

# Focus on South Quincy/Fore River—Mitigation Actions

Geographic Area	Hazard	Mitigation Action #	Lead Department	Additional Funding Sources	Approximate Cost	Timeframe	Consistency with Mitigation Goals	Consistency with other City Plans	Benefit Cost Review Rating	Priority Ranking
Citywide	Flood	Ongoing Salt Marsh Restoration & coordination with US Army Corps of Engineers	Parks & Forestry Dept/ DPW	CZM/ USAC-OE	\$	1-5 years	Increase resilience by protecting and enhancing natural resources	Open Space Plan	6	High
Citywide	Flood	Small MS4 Program - Drainage System O&M Plan includes invasive species removal	DPW	MassDEP	\$	2-4 years	Protect existing properties and structures	Stormwater Management Plan	5	Medium
Citywide	Flood	Evaluate use of Tree Filter Boxes in flood prone areas to improve stormwater infiltration	Parks and Forestry	MassDEP	\$	1-2 years	Increase resilience by protecting and enhancing natural resources	Stormwater Management Plan	5	Medium
Citywide	Flood	Ongoing Sea wall repairs	DPW	EOEA/ FEMA	\$\$\$	1-5 years	Protect existing properties and structures	Capital Improvement Plan	4	Medium
Citywide	Flood	Small MS4 Program - water quality retrofits	DPW	MassDEP	\$	3-5 years	Increase resilience by protecting and enhancing natural resources	Stormwater Management Plan	3	Medium
Citywide	Flood	Ongoing Retrofit and flood proof existing buildings subject to repetitive flooding	Planning	U.S. HUD/ FEMA	\$\$	1-5 years	Protect existing properties and structures	Community Rating System Plan	-1	Low
Citywide	Flood	Ongoing Property Acquisition	Mayor's Office	CPA/ Hotel-Motel Tax	\$	1-5 years	Protect the health and safety of the public	Open Space Plan	-1	Low
Citywide	Flood	Ongoing Elevate Repetitive Loss Structures	Planning	U.S. HUD/ FEMA	\$\$	1-5 years	Protect existing properties and structures	Community Rating System Plan	-3	Low
Citywide	Invasive Species	Develop and implement invasive species removal program	Parks and Forestry, DPW	CZ/ DCR	\$	1-5 years	Increase resilience by protecting and enhancing natural resources	Open Space Plan	11	High
Citywide	Winter Weather and Wind	Obtain additional equipment to improve ability to respond to tree removal from natural hazard events	Parks and Forestry	FEMA	\$\$	1-2 years	Ensure that essential services can function during and after a hazard event	Comprehensive Emergency Management Plan	13	High
South Quincy/Fore River	Brush Fire	Ongoing Conduct outreach to residents about not dumping yard waste in or against the park wall for Faxon Park	Fire/ Emergency Management		\$	1 year	Hazard Awareness	Open Space Plan	12	High
South Quincy/Fore River	Brush Fire	<b>Ongoing</b> Installation of water pipes at Blue Hills Reservation and Faxon Park.	DPW		\$\$\$\$	1 year	Protect the health and safety of the public	Capital Improvement Plan	11	Medium
South Quincy/Fore River	Flood	Water Street Drainage Improvements - Brook Road to Brewers Corner	DPW	CITY	\$\$\$\$	5 years	Protect existing properties and structures. Protect access to SW Middle school	Capital Improvement Plan	4	Medium
South Quincy/Fore River	Flood	Ongoing Drainage improvements in the Penn's Hill Area	DPW	FEMA	\$\$\$\$	1-5 years	Protect existing properties and structures	Capital Improvement Plan	3	Medium

# Squantum Point/Marina Bay –*Flood Risk*

## Present and Future Flood Risk for Inland Community Assets

Community Asset #	Community Asset	Present and Historic Flood Risk				Future Flood Risk	
		FEMA 100-year Floodplain [1]				FEMA Base Flood Elevation plus 2 ft (NAVD88)	Other Flood Area-
		AO	AE	VE	Based Flood Elevation (NAVD 88)		
4	Child's View Day Care		X		12	14	
15	Quincy Health Dept & Council on Aging		X		11	13	
59	Former Squantum Airfield Site		X		11	13	
107	Sewer Pump Station		X		12	14	
151	CVS		X		11	13	
242	QPS Bus Barn		X		11	13	
243	Fallon Ambulance		X		10	12	
252	Boston Scientific		X		11	13	
262	Ayers Towing		X		11	13	
149	Squantum Yacht Club			X	16	18	
152	Marina Bay			X	15	17	

### Notes:

1) <https://msc.fema.gov/>

# Focus on Squantum Point/Marina Bay—Mitigation Actions

Geographic Area	Hazard	Mitigation Action #	Lead Department	Additional Funding Sources	Approximate Cost	Timeframe	Consistency with Mitigation Goals	Consistency with other City Plans	Benefit Cost Review Rating	Priority Ranking
Citywide	All Hazards	Revised Public Education-Provide additional opportunities for City Staff Departments	Mayor's Office, DPW, Planning		\$	1 year	Hazard Awareness	Comprehensive Emergency Management Plan	13	High
Citywide	All Hazards	Revised- Emergency Power Generators will be added or improved as needed	DPW/ Emergency Management	FEMA	\$	1 year	Emergency Response to Hazards	Comprehensive Emergency Management Plan	13	High
Citywide	All Hazards	Evaluation of hurricane barrier to address Sea Level Rise and increasing surge	DPW		\$	1-3 years	Protect existing properties and structures	Resilient Quincy	11	High
Citywide	All Hazards	Cloud Based Record Storage and Access System for Building Inspections	IT/ Inspectional Services		\$\$	1-2 years	Emergency Response to Hazards	Comprehensive Emergency Management Plan	11	High
Citywide	All Hazards	Discuss Climate Change Adaptation Plan with Stormwater Advisory Committee annually	DPW		\$	1 year	Planning for Future Development	Stormwater Management Plan	10	Medium
Citywide	All Hazards	Ongoing analysis to consolidate Emergency Communications System	IT/ Emergency Management		\$	1 year	Emergency Response to Hazards	Comprehensive Emergency Management Plan	10	Medium
Citywide	All Hazards	Maintain Comprehensive Emergency Management Plan	Emergency Management		\$	1-2 years	Emergency Response to Hazards	Comprehensive Emergency Management Plan	9	Medium
Citywide	All Hazards	Incorporate coastal management staff and resources into the proposed Natural Resource Department	Parks and Forestry		\$\$	1-2 years	Increase resilience by protecting and enhancing natural resources	Comprehensive Emergency Management Plan/ Open Space Plan	9	Medium
Citywide	Coastal Erosion	Maintain coastal buffers to stabilize shorelines	Parks and Forestry	DCR CZM MVP	\$\$	1-3 years	Increase resilience by protecting and enhancing natural resources	Open Space Plan	3	High
Citywide	Earthquakes	<b>Revised</b> Seismic impact evaluation and gas utility study.	Public Buildings Department		\$	3-5 years	Protect the health and safety of the public	Comprehensive Emergency Management Plan	11	High
Citywide	Flood	Sewer Interceptor Relief for Downtown- Burgin Parkway	DPW	SRF	\$\$\$\$	3-5 years	Protect existing properties and structures	Capital Improvement Plan	9	High
Citywide	Flood	Ongoing Tide-gate management plan- annual cost	DPW/ Inspectional Services	EOEA/ FEMA	\$	1-2 years	Protect existing properties and structures	Stormwater Management Plan	9	High
Citywide	Flood	Incorporate Climate Change Adaptation Plan into HMP	Planning	FEMA	\$	1-2 years	Protect existing properties and structures	Quincy Resilient Plan	8	High
Citywide	Flood	Purchase high capacity mobile pumps	DPW	FEMA	\$\$\$\$	1-2 years	Protect existing properties and structures	Stormwater Management Plan	6	High

# Focus on Squantum Point/Marina Bay—Mitigation Actions

Geographic Area	Hazard	Mitigation Action #	Lead Department	Additional Funding Sources	Approximate Cost	Timeframe	Consistency with Mitigation Goals	Consistency with other City Plans	Benefit Cost Review Rating	Priority Ranking
Citywide	Flood	Ongoing Salt Marsh Restoration & coordination with US Army Corps of Engineers	Parks & Forestry Dept/ DPW	CZM/ USAC-OE	\$	1-5 years	Increase resilience by protecting and enhancing natural resources	Open Space Plan	6	High
Citywide	Flood	Small MS4 Program - Drainage System O&M Plan includes invasive species removal	DPW	MassDEP	\$	2-4 years	Protect existing properties and structures	Stormwater Management Plan	5	Medium
Citywide	Flood	Evaluate use of Tree Filter Boxes in flood prone areas to improve stormwater infiltration	Parks and Forestry	MassDEP	\$	1-2 years	Increase resilience by protecting and enhancing natural resources	Stormwater Management Plan	5	Medium
Citywide	Flood	Ongoing Sea wall repairs	DPW	EOEA/ FEMA	\$\$\$	1-5 years	Protect existing properties and structures	Capital Improvement Plan	4	Medium
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Citywide	Invasive Species	Develop and implement invasive species removal program	Parks and Forestry, DPW	CZ/ DCR	\$	1-5 years	Increase resilience by protecting and enhancing natural resources	Open Space Plan	11	High
Citywide	Winter Weather and Wind	Obtain additional equipment to improve ability to respond to tree removal from natural hazard events	Parks and Forestry	FEMA	\$\$	1-2 years	Ensure that essential services can function during and after a hazard event	Comprehensive Emergency Management Plan	13	High
Squantum Point	Coastal Erosion	Bayside Road slope protection and infrastructure hardening design, permitting & construction	DPW	EOEA/ FEMA	\$\$	3-5 years	Protect existing properties and structures	Capital Improvement Plan	4	High
Squantum Point	Coastal Erosion	Squantum Seawalls Design Permitting & Construction	DPW	EOEA/ FEMA	\$\$\$\$	3-5 years	Protect existing properties and structures	Capital Improvement Plan	-1	Low
Squantum Point	Flood	East Squantum/ Dorchester Streets Drainage Hydraulic Model	DPW	SRF	\$\$	1-2 years	Protect existing properties and structures	Capital Improvement Plan	9	High



## Meeting Agenda

**ATTENDEES:** Quincy Municipal Vulnerability Preparedness  
Community Resilience Building Workshop #2

**LOCATION:** Quincy City Hall

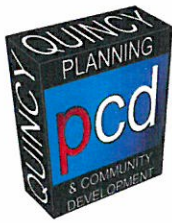
**DATE:** May 14, 2019

**START TIME:** 5:30 PM

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5:30 PM	Sign in, Refreshments	
5:30 PM	Individual Map Exercise	
6:10 PM	Group Introductions	Table groups
6:15 PM	Session 1: Introduction, Natural Hazard Risks and Climate Change	Tighe & Bond
6:30 PM	Table Discussion #1 Identifying Risk Area and Community Strengths	Table groups
6:45 PM	Session 2: Mitigation Strategies for Vulnerable Assets	Tighe & Bond
7:00 PM	Table Discussion #2 Identify Actions to Address Vulnerabilities or Protect Strengths	Table groups
7:20 PM	Short Break	
7:30 PM	Large Group Discussion #3 Small group report out to full group on top 3-5 actions	Table groups
8:00 PM	Wrap up and closing remarks	
8:30 PM	Adjourn	

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DEPARTMENT OF PLANNING & COMMUNITY DEVELOPMENT

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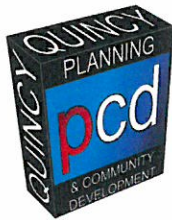
JAMES J. FATSEAS  
Director

THOMAS P. KOCH  
Mayor

Quincy MVP Workshop #2  
May 14, 2019

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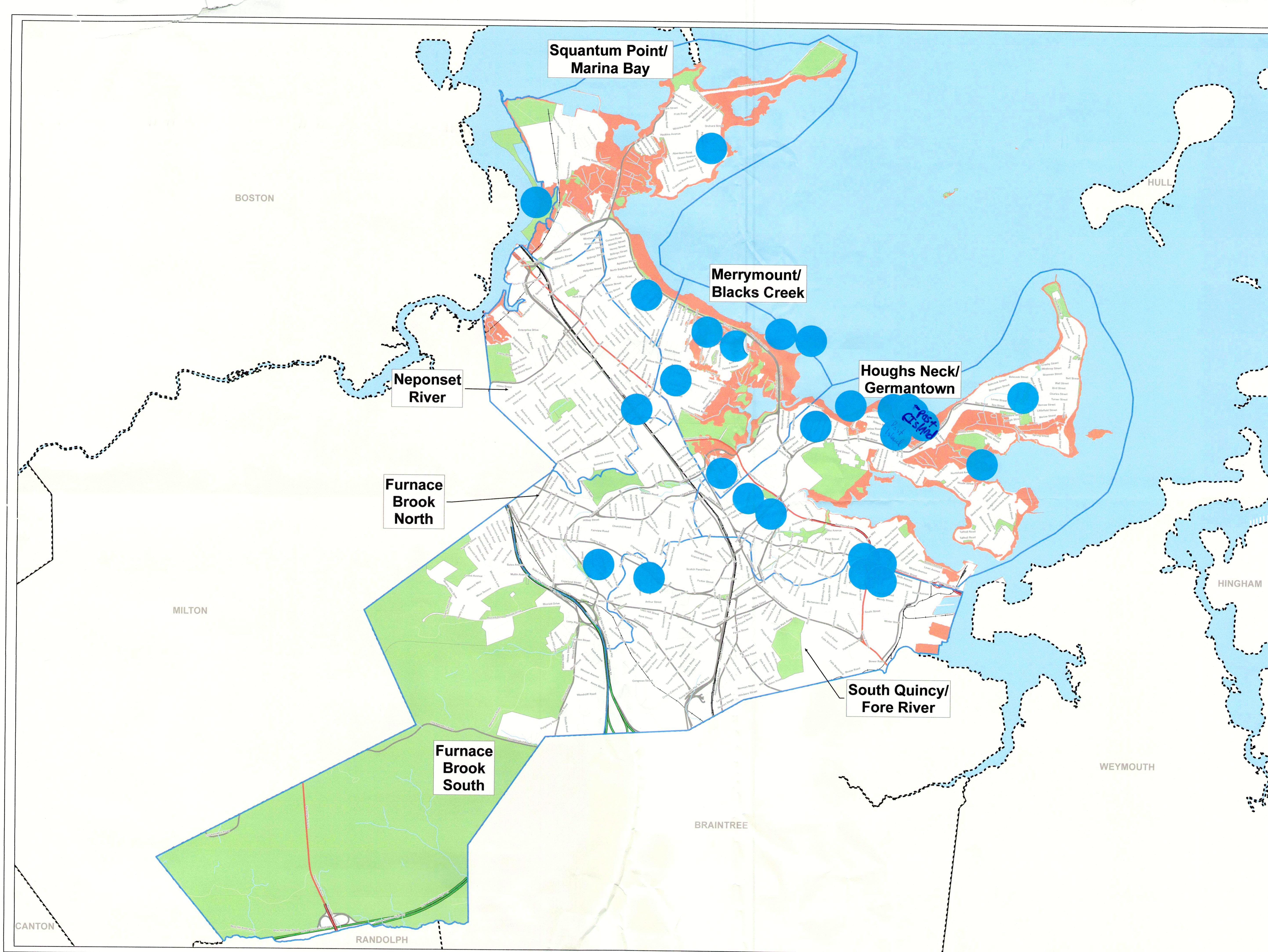
JAMES J. FATSEAS  
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THOMAS P. KOCH  
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Quincy MVP Workshop #2  
May 14, 2019




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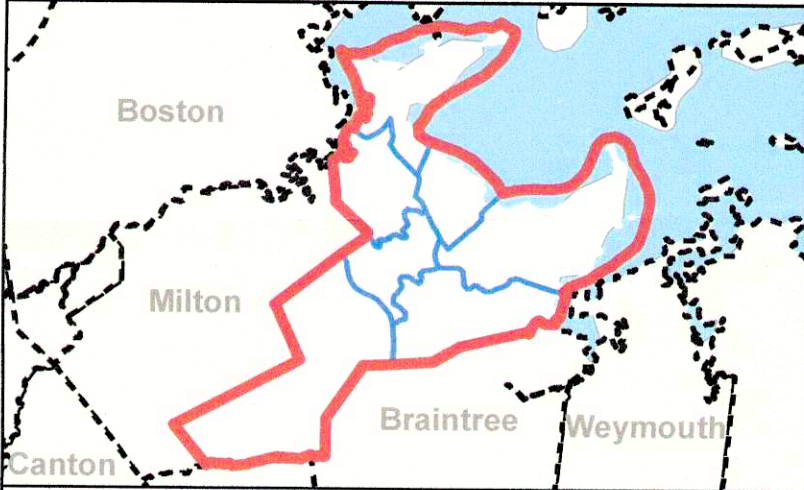


**Quincy, MA  
Community Assets**

**LEGEND**

-  Planning Areas
-  NOAA SLR - 2ft
-  Natural Resources

**LOCUS MAP**



1:21,000

**NOTES**

Map Created for City of Quincy. Resource data provided by: Bureau of Geographic Information (MassGIS), Commonwealth of Massachusetts, Executive Office of Technology and Security Services Executive Office of Environmental Affairs, Federal Emergency Management Agency (FEMA) National Flood Hazard Layer, City of Quincy, Metropolitan Area Planning Council, and MassDOT

**Multi Hazard Mitigation Plan  
Multi-Hazard**

**Quincy, Massachusetts**

March 2019

**Tighe & Bond**  
Engineers | Environmental Specialists



# Quincy Community Assets- Strengths and Vulnerabilities

**Individual Mapping Exercise:** The purpose of this mapping exercise is to allow workshop participants to take a fresh look at the 326 community assets that were identified in the Quincy 2019 Hazard Mitigation Plan and see which locations should be counted at the top for assets that providing a significant strength to the community in the face of natural hazards. The mapping exercise also asks participants to consider which assets or locations in Quincy are most vulnerable to natural hazards\*.

**What is a Community Asset?** Community asset as anything that is important to the character and function of Quincy. Community assets are split up into four different categories: People, Economy, Built Environment, and Natural Environment described below.

Community Asset Categories	Critical Sectors	Characteristics of Community Assets
<b>People</b>	Schools, Vulnerable Populations, Cultural Facilities, Cultural Resources	Areas of greater population density, or population with unique vulnerabilities or less able to respond and recover during a disaster.
<b>Built Environment</b>	Critical Municipal Facilities, Water, Wastewater, Energy, Stormwater, Transportation,	Critical facilities necessary for a community's response to and recovery from emergencies, infrastructure critical for public health and safety, economic viability, or needed for critical facilities to operate.
<b>Economy</b>	Marinas, Business District, Food and Drug Supplies,	Major employers, primary economic sectors and commercial centers where loss or inoperability would have severe impact on the community and ability to recover from a disaster.
<b>Natural Environment</b>	Natural Resources	Areas that provide protective function to reduce magnitude of hazard impact and increase resiliency. Areas of sensitive habitat that are vulnerable to hazard events, protection of areas that are important to community objectives, such as the protection of sensitive habitat, provide socio-economic benefits, etc.

**PLEASE USE YOUR DOTS AND POST-ITS TO COMPLETE THE FOLLOWING:**

**Question #1: Which community assets are most important to you?**

Directions: Put green dot on the asset, write asset name on post it and note why you made this choice on the back.

**Question #2: In your experience, which community assets are most vulnerable to natural hazards\*?**

Directions: Put a red dot on the asset or area, write asset/area name on post it and note why you made this choice on the back.

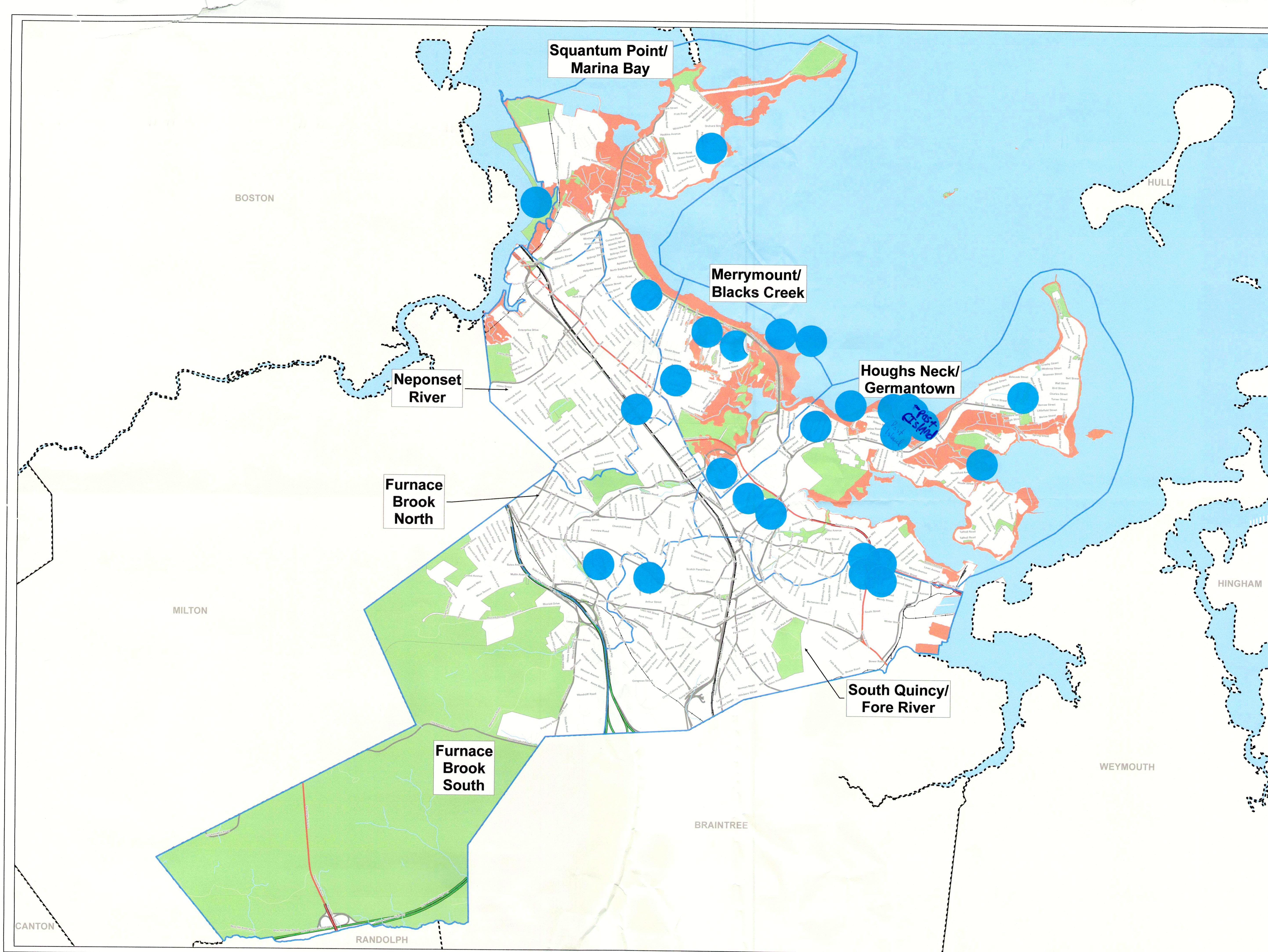
**\*Natural Hazards: inland and coastal flooding, extreme winter weather & nor'easters, coastal erosion**

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## APPENDIX C




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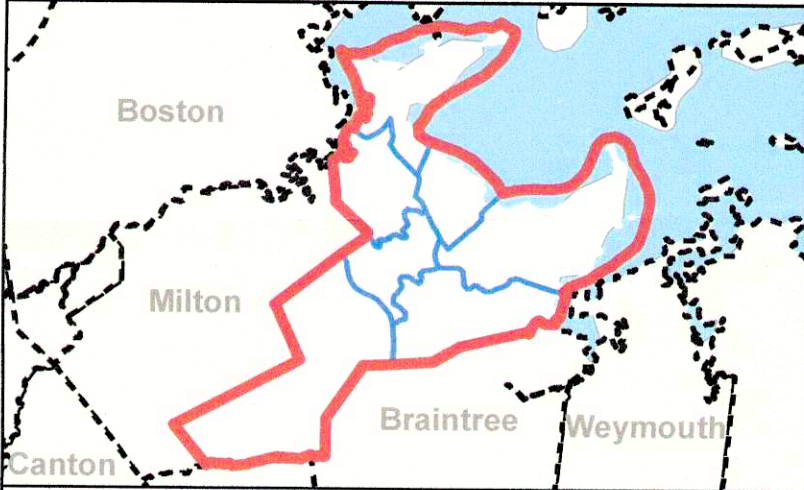


**Quincy, MA  
Community Assets**

**LEGEND**

-  Planning Areas
-  NOAA SLR - 2ft
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**LOCUS MAP**



1:21,000

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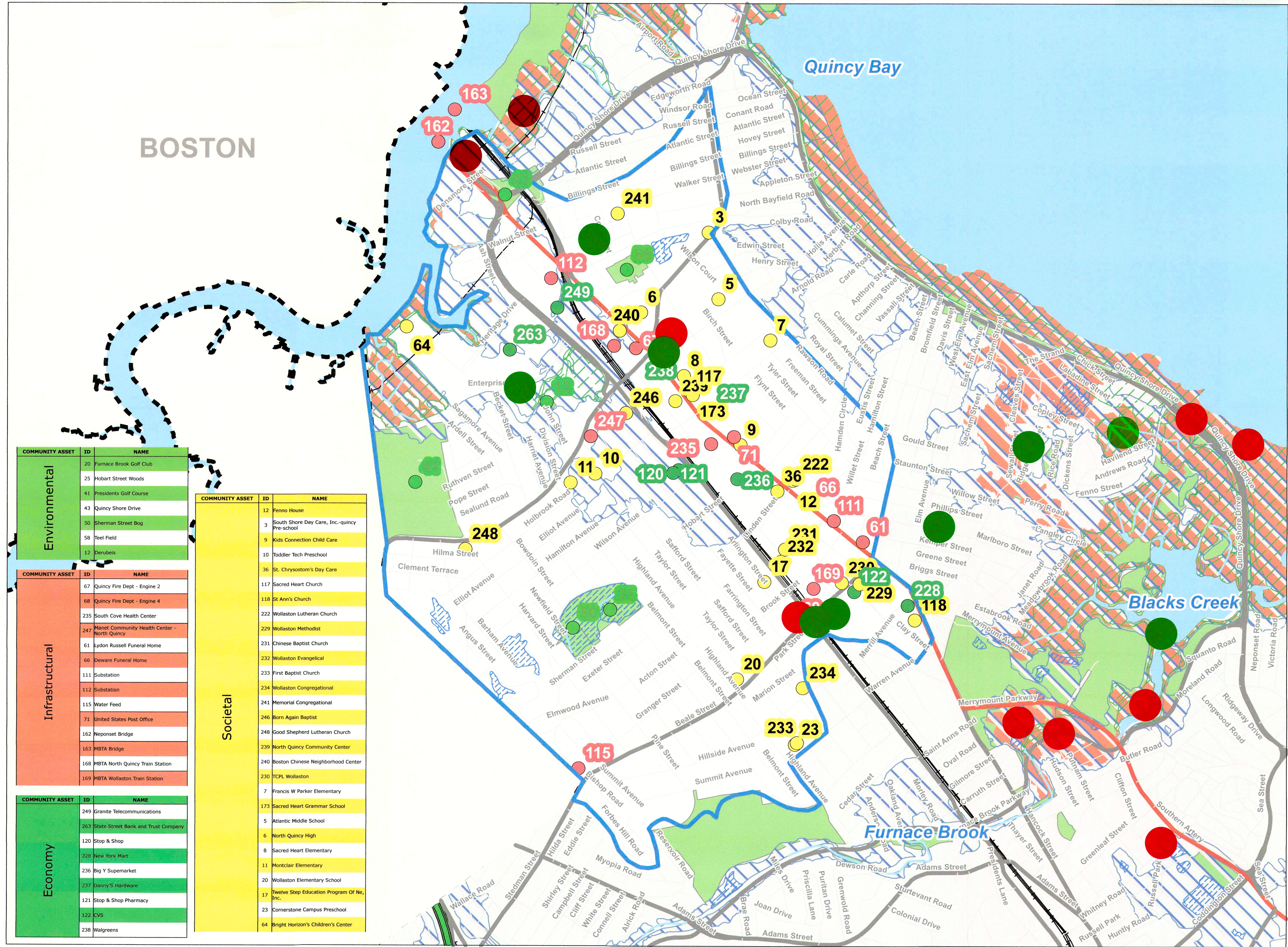
**Multi Hazard Mitigation Plan  
Multi-Hazard**

**Quincy, Massachusetts**

March 2019

**Tighe & Bond**  
Engineers | Environmental Specialists





COMMUNITY ASSET	ID	NAME
Environmental	20	Furnace Brook Golf Club
	25	Hobart Street Woods
	41	Presidents Golf Course
	43	Quincy Shore Drive
	50	Sherman Street Bog
	58	Teel Field
Infrastructural	64	Enterprise
	67	Quincy Fire Dept - Engine 2
	68	Quincy Fire Dept - Engine 4
	235	South Cove Health Center
	247	Manet Community Health Center - North Quincy
	61	Lydon Russell Funeral Home
Economy	66	Deware Funeral Home
	111	Substation
	112	Substation
	115	Water Feed
	71	United States Post Office
	162	Neponset Bridge

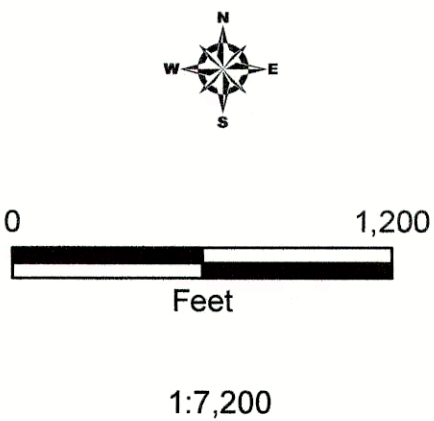
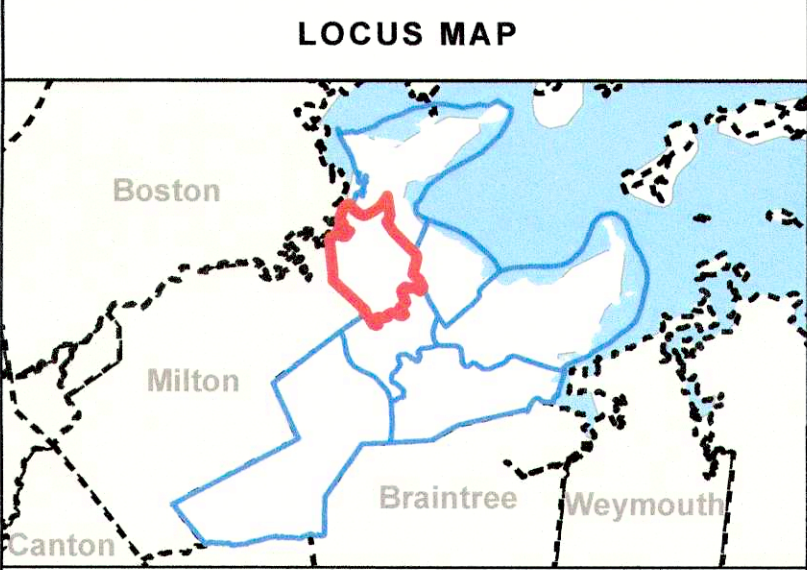
COMMUNITY ASSET	ID	NAME
Environmental	67	Quincy Fire Dept - Engine 2
	68	Quincy Fire Dept - Engine 4
	235	South Cove Health Center
	247	Manet Community Health Center - North Quincy
	61	Lydon Russell Funeral Home
	66	Deware Funeral Home
Infrastructural	111	Substation
	112	Substation
	115	Water Feed
	71	United States Post Office
	162	Neponset Bridge
	163	MBTA Bridge

COMMUNITY ASSET	ID	NAME
Environmental	249	Granite Telecommunications
	263	State Street Bank and Trust Company
	120	Stop & Shop
	228	New York Mart
	236	Big Y Supermarket
	237	Danny's Hardware
Infrastructural	121	Stop & Shop Pharmacy
	122	CVS
	238	Walgreens
	239	North Quincy Community Center
	240	Boston Chinese Neighborhood Center
	230	TCPL Wollaston

COMMUNITY ASSET	ID	NAME
Environmental	12	Fenno House
	3	South Shore Day Care, Inc.-quincy Pre-school
	9	Kids Connection Child Care
	10	Toddler Tech Preschool
	36	St. Chrysostom's Day Care
	117	Sacred Heart Church
Infrastructural	118	St Ann's Church
	222	Wollaston Lutheran Church
	229	Wollaston Methodist
	231	Chinese Baptist Church
	232	Wollaston Evangelical
	233	First Baptist Church
Economy	234	Wollaston Congregational
	241	Memorial Congregational
	246	Born Again Baptist
	248	Good Shepherd Lutheran Church
	239	North Quincy Community Center
	240	Boston Chinese Neighborhood Center

# Quincy, MA Community Assets

- LEGEND
- Community Assets**
- Societal
  - Environmental
  - Infrastructural
  - Economy
- Planning Areas
- Inland Wetlands
- Coastal Wetlands
- 100 Year Flood Zone
- NOAA SLR - 2ft
- Natural Resources



NOTES

Map Created for City of Quincy. Resource data provided by: Bureau of Geographic Information (MassGIS), Commonwealth of Massachusetts, Executive Office of Technology and Security Services Executive Office of Environmental Affairs, Federal Emergency Management Agency (FEMA) National Flood Hazard Layer, City of Quincy, Metropolitan Area Planning Council, and MassDOT

## Multi Hazard Mitigation Plan Neponset River

Quincy, Massachusetts

March 2019

**Tighe & Bond**  
Engineers | Environmental Specialists



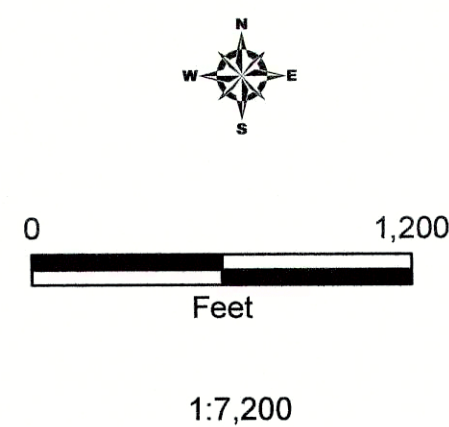
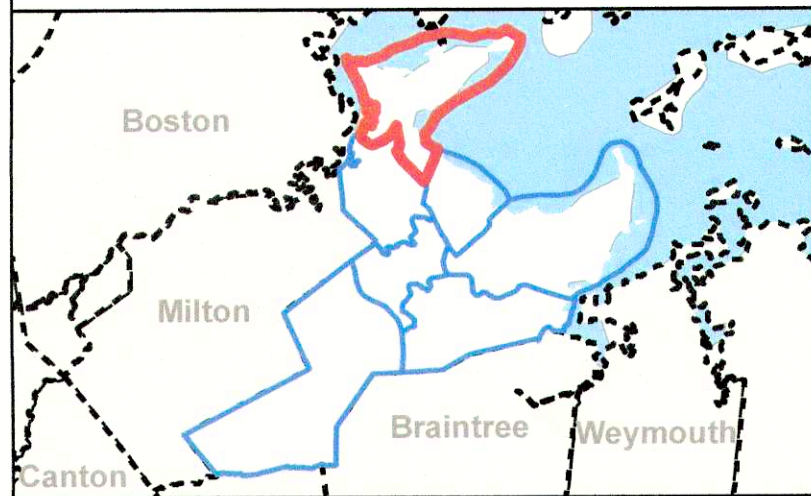
Quincy, MA  
Community Assets

LEGEND

Community Assets

- Societal
- Environmental
- Infrastructural
- Economy
- Planning Areas
- Inland Wetlands
- Coastal Wetlands
- 100 Year Flood Zone
- NOAA SLR - 2ft
- Natural Resources

LOCUS MAP



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Multi Hazard Mitigation Plan  
Squantum Point/ Marina Bay

Quincy, Massachusetts

March 2019

**Tighe & Bond**  
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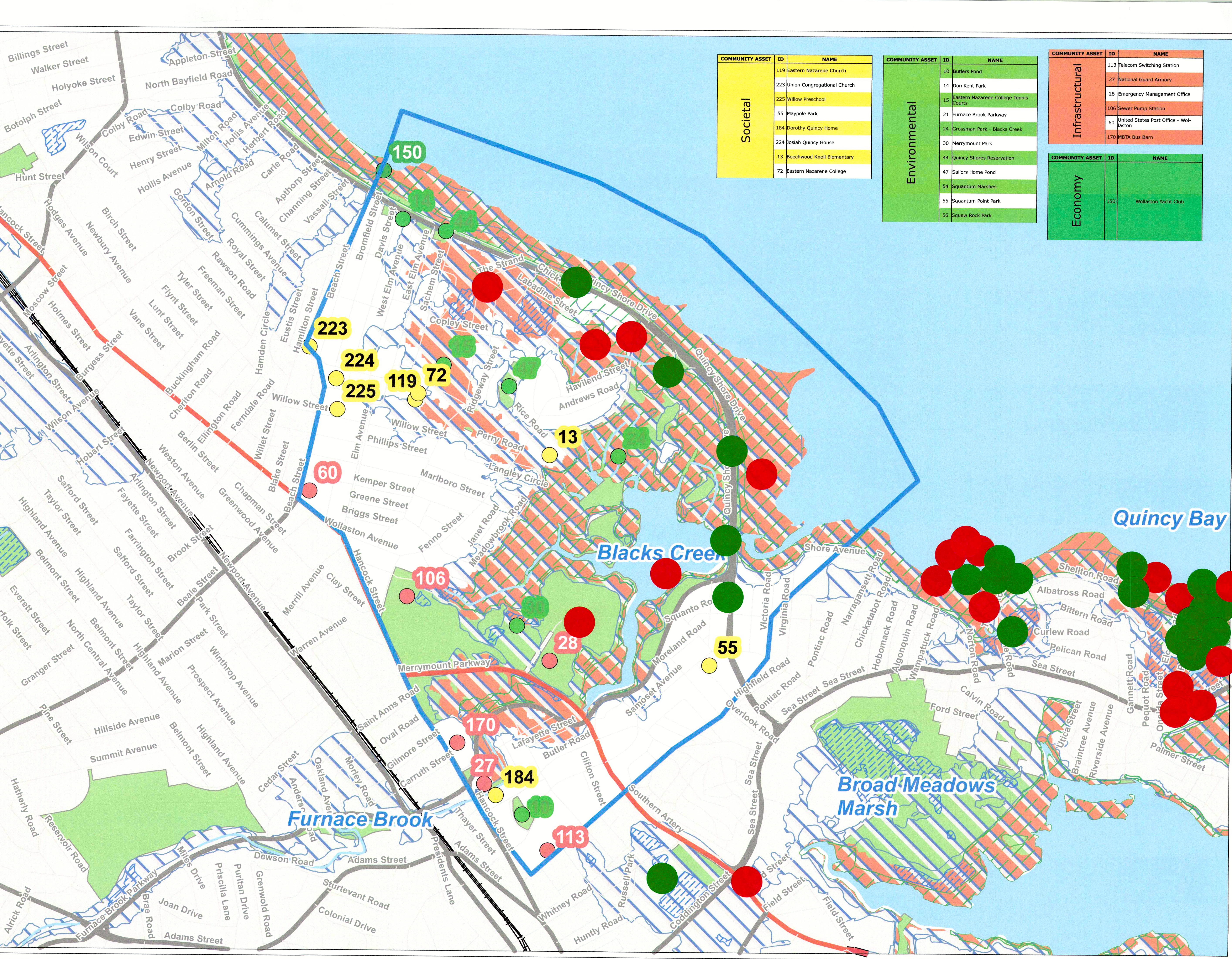
COMMUNITY ASSET	ID	NAME
Societal	1	Jack N' Jill Child Care At Marina Bay
	4	Child's View Daycare
	116	First Church Squantum
	221	Quincy Crisis Center Inc
	52	Myles Standish Cairn
	53	Moswetuset Hummock
	59	Former Squantum Airfield Site
	2	Squantum Elementary
	15	Kennedy Center, Council on Aging

COMMUNITY ASSET	ID	NAME
Environmental	13	Dickinson Waterfront
	14	Don Kent Park
	29	Marina Bay Conservation Area
	32	Moon Island
	34	Neponset River Reservation
	35	Nickerson Beach
	38	Orchard Beach
	43	Quincy Shore Drive
	54	Squantum Marshes
	55	Squantum Point Park
	56	Squaw Rock Park

COMMUNITY ASSET	ID	NAME
Infrastructural	69	Quincy Fire Dept - Engine 7
	243	Brewster Ambulance
	244	Alliance Health Marina Bay
	245	Atria Marina Bay
	107	Sewer Pump Station
	242	Quincy Public School Bus Barn

COMMUNITY ASSET	ID	NAME
Economy	252	Fallon Ambulance
	149	Squantum Yacht Club
	152	Marina Bay
	151	CVS
	262	Ayers Towing





COMMUNITY ASSET	ID	NAME
Societal	119	Eastern Nazarene Church
	223	Union Congregational Church
	225	Willow Preschool
	55	Maypole Park
	184	Dorothy Quincy Home
	224	Josiah Quincy House
	13	Beechwood Knoll Elementary
	72	Eastern Nazarene College

COMMUNITY ASSET	ID	NAME
Environmental	10	Butlers Pond
	14	Don Kent Park
	15	Eastern Nazarene College Tennis Courts
	21	Furnace Brook Parkway
	24	Grossman Park - Blacks Creek
	30	Merrymount Park
	44	Quincy Shores Reservation
	47	Sailors Home Pond
	54	Squantum Marshes
	55	Squantum Point Park
	56	Squaw Rock Park

COMMUNITY ASSET	ID	NAME
Infrastructural	113	Telecom Switching Station
	27	National Guard Armory
	28	Emergency Management Office
	106	Sewer Pump Station
	60	United States Post Office - Wollaston
	170	MBTA Bus Barn

COMMUNITY ASSET	ID	NAME
Economy	150	Wollaston Yacht Club

### Quincy, MA Community Assets

**LEGEND**

**Community Assets**

- Societal
- Environmental
- Infrastructural
- Economy

Planning Areas

Inland Wetlands

Coastal Wetlands

100 Year Flood Zone

NOAA SLR - 2ft

Natural Resources

**LOCUS MAP**

**NOTES**

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Multi Hazard Mitigation Plan  
Merrymount/ Blacks Creek

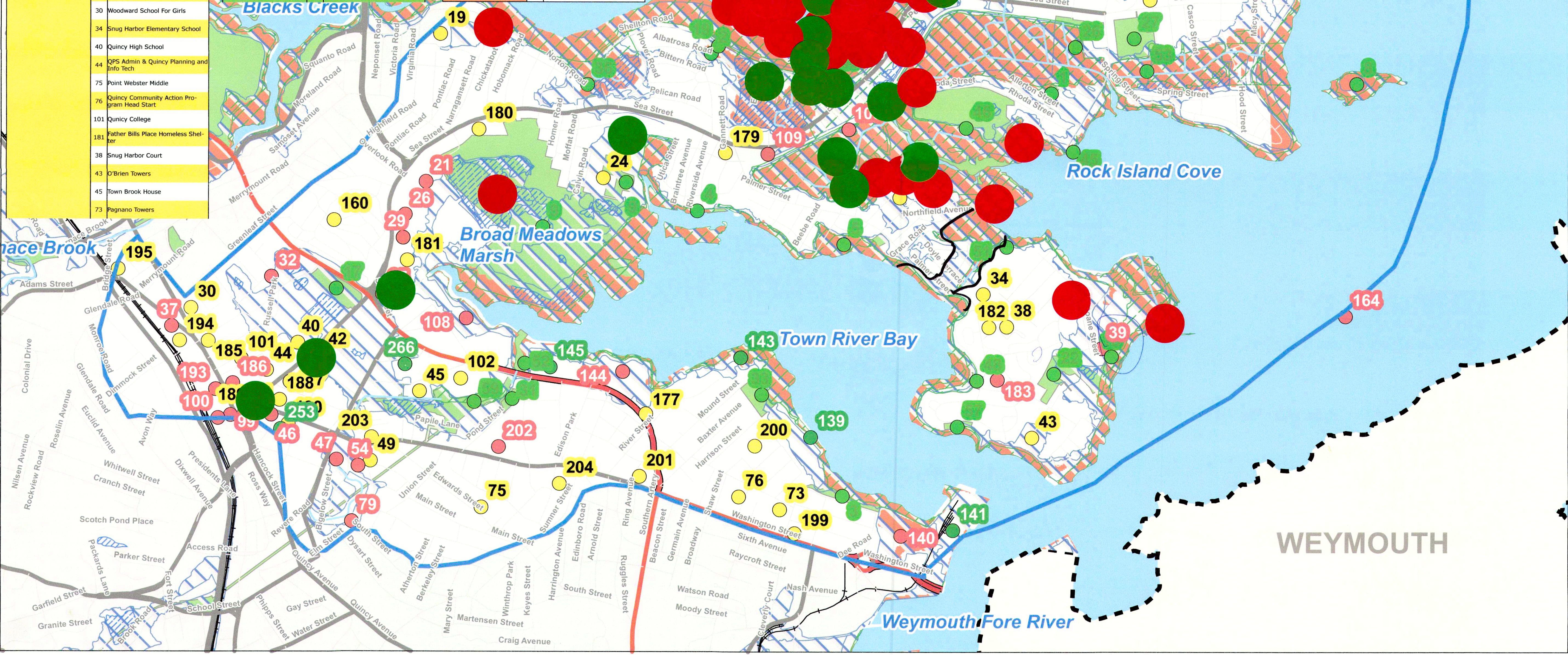
Quincy, Massachusetts

March 2019

**Tighe & Bond**  
Engineers | Environmental Specialists



COMMUNITY ASSET	ID	NAME	COMMUNITY ASSET	ID	NAME	COMMUNITY ASSET	ID	NAME
Societal	102	Riverbay Club	Environmental	1	Allerton Playground	Infrastructural	21	Quincy Youth Arena
	160	Mount Wollaston Cemetery		2	Arthur Boyson Park		26	Naval Reserve Center
	42	Ymca South Shore Child Care Program		3	Avalon Beach		193	Congressman Lynch Quincy Office
	49	Salvation Army Sunshine Pre-school		4	Back Beach		16	Quincy Fire Dept - Engine 6
	41	United First Parish Church		5	Baker Beach Playground and Salt Marsh		39	Quincy Fire Dept - Engine 8
	175	Houghs Neck Congregational		6	Bayswater Boatyard		32	Friends of the Unborn
	176	Most Blessed Sacrament		8	Boston Harbor Islands State Park		47	Quincy Rehab & Nursing Center
	177	Seventh Day Adventist		9	Broad Meadows/Broadmeadows School		174	Manet Community Health Center - Houghs Neck
	180	Our Lady Of Good Counsel		16	Edgewater Drive Beach		183	Manet Community Health Center - Snug Harbor
	185	The River Church		17	Faxon Field/Faxon Park		186	Harvard Vanguard Medical Associates
	187	Bethany Congregational		18	Fire Station Beach		202	South Cove Manor Nursing
	189	First Congregational Society		22	General Palmer Park		37	Wickens & Troupe
	190	Central Baptist Church		26	Joseph Street Salt Marsh		79	Sweeney Funeral Home
	201	Quincy Point Congregational Church		27	LaBrecque Field		29	Department of Public Works
	203	Life Community Church		28	Manet Lake		99	Quincy City Hall
	204	Massachusetts Budhi Siksa		31	Monroe Playground		100	Quincy City Hall Annex
	182	Germantown Neighborhood Center		33	Mound Street Beach		103	Nut Island Transfer Station
	200	Fore River Clubhouse		36	Norton Road Beach		104	Sewer Pump Station
	199	Child's View Daycare		37	Nut Island		105	Sewer Pump Station
	195	Interfaith Social		39	Perry Beach		108	Substation
	194	Quincy Historic Society		40	Post Island Beach		109	Substation
	179	Adams Shore Library		44	Quincy Shores Reservation		35	Quincy Police Dept.
	188	Thomas Crane Public Library Main Branch		45	Rhoda Beach		54	Navy Security/police
	18	Atherton Hough Elementary		46	Rock Island Cove Marsh		46	United States Post Office
	19	Merrymount Elementary		53	Spring Street Salt Marsh		140	Sprague Energy
	24	Broad Meadows Middle		57	Taffrail Road Playground		144	Quincy Oil / Sprague Energy
	25	New Concept Christian Day School		59	Town Brook Flood Control		164	Algonquin Gas Pipeline
	30	Woodward School For Girls						
	34	Snug Harbor Elementary School						
	40	Quincy High School						
	44	QPS Admin & Quincy Planning and Info Tech						
	75	Point Webster Middle						
	76	Quincy Community Action Program Head Start						
	101	Quincy College						
	181	Father Bill's Place Homeless Shelter						
	38	Snug Harbor Court						
	43	O'Brien Towers						
	45	Town Brook House						
	73	Pagnano Towers						



### Quincy, MA Community Assets

LEGEND

**Community Assets**

- Societal
- Environmental
- Infrastructural
- Economy

Planning Areas

Inland Wetlands

Coastal Wetlands

100 Year Flood Zone

NOAA SLR - 2ft

Natural Resources

LOCUS MAP

NOTES

Map Created for City of Quincy. Resource data provided by: Bureau of Geographic Information (MassGIS), Commonwealth of Massachusetts, Executive Office of Technology and Security Services Executive Office of Environmental Affairs, Federal Emergency Management Agency (FEMA) National Flood Hazard Layer, City of Quincy, Metropolitan Area Planning Council, and MassDOT

Multi Hazard Mitigation Plan  
Houghs Neck/ Germantown

Quincy, Massachusetts

March 2019

**Tighe & Bond**  
Engineers | Environmental Specialists



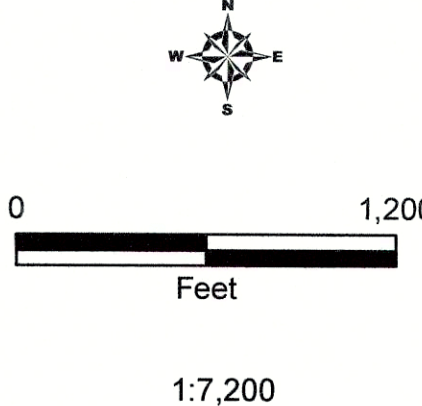
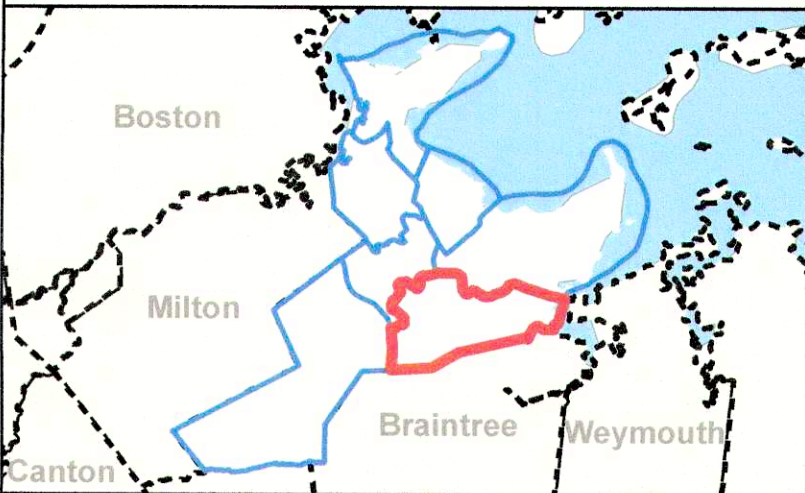
Quincy, MA  
Community Assets

LEGEND

Community Assets

- Societal
- Environmental
- Infrastructural
- Economy
- Planning Areas
- Inland Wetlands
- Coastal Wetlands
- 100 Year Flood Zone
- NOAA SLR - 2ft
- Natural Resources

LOCUS MAP



NOTES

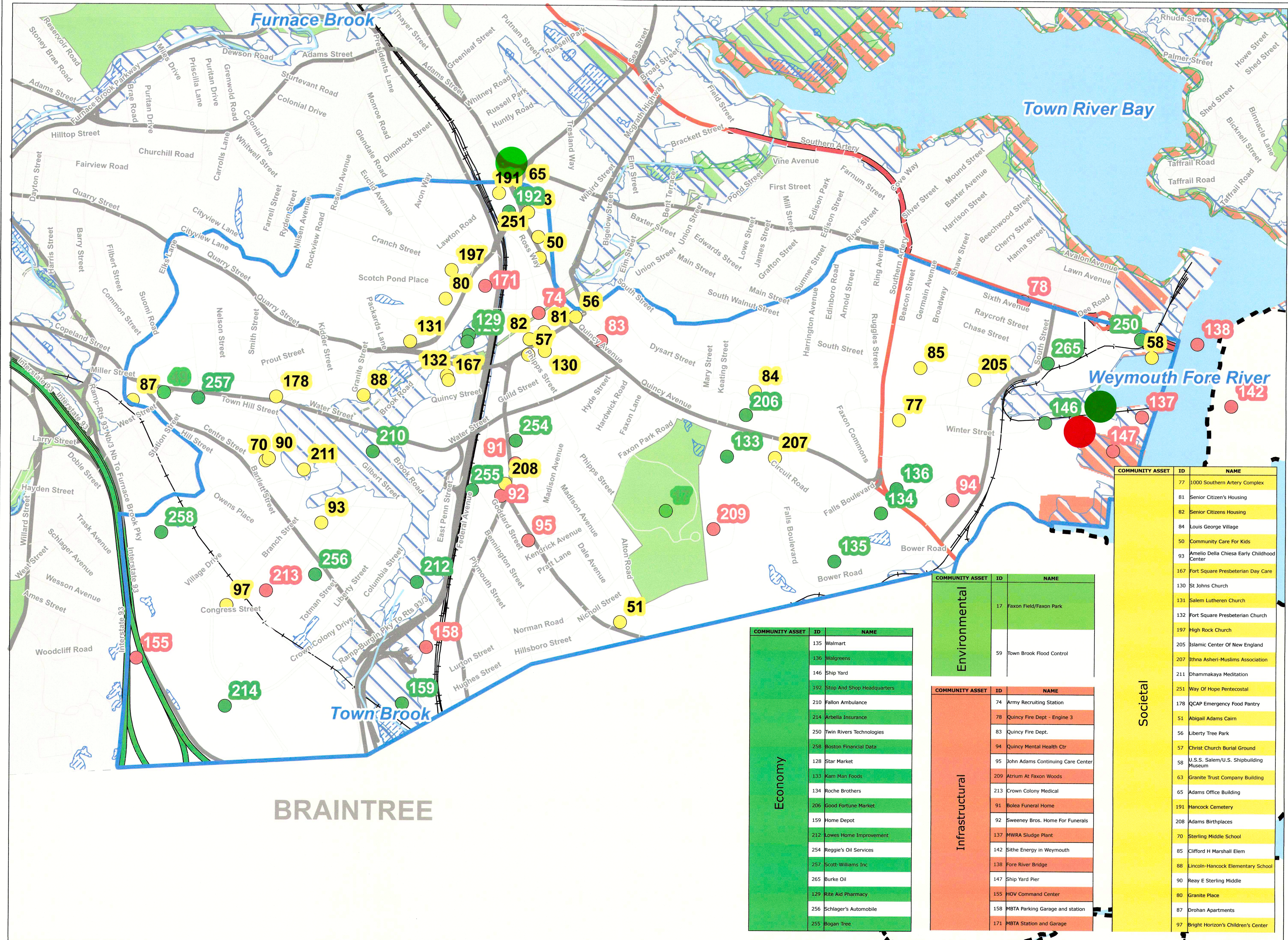
Map Created for City of Quincy. Resource data provided by: Bureau of Geographic Information (MassGIS), Commonwealth of Massachusetts, Executive Office of Technology and Security Services, Executive Office of Environmental Affairs, Federal Emergency Management Agency (FEMA) National Flood Hazard Layer, City of Quincy, Metropolitan Area Planning Council, and MassDOT

Multi Hazard Mitigation Plan  
South Quincy/ Fore River

Quincy, Massachusetts

March 2019

Tighe & Bond  
Engineers / Environmental Specialists



COMMUNITY ASSET	ID	NAME
Environmental	77	1000 Southern Artery Complex
	81	Senior Citizen's Housing
	82	Senior Citizens Housing
	84	Louis George Village
	50	Community Care For Kids
	93	Amelio Della Chiesa Early Childhood Center
	167	Fort Square Presbyterian Day Care
	130	St Johns Church
	131	Salem Lutheran Church
	132	Fort Square Presbyterian Church
	197	High Rock Church
	205	Islamic Center Of New England
	207	Ithna Asheri-Muslims Association
	211	Dhamakaya Meditation
	251	Way Of Hope Pentecostal
Societal	178	QCAP Emergency Food Pantry
	51	Abigail Adams Cairn
	56	Liberty Tree Park
	57	Christ Church Burial Ground
	58	U.S.S. Salem/U.S. Shipbuilding Museum
	63	Granite Trust Company Building
	65	Adams Office Building
	191	Hancock Cemetery
	208	Adams Birthplaces
	70	Sterling Middle School
	85	Clifford H Marshall Elem
	88	Lincoln-Hancock Elementary School
	90	Reay E Sterling Middle
	80	Granite Place
	87	Drohan Apartments
Infrastructural	97	Bright Horizon's Children's Center
	74	Army Recruiting Station
	78	Quincy Fire Dept - Engine 3
	83	Quincy Fire Dept.
	94	Quincy Mental Health Ctr
	95	John Adams Continuing Care Center
	209	Atrium At Faxon Woods
	213	Crown Colony Medical
	91	Bolea Funeral Home
	92	Sweeney Bros. Home For Funerals
	137	MWRA Sludge Plant
	142	Sithe Energy in Weymouth
	138	Fore River Bridge
	147	Ship Yard Pier
	155	HOV Command Center
Economy	158	MBTA Parking Garage and station
	171	MBTA Station and Garage
	135	Walmart
	136	Walgreens
	146	Ship Yard
	192	Stop And Shop Headquarters
	210	Fallon Ambulance
	214	Arbella Insurance
	250	Twin Rivers Technologies
	258	Boston Financial Data
	128	Star Market
	133	Kam Man Foods
	134	Roche Brothers
	206	Good Fortune Market
	159	Home Depot
Natural Resources	212	Lowes Home Improvement
	254	Reggie's Oil Services
	257	Scott-Williams Inc
	265	Burke Oil
	129	Rite Aid Pharmacy
	256	Schlager's Automobile
	255	Bogan Tree
	131	Quincy Avenue
	132	Quincy Avenue
	167	Quincy Avenue
	178	Town Hill Street
	211	Centre Street
	256	Liberty Street
	212	Columbia Street
	213	Liberty Street
	214	Village Drive





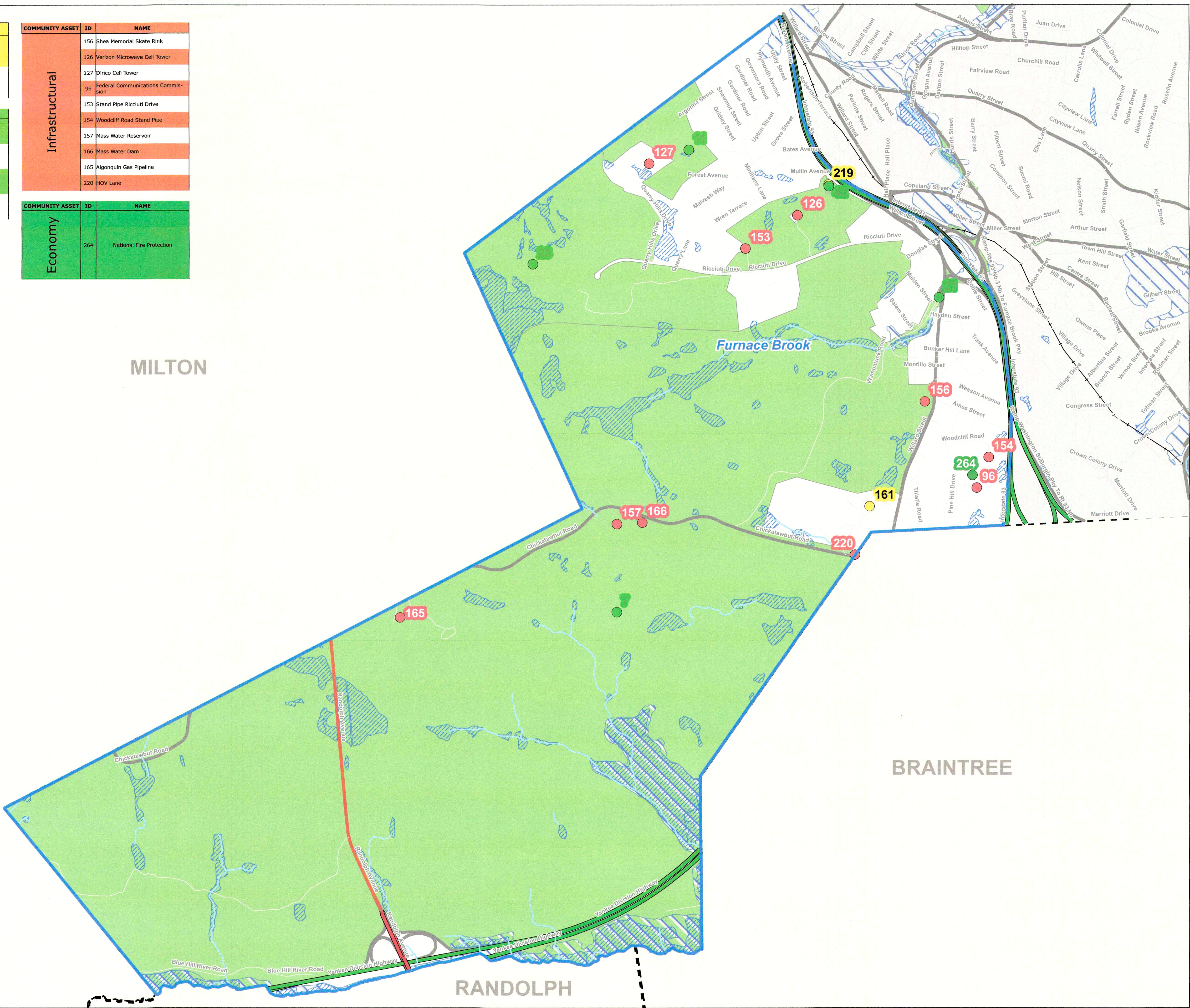


COMMUNITY ASSET	ID	NAME
Societal	161	Pine Hill Cemetery
	219	Granite Rail Incline

COMMUNITY ASSET	ID	NAME
Environmental	7	Blue Hills Reservation
	11	Cunningham Park
	21	Furnace Brook Parkway
	23	Granite Links Golf Course

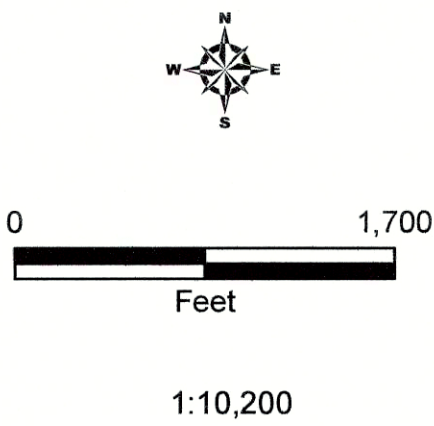
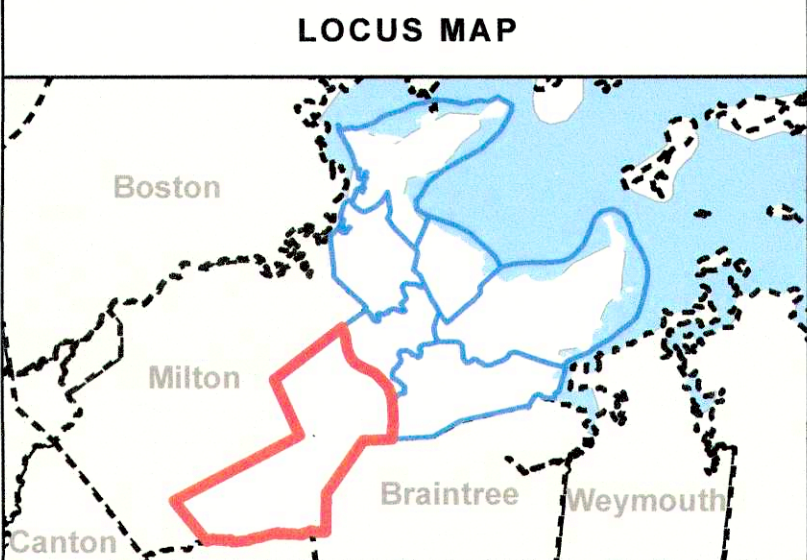
COMMUNITY ASSET	ID	NAME
Infrastructural	156	Shea Memorial Skate Rink
	126	Verizon Microwave Cell Tower
	127	Dirico Cell Tower
	96	Federal Communications Commission
	153	Stand Pipe Ricciuti Drive
	154	Woodcliff Road Stand Pipe
	157	Mass Water Reservoir
	166	Mass Water Dam
	165	Algonquin Gas Pipeline
	220	HOV Lane

COMMUNITY ASSET	ID	NAME
Economy	264	National Fire Protection



## Quincy, MA Community Assets

- LEGEND**
- Community Assets**
- Societal
  - Environmental
  - Infrastructural
  - Economy
- Planning Areas**
- Inland Wetlands
  - Coastal Wetlands
  - 100 Year Flood Zone
  - NOAA SLR - 2ft
  - Natural Resources



**NOTES**

Map Created for City of Quincy. Resource data provided by: Bureau of Geographic Information (MassGIS), Commonwealth of Massachusetts, Executive Office of Technology and Security Services Executive Office of Environmental Affairs, Federal Emergency Management Agency (FEMA) National Flood Hazard Layer, City of Quincy, Metropolitan Area Planning Council, and MassDOT

Multi Hazard Mitigation Plan  
Furnace Brook South

Quincy, Massachusetts

March 2019

**Tighe & Bond**  
Engineers | Environmental Specialists




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## APPENDIX D

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Community Resilience Building Risk Matrix				www.CommunityResilienceBuilding.org					
<div><div><div>H-M-L</div><div>priority for action over the</div><div>Short or Long term (and Ongoing)</div></div><div>V = Vulnerability S = Strength</div></div>				Quincy's Top Priority Hazards					
				Inland Flooding	Coastal Flooding & Erosion	Nor'easter	Severe Winter Weather	Priority	Time
								H - M - L	Short Long Ongoing
Assets	Location	Ownership (City, State, Federal, Private)	V or S						
	Complete for New Assets Only								
Infrastructural (continued)									
Germantown Fire Station	126 Doane Street	City	V	Provide medical services in emergencies at fire stations; Relocate fire station to higher ground; Enhance seawall along Palmier Street				H	L
Compass Urgent Care Center	54 Miller Street	Private	S	Miller/Cross/Furnace Stormwater Control Station				M	O
National Guard Armory	1000 Hancock Street	Federal	V/S	Maintain and protect Fleet for use during emergency; Move fleet to high ground before possible flooding				H	O
Spring Street Tide gate	Spring Street	City	V		Ongoing tide gate management; Inspection Protocol; Automation of tide gate			M	O
Tide Gates	Citywide	City	V		Alert/Notification System when Tide gates are in need of maintenance or repair; Replace tide gates			H	L
Greenburg Bridge Tide Gate	Phillip Greenberg Bridge	City	S		Replace Tide Gate			M	S
Upper Black Creek Culvert	Blacks Creek Neighborhood	City	S	Increase capacity of culverts; Replace tide gates in Blacks Creek Area				H	S
Seawalls	Citywide	City/Private	V	Increase height of seawalls and improve drainage on opposite side of seawall				H	L
Sewer Pump Station	Fenno Street	City	V	Rehabilitate pump station; Conduct ongoing maintenance; Equip with Emergency Backup Generator				H	O
				Retrofit Pump station for flooding					
Division Street Pump Station	Citywide	City	S	Repairs to Pump Station; Equip with Emergency Backup Generator				M	L
Nut Island Treatment Plant	Nut Island	State	V	Coordinate with MWRA to ensure preparedness and functionality;				H	L
Storm Drain System	Citywide	City	V	Sewer/Storm Drain separation; Maintenance of outfalls and catch basins; Regulations requiring stormwater retention for new developments				H	L
Copeland Street National Grid Substation	278 Copeland Street	Private	V	Back Up Generator				H	O
				Miller/Cross/Furnace Stormwater Control Station					
Brewers Corner	Brewers Corner Neighborhood	City/State/Fed	V	Stormwater Drainage Improvements				H	L

Community Resilience Building Risk Matrix				www.CommunityResilienceBuilding.org						
<div><div></div><div><div>H-M-L</div>priority for action over the <div>Short or Long term (and Ongoing)</div></div><div><div>V</div> = Vulnerability <div>S</div> = Strength</div></div>				Quincy's Top Priority Hazards				Priority	Time	
				Assets	Location	Ownership (City, State, Federal, Private)	V or S	Inland Flooding	Coastal Flooding & Erosion	Nor'easter
Complete for New Assets Only										
Societal										
Jack n Jill Daycare	39 Station Street	Private	V	Pre-closure and evacuation prior to severe storms or emergencies				H	S	
Schools - Citywide	City-wide	City	V/S	Emergency Response Planning; Maintain Comprehensive Emergency Management Plan; Emergency Notification/Communication System				H	O	
Bernazzi Elementary School	701 Furnace Brook Pkwy	City	V/S	Maintenance of stream bed and removing debris	Flood Barrier			H	O	
Beachwood Knoll School	225 Fenno Street	City	V/S	Storm Drain Maintenance	Blacks Creek Tide Gate Project; Marsh Preservation and Restoration; Invasive Species Management			H	O	
Broadmeadow Elementary School	120 Broad Meadow Road	City	V	Emergency Response Planning; Maintain Comprehensive Emergency Management Plan; Ensure fully functional as an emergency shelter; Equip with backup emergency generator; Emergency Notification/Communication System; Mosquito prevention; Elevate electrical system				H	S	
North Quincy High School	316 Hancock Street	City	V	Emergency Response Planning; Maintain Comprehensive Emergency Management Plan; Ensure fully functional as an emergency shelter; Equip with backup emergency generator; Emergency Notification/Communication System				H	O	
Eastern Nazarene College	23 East Elm Ave	Private	V/S	Educate Public and Residents and provide with Emergency Warning or Notification System; Ongoing seawall maintenance				M	O	
Quincy Libraries	Citywide	City	V	Improve Stormwater Management				H	O	
Historic Properties	Citywide	City/State	V/S	Protect historic properties; expand stream beds adjacent to historic properties				H	L	
Interfaith Social Services	105 Adams Street	Private	S	Maintain food supplies in case of emergencies; Backup Emergency Generator				M	O	
Kennedy Center (Quincy Council on Aging)	440 E Squantum Street	City	V/S	Retrofit existing building to withstand flooding and Nor’easters				H	O	
Low Income Housing	Citywide	City	V	Help access services & federal support funds after emergency/severe weather event; Train City staff on how to respond and direct to services; improve stormwater drainage				H	L/S	
Homeless Shelters	Citywide	City/Private	V	Assist vulnerable populations during emergencies and severe weather events; Help access services & federal support funds after emergency/severe weather event; Train City staff on how to respond and direct to services				M	O	
Vulnerable Populations	Citywide	N/A	V	Develop and maintain a list of vulnerable residents; Help access services & federal support funds after emergency/severe weather event; Train City staff on how to respond and direct to services				H/M	I/S	
Quincy Yacht Club	1310 Sea Street	Private	V		Rebuild Sea Ave Seawall and floodproof Yacht Club			L	L	

## Community Resilience Building Risk Matrix

[www.CommunityResilienceBuilding.org](http://www.CommunityResilienceBuilding.org)

**H-M-L** priority for action over the **S**hort or **L**ong term (and **U**ngoing)  
**V** = Vulnerability **S** = Strength

## Quincy's Top Priority Hazards

<div>-M-L priority for action over the Short or Long term (and Ongoing) V = Vulnerability S = Strength</div>								Priority	Time
Assets	Location	Ownership (City, State, Federal, Private)	V or S	Inland Flooding	Coastal Flooding & Erosion	Nor'easter	Severe Winter Weather	H - M - L	Short Long Ongoing
	Complete for New Assets Only								
Environmental									
Terne Road Salt Marsh	Terne Road	City	V/S		Tide gate enhancement; Seawall Rehab on Sea Street; Marsh expansion/restoration			H	S
Squantum Marshes	Squantum Neighborhood	City	V/S		Salt Marsh Restoration; Use Restrictions; Maintain buffer zone around marshes; Tide gate enhancement			M/H	L
Princess Eve Marsh	Princess Eve Drive	City	V/S	Increase capacity of culverts; Replace Tide Gates in Princess Eve Marsh; Marsh expansion/restoration				H	S/L
Post Island Marsh	Post Island Road/Sea Street	City	V/S	Install pump stations or purchase mobile pumps; Increase capacity of culverts				H	O/L
					Replace tide gates in Post Island Marsh; Marsh expansion/restoration				
Public Waterfront & Parks	Citywide	City	V/S	Improve drainage	Enhance seawall height and depth; Prevent coastal erosion; Maintain coastal banks;			L	L
Wollaston Beach	Quincy Shore Drive	City	S	Improve Stormwater Management				M	L
Orchid Beach	Bayside Road	City	V/S		Salt Marsh Restoration; Use Restrictions			L	O
Norton Road Beach	Norton Road	City	V		Seawall Rehab on Sea Street			H	S
Dickinson Waterfront	Victory Road	City/Private	V/S		Salt Marsh Restoration; Use Restrictions			L	O
Butlers Pond	Butler Road	City	V/S	Tree Filter boxes at catch basins; Dredge pond; Control invasive species				H	O
Wetlands	Citywide	City	V/S	Cleanup of Oil from floating booms in wetlands				H	S
Furnace Brook Pkwy	Furnace Brook Pkwy	City	V	Mosquito Control; Establish Alternative Routes				H	O
				Maintenance of Stream Bed	Blacks Creek Tide Gate Project				
Furnace Brook Golf Course	20 Reservoir Road	Private	S	Back up Generator; Maintain food and supplies in case of emergency				L	S

Community Resilience Building Risk Matrix				www.CommunityResilienceBuilding.org						
<div><div>H-M-L</div><div>priority for action over the</div><div>Short or Long term (and Ongoing)</div></div> <div><div>V</div><div>= Vulnerability</div><div>S = Strength</div></div>				Quincy's Top Priority Hazards						
Assets	Location	Ownership (City, State, Federal, Private)	V or S	Inland Flooding	Coastal Flooding & Erosion	Nor'easter	Severe Winter Weather	Priority	Time	
								H - M - L	Short Long Ongoing	
	Complete for New Assets Only									
Economy										
Pharmacies	Citywide	Private	V/S	Provide assistance to Pharmacies to allow them to stay open during severe weather events; Provide traveling staff to deliver/administer medications				M	O/S	
				Improve Stormwater Management;						
Grocery Stores	Citywide	Private	V	Improve Stormwater Management				M	O	
Gas Stations	Citywide	Private	V	Backup Emergency Generators				H	S	
Curry Hardware	370 Copeland Street	Private	S	Establish relationship with City to supply materials and support in case of emergency				M	O	
Home Depot	465 Centre Street	Private	S	Establish relationship with City to supply materials and support in case of emergency				M	O	
American Towing	500 Adams Street	Private	S	Establish relationship with City for support in case of emergency				M	O	
Personal Property	Citywide	Private	V	Homeowner education; Support Contact List and FEMA Claim Assistance; FEMA Advocacy for Homeowners; Increase capacity of culverts, replace tide gates city wide				H	O/S/L	
State Street Corporation	State Street	Private	V/S	Establish emergency plan for businesses; Relocate businesses and development				H/M	O	
Boston Scientific	500 Commander Shead Blvd	Private	V		Ongoing maintenance and repairs to seawall			M	L	
Marina Bay	Marina Bay Development	Private	V/S		Elevate Seaport Drive			M	L	
The Strand Area	The Strand Area	Private	S	Increase capacity of Pump Stations, purchase mobile pumps, improve stormwater management				M	O	
Wollaston Yacht Club	692 Quincy Shore Drive	Private	V	Maintain sewer & water services to Wollaston Yacht Club to prevent break during severe weather				M	O	
Soft Shell Clamming	Citywide	N/A	S	Increase resiliency of natural resource area and allocate funding to protecting and preserving these areas and industries				L	O	

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## APPENDIX E

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Workshop #1 April 23, 2019



# CITY OF QUINCY

## COMMUNITY RESILIENCE BUILDING WORKSHOP

APRIL 23, 2019



# TODAYS AGENDA

## Community Resilience Building Workshop Overview

## Massachusetts' Changing Climate and the Quincy Hazard Mitigation Plan

**Workshop 9:30-12:30**

- Session #1**
  - Session #2**
  - Session #3**
  - Session #4- Full Group Discussion**
- } Table Discussions



# Hazard Mitigation and MVP Core Team

- Mayor's Office
- Community and Planning Department
- Department of Public Works
- Emergency Management
- Parks and Forestry
- Marine Unit, Police Department
- Sustainability: Public Buildings
- Traffic, Parking, Alarm and Lighting



# CRB WORKSHOP PROCESS AND OUTCOMES

- **Build Resilience and Preparedness-** for more frequent and intense weather events
  - Improve pre-event planning, response & recovery and long-term actions
  - A prepared and resilient Quincy will be able to maintain functions, protect its residents and be prepared for future storm events and a changing climate
- Review natural hazards identified in the Hazard Mitigation Plan
  - Identify and map vulnerabilities and strengths
    - Infrastructural
    - Societal
    - Natural Resources
    - Economy
  - Develop and prioritize actions and clearly define next steps



# QUINCY WORKSHOP GOALS

- **Complete the requirements as a certified Municipal Vulnerability Preparedness Community.**
- **Examine how to integrate climate change planning into other City plans and programs identified in the HMP Capabilities Assessment.**
- **Provide community outreach opportunity for Quincy Hazard Mitigation Planning.**





# MASSACHUSETTS' CHANGING CLIMATE

## Changing Weather

- Higher Temperatures
- Shorter Winters
- More frequent and intense storms
- Sea Level Rise
- Droughts

## Amplifies existing risks

- Community and regional infrastructure
- Local and regional economies
- Public Health
- Natural resources and our environment

Goal for Building  
Resilience to a  
Changing Climate:

Protect life,  
property, natural  
resource and the  
economy







## QUINCY CHANGING CLIMATE AND MULTI-HAZARD MITIGATION PLAN- 5-YEAR UPDATE

MVP Workshop  
April 23, 2019



FEMA



**Tighe&Bond**

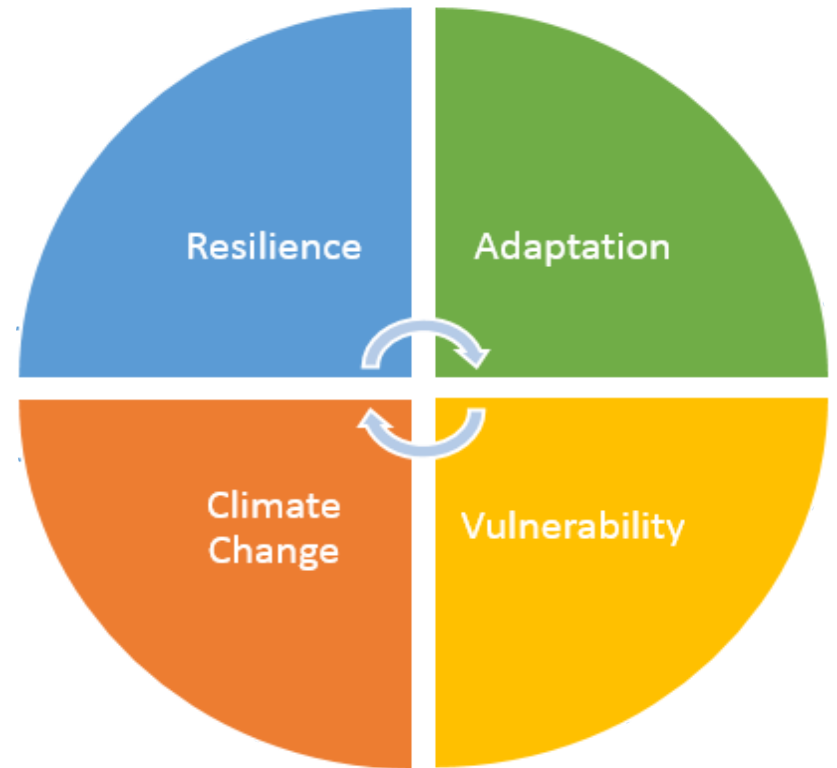
## WHY PREPARE A HAZARD MITIGATION PLAN ?

- Required to qualify for Hazard Mitigation Grants per Disaster Mitigation Act of 2000, 44 CRF Part 201.6
- Documents historic impacts from natural hazard and community vulnerability
- Prioritizes mitigation projects to meet multiple community goals
- Educates the public on the risk of natural hazards to property damage, life and public health and the benefits of mitigating hazards so the community is better prepared and can recover more quickly
- May improve scoring for Community Rating System, results in lower flood insurance premiums
- Improves chances for obtaining other State and Federal Grants- MVP and Environmental Bond Bill



# HAZARD MITIGATION PLANNING PROCESS

- 1) Define potential risk due to natural hazards including impacts of climate change
- 2) Identify key community assets and vulnerability to risk
- 3) Define mitigation projects to improve resiliency
- 4) Prioritize projects for areas most at risk



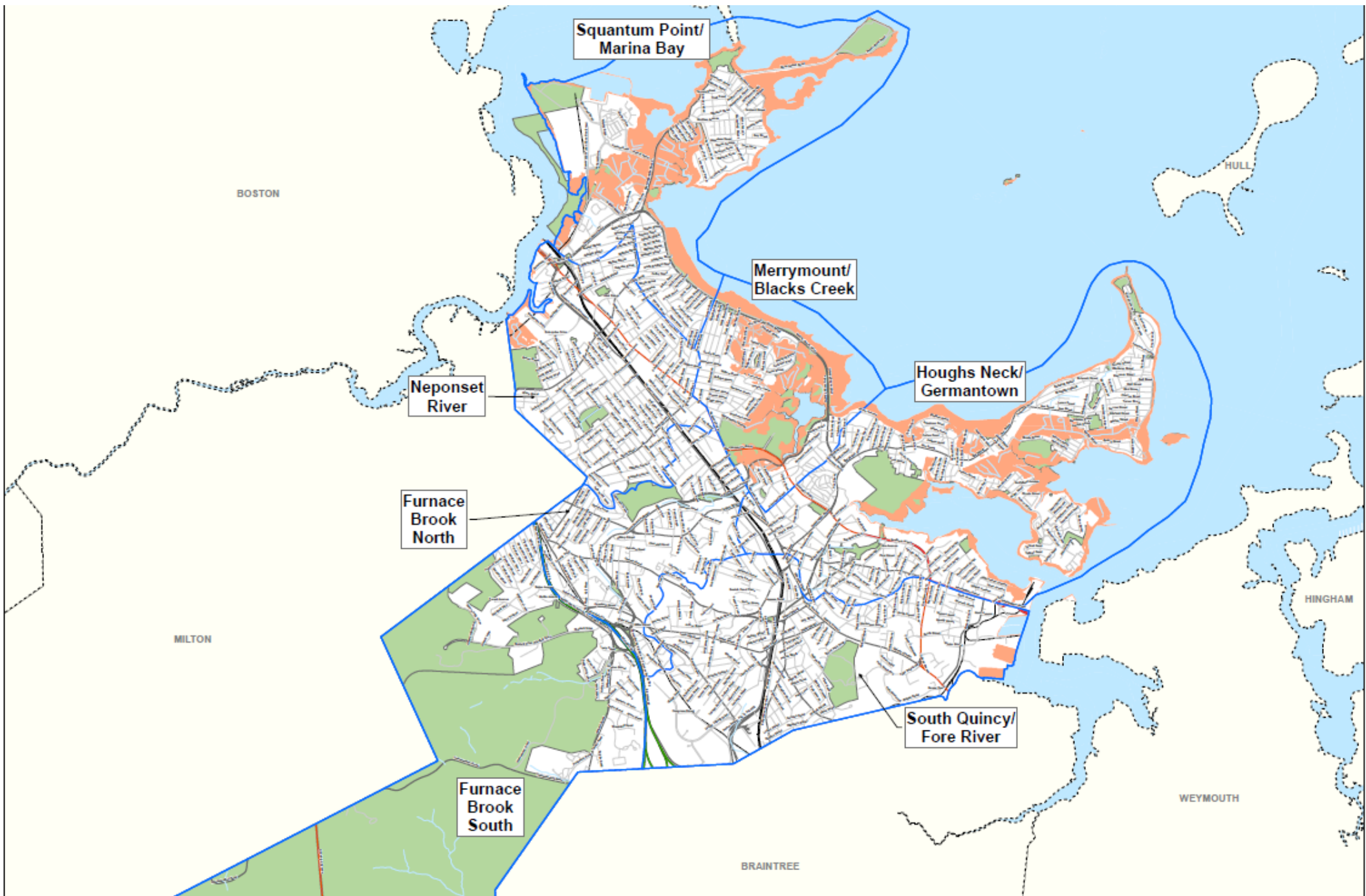
## 2019 PLAN IMPROVEMENTS

- Natural hazard risk consistent with 2018 Massachusetts State Plan
- Incorporates climate change
- Evaluates impacts on community assets
- Geographically based mapping and analysis
  - ☐ Environmental
  - ☐ Societal
  - ☐ Economic
  - ☐ Built infrastructure
- Vulnerability considers recent record breaking storm events





# GEOGRAPHIC PLANNING AREAS







# NATURAL HAZARD RISK ASSESSMENT

