



## 9.6 Town of Clarkson

This section presents the jurisdictional annex for the Town of Clarkson that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Town participated in the planning process, an assessment of the Town of Clarkson's risk and vulnerability, the different capabilities used in the Town, and an action plan that will be implemented to achieve a more resilient community.

### 9.6.1 Hazard Mitigation Planning Team

The Town of Clarkson identified the hazard mitigation plan primary and alternate points of contact and developed this plan over the course of several months with input from many Town departments, including the Building Department. The Building Inspector/CEO represented the community on the Monroe County Hazard Mitigation Plan Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality's planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.6-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: Kevin Moore, Building Inspector/CEO Address: 3710 Lake Road PO Box 858 Clarkson, NY 14430 Phone Number: 585-637-1145 Email: kevin.moore@clarksonny.org	Name/Title: Christa Filipowicz, Supervisor Address: 3710 Lake Road PO Box 858 Clarkson NY 14430 Phone Number: 585-637-1131 Email: supervisor@clarksonny.org
NFIP Floodplain Administrator	
Name/Title: Kevin Moore, Building Inspector/CEO Address: 3710 Lake Road PO Box 858 Clarkson, NY 14430 Phone Number: 585-637-1145 Email: kevin.moore@clarksonny.org	
Additional Contributors	
Name/Title: Kevin Moore, Building Inspector/CEO Method of Participation: Provided data and information, contributed to mitigation strategy	

### 9.6.2 Municipal Profile

The Town of Clarkson is in the northwestern quadrant of Monroe County, bordered north by the Town of Hamlin, east by the Town of Parma, south by the Town of Sweden, and west by New York State Route 272 with Orleans County beyond. New York State Route 104, or Ridge Road, is an east-west highway cutting through the Town.

The Town of Clarkson was established in 1819 from the Town of Murray and was reduced in 1852 when it split to form the Town of Union/Hamlin. Clarkson encompasses 33.2 square miles of land and 0.1 square mile of water. Waterways in the Town include Moorman Creek and Otis Creek, which flows northeast through the Town.



The incorporated Village of Brockport falls partially within the Town, and the hamlets of Clarkson Corners, Garland, Morton, and Redman Corners are all within the Town boundaries.

According to the U.S. Census, the 2020 population for the Town of Clarkson was 6,904, a 4.8 percent increase from the 2010 Census (6,588). Data from the 2020 American Community Survey 5-year Estimates indicate that 5.5 percent of the population is 5 years of age or younger, 19 percent is 65 years of age or older, 13.8 percent have disabilities, and 11.3 percent are below the poverty threshold. 0.5 percent of households are non-English speaking. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

### 9.6.3 Jurisdictional Capability Assessment and Integration

The Town of Clarkson performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1, Section 6 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment includes the following analyses:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.
- The community's adaptive capacity to withstand hazard events.

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 the hazard mitigation analysis, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. The updated mitigation strategy provided an opportunity for the Town of Clarkson to identify opportunities for integration of mitigation concepts that can be incorporated into municipal procedures.

#### Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Town of Clarkson. The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.

Table 9.6-2. Planning, Legal, and Regulatory Capability and Integration

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
<b>Building Code</b>	Yes	Chapter 52 Construction Codes, Uniform	State and Local	Code Enforcement Officer
<i>How does this reduce risk?</i> The building codes are strictly enforced to prepare new and renovated buildings as well as possible for hazard-related incidents. The Town complies with New York State Uniform Fire Prevention and Building Code (the Uniform Code).				
<b>Zoning/Land Use Code</b>	Yes	Chapter 140 Zoning	Local	Planning Board
<i>How does this reduce risk?</i>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<p>This chapter has been adopted to regulate and restrict the height, number of stories and size of buildings and other structures, the percentage of lots that may be occupied, the size of yards, courts and other open space, the density of population and the location and use of buildings, structures and land for trade, industry, residence or other purposes and to establish penalties for the violation of such regulations. The regulations contained in this chapter have been made in accordance with a well-considered Comprehensive Plan for the development of the Town of Clarkson and are designed to lessen congestion in the streets; to secure safety from fire, flood, panic and other dangers; to promote health and general welfare; to provide adequate light and air; to prevent the overcrowding of land; to avoid undue concentration of population; and to facilitate the adequate provision of transportation, water, sewerage, schools, parks and other public requirements. These regulations have been made with reasonable consideration, among other things, as to the character of each district and its peculiar suitability for particular uses and with a view to conserving and stabilizing the value of land and buildings and encouraging the most appropriate use of land throughout the Town.</p>				
<b>Subdivision Ordinance</b>	Yes	Chapter 116 Subdivision and Development of Land	Local	Planning Board
<p><i>How does this reduce risk?</i></p> <p>This chapter is enacted for the purpose of providing for the future growth and development of the Town and affording adequate facilities for the housing, transportation, distribution, comfort, convenience, safety, health and welfare of its population. By this chapter, the Planning Board is empowered to approve site plans and preliminary and final plats of subdivisions showing lots, blocks or sites, with or without streets or highways, within that part of the Town outside the limits of any incorporated village.</p>				
<b>Site Plan Ordinance</b>	Yes	Contained in zoning and other requirements. Described in Design Criteria and Construction Specifications for Land Development, 2003	Local and County	Planning Board
<p><i>How does this reduce risk?</i></p> <p>The Town developed this instructional guide to help control development of property within the Town of Clarkson, and to ensure proper design and construction of facilities. The Town considers the importance of hazard risks in its design criteria, with focuses on stormwater management, sediment and erosion control, and flood hazard prevention.</p>				
<b>Stormwater Management Ordinance</b>	Yes	Chapter 110 Stormwater Management; Chapter 109 Storm Sewers	Local	Building Inspector, Code Enforcement Officer, Highway Superintendent
<p><i>How does this reduce risk?</i></p> <p>The purpose of Chapter 110 Stormwater Management Article I Construction Stormwater Pollution Prevention and Erosion and Sediment Control is to safeguard public health, protect property, prevent damage to the environment and promote the public welfare by guiding, regulating, and controlling the design, construction, use, and maintenance of any development or other activity which disturbs or breaks the topsoil or results in the movement of earth on land in the Town of Clarkson. It seeks to meet those purposes by achieving the following objectives:</p> <ul style="list-style-type: none"> <li>(1) Meet the requirements of minimum measures 4 and 5 of the SPDES General Permit for Stormwater Discharges from Municipal Separate Stormwater Sewer Systems (MS4s), Permit No. GP-02-02 or as amended or revised;</li> <li>(2) Require Land Disturbance Activities to conform to the substantive requirements of the NYS Department of Environmental Conservation State Pollutant Discharge Elimination System (SPDES) General Permit for Construction Activities or as amended or revised;</li> <li>(3) Minimize increases in Stormwater Runoff from Land Disturbance Activities in order to reduce flooding, siltation, increases in stream temperature, and streambank erosion and maintain the integrity of stream channels;</li> <li>(4) Minimize increases in pollution caused by Stormwater Runoff from Land Disturbance Activities which would otherwise degrade local water quality;</li> <li>(5) Minimize the total annual volume of Stormwater Runoff which flows from any specific Site during and following development to the maximum extent practicable; and</li> <li>(6) Reduce Stormwater Runoff rates and volumes, soil erosion and nonpoint source pollution, wherever possible, through Stormwater Management practices and to ensure that these management practices are properly maintained and eliminate threats to public safety.</li> </ul> <p>The purpose of Chapter 110 Stormwater Management Article II Postconstruction Stormwater Pollution Prevention is to establish minimum stormwater management requirements and controls to protect and safeguard the general health, safety, and welfare of the public residing in the watersheds within the Town of Clarkson. Therefore, the Town of Clarkson establishes this set of water quality and quantity policies to provide reasonable guidance for the regulation of Stormwater Runoff and to, in addition to the above, safeguard persons, protect property, prevent damage to the environment in the Town of Clarkson, and comply with the NYSDEC State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Municipal Separate Storm Sewer systems (MS4s), for the purpose of protecting local water resources from degradation. It is determined that the regulation of Stormwater Runoff discharges from land development projects and other</p>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
construction activities in order to control and minimize increases in Stormwater Runoff rates and volumes, soil erosion, stream Channel erosion, and nonpoint source pollution associated with Stormwater Runoff is in the public interest and will prevent threats to public health and safety.				
The purpose and intent of Chapter 109 Storm Sewers is to ensure the health, safety and general welfare of citizens, and protect and enhance the water quality of Watercourses and water bodies in a manner pursuant to and consistent with the Federal Clean Water Act (33 U.S.C. § 1251 et seq.) by reducing Pollutants in Stormwater discharges to the maximum extent practicable; prohibiting Nonstormwater Discharges to the storm drain system; and prohibiting Stormwater discharges to Sanitary Sewers.				
<b>Post-Disaster Recovery/ Reconstruction Ordinance</b>	No	-	-	-
<i>How does this reduce risk?</i>				
<b>Real Estate Disclosure</b>	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<i>How does this reduce risk?</i> In addition to facing potential liability for failing to disclose under the exceptions to “caveat emptor,” a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.				
<b>Growth Management</b>	Yes	See Chapter 116 Subdivision of Land	Local	Planning Board
<i>How does this reduce risk?</i>				
<b>Environmental Protection Ordinance</b>	Yes	Chapter 79 Freshwater Wetlands	Local	
<i>How does this reduce risk?</i> The chapter is adopted to aid in the preserving, protecting and conserving freshwater wetlands and the benefits derived therefrom, to prevent the despoliation and destruction of freshwater wetlands and to regulate the use and development of such wetlands consistent with the general welfare and beneficial economic, social and agricultural development of the Town.				
<b>Flood Damage Prevention Ordinance</b>	Yes	Chapter 76 Flood Damage Prevention	Federal, State, County and Local	Building Inspector
<i>How does this reduce risk?</i> It is the purpose of this chapter to promote the public health, safety and general welfare and to minimize public and private losses due to flood conditions in specific areas by provisions designed to: A. Regulate uses which are dangerous to health, safety and property due to water or erosion hazards or which result in damaging increases in erosion or in flood heights or velocities. B. Require that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction. C. Control the alteration of natural floodplains, stream channels and natural protective barriers which are involved in the accommodation of floodwaters. D. Control filling, grading, dredging and other development which may increase erosion or flood damages. E. Regulate the construction of flood barriers which will unnaturally divert floodwaters or which may increase flood hazards to other lands. F. Qualify for and maintain participation in the National Flood Insurance Program. The chapter requires new structures to have lowest floors at an elevation of 2 feet above the base flood elevation.				
<b>Wellhead Protection</b>	No	-	-	-
<i>How does this reduce risk?</i>				
<b>Emergency Management Ordinance</b>	No	-	-	-
<i>How does this reduce risk?</i>				
<b>Climate Change Ordinance</b>	No	-	-	-
<i>How does this reduce risk?</i>				
<b>Other</b>	No	-	-	-
<i>How does this reduce risk?</i>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Planning Documents</b>				
<b>Comprehensive Plan</b>	Yes	Town of Clarkson 2022 Comprehensive Plan	Local	Code Enforcement Officer
<i>How does this reduce risk?</i> The Comprehensive Plan aims to lay the groundwork for achieving the community's vision. It identifies the community's existing conditions and goals and establishes the Town's policy framework and community development strategies. The planning horizon for this comprehensive planning effort is 10 years, or to the year 2032. However, it is recommended that the Town review the information contained in this document every one to two years in order to ensure that it is still relevant and beneficial prior to 2032. Relevant goals relating to hazard mitigation includes preserving agricultural resources and farmland and supporting sustainable growth and development.				
<b>Capital Improvement Plan</b>	No	-	-	-
<i>How does this reduce risk?</i>				
<b>Disaster Debris Management Plan</b>	No	-	-	-
<i>How does this reduce risk?</i>				
<b>Floodplain Management or Watershed Plan</b>	No	-	-	-
<i>How does this reduce risk?</i>				
<b>Stormwater Management Plan</b>	Yes	Annual Stormwater Joint Annual Report	Local	Monroe County Stormwater Coalition, Code Enforcement Officer and/or Highway Superintendent
<i>How does this reduce risk?</i> As part of the Monroe County Stormwater Coalition, an annual stormwater report is filed to note progress in stormwater issues.				
<b>Open Space Plan</b>	Yes	Urban Forestry Plan, 2010	Local	Conservation Board
<i>How does this reduce risk?</i> The Town of Clarkson received a grant from the NYS Department of Environmental Control (DEC) Urban and Community Forestry Program in 2009 to develop an urban forestry program for the Town. While most of the plan does not consider hazard impact, the Town does note the importance of selecting and maintaining non-exotic trees to prevent infestation from non-native species, as well as potential for pest problems if tree care is not adequately conducted.				
<b>Urban Water Management Plan</b>	No	-	-	-
<i>How does this reduce risk?</i>				
<b>Habitat Conservation Plan</b>	No	-	-	-
<i>How does this reduce risk?</i>				
<b>Economic Development Plan</b>	No	-	-	-
<i>How does this reduce risk?</i>				
<b>Shoreline Management Plan</b>	No	-	-	-
<i>How does this reduce risk?</i>				
<b>Community Wildfire Protection Plan</b>	No	-	-	-
<i>How does this reduce risk?</i>				
<b>Community Forest Management Plan</b>	No	-	-	-
<i>How does this reduce risk?</i>				
<b>Transportation Plan</b>	No	-	-	-
<i>How does this reduce risk?</i>				
<b>Agriculture Plan</b>	No	-	-	-
<i>How does this reduce risk?</i>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Climate Action/ Resiliency/Sustainability Plan</b>	No	-	-	-
<i>How does this reduce risk?</i>				
<b>Tourism Plan</b>	No	-	-	-
<i>How does this reduce risk?</i>				
<b>Business/ Downtown Development Plan</b>	No	-	-	-
<i>How does this reduce risk?</i>				
<b>Other</b>	No	-	-	-
<i>How does this reduce risk?</i>				
<b>Response/Recovery Planning</b>				
<b>Comprehensive Emergency Management Plan</b>	Yes	Comprehensive Emergency Management Plan, March 27, 2000	Local	Town Supervisor
<i>How does this reduce risk?</i> CEMP addresses preparedness, initial action, alerting procedures, mobilization, responsibilities, emergency interim successors, documentation, staffing flow chart, and sop				
<b>Continuity of Operations Plan</b>	No	-	-	-
<i>How does this reduce risk?</i>				
<b>Substantial Damage Response Plan</b>	No	-	-	-
<i>How does this reduce risk?</i>				
<b>Strategic Recovery Planning Report</b>	No	-	-	-
<i>How does this reduce risk?</i>				
<b>Threat &amp; Hazard Identification &amp; Risk Assessment (THIRA)</b>	No	-	-	-
<i>How does this reduce risk?</i>				
<b>Post-Disaster Recovery Plan</b>	No	-	-	-
<i>How does this reduce risk?</i>				
<b>Public Health Plan</b>	No	-	-	-
<i>How does this reduce risk?</i>				
<b>Other</b>	No	-	-	-
<i>How does this reduce risk?</i>				

### Development and Permitting Capability

The table below summarizes the capabilities of the Town of Clarkson to oversee and track development.

**Table 9.6-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?	Yes	-





Indicate if your jurisdiction implements the following	Yes/No	Comment:
• If you issue development permits, what department is responsible?	N/A	Building Department
• If you do not issue development permits, what is your process for tracking new development?	N/A	-
Are permits tracked by hazard area? (For example, floodplain development permits.)	Yes	SFHA
Do you have a buildable land inventory?	No	-
• If you have a buildable land inventory, please describe	N/A	-
Describe the level of build-out in your jurisdiction.	N/A	The Town is at approximately 87% build out

### Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Town of Clarkson and their current responsibilities that contribute to hazard mitigation.

**Table 9.6-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board	Yes	The Planning Board is tasked with site plan review, making determinations on special use permit applications, and performing sub-division reviews. The Town Board may seek recommendations from the Planning Board, and the Planning Board may make recommendations to the Town Board regarding any area in their jurisdiction.
Zoning Board of Adjustment	Yes	The Zoning Board is in charge of deciding Area Variance and Use Variance applications and interpreting the Zoning Code.
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission	Yes	The Clarkson Conservation Board's overall intent is to preserve the town's natural environment and control impacts on the surrounding neighborhood while balancing our Clarkson's need for an economically viable and environmentally sustainable future. It considers environmental issues and factors affecting development for site-plan approvals, open space development, and advises the Planning Board accordingly.
Open Space Board/Committee	Yes	See Conservation Board
Economic Development Commission/Committee	No	-
Public Works/Highway Department	Yes	The Highway Department is responsible for road construction, repairs, and maintenance; mowing town and county roadsides; maintaining all park lands, the Transfer Station, West Clarkson Cemetery; mitigating drainage issues; and maintenance of detention ponds, sanitary storm and sewer line systems; culvert pipe replacement and ditching; dead animal pick-up; and generating revenue for the Town of Clarkson through maintenance and construction contracts with New York State and Monroe County.



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Construction/Building/Code Enforcement Department	Yes	The Town of Clarkson's Building Department is responsible for a number of matters, including: <ul style="list-style-type: none"> <li>Enforcement of the NYS and Town of Clarkson's building and zoning codes.</li> <li>Issuance of building permits</li> <li>Building Inspections</li> <li>Fire Inspections/fire safety concerns</li> <li>Stormwater Management</li> </ul> Applications for Planning Board and Zoning Board of Appeals
Emergency Management/Public Safety Department	No	-
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)	No	-
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	Yes	See Highway Department
Mutual aid agreements	No	-
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-
Other	No	-
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	Yes	Building Department Coordinator; Chatfield Engineers
Engineers or professionals trained in building or infrastructure construction practices	Yes	Town Code Enforcement Officer/Building Inspector
Planners or engineers with an understanding of natural hazards	No	-
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	Yes	Chatfield Engineers and/or Supervisor's Office
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-
Environmental scientist familiar with natural hazards	No	-
Surveyor(s)	No	-
Emergency Manager	Yes	Town Supervisor
Grant writer(s)	Yes	Assistant to the Supervisor
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	No	-

## Fiscal Capability

The table below summarizes financial resources available to the Town of Clarkson.

**Table 9.6-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	Yes





Financial Resources	Accessible or Eligible to Use? (Yes/No)
Capital improvements project funding	Yes
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas or electric service	Yes
Impact fees for homebuyers or developers of new development/homes	Yes
Stormwater utility fee	Yes
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	No
Open Space Acquisition funding programs	No
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	No

### Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Town of Clarkson.

**Table 9.6-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	No	-
Personnel skilled or trained in website development	No	-
Hazard mitigation information available on your website	No	-
Social media for hazard mitigation education and outreach	No	-
Citizen boards or commissions that address issues related to hazard mitigation	Yes	The Architectural Review Board provides regulation and guidance for maintaining the appearance of buildings and signs in Clarkson's Historical Overlay District, for new buildings/signs or modifications of existing buildings/signs.
Warning systems for hazard events	Yes	Clarkson residents can sign up for reverse 911 cell phone notifications of emergency situations through the Monroe County Emergency Communications Department.
Natural disaster/safety programs in place for schools	No	-
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? • If yes, please describe.	No	-

### Community Classifications

The table below summarizes classifications for community programs available to the Town of Clarkson.



Table 9.6-7. Community Classifications

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	No	-	-
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	No	-	-
Storm Ready Certification	No	(Monroe County is StormReady)	-
Firewise Communities classification	No	-	-
Other	No	-	-

Note:

N/A Not applicable

- Unavailable

### Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.

Table 9.6-8. Adaptive Capacity

Hazard	Adaptive Capacity - Strong/Moderate/Weak
Disease Outbreak	Moderate
Drought	Moderate
Earthquake	Moderate
Extreme Temperature	Moderate
Flood	Moderate
Hazardous Materials	Moderate
Infestation and Invasive Species	Weak
Landslide	Moderate
Severe Storm	Strong
Severe Winter Storm	Strong
Wildfire	Moderate

### 9.6.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.

### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Town of Clarkson.



Table 9.6-9. NFIP Summary

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties	# Policies in the 1% Flood Boundary
Town of Clarkson	6	6	\$9,711	0		0	3

Source: FEMA Region 2 2015

Note (1): Policies, claims, repetitive loss, and severe repetitive loss statistics provided by FEMA Region 2, and are current as of June 30, 2015. The total number of repetitive loss properties does not include severe repetitive loss properties. Number of claims represents claims closed by June 30, 2015.

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

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

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

### Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Town of Clarkson.

Table 9.6-10. NFIP Summary

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	No areas of flood concern. No list is kept.
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	No
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	No
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	None
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	None
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	Yes
<b>NFIP Compliance</b>	
What local department is responsible for floodplain management?	Building Department
Are any certified floodplain managers on staff in your jurisdiction?	No
Do you have access to resources to determine possible future flooding conditions from climate change?	No



NFIP Topic	Comments
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"><li>If so, what type of assistance/training is needed?</li></ul>	Yes
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	Town Engineer reviews and Building Inspector inspects projects
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	NYS building code
What are the barriers to running an effective NFIP program in the community, if any?	None at this time
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"><li>If so, state the violations.</li></ul>	No
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	The most recent Community Assistance Visit documented was June 16, 2010 and there was no documented Community Assistance Contact.
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"><li>What is the date that your flood damage prevention ordinance was last amended?</li></ul>	Chapter 76 Flood Damage Prevention
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"><li>If exceeds, in what ways?</li></ul>	Meets minimum requirements
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	Planning and Conservation Board
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	Not at this time

### 9.6.5 Evacuation, Sheltering, Temporary Housing, and Permanent Housing

Evacuation routes, sheltering measures, temporary housing, and permanent housing must be in place and available for public awareness to protect residents, mitigate risk, and relocate residents, if necessary, to maintain post-disaster social and economic stability.

#### Evacuation Routes and Procedures

The Town of Clarkson identified the following routes and procedures to evacuate residents prior to and during an event.

- Evacuation decisions are made through coordination with Monroe County. Sheltering in the Town is run by the American Red Cross.

#### Sheltering

The Town of Clarkson has identified the following designated emergency shelters within the Town.



Table 9.6-11. Designated Emergency Shelters

Site Name	Address	Capacity (# of people)	Accommodates Pets?	ADA Compliant?	Backup Power?	Types of Medical Services Provided	Other Services Provided
Shelter locations from the American Red Cross were not available for this HMP update. The Town does not maintain any shelters.							

### Temporary Housing

Each jurisdiction must identify sites for placement of temporary housing units to house residents displaced by a disaster. The Town of Clarkson has identified the following sites suitable for placing temporary housing units.

Table 9.6-12. Temporary Housing Locations

Site Name	Site Address	Capacity (number of sites)	Type	Infrastructure / Utilities Available (water, electric, septic, etc.)	Actions Required to Ensure Conformance with the NYS Uniform Fire Prevention and Building Code
None identified					

### Permanent Housing

Structures located in the regulatory floodplain might need to be relocated due to high flood risk or new properties must be built once severely damaged properties are demolished. Jurisdictions must identify suitable sites currently owned by the jurisdiction and potential sites under private ownership that meet applicable local zoning requirements and floodplain laws. The Town of Clarkson has identified the following areas suitable for relocating homes outside of the floodplain.

Table 9.6-13. Permanent Housing Locations

Site Name	Site Address	Capacity (number of sites)	Type	Infrastructure / Utilities Available (water, electric, septic)	Actions Required to Ensure Conformance with the NYS Uniform Fire Prevention and Building Code
None identified					

## 9.6.6 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction's overall risk to its hazards of concern. Table 9.6-14 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.



Table 9.6-14. Recent and Expected Future Development

Type of Development	2017		2018		2019		2020		2021		2022	
Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)												
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	5	0	4	0	10	0	16	0	7	0	Final statistics for 2022 were not available for this HMP update.	
Multi-Family	0	0	2	0	0	0	1	0	0	0		
Other (commercial, mixed-use, etc.)	0	0	0	0	2	0	0	0	0	0		
Total New Construction Permits Issued	5	0	6	0	12	0	17	0	7	0		
Property or Development Name	Type of Development		# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*			Description / Status of Development		
Recent Major Development and Infrastructure from 2017 to Present												
None identified												
Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years												
None anticipated												

SFHA Special Flood Hazard Area (1% flood event)

\* Only location-specific hazard zones or vulnerabilities identified.

### 9.6.7 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant's vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Town of Clarkson's risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Maps were generated only for those hazards that can be identified clearly using mapping techniques and technologies and for which the Town of Clarkson has significant exposure. The maps also show the location of potential new development, where available.





Figure 9.6-1. Town of Clarkson Hazard Area Extent and Location Map 1

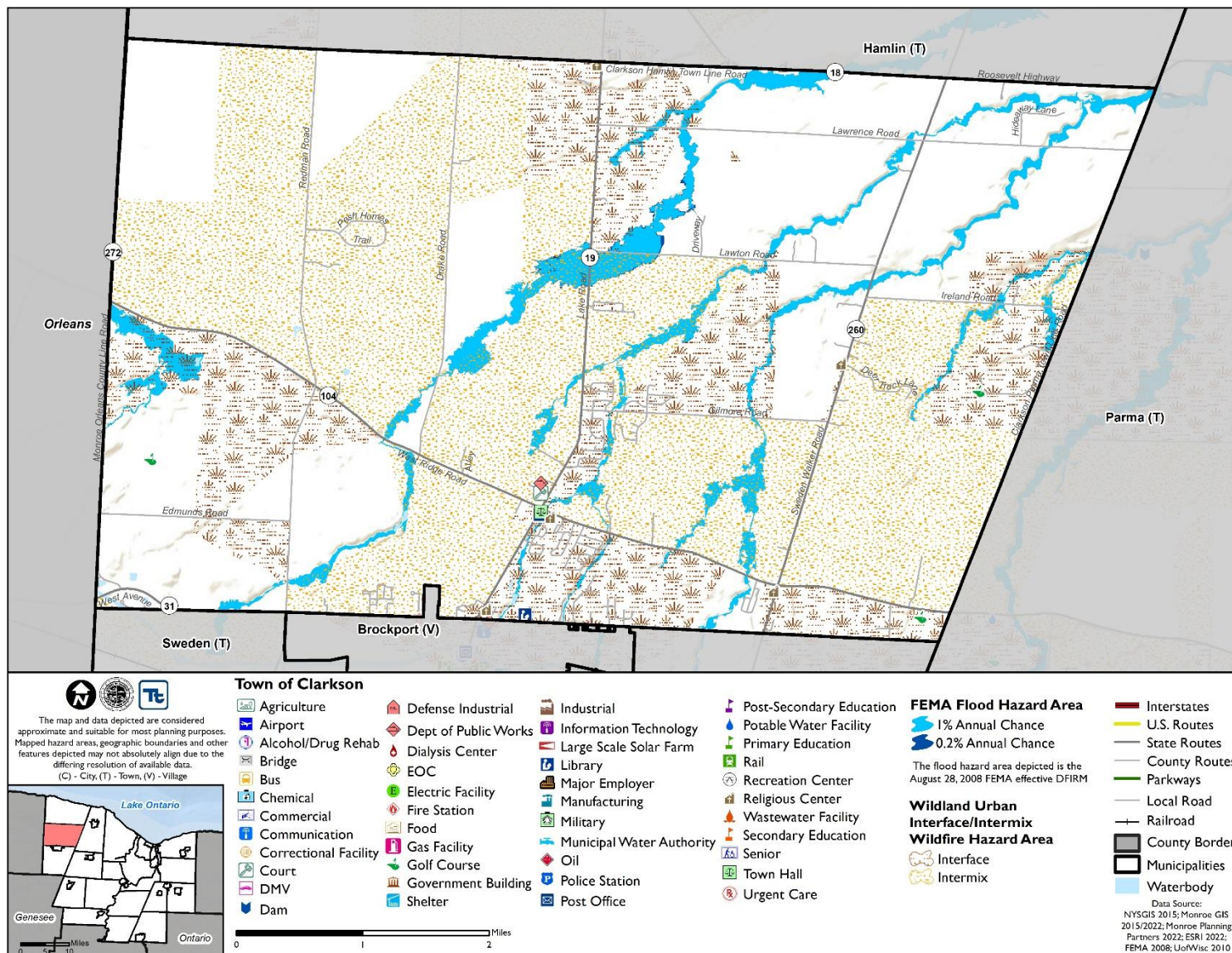
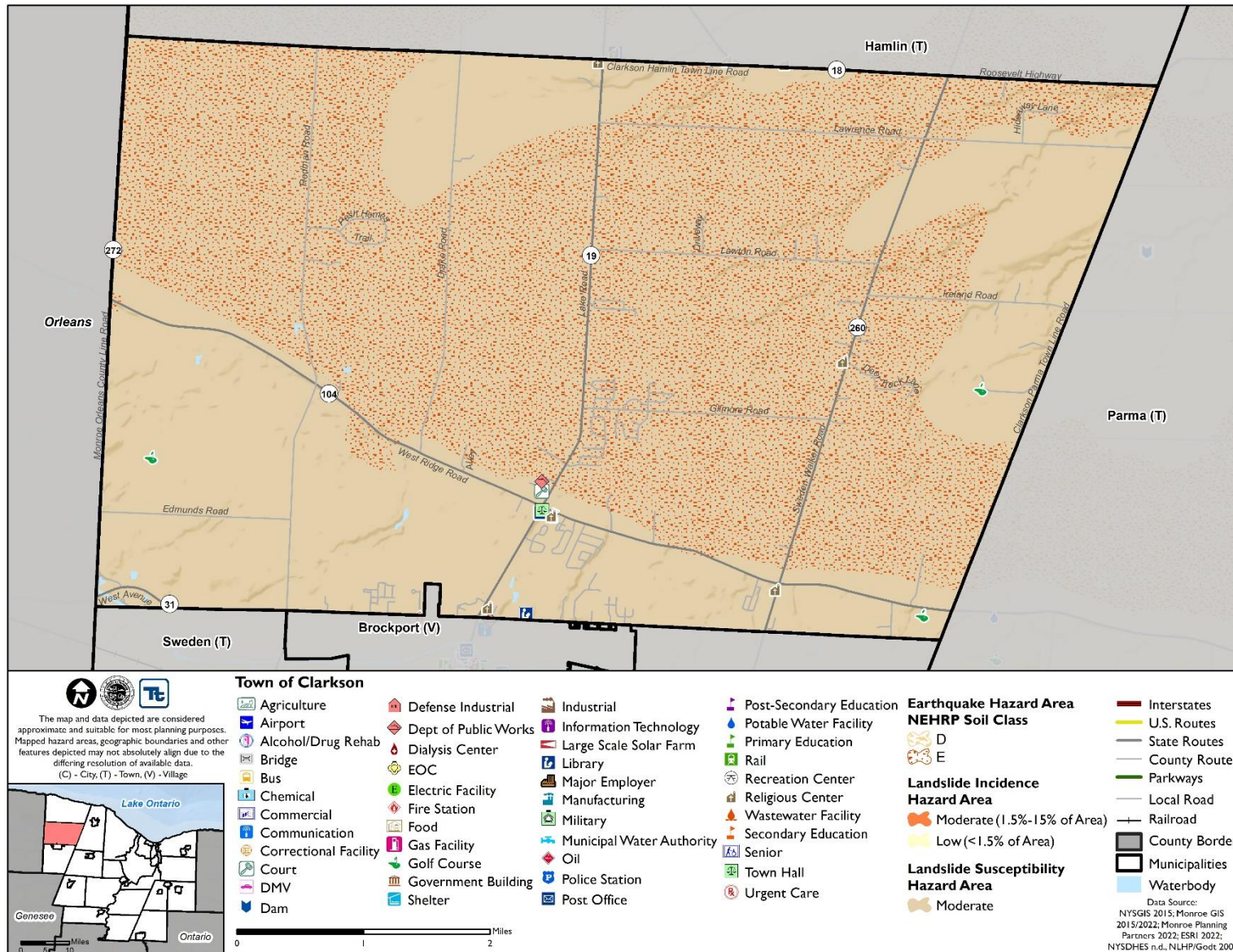






Figure 9.6-2. Town of Clarkson Hazard Area Extent and Location Map 2





## Hazard Event History

Monroe County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Town of Clarkson's history of federally-declared (as presented by FEMA) and significant hazard events [as presented in NOAA-National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.6-15 provides details regarding municipal-specific loss and damages the Town experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.6-15. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
March 8, 2017	High Wind	No	Unusually deep low pressure moved from northwest Ontario across Hudson Bay. The low brought strong winds to the entire region with sustained winds up to 49 mph and wind gusts as high as 81 mph. A significant amount of damage resulted with 100,000 without power in Monroe County alone.	Although the County was impacted, the Town did not report damages.
May 2-August 6, 2017	Flooding (DR-4348)	Yes	During the first six months of 2017, more than twice the normal amount of water accumulated on Lake Ontario. The lake reached a record level of 248.95 feet. Flooding began in early May and continued into early fall.	Although the County was impacted, the Town did not report damages.
May-June 2019	Lakeshore Flood	No	Excessive runoff into the Ottawa River Basin in Canada restricted the outlet of Lake Ontario. This combined with above normal precipitation into the Lake Ontario Basin, record levels on the Great Lakes above Lake Ontario, and higher than normal flows into the lake from the Niagara River pushed the lake to well above normal levels.	Although the County was impacted, the Town did not report damages.
October 31, 2019	High Wind and Flooding	No	A deepening area of consolidated low pressure tracked across the region. This system brought record breaking Halloween rains, damaging wind gusts, and a small Lake Ontario seiche	Although the County was impacted, the Town did not report damages.
January 20, 2020 – Present	Covid-19 Pandemic (EM-3434) (DR-4480)	Yes	Between March 1, 2020 and July 20, 2022, Monroe County reported 171,851 confirmed cases of COVID-19, and 1,660 total fatalities.	The Town was subject to closures and social distancing/masking requirements.

Notes:

EM Emergency Declaration (FEMA)  
 FEMA Federal Emergency Management Agency  
 DR Major Disaster Declaration (FEMA)  
 N/A Not applicable

## Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant's vulnerability to the identified hazards. The following summarizes the Town of Clarkson's risk assessment results and data used to determine the hazard ranking.



## Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each municipality ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Town of Clarkson. The Town of Clarkson reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Town indicated the following:

- The Town of Clarkson agreed with the calculated hazard rankings.

**Table 9.6-16. Hazard Ranking Input**

Disease Outbreak	Drought	Earthquake	Extreme Temperature	Flood	Hazardous Materials
Low	Medium	Low	Medium	Low	Low
Infestation and Invasive Species	Landslide	Severe Storm	Severe Winter Storm	Wildfire	
Low	Low	High	High	Medium	

*Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction*

## Critical Facilities

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2' above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus-MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.



Table 9.6-17. Potential Flood Losses to Critical Facilities

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
None identified					

Source: FEMA 2008; Monroe County GIS 2022

### Identified Issues

After review of the Town of Clarkson's hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Town of Clarkson identified the following vulnerabilities within their community:

- Numerous public facilities in the Town of Clarkson lack permanent backup power including Goodwin Lodge at Hafner Park on Lake Road and sanitary sewer pumps on Darla Drive and Gilmore Road. Critical facilities require backup power to maintain continuity of operations.
- The ability to respond to and recover from disaster events often is based on the access to necessary equipment and supplies.
- The Town can be impacted by hazards that are not as frequent or do not have the same severity of impact. Residents are not always aware of the risks these hazards present.
- Trees on the perimeter of the Highway Department pose a risk to the Department's critical buildings as they can fall or lead to transfer of wildfire, threatening loss of critical services.
- The Covid-19 pandemic has demonstrated the level of impact that disease outbreak events can present. Staff need to be trained on how to respond to future events and supplies must be available to address disease outbreak.
- The Town's floodplain administrator requires additional training.
- While major events that result in substantial damage of structures are rare, municipalities need to have official procedures in place to inspect structures, make determinations, and provide for appeals.
- The stormwater system along Lake Road just south of Ridge is undersized and outdated, resulting in flooding across Route 19.
- The Town of Sweden and Town of Clarkson share a combined Sweden Clarkson Recreation program. The Sweden-Clarkson Recreation Center is located in the Town of Sweden at 4927 Lake Rd S. The facility could be used as an emergency shelter, but it lacks backup power.

### 9.6.8 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.

#### Past Mitigation Initiative Status

The following table indicates progress on the community's mitigation strategy identified in the 2017 HMP. Actions that are in progress are carried forward and combined with new actions as part of this plan update and are included in the tables with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such and previously presented in the 'Capability Assessment' earlier in this annex.





Table 9.6-18. Status of Previous Mitigation Actions

Project #	Project	Hazard(s) Addressed	Brief Summary of the Original Problem	Responsible Party	Status (In Progress, Ongoing, No Progress, Complete)	Evaluation of Success (if project status is complete)		1. Next Steps Project to be included in 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
TCL-1	Stockpile emergency supplies	All Hazards		Highway Department	In Progress	Cost		1. Include in 2023 HMP 2. 3.
						Level of Protection		
						Damages Avoided; Evidence of Success		
TCL-2	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.	Earthquake, Extreme Temperatures, Flood, Infestation, Landslide, Severe Storms, Severe Winter Storms, Wildfire, HazMat, Utility Failure		Town Clerk	In Progress	Cost		1. Include in 2023 HMP 2. Expand outreach efforts. 3.
						Level of Protection		
						Damages Avoided; Evidence of Success		
TCL-3	Install permanent backup power supply at public facilities, specifically to include Goodwin Lodge at Hafner Park on Lake Road in Clarkson and sanitary sewer pumps on Darla Drive and Gilmore Road.	Earthquake, Extreme Temperatures, Flood, Infestation, Landslide, Severe Storms, Severe Winter Storms, Wildfire, HazMat, Utility Failure		Highway Department	In Progress	Cost		1. Include in 2023 HMP 2. 3.
						Level of Protection		
						Damages Avoided; Evidence of Success		
TCL-4	Remove trees on perimeter of Highway Department near buildings to mitigate damage from natural hazards	Earthquake, Extreme Temperatures, Flood, Infestation, Landslide, Severe Storms, Severe Winter Storms, Wildfire,		Highway Department	In Progress	Cost		1. Include in 2023 HMP 2. 3.
						Level of Protection		
						Damages Avoided; Evidence of Success		



Project #	Project	Hazard(s) Addressed	Brief Summary of the Original Problem	Responsible Party	Status (In Progress, Ongoing, No Progress, Complete)	Evaluation of Success (if project status is complete)		1. Next Steps Project to be included in 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
		HazMat, Utility Failure						

DRAFT



### Additional Mitigation Efforts

In addition to the mitigation initiatives completed in Table 9.6-18, the Town of Clarkson identified the following mitigation efforts completed since the last HMP:

- None identified

### Proposed Hazard Mitigation Initiatives for the HMP Update

The Town of Clarkson participated in a mitigation action workshop in October 2022 and was provided the following FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: FEMA 551 ‘Selecting Appropriate Mitigation Measures for Floodprone Structures’ (March 2007) and FEMA ‘Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards’ (January 2013).

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide-range of activities and mitigation measures selected.

**Table 9.6-19. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Disease Outbreak	X	-	-	X	X	X	X	-	-	X
Drought	X	-	-	X	X	X	X	-	-	X
Earthquake	X	-	-	X	X	X	X	-	-	X
Extreme Temperature	X	X	-	X	X	X	X	-	-	X
Flood	X	X	-	X	X	X	X	-	X	X
Hazardous Materials	X	-	-	X	X	X	X	-	-	X
Infestation and Invasive Species	X	-	X	X	X	X	X	X	-	X
Landslide	X	-	-	X	X	X	X		-	X
Severe Storm	X	X	X	X	X	X	X	X	X	X
Severe Winter Storm	X	X	X	X	X	X	X	X	X	X
Wildfire	X	-	X	X	X	X	X	X	-	X

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.6-20).

The table below summarizes the specific mitigation initiatives the Town of Clarkson would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.





Table 9.6-20. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Town of Clarkson-001	Critical Facility Backup Power	3	Extreme Temperature, Severe Storm, Severe Winter Storm	<b>Problem:</b> Numerous public facilities in the Town of Clarkson lack permanent backup power including Goodwin Lodge at Hafner Park on Lake Road and sanitary sewer pumps on Darla Drive and Gilmore Road. Critical facilities require backup power to maintain continuity of operations. <b>Solution:</b> The Town Engineer will determine the size generator needed at each facility. Public Works will oversee installation of permanent fixed site generators and necessary electrical	Yes	None	Within 5 years	Highway Department	High	Protect public health and safety, and ensure continued operation of critical facility and essential functions during power outages.	FEMA HMGP and BRIC, PDM, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Municipal Budget	High	SIP	ES



Table 9.6-20. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				components to supply backup power to each facility. Public Works will be responsible for maintenance and testing of the generators following installation.										
2023-Town of Clarkson -002	Emergency Supply Stockpile	1	All Hazards	<b>Problem:</b> The ability to respond to and recover from disaster events often is based on the access to necessary equipment and supplies. <b>Solution:</b> The Highway Department will stockpile necessary supplies to respond to and recover from disaster events.	Yes	None	3 years	Highway Department	Medium	Increased hazard response and recovery capability	Town budget, HMGP, BRIC, PDM	High	LPR	ES
2023-Town of Clarkson -003	Public Outreach Program	1, 4	All Hazards	<b>Problem:</b> The Town can be impacted by hazards that are not as frequent or do not have the same severity	No	None	1 year	Administration	Staff time	Increased public awareness	Town budget	High	EAP	PI



Table 9.6-20. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				of impact. Residents are not always aware of the risks these hazards present. <b>Solution:</b> The Town will expand outreach to include information on lesser known/less frequent hazards of concern.										
2023-Town of Clarkson -004	Highway Department Tree Removal	1, 3, 5	Wildfire, Invasive Species, Severe Storm, Severe Winter Storm	<b>Problem:</b> Trees on the perimeter of the Highway Department pose a risk to the Department's critical buildings as they can fall or lead to transfer of wildfire, threatening loss of critical services. <b>Solution:</b> The Highway Department will trim trees that pose a risk	Yes	None	2 years	Highway Department	Medium	Reduction in damages from falling trees,	BRIC, PDM, Town budget	High	NSP	NR



Table 9.6-20. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				to buildings and fully remove the highest hazard trees.										
2023-Town of Clarkson -005	Disease Outbreak Training and Supplies	1, 4	Disease Outbreak	<b>Problem:</b> The Covid-19 pandemic has demonstrated the level of impact that disease outbreak events can present. Staff need to be trained on how to respond to future events and supplies must be available to address disease outbreak. <b>Solution:</b> The Town will stockpile necessary supplies to address disease outbreak events such as PPE. Town staff will undergo training for disease	No	None	2 years	OEM	Staff time for training, Low expected cost for supplies	Increased capability to respond to disease outbreak events	Town budget, BRIC, PDM	High	LPR, EAP	PR, PI



Table 9.6-20. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				outbreak response.										
2023-Town of Clarkson -006	Floodplain Administrator Training	1	Flood	<b>Problem:</b> The Town's floodplain administrator requires additional training. <b>Solution:</b> The FPA will attend available trainings from FEMA and NYS DEC on proper floodplain administration techniques.	No	None	1 year	FPA	Staff time	Increased training and capability	Town budget	High	LPR	PR
2023-Town of Clarkson -007	Substantial Damage Procedures	1, 2, 3	All Hazards	<b>Problem:</b> While major events that result in substantial damage of structures are rare, municipalities need to have official procedures in place to inspect structures, make determinations, and provide for appeals.	No	None	Within 5 years	FPA	Staff time	Meet NFIP requirements, improved floodplain administration	Municipal budget	High	LPR	PP, PR



Table 9.6-20. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<b>Solution:</b> The municipality will develop official procedures for Substantial Damage and Substantial Improvement determinations.										
2023-Town of Clarkson -008	Lake Road Stormwater System	3	Flood, Severe Storm, Severe Winter Storm	<b>Problem:</b> The stormwater system along Lake Road just south of Ridge is undersized and outdated, resulting in flooding across Route 19. <b>Solution:</b> The Engineer will conduct an assessment of the stormwater system to determine deficiencies and where components of the system are undersized. Once the necessary improvements are identified, DPW will	No	None	Within 5 years	Engineer, DPW	High	Reduction in flood risk, stormwater flood damage, maintains emergency access	HMGP, BRIC, PDM, CHIPS, Town budget	High	SIP	SP



Table 9.6-20. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				make the necessary improvements and will be responsible for maintenance.										
2023-Town of Clarkson -009	Sweden-Clarkson Recreation Center	1, 3	Extreme Temperature, Severe Storm, Severe Winter Storm	<b>Problem:</b> The Town of Sweden and Town of Clarkson share a combined Sweden Clarkson Recreation program. The Sweden-Clarkson Recreation Center is located in the Town of Sweden at 4927 Lake Rd S. The facility could be used as an emergency shelter, but it lacks backup power. <b>Solution:</b> An engineer will evaluate the Recreation Center to determine the proper size generator	Yes	None	Within 5 years	Town of Sweden, Town of Clarkson, Sweden Clarkson Recreation program, Sweden Public Works	High	Protect public health and safety, and ensure continued operation of critical facility and essential functions during power outages.	FEMA HMGP and BRIC, PDM, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Municipal Budgets	High	SIP	ES





Table 9.6-20. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				necessary to power the Recreation Center. The Town of Sweden's Public Works will oversee installation of a fixed generator and necessary electrical components to supply backup power to the Recreation Center. The Town of Sweden's Public Works will be responsible for maintenance and testing of the generator following installation.										

Notes:

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

Acronyms and Abbreviations:

CAV	Community Assistance Visit
CRS	Community Rating System
DPW	Department of Public Works
EHP	Environmental Planning and Historic Preservation

Potential FEMA HMA Funding Sources:

FMA	Flood Mitigation Assistance Grant Program
HMGP	Hazard Mitigation Grant Program
BRIC	Building Resilient Infrastructure and Communities Program

Timeline:

The time required for completion of the project upon implementation.

Cost:

The estimated cost for implementation.




FEMA	Federal Emergency Management Agency
FPA	Floodplain Administrator
HMA	Hazard Mitigation Assistance
N/A	Not applicable
NFIP	National Flood Insurance Program
OEM	Office of Emergency Management

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Critical Facility:

Yes  Critical Facility located in 1% floodplain

Mitigation Category:

- *Local Plans and Regulations (LPR)*—These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- *Structure and Infrastructure Project (SIP)*—These actions 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 the impact of hazards.
- *Natural Systems Protection (NSP)*—These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.
- *Education and Awareness Programs (EAP)*—These are 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 storm water management regulations.
- *Property Protection (PP)*—These 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 the construction of structures to reduce the impact 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 the protection of essential facilities.



The prioritization criteria provided in Volume 1, Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the 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.’ The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

Table 9.6-21. Summary of Prioritization of Actions

Project Number	Project Name	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
2023-Town of Clarkson-001	Critical Facility Backup Power	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High
2023-Town of Clarkson-002	Emergency Supply Stockpile	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High
2023-Town of Clarkson-003	Public Outreach Program	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High
2023-Town of Clarkson-004	Highway Department Tree Removal	1	1	1	1	1	1	0	0	1	1	1	1	1	1	12	High
2023-Town of Clarkson-005	Disease Outbreak Training and Supplies	1	0	1	1	1	1	1	1	1	1	0	1	1	1	12	High
2023-Town of Clarkson-006	Floodplain Administrator Training	0	1	1	1	1	1	1	1	1	1	0	1	1	1	12	High
2023-Town of Clarkson-007	Substantial Damage Procedures	0	1	1	1	1	1	1	1	1	1	1	0	1	1	12	High
2023-Town of Clarkson-008	Lake Road Stormwater System	1	1	0	1	1	1	0	1	1	0	1	0	1	1	10	High
2023-Town of Clarkson-009	Sweden- Clarkson Recreation Center	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



### **9.6.9 Action Worksheets**

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The following action worksheets were developed by the Town of Clarkson to aid in the submittal of grant applications to support the funding of high priority proposed actions.

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Action Worksheet			
Project Name:	Critical Facility Backup Power		
Project Number:	2023-Town of Clarkson-001		
Risk / Vulnerability			
Hazard(s) of Concern:	Extreme Temperature, Severe Storm, Severe Winter Storm		
Description of the Problem:	Numerous public facilities in the Town of Clarkson lack permanent backup power including Goodwin Lodge at Hafner Park on Lake Road and sanitary sewer pumps on Darla Drive and Gilmore Road. Critical facilities require backup power to maintain continuity of operations		
Action or Project Intended for Implementation			
Description of the Solution:	The Town Engineer will determine the size generator needed at each facility. Public Works will oversee installation of permanent fixed site generators and necessary electrical components to supply backup power to each facility. Public Works will be responsible for maintenance and testing of the generators following installation.		
Is this project related to a Critical Facility?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	N/A	Estimated Benefits (losses avoided):	Protect public health and safety, and ensure continued operation of critical facility and essential functions during power outages.
Useful Life:	20 years	Goals Met:	3
Estimated Cost:	High	Mitigation Action Type:	Structure and Infrastructure Projects (SIP)
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 5 years
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	FEMA HMGP and BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Municipal Budget
Responsible Organization:	Engineer, Public Works	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation, Emergency Management
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Install solar panels	\$100,000	Weather dependent; need large amount of space for installation; expensive if repairs needed
	Install wind turbines	\$100,000	Weather dependent; poses a threat to wildlife; expensive repairs if needed
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
<b>Project Name:</b>	Critical Facility Backup Power	
<b>Project Number:</b>	2023-Town of Clarkson-001	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services of critical facilities
Property Protection	1	Project will protect buildings from power loss.
Cost-Effectiveness	1	
Technical	1	The project is technically feasible
Political	1	
Legal	1	The Town has the legal authority to complete the project.
Fiscal	0	Project requires funding support.
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	Extreme Temperature, Severe Storm, Severe Winter Storm
Timeline	0	Within 5 years
Agency Champion	1	Engineer, Public Works
Other Community Objectives	1	
Total	12	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Lake Road Stormwater System		
Project Number:	2023-Town of Clarkson-008		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm, Severe Winter Storm		
Description of the Problem:	The stormwater system along Lake Road just south of Ridge is undersized and outdated, resulting in flooding across Route 19.		
Action or Project Intended for Implementation			
Description of the Solution:	The Engineer will conduct an assessment of the stormwater system to determine deficiencies and where components of the system are undersized. Once the necessary improvements are identified, DPW will make the necessary improvements and will be responsible for maintenance.		
Is this project related to a Critical Facility or Lifeline?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	TBD by developed actions	Estimated Benefits (losses avoided):	Reduction in flood risk, stormwater flood damage, maintains emergency access
Useful Life:	30 years	Goals Met:	3
Estimated Cost:	High	Mitigation Action Type:	Structure and Infrastructure Projects
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 5 years
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	HMGP, BRIC, PDM, CHIPS, Town budget
Responsible Organization:	Engineer, DPW	Local Planning Mechanisms to be Used in Implementation if any:	Hazard mitigation planning, stormwater management
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Current problem continues
	Elevate homes in the area	Very High	Costly and would not solve roadway flooding
	Buyout homes in the area	Very High	Costly and would not solve roadway flooding
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			





Action Worksheet		
Project Name:	Lake Road Stormwater System	
Project Number:	2023-Town of Clarkson-008	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protects life from flooding and maintains emergency access.
Property Protection	1	Protects buildings from flood damage
Cost-Effectiveness	0	
Technical	1	Technically feasible project
Political	1	
Legal	1	The Town has the legal authority to conduct the project.
Fiscal	0	Project will require grant funding.
Environmental	1	
Social	1	Project would reduce flooding impacts
Administrative	0	
Multi-Hazard	1	Flood, Severe Storm, Severe Winter Storm
Timeline	0	Within 5 years
Agency Champion	1	Engineer, DPW
Other Community Objectives	1	
Total	10	
Priority (High/Med/Low)	High	



Action Worksheet			
<b>Project Name:</b>	Sweden- Clarkson Recreation Center		
<b>Project Number:</b>	2023-Town of Clarkson-009		
<b>Risk / Vulnerability</b>			
<b>Hazard(s) of Concern:</b>	Extreme Temperature, Severe Storm, Severe Winter Storm		
<b>Description of the Problem:</b>	The Town of Sweden and Town of Clarkson share a combined Sweden Clarkson Recreation program. The Sweden-Clarkson Recreation Center is located in the Town of Sweden at 4927 Lake Rd S. The facility could be used as an emergency shelter, but it lacks backup power.		
<b>Action or Project Intended for Implementation</b>			
<b>Description of the Solution:</b>	An engineer will evaluate the Recreation Center to determine the proper size generator necessary to power the Recreation Center. The Town of Sweden's Public Works will oversee installation of a fixed generator and necessary electrical components to supply backup power to the Recreation Center. The Town of Sweden's Public Works will be responsible for maintenance and testing of the generator following installation.		
<b>Is this project related to a Critical Facility?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
<b>Is this project related to a Critical Facility located within the 100-year floodplain?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
<b>Level of Protection:</b>	N/A	<b>Estimated Benefits (losses avoided):</b>	Protect public health and safety, and ensure continued operation of critical facility and essential functions during power outages.
<b>Useful Life:</b>	20 years	<b>Goals Met:</b>	1, 3
<b>Estimated Cost:</b>	High	<b>Mitigation Action Type:</b>	Structure and Infrastructure Projects (SIP)
<b>Plan for Implementation</b>			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within 5 years
<b>Estimated Time Required for Project Implementation:</b>	1 year	<b>Potential Funding Sources:</b>	FEMA HMGP and BRIC, PDM, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Municipal Budgets
<b>Responsible Organization:</b>	Engineer, Public Works	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Hazard Mitigation, Emergency Management
<b>Three Alternatives Considered (including No Action)</b>			
<b>Alternatives:</b>	<b>Action</b>	<b>Estimated Cost</b>	<b>Evaluation</b>
	No Action	\$0	Problem continues.
	Install solar panels	\$100,000	Weather dependent; need large amount of space for installation; expensive if repairs needed
	Install wind turbine	\$100,000	Weather dependent; poses a threat to wildlife; expensive repairs if needed
<b>Progress Report (for plan maintenance)</b>			
<b>Date of Status Report:</b>			
<b>Report of Progress:</b>			
<b>Update Evaluation of the Problem and/or Solution:</b>			



Action Worksheet		
<b>Project Name:</b>	Sweden- Clarkson Recreation Center	
<b>Project Number:</b>	2023-Town of Clarkson-009	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services of the Recreation Center and allow for sheltering
Property Protection	1	Project will protect building from power loss.
Cost-Effectiveness	1	
Technical	1	The project is technically feasible
Political	1	
Legal	1	The Towns have the legal authority to complete the project.
Fiscal	0	Project requires funding support.
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	Extreme Temperature, Severe Storm, Severe Winter Storm
Timeline	0	Within 5 years
Agency Champion	1	Town of Sweden, Town of Clarkson, Sweden Clarkson Recreation program, Sweden Public Works
Other Community Objectives	1	
Total	12	
Priority (High/Med/Low)	High	