



9.24 CITY OF ROCHESTER

This section presents the jurisdictional annex for the City of Rochester.

9.24.1 Hazard Mitigation Plan Point of Contact

The following individuals have been identified as the hazard mitigation plan’s (HMP) primary and alternate points of contact.

Primary Point of Contact	Alternate Point of Contact
Felipe Hernandez Jr., Deputy Chief Rochester Fire Department Division of Training and Emergency Management 1190 Scottsville Rd Suite 214, Rochester, NY 14624 Office: 585-753-3730 Cell: 585-455-0808 e-mail: hernandf@cityofrochester.gov	Tom Mann, Permit Officer Manager Planning & Zoning 30 Church Street Room 121B, Rochester, NY 14624 Office: 585-428-6562 Email: MannT@cityofrochester.gov

9.24.2 Municipal Profile

The City of Rochester is north of the center of Monroe County, about 65 miles east-northeast of Buffalo and about 75 miles west of Syracuse. The City sits on Lake Ontario's southern shore, and is bisected by the Genesee River, which is the most significant local waterway along with Allen Creek, West Branch Red Creek, Irondequoit Bay, and Lake Ontario.

Rochester became the county seat of Monroe County in 1821, 2 years before the Erie Canal aqueduct over the Genesee River was completed in the City’s downtown, and the Erie Canal east to the Hudson River was opened. According to the 2010 U.S. Census, the City encompasses 35.8 square miles of land and 1.3 square miles of water. Population is 210,565.

Rochester has a number of neighborhoods and recognized communities with various neighborhood associations. Neighborhoods within the City include the following:

- 19th Ward
- 14621 Community
- Beechwood
- Browncroft
- Cascade District
- Cobbs Hill
- Charlotte
- Corn Hill
- Dewey
- Dutchtown
- Edgerton
- Ellwanger-Barry
- German Village
- Grove Place
- High Falls District
- Highland Park
- Dutchtown
- Maplewood (10th Ward)
- Marketview Heights
- Mt. Read
- North Winton Village
- Neighborhood of the Arts (NOTA)
- Otis-Lyell
- Park Avenue
- Plymouth-Exchange
- Southwest
- East End
- South Wedge
- Swillburg
- Susan B. Anthony
- University-Atlantic
- Upper Monroe





The City of Rochester is home to numerous cultural, academic, and religious institutions. The City is served by a robust transportation system, including numerous regional and interstate highways, freight and passenger railroads, and the Greater Rochester International Airport. The Port of Rochester on Lake Ontario offers marine freight service and is connected to the Atlantic Ocean via the Saint Lawrence Seaway. For more information on these transportation resources, see Section 4 (County Profile).

Growth/Development Trends

Table 9.24-1 below summarizes recent residential/commercial development in the City of Rochester since 2010, and lists any known or anticipated major residential/commercial development and major infrastructure development slated within the next 5 years within the municipality. Refer to the maps following Section 9.24-9 of this annex: Figure 9-24-1 that illustrates landslide and wildfire hazard areas, and Figure 9-24-2 that is a floodplain map.

Table 9.24-1. Growth and Development

Property or Development Name	Type (e.g. Res., Comm.)	# of Units / Structures	Location (address and/or Parcel ID)	Known Hazard Zone(s)	Description/Status of Development
Recent Development from 2010 to present					
Erie Harbor and The Hamilton Project	Residential and Commercial	131 units (Erie Harbor)	205-405 Mt. Hope Avenue; 185 Mt. Hope Avenue	Flood	Demolish four low-rise structures and construct approximately 131 new rental housing units on the site, of which 80% of the units will be market-rate and 20% will be for low and moderate-income households.
Brooks Landing Phase II Public Improvement Project	Residential and Commercial	Multiple	Brooks Avenue, Genesee Street, and South Plymouth Avenue	Flood	Reconstruct Brooks Avenue, Genesee Street, and South Plymouth Avenue—a new 80-room extended-stay hotel overlooking the river, a new 30,000-square-foot two-story office/retail building at the northeast corner of Brooks Avenue and Genesee Street, renovation of a 6,000-square-foot mixed-use commercial building into a community-operated coffee shop/café, new University of Rochester student housing, and public waterfront improvements.
Known or Anticipated Development within the Next 5 Years					
Inner loop east project	Transportation	Not applicable (N/A)	Between Monroe Avenue and Charlotte Street	None	Reconstruct a 2/3-mile stretch of the eastern segment of the Inner Loop into a high-quality complete city street.
Port of Rochester Mixed Use Development	Residential and Commercial		Between North River Street and Lake Avenue	Flood	Convert 2.8 acres of city-owned land in the new Marina Zoning District into a mix of residential and commercial uses.
College Town	Residential and Commercial	5 new multi-story structures	1325, 1351, 1371, and 1401 Mount Hope Avenue; 683 Elmwood Avenue; and portions of 100 and 110-170 Crittenden	None	Redevelop a 14-acre site into a new, mixed use development, including retail, office, residential and hotel uses. This redevelopment also includes a new 1,525-space parking structure, 464 surface parking spaces, 149 underground



Property or Development Name	Type (e.g. Res., Comm.)	# of Units / Structures	Location (address and/or Parcel ID)	Known Hazard Zone(s)	Description/Status of Development
			Boulevard		parking spaces, and construction of a new east-west street connecting East Drive and Mount Hope Avenue.

Note: Only location-specific hazard zones or vulnerabilities are identified.

9.24.3 Natural Hazard Event History Specific to the Municipality

Monroe County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5.0 of this Plan. A summary of historical events appears in each hazard profile, and includes a chronology of events that have affected the County and its municipalities. For the purpose of this Plan update, to the extent possible, all events that have occurred in the County were summarized to indicate the range and impact of hazard events in the community. Information regarding specific damages is included, if available, based on reference material or local sources. This information is listed in Table 9.24-2 below. For details of these and additional events, refer to Volume I, Section 5.0 of this Plan.

Table 9.24-2. Hazard Event History

Dates of Event	Event Type	FEMA Declaration # (If Applicable)	County Designated?	Summary of Damages/Losses
May 8, 2010	High wind	N/A	N/A	The Rochester Fire Department (RFD) responded to multiple calls reporting downed trees and wires. Monroe County 911/ Emergency Communications Department (ECD) logged 40 overtime hours, costing \$1,000.00
April 26 - May 8, 2011	Severe storms, flooding, tornadoes, and straight-line winds	DR-1993	No	RFD responded to calls reporting downed trees and power lines. Monroe County 911/ECD logged 3.75 overtime hours, costing \$93.75
January 17, 2012	High wind	N/A	N/A	RFD responded to multiple calls reporting downed trees and wires, one house fire (not related to storm). Monroe County 911/ECD logged 15.16 overtime hours, costing \$379
February 24, 2012	High winds	N/A	N/A	RFD responded to calls reporting downed trees and power lines. Monroe County 911/ECD logged 2 overtime hours, costing \$50.00
October 27 - November 8, 2012	Hurricane Sandy	EM-3351	Yes	RFD responded to multiple calls reporting downed trees and wires, one car port collapsed, no injuries. The Fire Department also staffed an additional Heavy Rescue for storm needs. The Fire Department deployed 17 personnel to Long Island area to assist with emergency calls. Facility/Structural Damage – Public: <ul style="list-style-type: none"> • Damage to 911 facility: \$10,000.00 • Damage to Parks facility: \$10,000.00 • Damage to Operations Center facility: \$10,000.00 • Damage to High Falls: \$10,000.00 Cleanup Costs: <ul style="list-style-type: none"> • Equipment used: \$6,000.00 • Staff hours: \$36,011.82



Dates of Event	Event Type	FEMA Declaration # (If Applicable)	County Designated?	Summary of Damages/Losses
				<ul style="list-style-type: none"> Purchase of new trees to replace fallen ones: \$2,500.00 <p>The City Department of Public Works (DPW) conducted an intensive cleanup for 2 days. Four city facilities were damaged. The DPW had to rent a generator for 1 week to power a fuel island. Monroe County 911/ECD logged 527.70 overtime hours, costing \$13,192.50</p>
June 26 - July 11, 2013	Severe storms and flooding	DR-4129	No	RFD responded to multiple calls reporting flooded basements, which were handled with on-duty crews. Monroe County 911/ECD logged 5.5 overtime hours, costing \$137.50.
December 21, 2013	Ice storm	N/A	N/A	RFD did not make any runs pertaining to the ice storm. Monroe County 911/ECD logged 16 overtime hours, costing \$400.00.
March 12, 2014	Blizzard	N/A	N/A	RFD reported an increase in minor traffic accidents due to snowfall. Monroe County 911/ECD logged 16 overtime hours, costing \$400.00.
May 13-22, 2014	Severe storms and flooding	DR-4180	No	RFD responded to multiple calls reporting flooded basements, which were handled with on-duty crews. Monroe County 911/ECD logged 4.5 overtime hours, costing \$112.50.
July 28, 2014	Flash flood	N/A	N/A	RFD responded to multiple calls reporting flooded basements, which were handled with on-duty crews.
November 17-26, 2014	Severe winter storm, snowstorm, and flooding	DR-4204	No	<p>RFD responded to Erie County to assist with building collapse concerns, while maintaining enough resources in the City. Storm Cleanup assistance:</p> <ul style="list-style-type: none"> Labor & Benefits: \$28,273.01 Equipment: \$23,639.00 Lodging & Meals: \$ 2,353.90 Total: \$54,265.91 <p>Department of Emergency Services (DES) – Sent plow equipment to assist with snow removal. Assisted Erie County in Buffalo with severe winter storm cleanup efforts for 3 days and 1 day preparation.</p>

9.24.4 Hazard Vulnerabilities and Ranking

The hazard profiles in Section 5.0 of this Plan convey detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the hazard vulnerabilities and their ranking in the City of Rochester. For additional vulnerability information relevant to this jurisdiction, refer to Section 5.0.

Hazard Risk/Vulnerability Risk Ranking

Table 9.24-3 below summarizes hazard risk/vulnerability rankings of potential hazards for the City of Rochester. The hazards of concern for the City are those with a High hazard ranking.



Table 9.24-3. Hazard Risk/Vulnerability Risk Ranking

Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard ^{1,3}	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking ²
Severe storm	Expected Losses from Wind Alone: \$0	Frequent	48	High
Extreme temperature	Damage Estimate Not Available	Frequent	36	High
Infestation	Damage Estimate Not Available	Frequent	36	High
Severe winter storm	1% Damage Loss Estimate: \$534,238,374 5% Damage Loss Estimate: \$2,671,191,871 10% Damage Loss Estimate: \$5,342,383,742	Frequent	36	High
Utility failure	Damage Estimate Not Available	Frequent	36	High
Earthquake ^{4,5}	100-year Mean Return Period (MRP) General Building Stock (GBS): \$8,722,518 500-year MRP GBS: \$144,696,172 2,500-year MRP GBS: \$1,711,000,131 Annualized: \$2,314,180	Frequent	30	Medium
Landslide	Exposed: \$93,970,580,182	Frequent	30	Medium
Civil Unrest	Damage Estimate Not Available	Frequent	24	Medium
Flood ^d	1% annual chance: \$160,673,206	Frequent	18	Medium
Hazardous Materials	Damage Estimate Not Available	Frequent	18	Medium
Terrorism	Damage Estimate Not Available	Frequent	18	Medium
Wildfire	Exposed Value in the Wildland-Urban Interface (WUI): \$111,866,888	Frequent	18	Medium
Drought	Damage Estimate Not Available	Frequent	12	Low

Notes:

- 1 Building damage ratio estimates were based on Federal Emergency Management Agency (FEMA) 386-2 (August 2001).
- 2 The valuation of general building stock and loss estimates was based on custom inventory for the municipality.
High = Total hazard priority risk ranking score of 31 and above
Medium = Total hazard priority risk ranking of 15-30
Low = Total hazard risk ranking below 15
- 3 Loss estimates for the severe storm and severe winter storm hazards are structural values only, and do not include the value of contents.
- 4 Loss estimates for the flood and earthquake hazards represent both structure and contents.
- 5 The Hazards United States – Multi-Hazards (HAZUS-MH) earthquake model results are reported by Census Tract.

National Flood Insurance Program (NFIP) Summary

Table 9.24-4 below summarizes NFIP statistics for the City of Rochester.





Table 9.24-4. NFIP Summary

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 100-year Boundary (3)
Rochester (C)	90	17	\$88,889	1	0	35

Source: FEMA Region 2 2015

Notes:

(1) Policies, claims, repetitive loss, and severe repetitive loss statistics provided by FEMA Region 2, and are current as of June 30, 2015. Total number of repetitive loss properties includes severe repetitive loss properties. Number of claims represents claims closed by June 30, 2015.

(2) Total building and content losses from the claims file provided by FEMA Region 2.

(3) Number of policies inside and outside of flood zones is based on latitude and longitude provided by FEMA Region 2 in the policy file.

FEMA noted that for a property with more than one entry, more than one policy may have been in force or more than one Geographic Information System (GIS) specification was possible.

Numbers of policies and claims, and claims total, exclude properties outside Monroe County boundary, based on provided latitude and longitude coordinates.

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Critical Facilities

Table 9.24-5 below presents Hazards United States (HAZUS) – Multi-Hazards (MH) estimates of damage and loss of use to critical facilities in the community as a result of 1- and 0.2-percent annual chance flood events.

Table 9.24-5. Potential Flood Losses to Critical Facilities

Name	Type	Exposure		Potential Loss from 1% Flood Event		
		1% Event	0.2% Event	Percent Structure Damage	Percent Content Damage	Days to 100-Percent ⁽¹⁾
City Public Safety Building	Government	X	X	0	0	-
Monroe County Sheriff Parks Unit	Police	X	X	0	0	-
Monroe County Sheriff Marine Unit	Police	X	X	9.5	18.1	480
Rochester Fire Department	Fire	X	X	0	0	-
Summerville Pump Station	Wastewater Pump	X	X	-	-	-
US Coast Guard Station	Military	X	X	0	0	-

Source: Monroe County; HAZUS-MH 2.2; FEMA 2015

HAZUS-MH 2.2 provides a general indication of the maximum restoration time for 100% operations. Clearly, a great deal of effort is needed to quickly restore essential facilities to full functionality; therefore, this will be an indication of the maximum downtime (HAZUS-MH 2.2 User Manual).

(1) Some facilities may be within the Digital Flood Insurance Rate Map (DFIRM) flood hazard boundary; however, HAZUS did not calculate potential loss, perhaps because depth of flooding would not cause any damages to these structures according to the depth damage function used in HAZUS for that facility type. Further, HAZUS-MH may estimate potential damage to a facility outside the DFIRM if the model generates a depth grid beyond DFIRM boundaries.

X Facility within the DFIRM boundary

- Not calculated by HAZUS-MH 2.2

Other Vulnerabilities Identified

The municipality has identified the following vulnerabilities within the community:





- According to the 2008 Monroe County Flood Insurance Study (FIS), three water retention structures are on the Genesee River within Rochester. Two of them, Driving Park Dam and Central Avenue Dam, are controlled during normal flows by the Rochester Gas and Electric Company (RG&E). These two structures provide the required head and diversion facilities for operation of two hydroelectric power stations. The third structure is the Court Street Dam, operated by New York State (NYS). This structure maintains water elevations in the NYS Barge Canal between 512.6 and 513.1 during the navigation season, and a minimum elevation of 510.5 during the non-navigation season.
- During flood flows, all three of the structures cited above revert from detention facilities to run-of-the-river structures. The NYS Barge Canal has two gate structures on each side of its confluence with the Genesee River. These gates enable isolation of the canal from effects of flood stages on the Genesee River.

9.24.5 Capability Assessment

This section identifies the following capabilities of the local jurisdiction:

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Community classification
- NFIP
- Integration of mitigation planning into existing and future planning mechanisms.

Planning and Regulatory Capability

Table 9.24-6 below summarizes regulatory tools available to the City of Rochester.

Table 9.24-6. Planning and Regulatory Tools

Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Planning Capability				
Master Plan	Yes	Local	Mayor's Office	Chapter 130
Capital Improvements Plan	Yes/Annually on Oct 1	Local	Office of Management & Budget	-
Floodplain Management / Basin Plan	No	-	-	-
Stormwater Management Plan	Yes	Local	Neighborhood & Business Development	-
Open Space Plan	Yes	Local	Planning & Zoning	-
Stream Corridor Management Plan	No	-	-	-
Watershed Management or Protection Plan	No	-	-	-



Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Economic Development Plan	Yes	Local	Budget	-
Comprehensive Emergency Management Plan	Yes	Local	RFD	-
Emergency Response Plan	Yes	Local	RFD / Rochester Police Department /DES	-
Post-Disaster Recovery Plan	Yes	Local	RFD	-
Transportation Plan	No	-	-	-
Strategic Recovery Planning Report	No	-	-	-
Other Plans:	Yes/Annually on Oct 1	Local	DES	Snow and Ice Master Plan
Other Plans:	Yes	Local	DES, Dept. of Recreation and Youth Services, and the Genesee Waterways Center, Inc.	Genesee Valley Park West Master Plan, 2015
Other:	Yes	Local	-	Draft Port of Rochester and Genesee River Harbor Management Plan, 2015
Other:	Yes	Local	Department of Neighborhood and Business Development (NBD)	Northeast Quadrant Strategic Plan, 2010-2011
Regulatory Capability				
Building Code	Yes-2010-NYS Code	Local	Planning & Zoning	Building Code Chapter 39
Zoning Ordinance	Yes-2003	Local	Planning & Zoning	Chapter 120
Subdivision Ordinance	Yes	Local	Planning & Zoning	Land Subdivision Regulations Chapter 128
NFIP Flood Damage Prevention Ordinance	Yes	Local	Neighborhood & Business Development; Planning & Zoning	Chapter 56
NFIP: Cumulative Substantial Damages	No	-	-	-
NFIP: Freeboard	Yes	State	-	State mandated Base Flood Elevation (BFE)+2 for single and two-family residential construction, BFE+1 for all other construction types
Growth Management Ordinances	No	-	-	-
Site Plan Review Requirements	Yes	Local	NBD, Planning & Zoning	Waterfront Consistency Review Ordinance Chapter 112



Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Stormwater Management Ordinance	No	-	-	-
Municipal Separate Storm Sewer System (MS4)	Yes	Local	NBD, Planning & Zoning	
Natural Hazard Ordinance	Yes	-	-	Coastal High-Hazard Areas Chapter 43A
Post-Disaster Recovery Ordinance	No	-	-	-
Real Estate Disclosure Requirement	Yes	State	-	NYS mandate, Property Condition Disclosure Act, <i>NY Code</i> – Article 14 §460-467
Other (Special Purpose Ordinances [i.e., sensitive areas, steep slope])	No	-	-	-

Administrative and Technical Capability

Table 9.24-7 below summarizes potential staff and personnel resources available to the City of Rochester.

Table 9.24-7. Administrative and Technical Capabilities

Resources	Is this in place? (Yes or No)	Department/ Agency/Position
Administrative Capability		
Planning Board	Yes	NBD, Planning & Zoning
Mitigation Planning Committee	Yes	RFD
Environmental Board/Commission	Yes	NBD, Planning & Zoning
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Maintenance Programs to Reduce Risk	No	-
Mutual Aid Agreements	Yes	RFD
Technical/Staffing Capability		
Planner(s) or engineer(s) with knowledge of land development and land management practices	Yes	NBD, Planning & Zoning
Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Yes	NBD and DES
Planners or engineers with an understanding of natural hazards	No	-
NFIP Floodplain Administrator	Yes	NBD, Planning & Zoning
Surveyor(s)	No	-
Personnel skilled or trained in Geographic Information System (GIS) and/or HAZUS-MH applications	Yes	City DES, Technology Applications Specialist (2), NBD, GIS Planner
Scientist familiar with natural hazards	Yes	Rochester Institute of Technology
Emergency Manager	Yes	RFD
Grant writer(s)	Yes	City
Staff with expertise or training in benefit/cost analysis	Yes	Budget





Professionals trained in conducting damage assessments	Yes	NBD
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Fiscal Capability

Table 9.24-8 below summarizes financial resources available to the City of Rochester.

Table 9.24-8. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	Yes
Capital improvements project funding	Yes
Authority to Levy Taxes for specific purposes	No
User fees for water, sewer, gas, or electric service	Yes – Water Only
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	No – Monroe County
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	No
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state funding programs	Yes
Open space acquisition funding programs	No
Other	Don't Know

Community Classifications

Table 9.24-9 below summarizes classifications of community programs available to the City of Rochester.

Table 9.24-9. Community Classifications

Program	Do you have this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (Insurance Services Office [ISO] Fire Protection Classes 1 to 10)	Yes	-	In Progress
Storm Ready	Yes	StormReady County	-
Firewise	No	-	-
Disaster/safety programs in/for schools	Yes	-	-
Organizations with mitigation focus (advocacy group, non-government)	No	-	-
Public education program/outreach (through website, social media)	Yes	-	-
Public-private partnerships	Yes	-	-



The classifications listed above relate to the community’s ability to provide effective services to lessen its vulnerability to the hazards identified. These classifications can be viewed as a gauge of the community’s capabilities in all phases of emergency management (preparedness, response, recovery, and mitigation), and are used as an underwriting parameter for determining costs of various forms of insurance. The Community Rating System (CRS) class applies to flood insurance, while the Building Code Effectiveness Grading Schedule (BCEGS) and Public Protection classifications apply to standard property insurance. CRS classifications range on a scale of 1 to 10, with class 1 being the best possible classification, and class 10 representing no classification benefit. Firewise classification is higher if the subject property is more than 1000 feet from a creditable fire hydrant and is within 5 road miles of a recognized Fire Station.

Criteria for classification credits are outlined in the following documents:

- The Community Rating System Coordinators Manual
- The Building Code Effectiveness Grading Schedule
- The International Organization for Standardization (ISO) Mitigation online Public Protection website at <https://www.isomitigation.com/ppc/>
- The National Weather Service Storm Ready website at <http://www.stormready.noaa.gov/index.html>
- The National Firewise Communities website at <http://firewise.org/>

Self-Assessment of Capability

Table 9.24-10 below provides an approximate measure of the City of Rochester’s capability to work in a hazard-mitigation capacity and/or effectively implement hazard mitigation strategies to reduce hazard vulnerabilities.

Table 9.24-10. Self-Assessment Capability for the Municipality

Area	Degree of Hazard Mitigation Capability		
	Limited (If limited, what are your obstacles?)	Moderate	High
Planning and Regulatory Capability		X	
Administrative and Technical Capability		X	
Fiscal Capability		X	
Community Political Capability		X	
Community Resiliency Capability		X	
Capability to Integrate Mitigation into Municipal Processes and Activities.		X	

National Flood Insurance Program

NFIP Floodplain Administrator (FPA)

Permit Office Manager

Flood Vulnerability Summary

The municipality does not maintain lists/inventories of properties that have undergone flood damage from past events; nor does it make substantial damage estimates. The City is unaware of how many constituents are interested in mitigation (elevation or acquisition), how many are currently in the process of mitigation, or what sources would be used to fund such projects.





Resources

The City FPA is the sole person assuming the responsibilities of floodplain administration, and is provided with technical support and guidance from other City departments, as needed. The FPA administers permit reviews, Letter of Map Amendment (LOMA) applications, and verifies if properties are within a floodplain. Currently, no education or outreach to the community occurs regarding flood hazards/risk or flood risk reduction through NFIP insurance, mitigation, etc. The City FPA administers a Floodplain Management Program meeting all Federal Emergency Management Agency (FEMA) and NYS requirements, encourages affected property owners to purchase flood insurance, and promotes purchase of appropriate hazard insurance policies.

The City FPA noted barriers to running an effective floodplain management program in the City of Rochester, and feels that he is not adequately supported and trained to fulfill the responsibilities of municipal FPA. The FPA expressed interest in attending continuing education and/or certification training on floodplain management if offered in the County.

Compliance History

As of June 30, 2015, 90 policies were in force in the City of Rochester, 35 of which were within the 1% flood boundary. One repetitive loss property and no severe repetitive loss properties are in the City. Between 1978 and June 30, 17 claims were paid within the City totaling \$88,889. According to the NFIP Policy Statistics report available at the time of this Plan, policies in the City of Rochester insure more than \$19.7 million of property with total annual insurance premiums of \$ 130,977.

The FPA reports that the City is in good standing with the NFIP, but is unaware of when the most recent Community Assistance Visit (CAV) occurred.

Regulatory

The City's Flood Damage Prevention Ordinance (FDPO) was last reviewed and updated in August 2008, and appears in Chapter 56 of the local code. Floodplain management regulations and ordinances meet FEMA and NYS minimum requirements, and do not exceed these requirements.

Other local ordinances, plans, and programs support floodplain management and meet NFIP requirements in the City, including the Stormwater Pollution Prevention Plan.

Community Rating System

The City of Rochester does not participate in the Community Rating System (CRS) program.

Other Capabilities Identified

Flood forecasting and issuance of flood warnings to the community by the Environmental Science Services Administration Weather Bureau Station in Rochester has prevented damage from flooding in the City of Rochester. In addition, a Surveillance Radar System, operated by the National Weather Service at Greater Rochester International Airport, allows early detection of storms, as well as path and predicted amounts of rainfall in the Towns of Ogden and Pittsford, and the Village of Fairport. A gage on the Genesee River at Rochester also has been in operation since 1906.

Previous mitigation actions that are now ongoing programs and capabilities are described below. Refer to Table 9.24-11 later in this annex.

- The Rochester Fire Department (RFD):





- Regularly solicits “Mutual Aid” agreements, and is currently a member of the Monroe County Fire Mutual Aid plan.
- Receives Special Operations and Tactical Rescue training, including water rescue training. This is an ongoing process. RFD currently has members trained in hazardous materials, confined space, trench, building collapse, rope, auto extrication, and water rescue disciplines. Funding for these trainings comes from Urban Area Security Initiative (UASI), Metropolitan Medical Response System (MMRS), State Homeland Security Program (SHSP), Assistance to Firefighters Grant (AFG), Urban Search and Rescue (USAR), and local budget.
- At over half of RFD firehouses, backup generators have been installed.
- Installed backup generators are present at key Department of Public Works (DPW) facilities at Mt. Read & Colfax, City Hall, Public Safety Building (PSB), and other public facilities.
- The Rochester Bureau of Planning & Zoning provides comprehensive inspection services for existing and/or new infrastructure, as funded through the general fund.
- The City FPA administers a Floodplain Management Program meeting all FEMA and NYS requirements, encourages affected property owners to purchase flood insurance, and promotes purchase of appropriate hazard insurance policies.
- The City of Rochester Department of Environmental Services:
 - Has an ongoing program to maintain urban forests by management areas, maintained on a 7-year cycle. Once a cycle is completed in one management area, another one begins, and so on.
 - Provides backup power supply for municipal fueling stations, including full power redundancy for fueling station at Mt. Read.
 - Created a route system strategy to reduce time required to clear streets of debris. DES performs continual reviews of the routing system to enhance efficiency.
 - Regularly reviews restoration priorities, and completed a rerouting in September 2013 to reduce route completion times.
- The Rochester Department of Neighborhood & Business Development:
 - Regularly enforces government permit processes, as funded through the general fund.
 - Enforces building codes as required for existing and new infrastructure, and complies with applicable federal and state regulations, as funded through the general fund.
 - Enacts local laws that require property owners to demolish and remove unsafe structures from their property(ies).
- The Rochester Department of Neighborhood & Business Development, in partnership with RFD, encourages residential use of smoke detectors through public education, and “give away” programs, whereby smoke and carbon monoxide (CO) detectors are installed in City residences (citywide). This has been an ongoing program over the past 10 years through a renewal program funded through the local budget, donations, and Fire Safety Grants.
- The City of Rochester Police Department (RPD) formed a Security Committee in 2015, performed detailed threat assessments, and reviewed emergency plans at public facilities listed below. Based on information developed from the vulnerability threat assessment, each facility was evaluated and placed in one of four rankings and then prioritized within that ranking.

Level I (Most Critical Facility)

- City of Rochester Public Safety Building

Level II

- East Division
- West Division
- Central Section



- Special Operations Section

Level III

- Mt. Read Facility (Police Special Teams Storage Facilities)
- Firearms Range (Public Safety Training Facility [PSTF])

Level IV

- Neighborhood Service Center Offices (x4)
- Police Auto Impound
- Professional Standards Section
- Animal Control/Mounted Barn.

Numerous recommendations were offered to harden the facilities and improve site security plans. The committee will explore future funding sources (Capital Improvements Program [CIP] and grants) to accomplish security enhancements.

- The City of Rochester Bureau of Water provides redundant backup power supply for public supply treatment facilities and system pump stations at the Hemlock Treatment Plant; Rush, Highland, and Cobbs Hill Reservoirs; and the Felix Street Operations Center.

Integration of Hazard Mitigation into Existing and Future Planning Mechanisms

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of this planning effort, each community was surveyed to obtain a better understanding of the community’s progress in plan integration. A summary appears below. In addition, the community identified specific integration activities that will be incorporated into municipal procedures.

Planning

Land Use Planning: The City of Rochester has both a Planning Commission and Zoning Board of Appeals that review all applications for development and consider natural hazard risk areas in their review. Many development activities require additional levels of environmental review, specifically NYS State Environment Quality Review (SEQR) and Federal National Environmental Protection Act (NEPA) requirements. The Bureau of Planning and Zoning administers all applications to City Boards and Commissions.

The Bureau of Planning and Zoning also coordinates comprehensive planning, supports development of neighborhood plans, and ensures compliance with local laws and regulations to promote a safe and quality environment for residents.

Genesee Valley Park West Master Plan, 2015: The City of Rochester Department of Environmental Services, the City of Rochester, Department of Recreation and Youth Services, and the Genesee Waterways Center, Inc. recently developed a master plan for the part of the Genesee Valley Park west of the Genesee River. The park is one of the three original parks in the Rochester Park System, and is designed primarily for recreational activities. The master plan inventories and analyzes the park’s current condition, including equipment, infrastructure, and vegetation; conducts a historic landscape analysis; studies hydro-geologic conditions of the Genesee River shoreline in the target area; provides alternative schematic designs; and recommends historic landscape treatment and other projects to enhance the park’s overall condition. The master plan includes land use and zoning recommendations for managing hazard risks and directing growth. Some recommendations include:

1. Establish a local benchmark of how park land should interface with the river, include green infrastructure, and enhance the ecological recreation experience. Assess and enhance the following:
 - a. Stormwater and green infrastructure



- b. River bank ecology
 - c. Vegetation
 - d. Sedimentation and maintenance
2. Respond to the growing health care and fitness crisis by focusing on wellness and developing new public-private partnerships.
3. Plan facilities and programming to accommodate multi-generational, multi-purpose, and long-term recreation trends.

Draft Port of Rochester and Genesee River Harbor Management Plan, 2015: This plan was developed as a multi-jurisdictional strategy to guide and manage use of waters in the Port of Rochester-Genesee River Harbor. The City deemed the plan necessary because of the Harbor's location as a regional destination for recreation, its function to stimulate the local economy, and recent redevelopment of the Port of Rochester site. The Harbor Management Plan also complies with the federal Coastal Zone Management Act (CZMA) of 1972, and is a type of Local Waterfront Revitalization Program (LWRP). This plan primarily focuses on Harbor impacts on the City of Rochester, but also applies to a portion of the Town of Irondequoit. The plan considers potential hazard areas, such as floodplains and wetlands, and includes recommendations for managing hazard risks. Some identified issues and opportunities include:

1. Issues
 - a. Storm surge continues to be an issue reported by Harbor Management Plan stakeholders. Specific impacts of storm surge on the Harbor Management Area (HMA) have not been fully evaluated since the stone revetment was installed along the piers for wave attenuation. Stakeholders have reported that removal of the Hojack Swing Bridge has altered how the surge affects the harbor, further necessitating evaluation of the surge. Storm surge can damage docked boats and render the Genesee River non-navigable. This occasionally limits the Harbor's ability to function as a Critical Harbor of Refuge during large Nor'easter storms.
 - b. During maintenance activities, such as dredging, utilities that cross the river can be affected.
 - c. Three known but unmarked navigation hazards are in the vicinity of the Harbor: the sunken tug *Cheyenne*, the west side of the turning basin in Reach G (between the federal navigation channel and the Genesee Riverway Trail footbridge), and the southern dolphin approximately 300 feet upstream of the U.S. Coast Guard Station. Several less prominent hazards are present along the shoreline.
 - d. Evaluation of effectiveness and resiliency of current infrastructure under climate changes and potential lake level changes has not occurred.
2. Opportunities
 - a. A collaborative dredging strategy among property owners and agencies could reduce dredging mobilization costs and permit administration.
 - b. Dredged material from the Genesee River is clean enough to be considered for beneficial uses, such as ecosystem restoration.
 - c. Ensuring long-term protection of the River's riparian areas would contribute to improving water quality in the Harbor and eventual delisting of the Rochester Embayment Area of Concern.
 - d. The U.S. Environmental Protection Agency (EPA) is reviewing the draft Work Plan for Resource Conservation and Recovery Act (RCRA) Facility Investigation and Corrective Measure Study for Operable Unit (OU)-5 Lower Genesee River Area of Concern—determination of contamination levels in the lower 4 miles of the Genesee River, and evaluation of potential effects of contamination on fish, wildlife, and human health. The results will provide additional information about contamination in the HMA, perhaps resulting in remedial efforts in the River.

Local Waterfront Revitalization Program, 2015: This LWRP is an update to the City of Rochester's original LWRP from 1990. The plan references the Port of Rochester and Genesee River Harbor Management



Plan, and considers it an appendix to the plan. As with the Harbor Management Plan, the LWRP considers potential hazard areas and possible health impacts of local waterways on City residents. The major areas of focus for the program are the Lake Ontario waterfront, the Genesee River waterfront, and the Erie Canal waterfront. Relevant recommendations from the LWRP include:

1. Improvement of Durand Beach Water Quality
2. Wave Surge Mitigation Project (Phase 2)
3. Site Remediation along River Gorge
4. Genesee Valley Park Bridge Improvements
5. Dredging
6. Stormwater Remediation
7. Genesee River Natural Resource Planning and Projects.

Northeast Quadrant Strategic Plan, 2010-2011: The City of Rochester Department of Neighborhood and Business Development (NBD) consists of four teams, one for each of the four City quadrants. The Northeast Quadrant Team developed this strategy to identify community assets, assess and analyze strengths and opportunities in the quadrant, and identify strategic actions. The plan describes current land use development in the quadrant, and identifies the most pressing goals for the quadrant as public safety, beautification, blight reduction, regulatory compliance, and capacity building.

Regulatory and Enforcement

Building Code Chapter 39: Building codes are strictly enforced to prepare new and renovated buildings as well as possible for hazard-related incidents. The City complies with New York State Uniform Fire Prevention and Building Code (the Uniform Code) and the State Energy Conservation Construction Code (the Energy Code).

Coastal High-Hazard Areas Chapter 43A: The City of Rochester administers a coastal erosion program in compliance with Article 34 of NYS Environmental Conservation Law. Specifically, it establishes and enforces procedures and development to minimize or prevent structural damage from coastal flooding and erosion, and to protect natural resources and protective features. These requirements impact only the Coastal Erosion Hazard Area associated with Lake Ontario.

Flood Damage Prevention Chapter 56: This chapter promotes public health, safety, and general welfare of residents, and seeks to minimize public and private losses due to flood conditions and erosion. The chapter regulates development to promote flood-resistant structures and controls alteration of floodplains to prevent increased vulnerability.

Waterfront Consistency Review Ordinance Chapter 112: The City provides a framework for its governmental agencies to review actions proposed within the boundaries of the City's LWRP, and to promote preservation, enhancement, and utilization of the City's coastal areas in safe ways. It also seeks to ensure beneficial use of coastal resources and natural resource protection by balancing against losses from flooding, erosion, and sedimentation.

Zoning Chapter 120: The City of Rochester's zoning code includes districts and standards pertaining to mitigation of hazards. These include the open space district, citywide and neighborhood-specific design standards and guidelines, and review authorities.

Land Subdivision Regulations Chapter 128: The City's Planning Commission is tasked with site plan/subdivision review. The Planning Board is especially attentive to ensure that developments mitigate issues associated with natural hazards.



Fiscal

Operating Budget: The City’s operating budget includes minimal provisions for expected repairs like snow removal and infrastructure repair after a storm or natural disaster. The City also includes special funds for potable water and fire protection purposes. Utilities for gas and electric, but not stormwater, are also assessed.

Grants: The City is the recipient of a number of county, state, and federal grants. The Community Development Block Grant (CDBG) is considered the largest off-budget fund (i.e., whereby program appropriations are approved by City Council separately from the City operating budget). The City also receives funding from the AFG grant, Smart Policing grant, SHSP, and other major programs. In 2014-15, the City received almost \$3.5 million from CDBG funds, \$90,000 from federal transportation grants, \$18.122 million from emergency communications funds, and over \$1.5 million from miscellaneous federal and other intergovernmental funds.

Education and Outreach

As able and to meet all professional requirements, City of Rochester staff attend trainings and classes sponsored by Monroe County Department of Planning and Development, Monroe County Office of Emergency Management, or by state and federal agencies. City emergency responders also have the option to attend courses at the Monroe County Public Safety Training Facility.

The City of Rochester maintains a public safety webpage for posting educational materials to residents to reduce vulnerability to local hazards. The website includes emergency responder (RFD, RPD, and 9-1-1) information and contacts.

Additionally, RFD is committed to public outreach, and sponsors safety events that include open houses on fire safety, injury prevention, and health and wellness; door-to-door smoke detector checks; operation of mobile fire safety classroom; and public presentations on topics such as cooking safety, smoke and CO detector installation, exit drills in the home, and emergency preparedness.

9.24.6 Mitigation Strategy and Prioritization

This section discusses past mitigation actions and status, and describes proposed hazard mitigation initiatives and prioritization.

Past Mitigation Initiative Status

Table 9-24-11 below indicates progress on the community’s mitigation strategy identified in the 2011 Plan. Previous actions that are now ongoing programs and capabilities are indicated as such in the Table 9-24-11, and may also appear under “Capability Assessment” presented previously in this annex. Actions carried forward as part of this Plan update are included in the following subsection (in Table 9-24-12) with prioritization.



Table 9.24-11. Past Mitigation Initiative Status

2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2017 HMP or Discontinue)	Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
ES-3: Establish an active Recruitment and Retention (of providers) Program.	N/A	No Progress	N/A	Discontinue	Not applicable to City.
ES-4: Stockpile emergency supplies.	N/A	No Progress	N/A	Discontinue	Not applicable to City.
ES-5: Solicit “Mutual Aid” agreements.	RFD	Complete	Currently member of the Monroe County Fire Mutual Aid plan	Discontinue	Project completed - moved to ongoing capability.
ES-6: Engage emergency service jurisdictions in local municipal government processes.	N/A	No Progress	N/A	Discontinue	Not applicable to City.
NRP-1: Ensure proper disposal of Hazardous Waste.	N/A	No Progress	N/A	Discontinue	Not applicable to City.
NRP-2: Enforce government permit processes. This may pertain to existing and/or new infrastructure.	NBD	Complete	100% completed, funded through the general fund.	Discontinue	Project completed - moved to ongoing capability.
NRP-3: Provide comprehensive inspection services. This may pertain to existing and/or new infrastructure.	Codes - Bureau of Planning & Zoning	Complete	100% completed, funded through the general fund.	Discontinue	Project completed - moved to ongoing capability.
NRP-4: Administer a Floodplain Management Program. This may pertain to existing and/or new infrastructure.	Floodplain Administrator, T. Mann	Ongoing	Meet FEMA and State Requirements	Discontinue	Integrated into the City’s normal operations. Moved to ongoing capability.



2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2017 HMP or Discontinue)	Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
NRP-5: Maintain "Urban Forests."	DES	In progress (ongoing)	The City is split into management areas, which are maintained on a 7 year cycle. Once a cycle is completed, another one begins, and so on.	Discontinue	Integrated into the City's normal operations. Moved to ongoing capability.
PEA-3: Review Utility Service & restoration plans.	N/A	No Progress	N/A	Discontinue	Not applicable to City.
PEA-4: Identify and utilize a "Speakers Bureau."	N/A	No Progress	N/A	Discontinue	Not applicable to City.
PP-1: Identify "special hazard" areas.	N/A	No Progress	N/A	Discontinue	Not applicable to City.
PP-2: Maintain public infrastructure. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinue	Not applicable to City.
PP-3: Solicit inter-municipal and interagency cooperation.	N/A	No Progress	N/A	Discontinue	Not applicable to City.
PP-4: Promote purchase of appropriate hazard insurance policies. This may pertain to existing and/or new infrastructure.	Floodplain Administrator, T. Mann	Complete	Ongoing	Discontinue	Project completed - moved to ongoing capability.
PP-5: Property acquisition	N/A	No Progress	N/A	Discontinue	Not applicable to City.
PR-1: Enforce Building Code as required for existing and new infrastructure.	NBD	Complete	100% completed, funded through the general fund.	Discontinue	Project completed - moved to ongoing capability.
PR-2: Comply with applicable federal and state regulations.	NBD	Complete	100% completed, funded through the general fund.	Discontinue	Project completed - moved to ongoing capability.





2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2017 HMP or Discontinue)	Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
PR-5: Regular review of Local Laws	N/A	No Progress	N/A	Discontinue	Not applicable to City.
SP-1: Disaster “proof” public facilities. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinue	Not applicable to City.
SP-2: Secure and provide redundant critical systems and facilities. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinue	Not applicable to City.
SP-3: “Target Harden” facilities. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinue	Not applicable to City.
SP-4: Expand fiber telecommunications networks.	N/A	No Progress	N/A	Discontinue	Not applicable to City.
EPI-PR-2: Local Project. Provide HIV screening and public education (Democrat & Chronicle, 7-21-03).	N/A	No Progress	N/A	Discontinue	Not applicable to City.
Fire-PP-1: Encourage residential use of smoke detectors through public education, and “give away” programs. This may pertain to existing and/or new infrastructure.	RFD, NBD	Complete, Ongoing	Installation of Smoke and CO detectors in City residences (City Wide). Ongoing program over the past 10 years through renewal program. Local budget, Donations, Fire Safety Grants	Discontinue	Ongoing project for citizen safety. Integrated into the City’s normal operations. Moved to ongoing capability.
Fire-SP-1: Local Project. Plan, design and develop enhanced, local facilities for on-site specialized emergency training.	N/A	No Progress	N/A	Discontinue	Not applicable to City.
FI-ES-1: Provide Special Operations and Tactical Rescue training including water rescue training	RFD	In progress, Ongoing	This is an ongoing process. Currently have members trained in; Hazmat, Confined Space, Trench, Building Collapse, Rope, Auto	Discontinue	Ongoing project for citizen safety. Integrated into the City’s normal operations.





2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2017 HMP or Discontinue)	Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
			Extrication, Water Rescue disciplines. Funded through UASI, MMRS, SHSP, AFG, USAR, Local Budget		Moved to ongoing capability.
FI-PEA-1: Provide information about the Erie Canal and its spillway locations	N/A	No Progress	N/A	Discontinue	Not applicable to City.
FI-PP-1: Encourage affected property owners to purchase Flood Insurance. This may pertain to existing and/or new infrastructure.	Floodplain Administrator, T. Mann	Complete	Ongoing	Discontinue	Project completed - moved to ongoing capability.
FI-PP-2: Participate in the federal Community Rating System. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinue	Not applicable to City.
FI-PP-5: Local Projects with the U.S. Army Corps of Engineers, "Risk Management Program." Levy inspection, safety analysis and maintenance requirements (SEMO Region V meeting, 7.29.08).	Floodplain Administrator, T. Mann	Ongoing	The City DES filed and received approval from FEMA for a Letter of Map Revision (LOMR). The LOMR should resolve any issues with the condition of the river wall and simultaneously corrects the floodplain map.	Discontinue	Project completed.
FI-PR-1: Implement an annual, "Waterway/Drainage Maintenance" Program	N/A	No Progress	N/A	Discontinue	Not applicable to City.
FI-SP-1: Local Project. Implement mitigation measures for Irondequoit Creek, as identified by the U.S. Army Corps of Engineer's 2003 proposal, and as agreed by local parties. (reference – Democrat & Chronicle, 3-2-03). This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinue	Not applicable to City.



2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2017 HMP or Discontinue)	Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
Fl-SP-2: Local Project. Implement municipal mitigation measures identified by USGS modeling, proposed by the Storm Water Coalition and agreed by local parties. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinue	Not applicable to City.
Ice-ES-1: Develop a strategy to reduce the time it takes to clear streets (Rights-of-Way) of debris	DES	Complete	Route system devised, 100% complete	Include in 2017 HMP	Continual review to enhance efficiency in routing system
Ice-ES-2: Regularly review restoration priorities	DES	Ongoing	Rerouting completed in September 2013 to reduce route completion times.	Include in 2017 HMP	Continue to periodically review route system
Ice-ES-3: Enhance utility “Town Liaison” Program	N/A	No Progress	N/A	Discontinue	Not applicable to City.
Ice-PEA-2: Develop alternate communications plan	N/A	No Progress	N/A	Discontinue	Not applicable to City.
Ice-PEA-3: Provide automated utility restoration schedule to the public	N/A	No Progress	N/A	Discontinue	Not applicable to City.
Ice-PEA-4: Provide more public outreach during an emergency	N/A	No Progress	N/A	Discontinue	Not applicable to City.
Ice-PEA-5: Expand utility Customer Service capacity	N/A	No Progress	N/A	Discontinue	Not applicable to City.
Ice-PEA-6: Expand information available on websites	N/A	No Progress	N/A	Discontinue	Not applicable to City.





2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2017 HMP or Discontinue)	Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
Ice-PP-1: Encourage installation of backup power supply. This may pertain to existing and/or new infrastructure.	RFD	In progress	City will be hiring a consultant to study expanding the generator coverage at the Public Safety Building.	Include in 2017 HMP	Combine with Ice-SP-1, and reword to: Expand generator coverage at the Public Safety Building
Ice-PR-1: Implement an “Annual, Tree/Stream Maintenance Program”	N/A	No Progress	N/A	Discontinue	Not applicable to City.
Ice-PR-2: Relocate vulnerable utilities. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinue	Not applicable to City.
Ice-PR-3: Develop DPW/DOT Plans for debris clearance, removal, and disposal	N/A	No Progress	N/A	Discontinue	Not applicable to City.
Ice-PR-4: Lobby state and federal officials to require permanent installation of emergency generators on-site at health care facilities and elderly housing facilities. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinue	Not applicable to City.
Ice-SP-1: Install permanent backup power supply at public facilities. This may pertain to existing and/or new infrastructure.	RFD/DES	In progress	Currently over half of the RFD firehouse have backup generators installed. Installed backup generators at key DPW facilities at Mt. Read & Colfax; City Hall, PSB & other public facilities. City will be hiring a consultant to study expanding the generator coverage at the Public Safety Building. Funding is supplied via CIP money	Yes/Include in 2017 HMP	Ongoing Project, combined with Ice-PP-1, reword to: Expand generator coverage at the Public Safety Building
Land-PEA-1: Local Project. Promote understanding and use of (telephone number) 811, “Call Before You Dig.”	N/A	No Progress	N/A	Discontinue	Not applicable to City.





2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2017 HMP or Discontinue)	Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
Land-PR-1: Local Project. Enact Local Laws: to restrict development on steep slopes; to require property owners and/or mine operators to rehabilitate open mines at closing. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinue	Not applicable to City.
SC-PR-1: Local Project. Enact Local Laws that require property owners to demolish and remove unsafe structures from their property(ies). This may pertain to existing and/or new infrastructure.	NBD	Complete	100% complete and ongoing. Funded by the general fund.	Discontinue	Project completed - moved to ongoing capability.
Terr-PP-1: Implement a strategy to “target harden” critical and public facilities. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinue	Not applicable to City.
Terr-PR-1: Provide intelligence to local authorities about legal surveillance and threat assessment activities.	RPD	In- Progress	RPD performs scheduled threat assessments on an annual basis of Public and Private Locations within the City Limits. These locations are then prioritized based on their threat value. RPD performed additional threat assessments at Rochester Fire Department Locations in 2015. In 2015, DES installed a new surveillance system at the Blue Cross Arena following the recommendations of a previous threat assessment for that site. This system is integrated into the City Of Rochester Police Overt Digital Surveillance System (PODSS) – DES can provide details on funding sources for the project.	Include in 2017 HMP	RPD should continue to perform threat assessment as scheduled and by specific requests.
Terr-PR-2: Review emergency plans for public facilities to ensure that appropriate measures are considered and referenced	RPD	In- Progress, 70% Complete	In 2015, RPD formed a Security Committee and performed detailed threat assessments and reviewed emergency plans at the following public facilities.	Include in 2017 HMP	RPD should follow up on funding sources to accomplish the security enhancement



2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2017 HMP or Discontinue)	Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
			<p>Based on information developed from the vulnerability threat assessment, each facility was evaluated and placed in one of four rankings and then prioritized within that ranking.</p> <p>Level I (Most Critical Facility)</p> <ul style="list-style-type: none"> City of Rochester Public Safety Building <p>Level II</p> <ul style="list-style-type: none"> East Division West Division Central Section Special Operations Section <p>Level III</p> <ul style="list-style-type: none"> Mt. Read Facility (Police Special Teams Storage Facilities) Firearms Range (PSTF) <p>Level IV</p> <ul style="list-style-type: none"> Neighborhood Service Center Offices (x4) Police Auto Impound Professional Standards Section Animal Control/Mounted Barn <p>Numerous recommendations were made to harden the facilities and improve site security plans. The committee will explore future funding sources (CIP and Grants) to accomplish security enhancements.</p>		<p>recommendations.</p>
Terr-PR-3: Schools Project. Comply with Project Save regulations for plan review and revision cycles.	N/A	No Progress	N/A	Discontinue	Not applicable to City.



2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2017 HMP or Discontinue)	Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
Trans-PEA-1: Local Project. Provide traffic reports through the local broadcasters	N/A	No Progress	N/A	Discontinue	Not applicable to City.
Trans-PEA-2: Local Project. Provide construction information and project status on sites that impact traffic	N/A	No Progress	N/A	Discontinue	Not applicable to City.
Util-ES-1: Local Projects. Provide power back-up supply for municipal fueling stations. This may pertain to existing and/or new infrastructure.	DES	Complete	Full power redundancy for fueling station at Mt. Read	Discontinue	Project completed - moved to ongoing capability.
Util-PP-1: Local Utilities Project. Preserve capacity to generate local power and enhance the ability to segregate local supply from the national power grid during major failures, e.g. August 14, 2003. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinue	Not applicable to City.
WSC-PR-1: Provide redundant back-up power supply for public supply treatment facilities and system pump stations. This may pertain to existing and/or new infrastructure.	Water Bureau	Complete	Water Bureau has back up power at the Hemlock Treatment plant, Rush, Highland and Cobbs Hill Reservoirs and the Felix Street Operations Center	Discontinue	Project completed - moved to ongoing capability.



Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy

Other than those identified in the previous mitigation strategy in the 2011 Plan, the City of Rochester did not note completion of any additional mitigation projects/activities.

Proposed Hazard Mitigation Initiatives for the Plan Update

FEMA Region II led a meeting of all Monroe County municipalities in November 2015 to discuss the purpose, goals, and long-term benefits of identifying mitigation actions to include in the updated HMP. FEMA provided handouts on creating a functionally diverse jurisdictional planning team, guidance for identifying integration actions, and guidelines for completing an action worksheet for jurisdictions to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards.

Additionally, Monroe County hosted two Annex Workshops in December 2015 to assist municipalities in completing their jurisdictional annexes, including identifying mitigation projects and developing Action Worksheets. All jurisdictions were provided with a set of sample mitigation actions that satisfied County goals of addressing all hazards and representing all six CRS categories, along with a refresher instruction sheet on how to complete an action worksheet, and an example of a completed action worksheet.

In January 2016, Monroe County jurisdictions were provided results of the municipal risk assessment to further assist with development of their mitigation strategies. Throughout the planning process, jurisdictions had access to mitigation planners who were available to assist with development of the jurisdictional annexes, including mitigation strategies and action worksheets, as necessary.

Table 9.24-12 summarizes the comprehensive range of specific mitigation initiatives the City of Rochester would like to pursue in the future to reduce effects of hazards. Some of these initiatives may be previous actions carried forward for this Plan update. Implementation of these initiatives will depend on available funding (grants and local match availability), and initiatives may be modified or omitted at any time based on occurrence of new hazard events and changes in municipal priorities. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in Table 9.24-12 to further demonstrate the wide range of activities and mitigation measures selected.

As discussed in Section 6, 14 evaluation/prioritization criteria are used to complete prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as High, Medium, or Low. Table 9.24-12 summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.24-13 summarizes prioritization of all proposed mitigation initiatives for the Plan update.



Table 9.24-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
CRC-1	Evaluate the flood vulnerability of the City Public Safety Building and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.	Existing	Flood	1, 3	FPA; Engineer	High	Low	General fund (staff time)	1 year	High	SIP	PP
CRC-2	Develop a strategy to reduce the time necessary to clear streets (rights-of-way) of debris (Ice-ES-1)	N/A	Flood, severe storm, severe winter storm	1, 2	DES, Highway Superintendent	Medium-High	Low-Medium	Local operating budgets, private-sector funds, Mitigation Grants	Short term	High	LPR	PR NR
CRC-3	Periodically review restoration priorities and route efficiencies (Ice-ES-2)	N/A	Flood, severe storm, severe winter storm	5	DES	Medium-High	Low	Local operating budgets, private-sector funds, mitigation grants	Short term	High	NSP	NR
CRC-4	Expand generator coverage at the Public Safety Building based on results of consultant to study. City will be hiring a consultant to study expanding the generator coverage. (Ice-PP-1/Ice-SP-1)	Existing	All Hazards	2, 3	RFD/DES	High	High	Funding is supplied via CIP money	Short term	High	LPR, SIP	ES
CRC-5	Follow up on funding sources to accomplish the security enhancement recommendations made to harden the facilities and improve site security plans. The committee will explore future funding sources (CIP and grants) to accomplish security enhancements.	Existing	All Hazards	1, 2, 3	RPD	High	Medium	CIP and grants	Short term	High	LPR	PR ES





Table 9.24-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
	(Terr-PR-2)											
CRC-6	RPD Security Committee will explore funding sources (CIP and grants) to implement security enhancements based on threat assessments of City critical facilities and public facilities.	Existing	Civil unrest, terrorism, utility failure	1, 2, 3, 4	Rochester Police Department, City of Rochester	High	High	CIP Funding, State and Federal grants	Short, DOF	Medium	SIP	PP, ES, PR
CRC-7	Conduct education and outreach to residents and business owners to inform them if their properties are in known hazard areas, and actions they can take to protect their properties.	Existing	Earthquake, Extreme Temperatures, Flood, Infestation, Landslide, Severe Storms, Severe Winter Storms, Wildfire, HazMat, Utility Failure	1, 3, 4	City Clerk/Administrator	High	Low	Operating budget	OG	High	EAP	PI
CRC-8	Evaluate the flood vulnerability of the Rochester Fire Department Stations and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.	Existing	Flood	1, 3	FPA; Engineer	High	Low	General fund (staff time)	1 year	High	SIP	PP
CRC-9	Contact the US Coast Guard to assist in evaluating the flood vulnerability of the USCG Station and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.	Existing	Flood	1, 3	FPA; Engineer	High	Low	General fund (staff time)	1 year	High	SIP	PP

Notes:

Not all acronyms and abbreviations defined below are included in the table.

*Does this mitigation initiative reduce effects of hazards on new and/or existing buildings and/or infrastructure? Not applicable (N/A) is inserted if this does not apply.





Acronyms and Abbreviations:

CAV	Community Assistance Visit
CIP	Capital Improvement Program
CDBG	Community Development Block Grant
CRS	Community Rating System
DPW	Department of Public Works
FEMA	Federal Emergency Management Agency
FPA	Floodplain Administrator
HMA	Hazard Mitigation Assistance
N/A	Not applicable
NFIP	National Flood Insurance Program
NYS DHSES	New York State Division of Homeland Security and Emergency Services
OEM	Office of Emergency Management

Potential FEMA HMA Funding Sources:

FMA	Flood Mitigation Assistance Grant Program
HMGP	Hazard Mitigation Grant Program
PDM	Pre-Disaster Mitigation Grant Program
RFC	Repetitive Flood Claims Grant Program (discontinued)
SRL	Severe Repetitive Loss Grant Program (discontinued)

Timeline:

Short	1 to 5 years
Long Term	5 years or greater
OG	On-going program
DOF	Depending on funding

Costs:

Where actual project costs have been reasonably estimated:

Low	< \$10,000
Medium	\$10,000 to \$100,000
High	> \$100,000

Where actual project costs cannot reasonably be established at this time:

Low	Possible to fund under existing budget. Project is part of, or can be part of, an existing ongoing program.
Medium	Could budget for under existing work plan, but would require a reapportionment of the budget or a budget amendment, or cost of the project would have to be spread over multiple years.
High	Would require an increase in revenue via an alternative source (i.e., bonds, grants, fee increases) to implement. Existing funding levels are not adequate to cover costs of the proposed project.

Benefits:

Where possible, an estimate of project benefits (per FEMA's benefit calculation methodology) has been evaluated against the project costs, and is presented as:

Low	< \$10,000
Medium	\$10,000 to \$100,000
High	> \$100,000

Where numerical project benefits cannot reasonably be established at this time:

Low	Long-term benefits of the project are difficult to quantify in the short term.
Medium	Project will have a long-term impact on reduction of risk exposure to life and property, or project will provide an immediate reduction in risk exposure to property.
High	Project will have an immediate impact on reduction of risk exposure to life and property.

Mitigation Category:

- Local Plans and Regulations (LPR) – Actions that include government authorities, policies, or codes that influence the way land and buildings are developed and built.
- Structure and Infrastructure Project (SIP) – Actions that involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures, as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce impacts of hazards.
- Natural Systems Protection (NSP) – Actions that minimize damage and losses, and also preserve or restore the functions of natural systems.
- Education and Awareness Programs (EAP) – Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities

CRS Category:

- Preventative Measures (PR) – Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and stormwater management regulations.





- *Property Protection (PP) – Actions include public activities to reduce hazard losses or actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.*
- *Public Information (PI) – Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. Such actions include outreach projects, real estate disclosure, hazard information centers, and educational programs for school-age children and adults.*
- *Natural Resource Protection (NR) – Actions that minimize hazard loss and also preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.*
- *Structural Flood Control Projects (SP) – Actions that involve construction of structures to reduce impacts of a hazard. Such structures include dams, setback levees, floodwalls, retaining walls, and safe rooms.*
- *Emergency Services (ES) – Actions that protect people and property during and immediately following a disaster or hazard event. Services include warning systems, emergency response services, and protection of essential facilities*



Table 9.24-13. Summary of Prioritization of Actions

Mitigation Action / Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
CRC-1	Evaluate the flood vulnerability of the City Public Safety Building and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.	1	1	1	0	1	1	0	1	1	1	0	1	0	1	10	High
CRC-2	Develop a strategy to reduce the time necessary to clear streets (rights-of-way) of debris (Ice-ES-1)	1	0	1	1	1	1	1	0	0	1	1	1	1	1	11	High
CRC-3	Periodically review restoration priorities and route efficiencies (Ice-ES-2)	1	0	1	1	1	1	1	0	0	1	1	1	1	1	11	High
CRC-4	Expand generator coverage at the Public Safety Building based on results of consultant to study. City will be hiring a consultant to study expanding the generator coverage. (Ice-PP-1/Ice-SP-1)	1	0	0	1	1	1	-1	0	0	1	1	1	1	0	8	High
CRC-5	Follow up on funding sources to accomplish the security enhancement recommendations made to harden the facilities and improve site security plans. The committee will explore future funding sources (CIP and grants) to accomplish security enhancements. (Terr-PR-2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	High
CRC-6	RPD Security Committee will explore funding sources (CIP and grants) to implement security enhancements based on threat assessments of City critical facilities and public	1	1	0	1	1	1	-1	0	0	1	1	0	1	0	7	Medium





Table 9.24-13. Summary of Prioritization of Actions

Mitigation Action / Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
	facilities.																
CRC-7	Conduct education and outreach to residents and business owners to inform them if their properties are in known hazard areas, and actions they can take to protect their properties.	1	1	1	1	1	1	1	0	1	-1	1	1	1	1	11	High
CRC-8	Evaluate the flood vulnerability of the Rochester Fire Department Stations and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.	1	1	1	0	1	1	0	1	1	1	0	1	0	1	10	High
CRC-9	Contact the US Coast Guard to assist in evaluating the flood vulnerability of the USCG Station and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.	1	1	1	0	1	1	0	1	1	1	0	1	0	1	10	High

Note: Refer to Section 6, which conveys guidance on prioritizing mitigation actions. Mitigation actions carried forward from prior strategies have either retained their prioritization (shown by “-” within updated prioritization criteria), or have been re-prioritized at the discretion of the jurisdiction if it believes re-evaluation is appropriate due to changed conditions since the original prioritization.





9.24.7 Future Needs To Better Understand Risk/Vulnerability

None at this time.

9.24.8 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the City of Rochester that illustrate areas probably to be impacted within the municipality (see Figures 9.24-1 and 9.24-2 below). These maps are based on the best available data at the time of preparation of this Plan, and are considered adequate for planning purposes. Maps have been generated only for those hazards (i.e., landslide, wildfire, and flooding) that can be clearly identified via application of mapping techniques and technologies, and to which the City of Rochester has significant exposure. These maps also appear in the hazard profiles within Section 5.4, Volume I of this Plan.

9.24.9 Additional Comments

None at this time.



Figure 9.24-1. City of Rochester Landslide and Wildfire Hazard Area Extent and Location Map

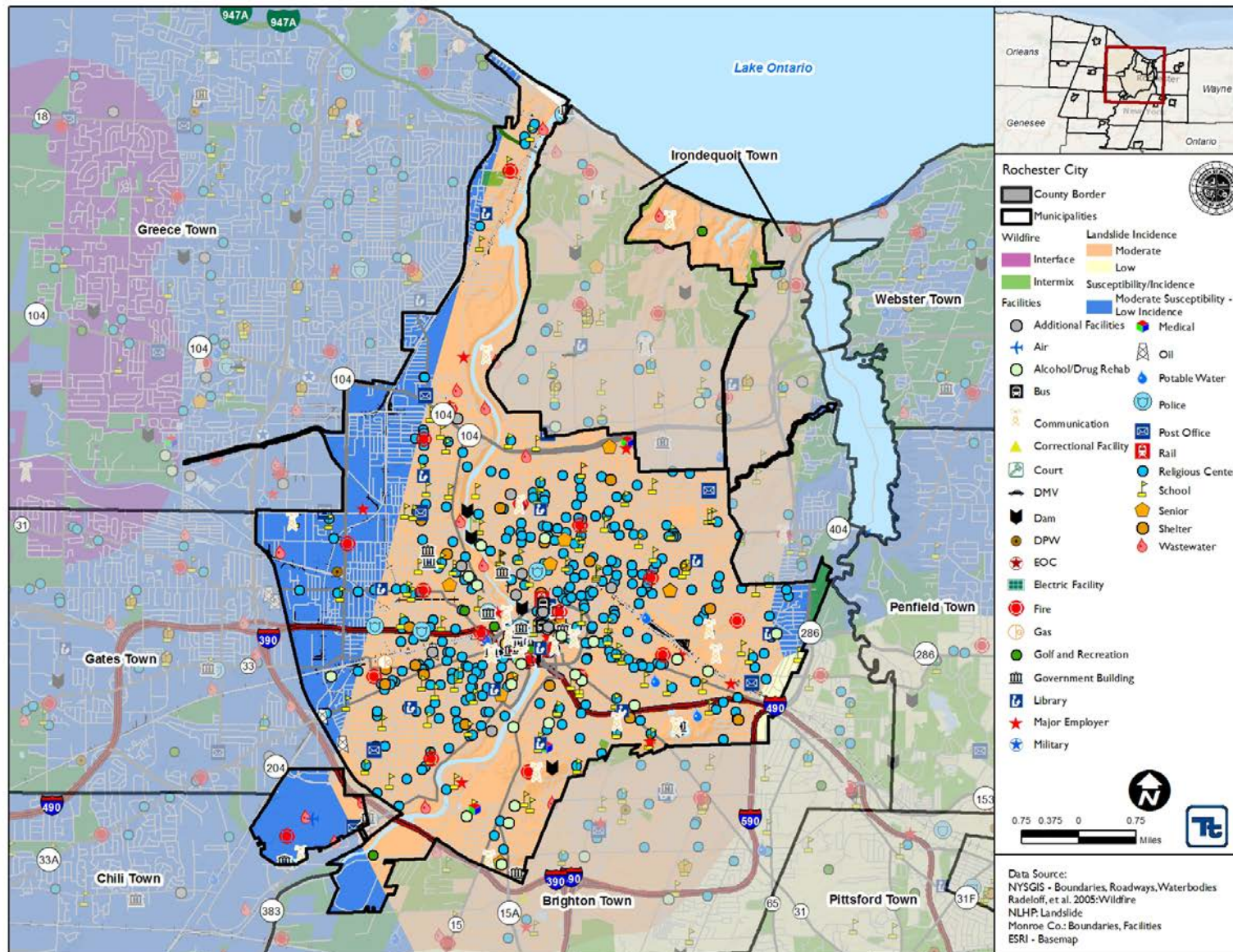
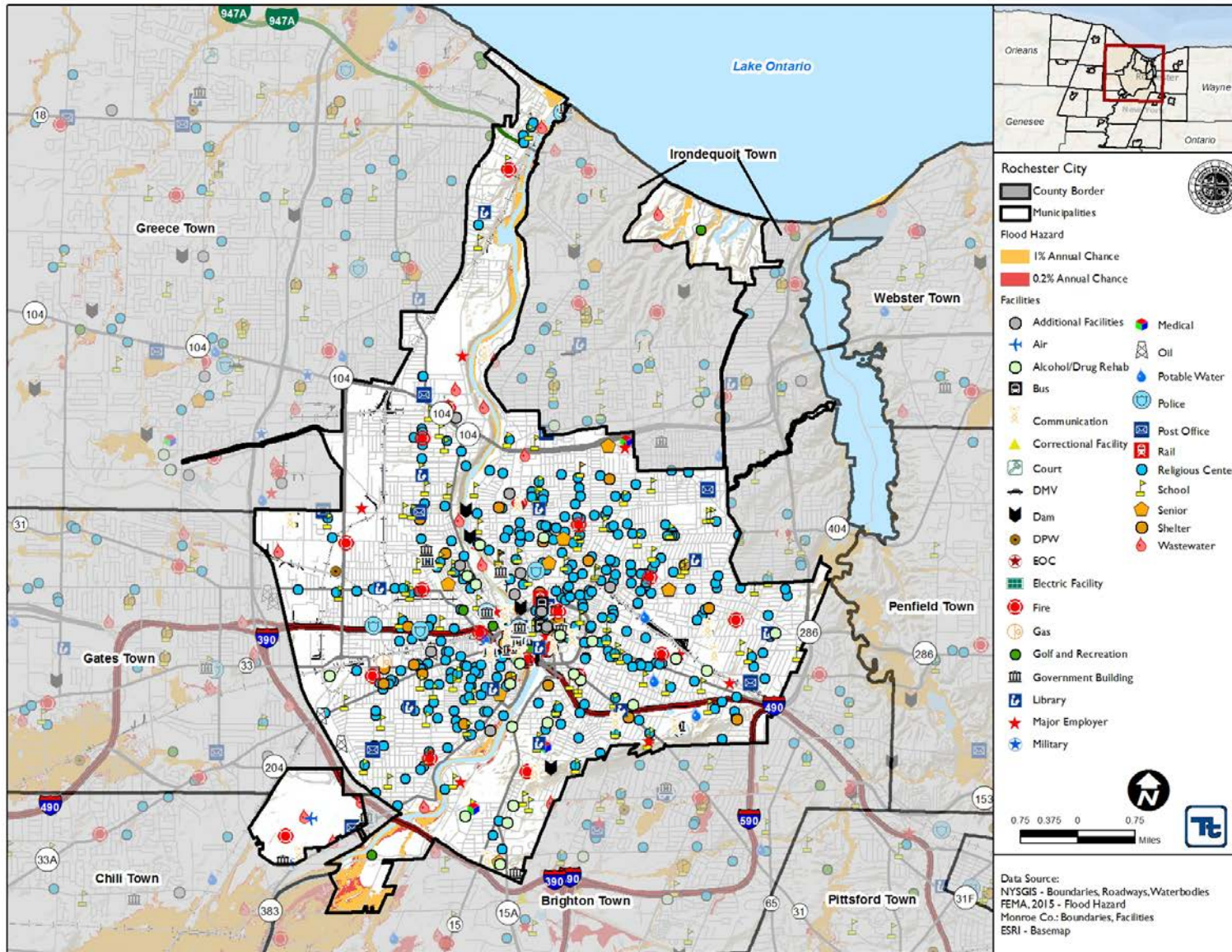




Figure 9.24-2. City of Rochester Hazard Area 1% and 0.2% Floodplain Map





Name of Jurisdiction: City of Rochester

Name and Title Completing Worksheet:

Action Number: CRC-1

Mitigation Action Name: Evaluate the flood vulnerability of the City Public Safety Building and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.

Assessing the Risk	
Hazard(s) addressed:	Flooding
Specific problem being mitigated:	The City Public Safety Building is located in the floodplain and is subject to flood damages.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<ol style="list-style-type: none"> 1. Do nothing (does not reduce flood loss) 2. Construct flood control structure to prevent flood losses (cost prohibitive) 3. Relocate structure (cost prohibitive)
Action/Project Intended for Implementation	
Description of Selected Action/Project	Evaluate the flood vulnerability of the City Public Safety Building and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.
Mitigation Action Type	SIP
Goals Met	1, 3
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	High (avoid/minimize flood losses)
Estimated Cost	Low
Priority*	High
Plan for Implementation	
Responsible Organization	Floodplain Administrator; Engineer
Local Planning Mechanism	Normal operations
Potential Funding Sources	General fund (staff time)
Timeline for Completion	1 year
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:



Action Number:

CRC-1

Mitigation Action Name:

Evaluate the flood vulnerability of the City Public Safety Building and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	
Technical	0	
Political	1	
Legal	1	
Fiscal	0	
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	0	
Timeline	1	
Agency Champion	0	
Other Community Objectives	1	
Total	10	
Priority	High	



Name of Jurisdiction: City of Rochester, Monroe County NY
Name and Title Completing Worksheet: Deputy Chief Felipe Hernandez Jr.
Action Number: CRC-4
Mitigation Action Name: Expanding generator coverage at Public Safety Building

Assessing the Risk	
Hazard(s) addressed:	Utility Failure, All Hazards (that could lead to power failure)
Specific problem being mitigated:	Need to power the entire building during a power failure. The current generator powers only portions of the building, and the heating/cooling loop system is not powered by the generator.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	Adding power to the heating/cooling system's various pumps and motors by the generator; however, just adding the necessary circulation equipment would almost max out generator capacity. This would also leave no space for future additions or expansions.
Action/Project Intended for Implementation	
Description of Selected Action/Project	Put together a request for proposal (RFP) to hire a consultant to study expansion of generator coverage.
Mitigation Action Type	Structural and Infrastructure Project (SIP), Local Plans and Regulations (LPR)
Goals Met	2, 3
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	Ability to maintain electrical power and heating/cooling systems during a power failure would allow RPD and RFD to maintain their administrative and command operation during a disaster/crisis (including our command center on the 6 th floor)
Estimated Cost	An estimate range for the project is at least \$1,000,000.
Priority*	High
Plan for Implementation	
Responsible Organization	City of Rochester Architectural Services
Local Planning Mechanism	City of Rochester Architectural Services
Potential Funding Sources	CIP Funding
Timeline for Completion	1 – 5 years
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:



Action Number:

CRC-4

Mitigation Action Name:

Expanding generator coverage at Public Safety Building

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Will help maintain continuity of operations for both police and fire during a disaster/crisis.
Property Protection	1	Maintain heating, venting, and air conditioning (HVAC) systems (protect computer room systems) and fire suppression system pumps.
Cost-Effectiveness	0	Benefit of maintaining continuity during a disaster/crisis should outweigh cost.
Technical	1	The action is technically feasible and would be a long-term solution.
Political	1	Maintaining public safety and continuity of operations should be politically acceptable.
Legal	1	The jurisdiction has authority to update the generator system.
Fiscal	-1	The project would need a CIP request and approval.
Environmental	0	This would have no environmental impact.
Social	0	This would not affect any segments of the population or disrupt neighborhood operations/functions.
Administrative	1	City of Rochester would be able to implement and maintain the action.
Multi-Hazard	1	Multiple hazards that may result in power failure would be covered.
Timeline	1	Can be completed within 5 years.
Agency Champion	1	Rochester Fire Chief and Police Chief, and City Emergency Manager
Other Community Objectives	0	
Total	8	
Priority (High, Med., or Low)	High	



Name of Jurisdiction:	City of Rochester, Monroe County NY
Name and Title Completing Worksheet:	Sgt. John Mustico
Action Number:	CRC-6
Mitigation Action Name:	Rochester Police Facility Security Enhancements

Assessing the Risk	
Hazard(s) addressed:	Threat to Police Facilities posed by: <ul style="list-style-type: none"> • Civil unrest • Terrorism • Intentional criminal act • Power outage
Specific problem being mitigated:	On January 12, 2015, Chief Ciminelli directed formation of a security committee to conduct a department-wide security review for the purpose of developing and evaluating risk management strategies and measures related to safety and security of RPD personnel and its facilities.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<p>In 2015, RPD formed a Security Committee, performed detailed threat assessments, and reviewed emergency plans at the public facilities listed below.</p> <p>Based on information acquired during the vulnerability threat assessment, each facility was evaluated and placed in one of four rankings, and then prioritized within its ranking.</p> <p>Numerous recommendations were offered to harden facilities and improve site security plans. The committee will explore future funding sources (CIP and grants) to accomplish security enhancements.</p> <p>Level I (Most Critical Facility)</p> <ul style="list-style-type: none"> • City of Rochester Public Safety Building Recommendations: <ol style="list-style-type: none"> 1. Front Desk – ballistic material enhancements (Under review) 2. FACIT office hardening – (Under review) 3. Upgrade of panic alarms in secured areas – (Under review) 4. Additional north exterior surveillance camera – \$6,000 (Completed) <p>Level II</p> <ul style="list-style-type: none"> • East Division Recommendations: <ol style="list-style-type: none"> 1. Increase surveillance coverage (Under review) 2. Install bullet-resistant film to glass (Under review) • West Division Recommendations: <ol style="list-style-type: none"> 1. Enhance access control and alarms to the 3rd floor (Under review) 2. Increase surveillance cameras to West Doors and Office (Under review)



	<ul style="list-style-type: none"> 3. Install backup generator (Under review) • Central Section Recommendations: <ol style="list-style-type: none"> 1. Install speaker system at front desk (Under review) 2. Install new locks and control ownership (Under review with landlord) 3. Integrate Sibley Building/garage security cameras (Under review – quote obtained) • Special Operations Section Recommendations: <ol style="list-style-type: none"> 1. Install additional parking lot surveillance cameras (Under review) 2. Install fencing around parking lot (Under review) 3. Install secondary interior door and access control outside DWI Processing Room (Under review) <p>Level III</p> <ul style="list-style-type: none"> • Mt. Read Facility (Police Special Teams Storage Facilities) Level I and II recommendations take priority at this time. • Firearms Range (PSTF) Level I and II recommendations take priority at this time. <p>Level IV</p> <ul style="list-style-type: none"> • Neighborhood Service Center Offices (x4) Level I and II recommendations take priority at this time. • Police Auto Impound Level I and II recommendations take priority at this time. • Professional Standards Section Level I and II recommendations take priority at this time. • Animal Control/Mounted Barn Level I and II recommendations take priority at this time.
Action/Project Intended for Implementation	
Description of Selected Action/Project	<p>Security enhancement recommendations for each facility are under evaluation based on:</p> <ol style="list-style-type: none"> 1. Facility Vulnerability Rating (Level I- IV) 2. Facility Priority Ranking 3. Cost of recommendation <p>Final security enhancements will be prioritized and implemented as funds become available. (CIP/grants)</p>
Mitigation Action Type	Structural and Infrastructure Project (SIP)
Goals Met	Some recommendations have been implemented; however, most are in process, which involves acquisition of quotes, work orders, and determination of priorities.
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	<p>Public Safety Facilities are vital to performance of essential functions by Law Enforcement to meet its primary mission during any number of wide-ranging emergencies and/or major disruptions to normal agency functions.</p> <p>Facility security enhancements lessen risk to police personnel and increase likelihood of Continuity of Operations during a wide range of emergencies.</p>
Estimated Cost	High = > \$100,000



Priority*	Medium
Plan for Implementation	
Responsible Organization	RPD
Local Planning Mechanism	City of Rochester & RPD
Potential Funding Sources	CIP funding, potential grant funding
Timeline for Completion	1-5 Years, DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: February 11, 2016 Progress on Action/Project:



Action Number:

CRC-6

Mitigation Action Name:

Rochester Police Facility Security Enhancements

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Facility security enhancements lessen risk to police personnel and increase likelihood of Continuity of Operations during a wide range of emergencies.
Property Protection	1	Facility security enhancements increase likelihood of Continuity of Operations during a wide range of emergencies.
Cost-Effectiveness	0	Costs of numerous security enhancements can vary greatly. A safe estimate of total cost would be in the range of \$100,000 to \$200,000.
Technical	1	RPD has invested approximately \$300,000 of CIP and grant funds in camera and access control upgrades since 2013. We have the infrastructure necessary for additional enhancements.
Political	1	Public Safety and Government Continuity of Operations during a wide range of emergencies are top priorities.
Legal	1	The Jurisdiction has the legal authority to enhance site security.
Fiscal	-1	It is unclear if sufficient CIP funds are available to implement all recommendations. Additional grant funding sources will be explored as well.
Environmental	0	The proposed security upgrades would have no environmental impact. DES would be involved in any changes to structures (fencing, ballistic panels/glass).
Social	0	Enhanced security would not have a social impact on the community.
Administrative	1	RPD can coordinate any necessary project management in cooperation with other departments (DES, Information Technology [IT])
Multi-Hazard	1	Recommended improvements (standby generators) address both intentional and natural emergency events.
Timeline	0	It is unclear if sufficient CIP or grant funds are available to implement all recommendations within a 5-year period.
Agency Champion	1	RPD Security Committee
Other Community Objectives	0	
Total	7	
Priority (High, Med., or Low)	Medium	



Name of Jurisdiction: City of Rochester

Name and Title Completing Worksheet:

Action Number: CRC-8

Mitigation Action Name: Evaluate the flood vulnerability of the Rochester Fire Department Stations and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.

Assessing the Risk	
Hazard(s) addressed:	Flooding
Specific problem being mitigated:	The Rochester Fire Department facility is located in the floodplain and is subject to flood damages.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<ol style="list-style-type: none"> 1. Do nothing (does not reduce flood loss) 2. Construct flood control structure to prevent flood losses (cost prohibitive) 3. Relocate structure (cost prohibitive)
Action/Project Intended for Implementation	
Description of Selected Action/Project	Evaluate the flood vulnerability of the Rochester Fire Department Stations and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.
Mitigation Action Type	SIP
Goals Met	1, 3
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	High (avoid/minimize flood losses)
Estimated Cost	Low
Priority*	High
Plan for Implementation	
Responsible Organization	Floodplain Administrator; Engineer
Local Planning Mechanism	Normal operations
Potential Funding Sources	General fund (staff time)
Timeline for Completion	1 year
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:



Action Number:

CRC-8

Mitigation Action Name:

Evaluate the flood vulnerability of the Rochester Fire Department Stations and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	
Technical	0	
Political	1	
Legal	1	
Fiscal	0	
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	0	
Timeline	1	
Agency Champion	0	
Other Community Objectives	1	
Total	10	
Priority	High	



Name of Jurisdiction: City of Rochester

Name and Title Completing Worksheet:

Action Number: CRC-9

Mitigation Action Name: Contact the US Coast Guard to assist in evaluating the flood vulnerability of the USCG Station and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.

Assessing the Risk	
Hazard(s) addressed:	Flooding
Specific problem being mitigated:	The US Coast Guard Station is located in the floodplain and is subject to flood damages.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<ol style="list-style-type: none"> 1. Do nothing (does not reduce flood loss) 2. Construct flood control structure to prevent flood losses (cost prohibitive) 3. Relocate structure (cost prohibitive)
Action/Project Intended for Implementation	
Description of Selected Action/Project	Contact the US Coast Guard to assist in evaluating the flood vulnerability of the USCG Station and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.
Mitigation Action Type	SIP
Goals Met	1, 3
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	High (avoid/minimize flood losses)
Estimated Cost	Low
Priority*	High
Plan for Implementation	
Responsible Organization	Floodplain Administrator; Engineer
Local Planning Mechanism	Normal operations
Potential Funding Sources	General fund (staff time)
Timeline for Completion	1 year
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:



Action Number:

CRC-9

Mitigation Action Name:

Contact the US Coast Guard to assist in evaluating the flood vulnerability of the USCG Station and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	
Technical	0	
Political	1	
Legal	1	
Fiscal	0	
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	0	
Timeline	1	
Agency Champion	0	
Other Community Objectives	1	
Total	10	
Priority	High	