3.79
134	Dock St Sewer Station	Wastewater Treatment	3.41



Sea Level Rise Projection

based on 2010 LiDAR elevation data & accounting for MHHW

Edgartown, MA

Pre-Disaster Mitigation Plan

Sea Level Rise Scenarios: 1.5ft and 5ft
Mean High High Water Present Average
Offset from NAVD88 Datum = +1.0ft

Affected Structures

Bridges

Transmission Lines

Critical Facilities

Affected

Not Affected

Sea Level Rise

plus Mean High High Water Offset

<= 2.5ft

>2.5ft to 6.0ft

Roads

Primary Road

Secondary Road

Tertiary Road

Town Boundary

A datum is a reference from which measurements are made. The datum indicates where zero is. For example, the top of a tree may be 30ft high from the ground but that same treetop is only 10ft high from the top of the neighboring rooftop.

NOTES:
This map was produced by the Martha's Vineyard Commission for the Pre-Disaster Mitigation Project of June 2013. Funding for the Pre-Disaster Mitigation Planning Grant was provided by the Massachusetts Emergency Management Agency.

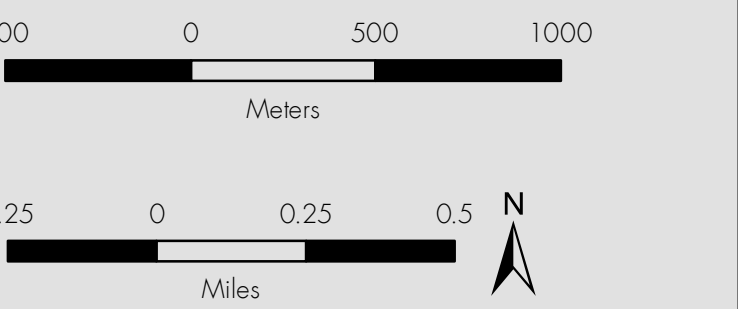
In 2010, LiDAR (Light Detection and Ranging) terrain data was collected along the coast of Martha's Vineyard and the Elizabeth Islands on behalf of FEMA. The data was processed by MassGIS into digital elevation models in geoTIFF format. The elevation points, collected at 3ft spacing and two decimal point precision have a vertical accuracy of 0.47ft. The data exceed the required 1.19ft accuracy for 2ft contour generation.

The average offset between the MHHW tidal datum and the NAVD88 datum was calculated for the island by the MVC. Values were reported by NOAA (online at their Tides & Currents page) for three island tidal benchmarks: Menemsha, Vineyard Haven Harbor, and Edgartown Harbor. Based on those three sites, on average, MHHW is 1.06ft greater than NAVD88.

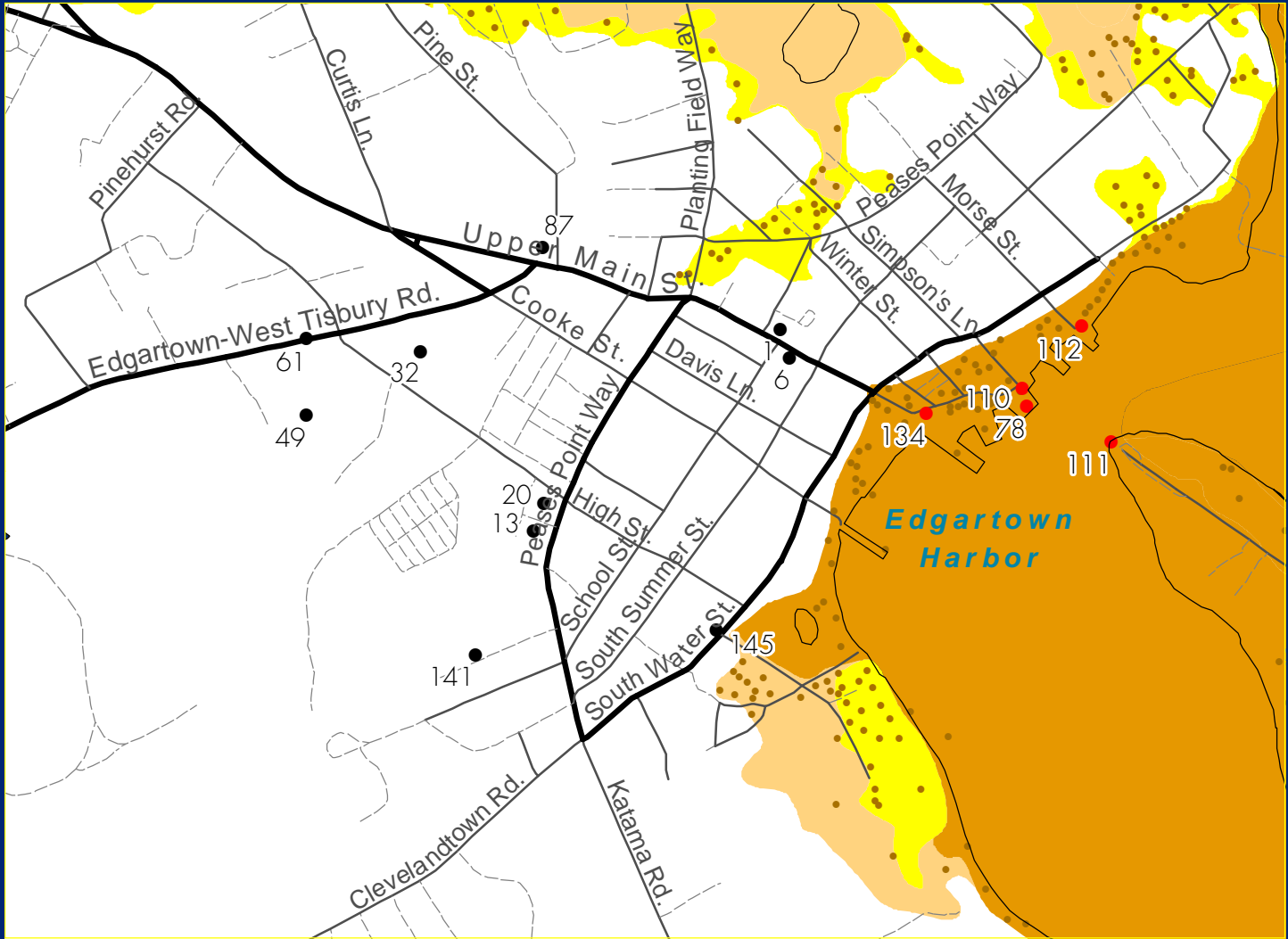
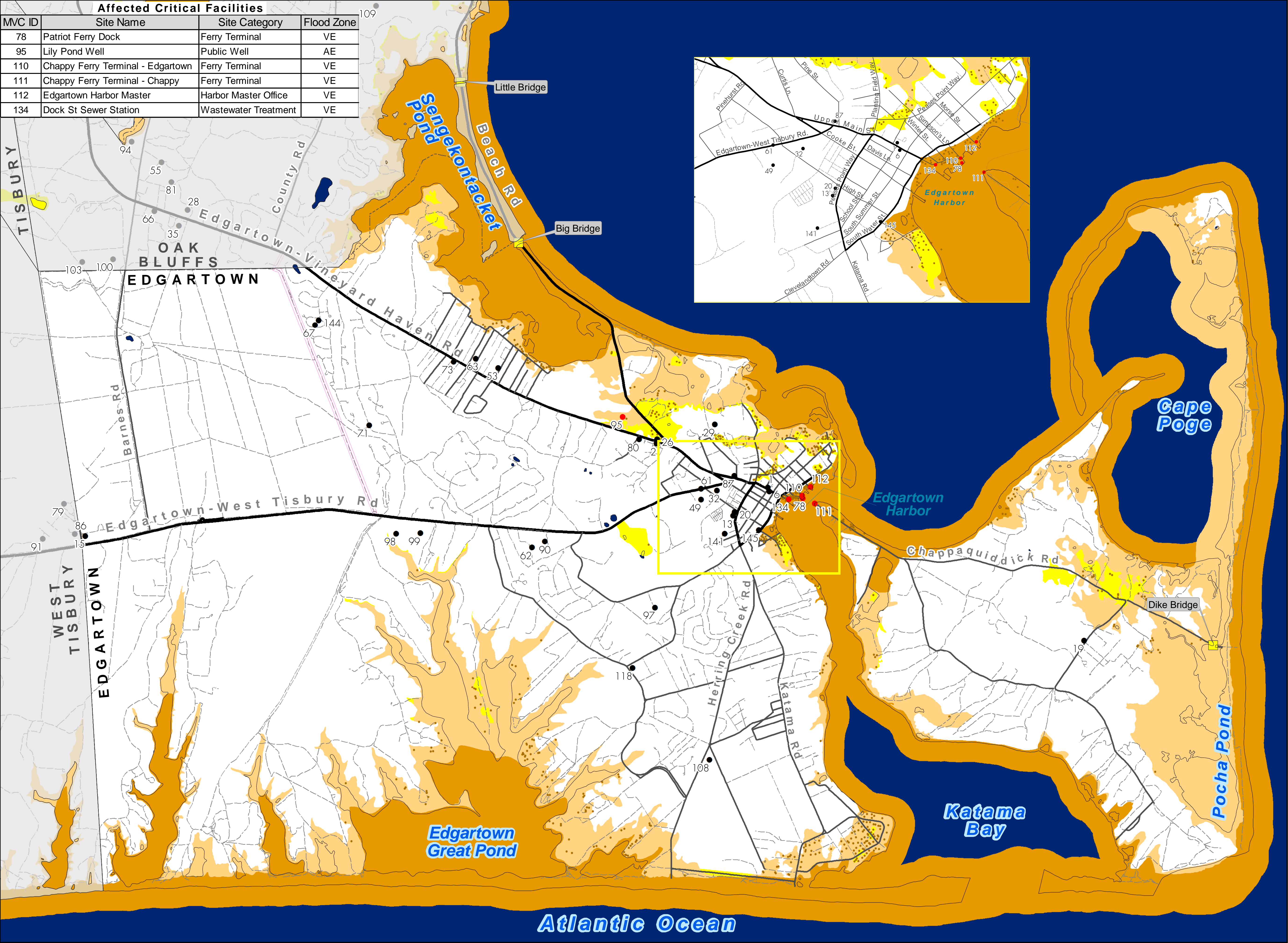
To account for this MHHW to NAVD88 offset, the MVC added an additional 1 foot to the sea level rise scenarios.

DISCLAIMER:
Data provided are for planning purposes only. The data are not adequate for boundary determination or regulatory interpretation. The MVC cannot be responsible for how these data are used or interpreted by the end user.

Compiled By: Martha's Vineyard Commission, CL Seidel, 11/25/13, ph. 508-693-3453, www.mvcommission.org
Data: Town Boundary - MassGIS 2002; Roads - MHD/MassGIS 2005; Critical Facilities & Infrastructure - MEMA 2006 and MVC 2013; LiDAR Elevation Data - FEMA 2010 & MassGIS 2012; Structures - MassGIS 2013 release from 2011 aerial photos
Projection: Stateplane, MA Mainland, NAD83, Meters
File: cls_pdm; Edg_Sealevel_MHHW_2013.mxd - Original in color



Affected Critical Facilities			
MVC ID	Site Name	Site Category	Flood Zone
78	Patriot Ferry Dock	Ferry Terminal	VE
95	Lily Pond Well	Public Well	AE
110	Chappy Ferry Terminal - Edgartown	Ferry Terminal	VE
111	Chappy Ferry Terminal - Chappy	Ferry Terminal	VE
112	Edgartown Harbor Master	Harbor Master Office	VE
134	Dock St Sewer Station	Wastewater Treatment	VE



100 & 500 Year Flood Map Edgartown, MA

Pre-Disaster Mitigation Plan

- Affected Structures
- Bridges
- Transmission Lines
- Critical Facilities
 - Affected
 - Not Affected
- Flood Zones*
 - 100 Year (VE Zone)
 - 100 Year (AE Zone)
 - 500 Year Zone
- Roads
 - Primary Road
 - Secondary Road
 - Tertiary Road
- Town Boundary

*Data provided by FEMA - Preliminary DFIRM June 2013

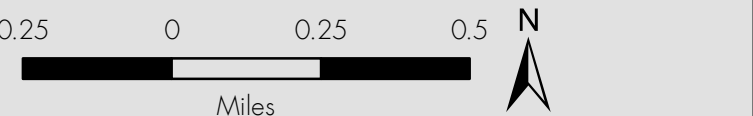
NOTES:
This map was produced by the Martha's Vineyard Commission for the Pre-Disaster Mitigation Project of June 2013. Funding for the Pre-Disaster Mitigation Planning Grant was provided by the Massachusetts Emergency Management Agency.

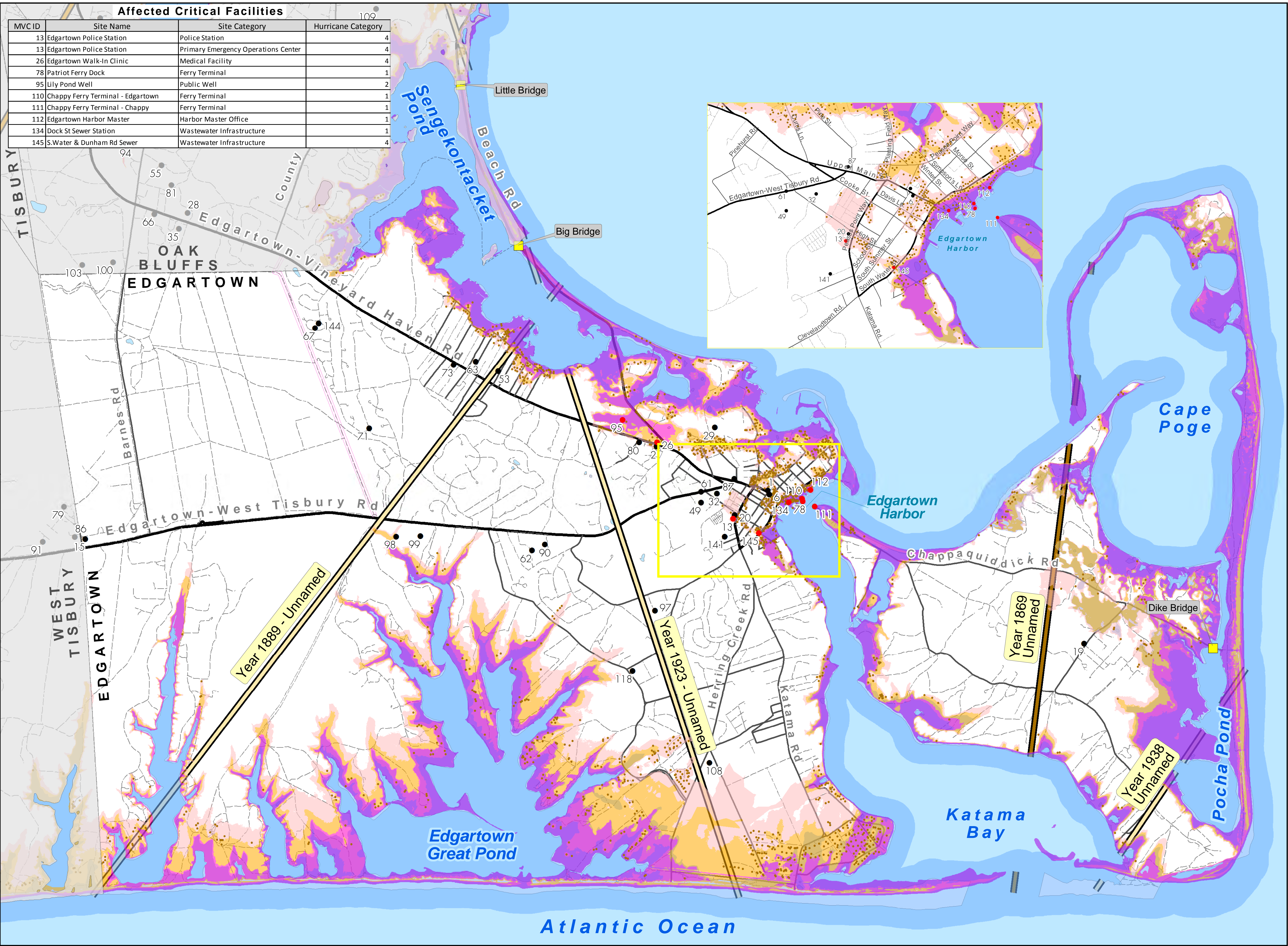
The 100 year & 500 year flood areas represent a subset of the data available on the paper Flood Insurance Rate Maps (FIRM) as provided by the Federal Emergency Management Agency (FEMA). These data were developed by FEMA to support floodplain management and planning activities but do not replace the official paper FIRMs. These data are not suitable for engineering applications or site work nor can the data be used to determine absolute delineations of flood boundaries. Instead the data should be used to portray zones of uncertainty and possible risks associated with flooding. These data do not replace the paper FIRMs which remain the official documents.

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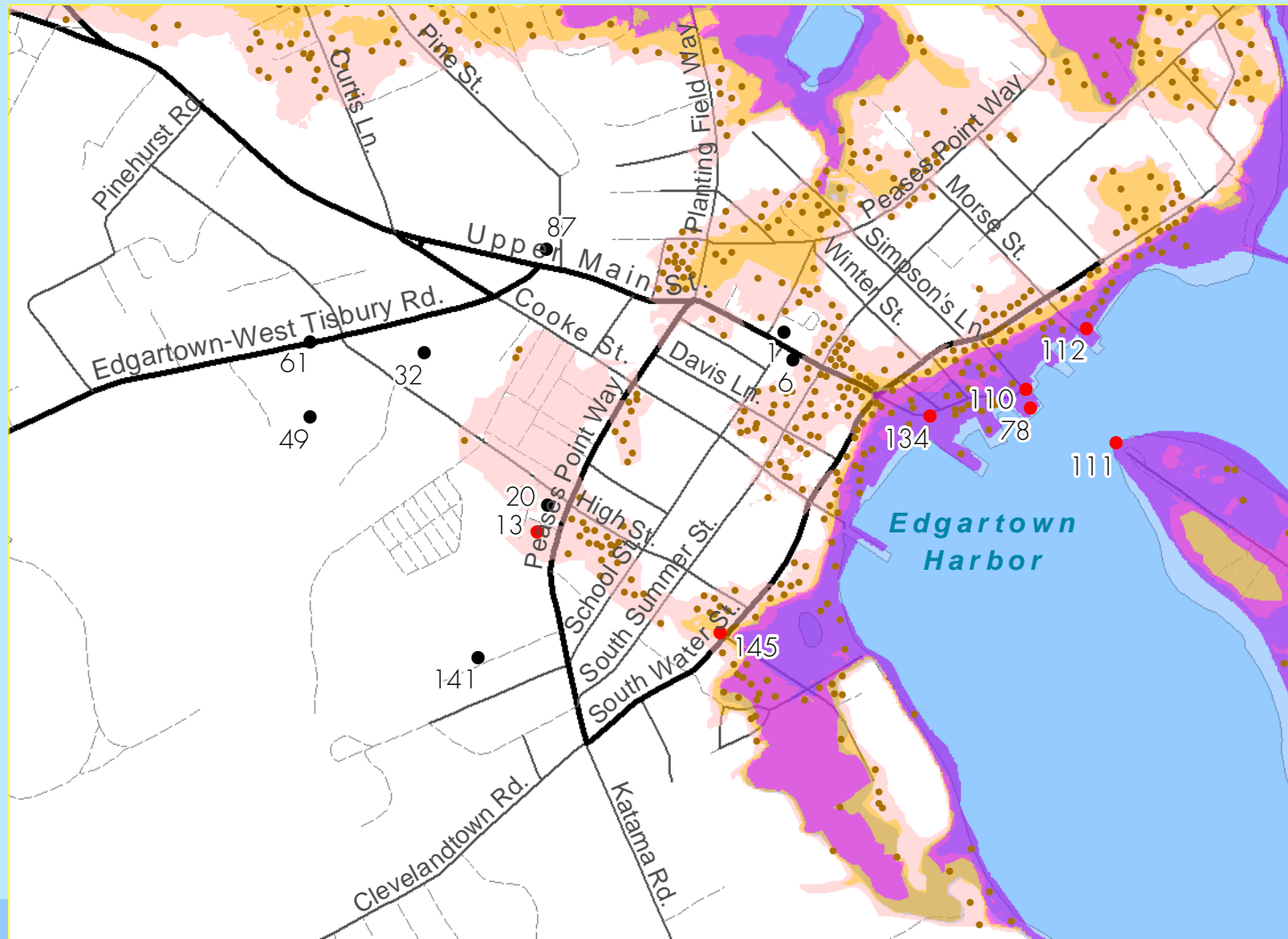
Compiled By: Martha's Vineyard Commission, CL Seidel, 6/11/13, ph. 508-693-3453, www.mvcommission.org

Data: Town Boundary - MassGIS 2002; Roads - MHD/MassGIS 2005; Critical Facilities & Infrastructure - MEMA 2008 and MVC 2013; Flood Data - Preliminary dFIRM FEMA June 2013; Structures - MassGIS 2013 release from 2011 aerial photos
Projection: Slatkplane, MA Mainland, NAD83, Meters
File: cls_pdm; Edg_dfirm_prelim_2013.mxd - Original in color





Affected Critical Facilities			
MVC ID	Site Name	Site Category	Hurricane Category
13	Edgartown Police Station	Police Station	4
13	Edgartown Police Station	Primary Emergency Operations Center	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
134	Dock St Sewer Station	Wastewater Infrastructure	1
145	S.Water & Dunham Rd Sewer	Wastewater Infrastructure	4



Hurricane Surge Inundation and Hurricane Tracks

Edgartown, MA

Pre-Disaster Mitigation Plan

- Affected Structures
- Bridges
- Transmission Lines
- Critical Facilities
 - Affected
 - Not Affected
- FEMA 100 Year Flood Zone*
- Hurricane Surge Inundation (Flooding) Worst Case Scenario
 - Category 1
 - Category 2
 - Category 3
 - Category 4
- Hurricane Track CATEGORY
 - TS - Tropical Storm (39-73 MPH)
 - H1 - Category 1 (74-95 MPH)
 - H2 - Category 2 (96-110 MPH)
- Roads
 - Primary Road
 - Secondary Road
 - Tertiary Road
- Town Boundary

*Data provided by FEMA - Preliminary DFIRM June 2013

NOTES:
This map was produced by the Martha's Vineyard Commission for the Pre-Disaster Mitigation Project of 2013. Funding for the Pre-Disaster Mitigation Planning Grant was provided by the Massachusetts Emergency Management Agency.

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."

"The primary elevation data source was LiDAR data collected from Nov 2009 to Feb 2010 by Camp Dresser and McKee. This data was supplemented with MassGIS Digital Terrain Model (DTM) files which were made available in April 2003."

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.

DISCLAIMER:
Data provided are for planning purposes only. The data are not adequate for boundary determination or regulatory interpretation. Nor should these data be considered an absolute representation indicating which areas can expect to be flooded by hurricane storm surge for a particular category. The MVC cannot be responsible for how these data are used or interpreted by the end user.

Compiled By: Martha's Vineyard Commission, CL Seidel, 8/27/13, ph. 508-693-3453, www.mvcommission.org

Data: Town Boundary - MassGIS 2002; Roads - MHD/MassGIS 2005; Critical Facilities & Infrastructure - MEMA 2006 and MVC 2013; Inundation Areas - USACE 2013; Hurricane Track - NOAA; Flood Zone - FEMA Preliminary June 2013
Projection: Stateplane, MA Mainland, NAD83, Meters
File: cls_pdm; Edg_HurriSLOSH_2013_v2.mxd - Original in color



