



## 9.38 Village of Orchard Park

This section presents the jurisdictional annex for the Village of Orchard Park. It includes 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 that can be implemented prior to a disaster to reduce or eliminate damage to property and people. This annex includes a general overview of the municipality and who in the village participated in the planning process; an assessment of the Village of Orchard Park’s risk and vulnerability; the different capabilities utilized in the village; and an action plan that will be implemented to achieve a more resilient community.

### 9.38.1 Hazard Mitigation Planning Team

The following individuals have been identified as the Village of Orchard Park’s hazard mitigation plan primary and alternate points of contact. The Village of Orchard Park followed the planning process described in Section 3 (Planning Process) in Volume I of this plan update. This annex was developed over the course of several months with input from many village departments, including: Code Enforcement, Emergency Management, and Clerk. The Emergency Manager represented the community on the Erie 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 Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.38-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: Richard J. Mrugalski/ Emergency Manager Address: 4295 S. Buffalo Street, Orchard Park NY Phone Number: 716-545-0557 Email: <a href="mailto:mrugalskir@orchardparkny.org">mrugalskir@orchardparkny.org</a>	Name/Title: John Gullo/ Code Enforcement Address: 4295 S. Buffalo Street Municipal Building – 1st Floor Orchard Park, NY 14127 Phone Number: 716.662.9327 Email: <a href="mailto:BuildingInspector@OrchardParkVillage.org">BuildingInspector@OrchardParkVillage.org</a>
<b>NFIP Floodplain Administrator</b>	
Name/Title: John Gullo/ Code Enforcement Address: 4295 S. Buffalo Street Municipal Building – 1st Floor Orchard Park, NY 14127 Phone Number: 716.662.9327 Email: <a href="mailto:BuildingInspector@OrchardParkVillage.org">BuildingInspector@OrchardParkVillage.org</a>	

### 9.38.2 Municipal Profile

The Village of Orchard Park is 1.4 square miles and is situated entirely within the Town of Orchard Park. The first settlers to the village area were Quakers who arrived in 1803. The village was first called “Potter’s Corners” and incorporated with its current name in 1821. U.S. Route 20A and NYS Route 277 traverse the village.

According to the U.S. Census, the 2010 population for the Village of Orchard Park was 3,246. The estimated 2019 population was 3,148, a three percent decrease from the 2010 Census. Data from the 2019 U.S. Census American Community Survey indicate that 3.2 percent of the population is 5 years of age or younger and 20.6 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.



### 9.38.3 Jurisdictional Capability Assessment and Integration

The Village of Orchard Park performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Section 6.4 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. This section summarizes the following findings of the assessment:

- 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 this planning effort, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress in plan integration. Areas with current mitigation integration are summarized in this Jurisdictional Capability Assessment (Section 9.38.3). The Village of Orchard Park’s identified opportunities for integration of mitigation concepts to be incorporated into municipal procedures are included in the updated mitigation strategy.

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

The table below summarizes the regulatory tools that are available to the Village of Orchard Park. The comment field provides information as to where hazard mitigation has been integrated.

**Table 9.38-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	State Mandated? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible
<b>Codes, Ordinances, &amp; Requirements</b>					
Building Code	Yes	Yes	Chapter 92 - Building Code Administration and Enforcement	Local	Code Enforcement Office
<i>Comment: This chapter provides for the administration and enforcement of the New York State Uniform Fire Prevention and Building Code (the Uniform Code) and the State Energy Conservation Construction Code (the Energy Code) in this Village. This chapter is adopted pursuant to § 10 of the Municipal Home Rule Law. Except as otherwise provided in the Uniform Code, other state law, or other section of this chapter, all buildings, structures, and premises, regardless of use or occupancy, are subject to the provisions of this chapter. The Code Enforcement Officer administers and enforces all provisions of this chapter.</i>					
Zoning Code	Yes	No	Chapter 225 – Zoning; adopted 12/3/1979 and amended as needed	Local	Code Enforcement Officer
<i>Comment: Such regulations are made in accordance with the Comprehensive Plan and designed to lessen congestion in the streets, to secure safety from fire, panic, floods, and other dangers; to promote the health and general welfare; to provide adequate light and air; to prevent overcrowding of land; to facilitate the provision of transportation, water, sewerage, schools, parks and other public requirements. Such regulations are made with reasonable consideration, among other things as to the characteristics of the district and its peculiarities for particular uses and with a view to conserving the value of buildings and encouraging the most appropriate use of land throughout the Village.</i>  <i>The chapter identifies several zoning districts that promote the public health, safety, morals, and general welfare of the village. This includes: residential low-density, residential medium-density, residential medium-high density, commercial, professional-commercial, industrial, and land conservation.</i>					
Subdivision Ordinance	No	No	-	-	-
<i>Comment:</i>					



	Jurisdiction has this? (Yes/No)	State Mandated? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible
Stormwater Management Ordinance	Yes	Yes – for county	Chapter 185 – Stormwater Management and Erosion Control; adopted 12/29/2008	Local	Department of Public Works
<p>Comment: <i>The purpose of this chapter, is to establish minimum stormwater management requirements and controls to protect and safeguard the general health, safety, and welfare of the public residing within this jurisdiction and to address the findings of fact in § 185-1 hereof. This chapter seeks to meet those purposes by achieving the following objectives:</i></p> <p><i>A. 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;</i></p> <p><i>B. Require land development 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, GP-02-01, or as amended or revised;</i></p> <p><i>C. Minimize increases in stormwater runoff from land development activities in order to reduce flooding, siltation, increases in stream temperature, and streambank erosion and maintain the integrity of stream channels;</i></p> <p><i>D. Minimize increases in pollution caused by stormwater runoff from land development activities which would otherwise degrade local water quality;</i></p> <p><i>E. Minimize the total annual volume of stormwater runoff which flows from any specific site during and following development to the maximum extent practicable; and</i></p> <p><i>F. 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.</i></p>					
Post-Disaster Recovery Ordinance	No	No	-	-	-
Comment:					
Real Estate Disclosure	Yes	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<p>Comment: <i>Property condition disclosure statement. 1. Except as is provided in section four hundred sixty-three of this article, every seller of residential real property pursuant to a real estate purchase contract shall complete and sign a property condition disclosure statement as prescribed by subdivision two of this section and cause it or a copy thereof, to be delivered to a buyer or buyer's agent prior to the signing by the buyer of a binding contract of sale. A copy of the property condition disclosure statement containing the signatures of both seller and buyer shall be attached to the real estate purchase contract. Nothing contained in this article or this disclosure statement is intended to prevent the parties to a contract of sale from entering into agreements of any kind or nature with respect to the physical condition of the property to be sold, including, but not limited to, agreements for the sale of real property "as is".</i></p>					
Growth Management	No	No	-	-	-
Comment:					
Site Plan Review	Yes	Yes	Village Code 225 -21 7/1998	Local	Code Enforcement Office
<p>Comment: <i>Site plan review considers the compatibility of the proposed project with adjoining land uses and with other proposed development, having particular reference to its probable effect on the value of other land and to the adequacy of features intended to promote public health, safety and welfare and the general purposes of this chapter.</i></p>					
Environmental Protection Ordinance	Yes	Yes	Chapter 107 Adopted 1979 Local Law 1. Environmental Quality Review	Local	Planning Board
<p>Comment: <i>The purpose of this chapter is to implement for the Village of Orchard Park SEQR and comply with the minimum environmental standard to protect the environment and overall health of the community.</i></p>					
Flood Damage Prevention Ordinance	Yes	Yes	Chapter 123 – Flood Damage Prevention; adopted 4/8/2019	Local	Code Enforcement Officer
<p>Comment: <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:</i></p> <p><i>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;</i></p> <p><i>B. Require that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction;</i></p> <p><i>C. Control the alteration of natural floodplains, stream channels, and natural protective barriers which are involved in the accommodation of flood waters;</i></p> <p><i>D. Control filling, grading, dredging and other development which may increase erosion or flood damages;</i></p> <p><i>E. Regulate the construction of flood barriers which will unnaturally divert flood waters or which may increase flood hazards to other lands, and;</i></p> <p><i>F. Qualify and maintain for participation in the National Flood Insurance Program.</i></p>					



	Jurisdiction has this? (Yes/No)	State Mandated? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible
<p><i>The Village Code Enforcement Officer is appointed local administrator to administer and implement this chapter by granting or denying floodplain development permits in accordance with its provisions.</i></p>					
Municipal Separate Storm Sewer System (MS4)	Yes	Yes – for municipalities within metropolitan areas.	Chapter 184 – Storm Sewers; adopted 12/29/2008	Local	Stormwater Management Officer
<p><i>Comment: The purpose of this chapter is to provide for the health, safety, and general welfare of the citizens of the Village of Orchard Park through the regulation of non-stormwater discharges to the municipal separate storm sewer system (MS4) to the maximum extent practicable as required by federal and state law. This article establishes methods for controlling the introduction of pollutants into the MS4 in order to comply with requirements of the SPDES General Permit for Municipal Separate Storm Sewer Systems. The objectives of this article are:</i></p> <ul style="list-style-type: none"> <li><i>A. To meet the requirements of the SPDES General Permit for Stormwater Discharges from MS4s, Permit No. GP-02-02, or as amended or revised;</i></li> <li><i>B. To regulate the contribution of pollutants to the MS4 since such systems are not designed to accept, process or discharge non-stormwater wastes;</i></li> <li><i>C. To prohibit illicit connections, activities and discharges to the MS4;</i></li> <li><i>D. To establish legal authority to carry out all inspection, surveillance and monitoring procedures necessary to ensure compliance with this article; and</i></li> <li><i>E. To promote public awareness of the hazards involved in the improper discharge of trash, yard waste, lawn chemicals, pet waste, wastewater, grease, oil, petroleum products, cleaning products, paint products, hazardous waste, sediment and other pollutants into the MS4.</i></li> </ul>					
Emergency Management Ordinance	No	Yes	-	-	-
Comment:					
Climate Change Ordinance	No	No	-	-	-
Comment:					
Disaster Recovery Ordinance	No	No	-	-	-
Comment:					
Disaster Reconstruction Ordinance	No	No	-	-	-
Comment:					
Other	Yes	No	-	-	-
<p>Comment:</p> <ul style="list-style-type: none"> <li>• Chapter 176 (Sewers) – adopted 7/12/2004; prohibits discharges to any sanitary sewer</li> </ul>					
<b>Planning Documents</b>					
Comprehensive Plan	No	No	-	-	-
Comment:					
Capital Improvement Plan	No	No	-	-	-
Comment:					
Disaster Debris Management Plan	No	No	-	-	-
Comment:					
Floodplain or Watershed Plan	No	No	-	-	-
Comment:					



	Jurisdiction has this? (Yes/No)	State Mandated? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible
Stormwater Plan	No	No	-	-	-
Comment:					
Open Space Plan	No	No	-	-	-
Comment:					
Urban Water Management Plan	No	No	-	-	-
Comment:					
Habitat Conservation Plan	No	No	-	-	-
Comment:					
Economic Development Plan	No	No	-	-	-
Comment:					
Shoreline Management Plan	No	Yes – for shoreline communities	-	-	-
Comment:					
Community Wildfire Protection Plan	No	No	-	-	-
Comment:					
Forest Management Plan	No	No	-	-	-
Comment:					
Transportation Plan	No	No	-	-	-
Comment:					
Climate Change /Resilience/ Sustainability Plan	No	No	-	-	-
Comment:					
Agriculture Plan	No	No	-	-	-
Comment:					
Other	No	-	-	-	-
Comment:					
<b>Response/Recovery Planning</b>					
Comprehensive Emergency Management Plan	Yes	Yes	Orchard Park Comprehensive Emergency Plan, March 2012	Local	Emergency Manager
Comment: <i>The goal of the plan includes: 1) Prepare people for hazard events 2) Protect the community from hazard events 3) Reduce vulnerability to hazards. 4) Encourage smart and strategic planning to reduce long term risk.</i>					
Strategic Recovery Planning Report	No	No	-	-	-
Comment:					



	Jurisdiction has this? (Yes/No)	State Mandated? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible
Threat & Hazard Identification & Risk Assessment (THIRA)	No	No	-	-	-
Comment:					
Post-Disaster Recovery Plan	No	No	-	-	-
Comment:					
Continuity of Operations Plan	No	No	-	-	-
Comment:					
Public Health Plan	No	No	-	-	-
Comment:					
Other	No	-	-	-	-
Comment:					

### Development and Permitting Capability

The table below summarizes the capabilities of the Village of Orchard Park to oversee and track development.

**Table 9.38-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits? If yes, what department is responsible?	Yes	<p>The Code Enforcement Department is responsible for issuing permits. Building permits are required for the following:</p> <ul style="list-style-type: none"> <li>• For all new construction, remodeling or additions</li> <li>• When a repair to an existing building is required</li> <li>• When a repair affects the structure of an existing building</li> <li>• When an electrical circuit is installed or extended</li> <li>• When a generator is installed</li> <li>• When remodeling involves the removal or relocation of walls; or affects the structure of a building</li> <li>• When a solid fuel device or natural gas insert, such as a wood burning stove or fireplace is installed or repaired</li> <li>• When the use of a building is changed (e.g., a retail store to a doctor’s office...)</li> <li>• When the required fire safety features in an existing building are affected by repairs, remodeling or alterations</li> <li>• For a deck, shed, fence, pool, sign or newly paved surfaces</li> <li>• A Building Permit is required if the roof structure requires replacement or repairs</li> </ul>
Are permits tracked by hazard area? (For example, floodplain development permits.)	Yes	Floodplain
Do you have a buildable land inventory? If yes, please describe. If no, please quantitatively describe the level of buildout in the jurisdiction.	No	The village is fully built out.



### Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Village of Orchard Park and their current responsibilities which contribute to hazard mitigation.

**Table 9.38-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, integration of hazard mitigation):
<b>Administrative Capability</b>		
Planning Board	Yes	The Village Planning Board reviews permit applications in residential and non-residential zones, all referrals from the Zoning Board of Appeals, and any other permits or matters referred by the Code Enforcement Officer or the Village Board.
Zoning Board of Adjustments	Yes	The Village Code Enforcement Officer reviews all permit applications to determine if variances to the Village's Municipal Code are needed. If a variance is required, the applicant completes a Zoning Board of Appeals application and a public hearing is scheduled.
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Public Works/Highway Department	Yes	The Department of Public Works (DPW) monitors and maintains the village streets; this includes all pavement maintenance, management and snow plowing duties. The DPW also implements the stormwater management plan to stay current with EPA and DEC regulations.
Construction/Building/Code Enforcement Department	Yes	The Village Code Enforcement Officer reviews all permit applications to determine if variances to the Village's Municipal Code are needed. If a variance is required, the applicant completes a Zoning Board of Appeals application and a public hearing is scheduled.
Emergency Management/Public Safety Department	No	-
Warning Systems / Services (mass notification system, outdoor warning signals)	Yes	Code RED
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	Yes	DPW – road maintenance, snow plowing, water quality monitoring, and storm sewer system cleaning
Mutual aid agreements	No	-
Other	No	-
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	Yes	Code Enforcement Officer
Engineers or professionals trained in building or infrastructure construction practices	No	-
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	No	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-
Scientist familiar with natural hazards	No	-
NFIP Floodplain Administrator (FPA)	Yes	Code Enforcement Officer is the appointed local administrator to administer and implement Chapter 123 of the village code.
Surveyor(s)	No	-
Emergency Manager	Yes	Emergency Manager
Grant writer(s)	No	On Call Basis



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, integration of hazard mitigation):
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	No	-

### Fiscal Capability

The table below summarizes financial resources available to the Village of Orchard Park.

**Table 9.38-5. 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	Yes
User fees for water, sewer, gas or electric service	Yes
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	No
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 Village of Orchard Park.

**Table 9.38-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	Yes	Village Mayor
Personnel skilled or trained in website development	Yes	Office Administrator
Hazard mitigation information available on your website	Yes	The village maintains a municipal website that includes public notices, upcoming events and meetings, announcements, and information pertaining to hazards
Social media for hazard mitigation education and outreach	Yes	The village has a social media page on Facebook where they post about upcoming events in the municipality.
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Other programs already in place that could be used to communicate hazard-related information	Yes	The village could use their website and Facebook page to post additional information about specific hazards of concern to the village.
Warning systems for hazard events	Yes	Code RED
Natural disaster/safety programs in place for schools	No	-



Outreach Resources	Available? (Yes/No)	Comment:
Other	No	

### Community Classifications

The table below summarizes classifications for community programs available to the Village of Orchard Park.

**Table 9.38-7. 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)	Yes	Class 4 - Areas with Hydrants	2019
NYSDEC Climate Smart Community	No	-	-
Storm Ready Certification	No	-	-
Firewise Communities classification	No	-	-
Other	No	-	-

Note:

- N/A Not applicable
- NP Not participating
- 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). In other words, it describes a jurisdiction’s current capabilities to adjust to, protect from, or withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each hazard of concern and the jurisdiction’s rating.

**Table 9.38-8. Adaptive Capacity**

Hazard	Adaptive Capacity - Strong/Moderate/Weak*
Coastal Erosion	NA
Cyber Attack	Moderate
Earthquake	Weak
Expansive Soils	Weak
Extreme Temperature	Strong
Flood	Moderate
Hazardous Materials	Strong
Landslide	Strong
Pandemic	Strong
Severe Storm	Strong
Severe Winter Storm	Strong
Utility Failure	Strong
Wildfire	Moderate

- \*Strong Capacity exists and is in use
- Moderate Capacity may exist; but is not used or could use some improvement
- Weak Capacity does not exist or could use substantial improvement

### 9.38.4 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.

**NFIP Floodplain Administrator (FPA)**

John Gullo, Code Enforcement Officer

**National Flood Insurance Program (NFIP) Summary**

The following table summarizes the NFIP statistics for the Village of Orchard Park.

**Table 9.38-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties	# Policies in the 1% Flood Boundary
Village of Orchard Park	7	7	\$59,650	2	2

Source: FEMA 2020a, FEMA 2020b

Notes:

RL Repetitive Loss; SRL Severe Repetitive Loss

**Flood Vulnerability Summary**

The Village of Orchard Park maintains a list of flood-prone properties as well as a list of homeowners that are interested in flood mitigation. There are no RISK Map projects at this time. After significant flood events, the Code Enforcement Officer conducts substantial damage assessments; however, no assessments were made during recent flood events. At the time of this HMP update, no properties have been mitigated. The villages indicated that flood maps adequately address the areas that are prone to flooding.

**NFIP Compliance**

The village Code Enforcement Officer is in charge of floodplain manager and there are no certified floodplain managers in the village at this time. The village has access to resources to determine future flooding conduction from climate change through the village and county. The village would like to have the general training for staff regarding floodplain management. The FPA provides permit review, education, inspections, issues certificate of compliance, and engineering services for all residents and businesses

The village does not have any outstanding violations at this time and the last CAV was 08/04/2014. Chapter 123 of the village code pertains to flood damage prevention in the village. It was adopted on April 8, 2019. The current chapter meets the minimum state and federal standards, requiring all new construction or substantial improvements of structures in the SFHA to have their lowest floor elevated at least two feet above the base flood elevation.

The village does not have any other programs, plans, or ordinances in place that support the NFIP program. At the time of this plan update, the village is not interested in joining the CRS program.

**9.38.5 Evacuation, Sheltering, Temporary Housing, and Permanent Housing**

Evacuation routes, sheltering measures, temporary housing, and permanent housing must all 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 Village of Orchard Park has identified the following routes and procedures to evacuate residents prior to and during an event.

- Route 20, Route 20A, Abbott Road, Route 179 (Milestrip Road), Route 219, Route 240/277, Baker Road, Jewett Holmwood Road, New Armor Duells Road, and Transit Road.

The Town of Orchard Park Police Department will be tasked with directing traffic to the main evacuation routes within the town and village.

## Sheltering

The Village of Orchard Park has identified the following designated emergency shelters within the village.

**Table 9.38-10. Designated Emergency Shelters**

Site Name	Address	Capacity	Accommodates Pets?	ADA Compliant?	Backup Power?	Types of Medical Services Provided	Other Services Provided
Orchard Park Community Activity Center	4520 California Road	100	Yes, not at site, can utilize Dog Control Facility	Yes	No (action 003)	None	Warming and cooling station only
Orchard Park Middle School	60 S. Lincoln Ave	100	Yes, not at site, can utilize Dog Control Facility	Yes	Yes	None	Warming and cooling station only

## Temporary Housing

The Village of Orchard Park has identified the following sites suitable for placing temporary housing units.

**Table 9.38-11. 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
Compost/Soccer Complex	6909 Milestrip Road	Yes	300,000 Sq. Ft. Available	Parkland	Yes
Webster Road Vacant Land	Webster Road, SBL162.00-1-28.121	Yes	400,000 Sq. Ft. Available	Vacant Parkland	Yes
Orchard Park Little League Baseball Parking Lot	Thorn Ave, SBL 172.11-1-3.11	Yes	52,000 Sq. Ft. Available	Parking Lot	Yes
Brush Mountain Park	4520 California Road	Yes	200,000 Sq. Ft. Available	Parkland	Yes



### Permanent Housing

Structures located in the regulatory floodplain may 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 Village of Orchard Park has not identified any permanent housing locations and believes coordination for this would need to be determined with each landowner outside of the village due to the limited space within the municipality.

**Table 9.38-12. Permanent 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 – proposed in mitigation action 007					

### 9.38.6 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 understanding a jurisdiction’s overall risk to its hazards of concern. Table 9.38-13 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.

**Table 9.38-13. Recent and Expected Future Development**

Type of Development	2015		2016		2017		2018		2019		2020	
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	0	0	1	0	0	0	0	0	1	0	0	0
Multi-Family	1	0	0	0	0	0	0	0	0	0	0	0
Other (commercial, mixed-use, etc.)	0	0	0	0	1	0	0	0	0	0	1	0
<b>Total Permits Issued</b>	1	0	1	0	1	0	0	0	1	0	1	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				
<b>Recent Major Development and Infrastructure from 2015 to Present</b>												
None identified												
<b>Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years</b>												
None identified												

SFHA Special Flood Hazard Area (1% flood event)

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

### 9.38.7 Jurisdictional Risk Assessment

The hazard profiles in Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Refer to Section 5.2 (Methodology and Tools) and Section



5.4 (Hazard Ranking) for a detailed summary for the Village of Orchard Park’s risk assessment results and data used to determine the hazard ranking discussed later in this section.

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



Figure 9.38-1. Village of Orchard Park Hazard Area Extent and Location Map 1

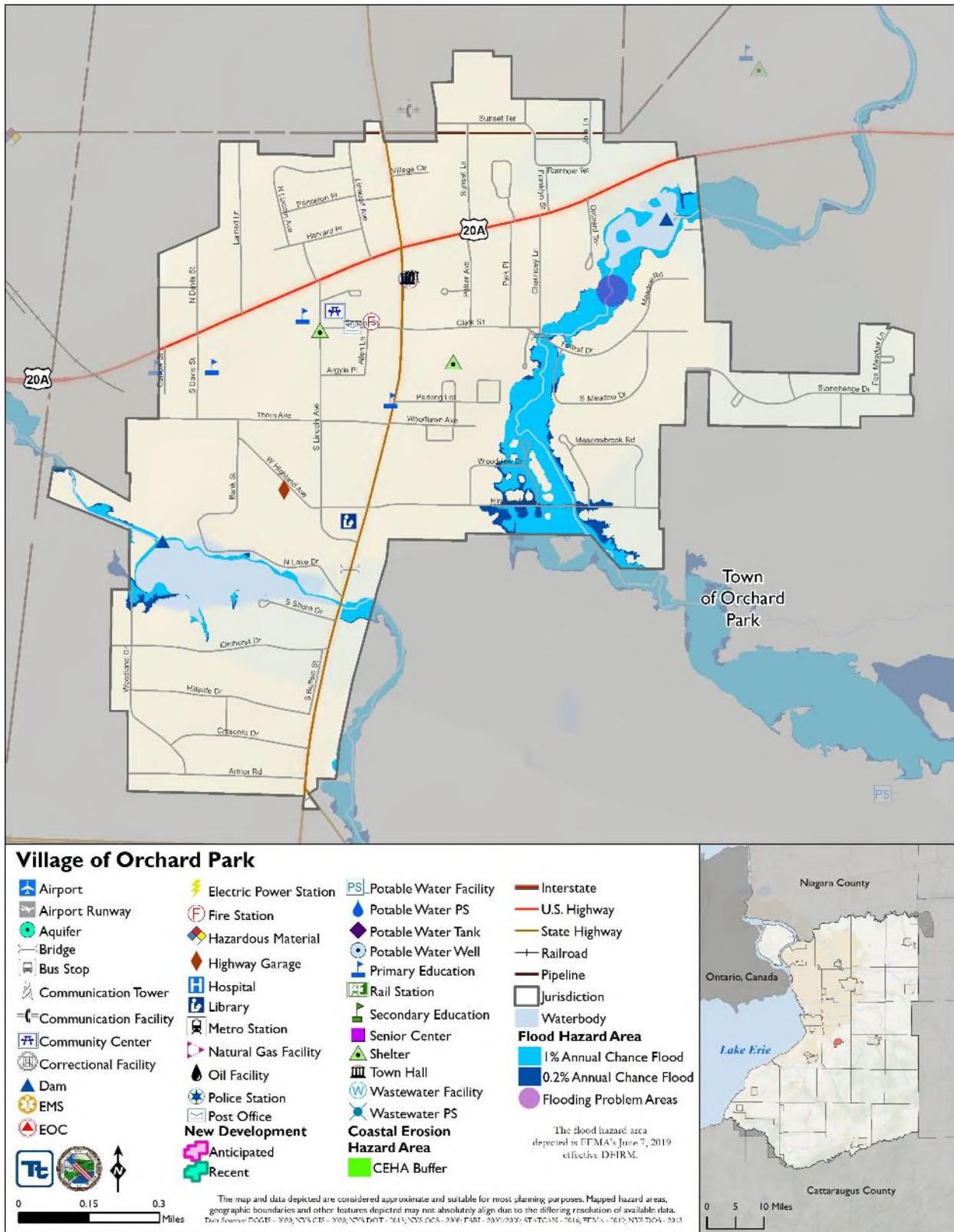
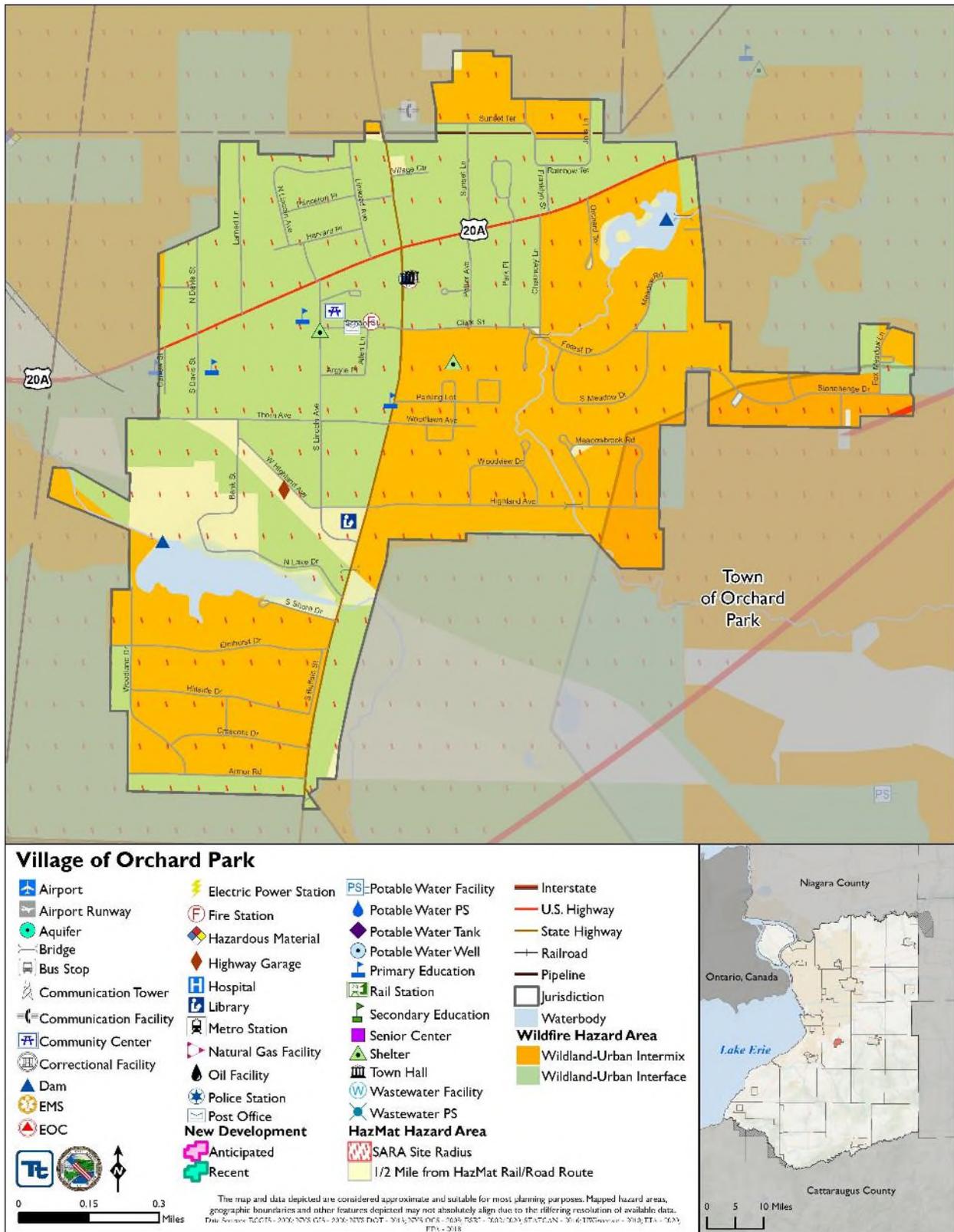






Figure 9.38-3. Village of Orchard Park Hazard Area Extent and Location Map 3





**Hazard Event History**

Erie County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5 (Risk Assessment) of this plan. 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 Village of Orchard Park’s history of federally-declared (as presented by FEMA) and significant hazard events (as presented in NOAA-NCEI) is consistent with that of Erie County. Table 9.38-14 provides details regarding municipal-specific loss and damages the village 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. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.

**Table 9.38-14. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
January 1-9, 2015	Lake-effect Snow	No	A strong clipper crossed the Great Lakes and brought snow and blowing snow to the region and some of the coldest air of the season. The snowfall amounts were enhanced downwind of Lake Ontario and upslope east of Lake Erie where snowfall amounts around a foot were recorded. Gusty winds accompanied the system and produced reduced visibilities in blowing snow.	Although the County was impacted, the village did not report damages
August 11-15, 2015	Flash Flood	No	Showers and thunderstorms developed along the leading edge of a well-defined shortwave moving from Southern Ontario into Western New York. The storms moved across southern Erie county and rapidly intensified. Instantaneous rainfall rates of four to six inches and hour were observed on radar. Actual measure amounts were around two inches, however than rain fell in less than a half hour. The intense rainfall rates combined with steepening terrain along the edge of the Boston Hills produced significant flash flooding in the vicinity of Boston, Colden and Glenwood. Numerous homes were flooded along Boston State Road along Eighteen Mile Creek.	Although the County was impacted, the village did not report damages
October 28-29, 2015	High Wind	No	Strong southwest winds developed in the wake of the system on Wednesday the 28th. Winds gusts were measured to 69 mph at Fort Drum and 62 mph at Dunkirk. The strong winds downed trees and power lines. Damage was reported in Dunkirk and Lacona. Roads were blocked by downed trees and wires in Forestville, Sardinia, Cheektowaga, and South Wales.	Although the County was impacted, the village did not report damages
November 6, 2015	Thunderstorm Wind	No	A line of thunderstorms accompanied a sharp cold front during the late morning hours. The thunderstorms produced a wind gust that downed a 120-foot light standard at the downtown ballpark. The light standard destroyed a nearby parked car.	Although the County was impacted, the village did not report damages



Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
November 12, 2015	High Wind	No	A strong cold front crossed the region around noon. This was followed by a period of strong winds to the lee of Lakes Erie and Ontario. Wind gusts were measured to 60 mph. The winds downed trees and power lines with scattered power outages reported. Several roads were blocked by fallen trees. Specific damage locations in the City of Buffalo included Fulton, Hayward, Tacoma and Shoshone Streets. In Evans Center, a tree knocked down by the wind sheared off a gas line to a home then struck a car. In Niagara County, trees were downed on wires on Forest and Chew Roads in Lewiston. In Adams, a tree took down power lines then landed on a truck.	Although the County was impacted, the village did not report damages
November 18, 2015	High Wind	No	Behind a departing area of high pressure, a deep low pressure system moved from the Plains towards James Bay. A strong southeast downslope flow developed along the Lake Erie shoreline. Wind gusts were measured to 63 mph at Dunkirk. In Brant, Route 249 was closed by downed trees and power lines. In Sheridan and Silver Creek, a portion of Route 5 was also closed by downed power lines.	Although the County was impacted, the village did not report damages
January 11, 2017	High Wind	No	Gusty winds accompanied the passage of a deepening storm system crossing the upper Great Lakes. Wind gusts were measured to 64 mph at Dunkirk, Batavia and Niagara Falls Airport. Other wind gusts included: 60 mph at Buffalo Airport and 58 mph at Fort Drum and Rochester Airport. The strong winds downed trees and power lines. Several thousand customers were without power. Numerous roads were closed because they were blocked by fallen trees. Structural damage was reported in Buffalo and Cheektowaga as roofs were blown off the Buffalo Motor and Generator Corporation and the gymnasium of a school. There was also damage reported to several home and cars caused by falling trees. The Skyway in Buffalo was closed for several hours due to the wind conditions making travel on the elevated span unsafe.	Although the County was impacted, the village did not report damages
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 hundreds of thousands left without power	Although the County was impacted, the village did not report damages
March 13, 2017	Winter Storm	No	Low pressure over the Great Lakes combined with low pressure lifting north along the Atlantic coast to bring significant snowfall to the entire region. Snow began	Although the County was impacted, the village did not report damages



Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
			across the region during the late evening into the early overnight hours of the 13th-14th. The snow continued through the day Tuesday (14th) before tapering off during the afternoon of the 15th. Most schools and some businesses closed on Tuesday. Snowfall records were set at Buffalo and Rochester.	
July 20, 2017	Tornado	No	A nearly stationary frontal zone was located just to the north of the area over far southern Ontario, Canada. A weak wave of low pressure tied to a cluster of thunderstorms moved east along this stalled frontal zone during the late morning and early afternoon. The storms moved onshore from Lake Erie with damage beginning in Hamburg before moving across Orchard Park. Windows of hundreds of car windows were blown out at the Hamburg Fairgrounds where trees were downed and several buildings including the Grandstand sustained damage.	Although the County was impacted, the village did not report damages
August 4, 2017	Thunderstorm Wind	No	Showers and thunderstorms developed along and ahead of an advancing cold front. The thunderstorms produced damaging winds that downed trees and power lines. In Buffalo, the winds partially tore the roof off a building at Utica Street and Massachusetts Avenue. In Weedsport, a trampoline was lifted and landed on a house. The thunderstorms also produced hail up to one inch in diameter near Adams.	Although the County was impacted, the village did not report damages
December 10-15, 2017	Lake-effect Snow	No	Cold air deepened over the eastern Great Lakes with heavy lake snows developing east of Lakes Erie and Ontario. The wind direction was from the west-southwest for most of the event, directing the heaviest snow into the nearby Buffalo Southtowns off Lake Erie, and areas just south and east of Watertown off Lake Ontario.	Although the County was impacted, the village did not report damages
December 24-29, 2017	Lake-effect Snow	No	Lake effect snow developed early Christmas morning and continued continuously for about 72 hours, before diminishing late in the day on Wednesday the 27th	Although the County was impacted, the village did not report damages
January 2, 2018	Blizzard	No	This storm was a rare lake effect blizzard, producing a period of blizzard conditions northeast of Lakes Erie and Ontario. A strong pressure gradient developed between a strong high over the Ohio Valley and low pressure just north of the Great Lakes on the 2nd with wind gusts of 40 to 50 mph northeast of Lakes Erie and Ontario.	Although the County was impacted, the village did not report damages
October 6, 2018	Lightning	No	A weakening surface low tracked northeast across Lake Huron during the afternoon hours with its corresponding warm front extending to the east across Lake Ontario then snaking south ahead of the higher	Although the County was impacted, the village did not report damages



Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
			terrain east of Syracuse. This placed all of western New York within the warm sector of the aforementioned storm system.	
February 24, 2019	High Wind	No	Low pressure over the central Plains rapidly deepened as it moved into the central Great Lakes, ending up as a 970 mb low over western Quebec. A strong cold front trailing the low sliced through western New York trailing it and ushering in very gusty winds. The track of the strong surface low was a classic high wind track for our region.	Although the County was impacted, the village did not report damages
February 24, 2019	Lakeshore Flooding	No	Low pressure over the central Plains rapidly deepened as it moved into the central Great Lakes, ending up as a 970 mb low over western Quebec. A strong cold front trailing the low sliced through western New York trailing it and ushering in very gusty winds.	Although the County was impacted, the village did not report damages
October 27- November 1, 2019	Lakeshore Flooding DR-4472 NY	Yes	A strong cold frontal passage near midday flipped what was southeast flow around to the southwest abruptly and drove a lake seiche onto the eastern shores of Lake Erie. The combination of higher than normal water level on Lake Erie and the increase in water led to flooding along the New York shoreline of the lake for a short period. Lake Erie peaked at Buffalo Harbor at 9.64 feet above low water datum. Water from the lake inundated Canalside in Downtown Buffalo and Route 5 at Hoover Beach. It also damaged the new pier at Dunkirk.	Although the County was impacted, the village did not report damages
October 31- November 1, 2019	High Wind DR-4472 NY	Yes	A deepening area of consolidated low pressure tracked from the north shoreline of Lake Erie to Toronto, and then along the northern shoreline of Lake Ontario Thursday evening, October 31st. This system brought recorded breaking Halloween rains to our region, damaging wind gusts, a large Lake Erie seiche, a smaller Lake Ontario seiche, and river flooding in the North Country	Although the County was impacted, the village did not report damages
November 27, 2019	Lakeshore Flooding	No	Strong low pressure moved from the central Great Lakes to north of Lake Ontario. The trailing cold front entered western New York early in the afternoon of 11/27 and swept through later that evening. While the track of the surface low was very favorable, the event was atypical in that the surface low reached its maximum intensity across the western Great Lakes and filled quite rapidly by the time it passed to our north. Despite the weakening low, soundings were favorable for a warning criteria wind event across western New York, with 50-60 knots for a 3-5 hour period in the cold advection behind the cold front.	Although the County was impacted, the village did not report damages



Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
January 12, 2020	Lakeshore Flooding	No	Post-frontal winds mixed well behind an early morning cold front. This brought wind gusts across much of western New York, especially along the Lake Erie shore, Buffalo, and Batavia area that exceeded 65 mph. Widespread non-thunderstorm wind damage was reported in all lakeshore counties from Monroe westward along Lake Ontario and all counties bordering Lake Erie, as well. High winds drove a seiche on Lake Erie, resulting in water flooding Route 5 in Hamburg, additional damage to the Dunkirk Pier and break wall, damage to the Buffalo break wall, and flooding in Canalside in downtown Buffalo. The seiche peaked the water level in Buffalo at 9.85 feet above low water datum.	Although the County was impacted, the village did not report damages
January 18, 2020	Lakeshore Flooding	No	A relatively deep, progressive mid-level trough crossed southern Ontario and the Lower Great Lakes Saturday night and early Sunday, January 18-19. The associated weak surface low tracked across southern Ontario in the process with widespread mixed synoptic precipitation eventually giving way to disorganized lake snows by daybreak Sunday. As the cold air deepened and the cap rose to nearly 10,000 feet, multiple bands of moderate to occasionally heavy lake snow became established east of the lakes.	Although the County was impacted, the village did not report damages
2020-21	COVID 19 - EM 3504	Yes	National Pandemic that affected the entire nation, including the Village of Orchard Park and Erie County	Business closings, social distancing, masking, and numerous deaths reported.

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 Section 5.0 (Risk Assessment) of this plan have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Village of Orchard Park’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 Section 5 (Risk Assessment) of the plan. The ranking process involves an assessment of the likelihood of occurrence for each hazard, along with its potential impacts on people, property, and the economy as well as community capability and changing future climate conditions. This input supports the mitigation action development to target those hazards with highest level of concern.





As discussed in Section 5.3 (Hazard Ranking), each participating jurisdiction may have differing degrees of risk exposure and vulnerability compared to Erie 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 Village of Orchard Park. The Village of Orchard Park has reviewed the county hazard risk/vulnerability risk ranking table as well as its individual results to reflect the relative risk of the hazards of concern to the community.

The village had no edits to the following hazard rankings.

**Table 9.38-15. Hazard Ranking Input**

Coastal Erosion	Cyber Attack	Earthquake	Expansive Soils	Extreme Temperature	Flood	Hazardous Materials
Low	Medium	Low	Low	Medium	Low	Low
Landslide	Pandemic	Severe Storm	Severe Winter Storm	Utility Failure	Wildfire	
Low	Medium	High	High	High	Low	

Note: The scale is based on the hazard rankings established in Section 5.3 and modified as appropriate during review by the jurisdiction

### Critical Facilities

New York State Department of Environmental Conservation (DEC) 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 Special Flood Hazard Area (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, the 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 Hazards United States (HAZUS) – Multi-Hazards (MH) estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.38-16. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action
		1% Event	0.2% Event	
Freemans Dam	Dam	Yes	Yes	004
Green Lake Dam	Dam	Yes	Yes	004

Source: GIS 2021

### Identified Issues

After review of the Village of Orchard Park’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Village of Orchard Park has identified the following vulnerabilities within their community:



- Reduced retention capacity of Freemans Pond is causing upstream problem, backyard flooding and increased creek bank erosion. With increasing intense precipitation due to climate change, the village needs to increase its stormwater control and retention capacity.
- The current DPW system cannot communicate by radio with police, fire and EMS agencies in the village. This slows down the communication and response of the various departments during hazard events and thus time is wasted using analog methods of communication.
- The community activity center does not have a generator. This facility is often used during hazard events as an emergency operations center and needs to be in full operation for the village to allocate resources and respond in a timely manner.
- The Freemans Dam and Green Lake Dam are both located in the 1% annual chance flood area.
- The village does not have an emergency management ordinance. This is out of compliance with the state and federal standard for municipalities and the Village of Orchard Park needs to adopt a model emergency management ordinance.
- Frequent flooding events have resulted in damages to residential properties. These properties have been repetitively flooded as documented by paid NFIP claims.

Specific areas of concern based on resident response to the Erie County Hazard Mitigation Citizen survey include:

- None

### **9.38.8 Mitigation Strategy and Prioritization**

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

#### **Past Mitigation Initiative Status**

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The following table indicates progress on the community's mitigation strategy identified in the 2015 HMP. Actions that are carried forward as part of this plan update are included in the following subsection in its own table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under 'Capability Assessment' presented previously in this annex.



Table 9.38-17. 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)		<ol style="list-style-type: none"> <li>Next Steps Project to be included in 2022 HMP or Discontinue</li> <li>If including action in the 2022 HMP, revise/reword to be more specific (as appropriate).</li> <li>If discontinue, explain why.</li> </ol>
						Cost	Level of Protection	
1	Cleaning of existing storm sewer system; Will flush existing storm sewer systems of silt and debris to correct flooding problems – currently done every 2 years	Flooding	Not Identified	DPW	Ongoing Capability	Cost	-	<ol style="list-style-type: none"> <li>Discontinue</li> <li></li> <li>Ongoing project</li> </ol>
						Level of Protection	-	
						Damages Avoided; Evidence of Success	Decrease in roadway flooding and neighborhood flooding	
2	Rebuild existing storm catch basin; Will rebuild to alleviate restriction caused by broken concrete in catch basin – done on an add needed basis	Flooding	Not Identified	DPW	Ongoing Capability	Cost	-	<ol style="list-style-type: none"> <li>Discontinue</li> <li></li> <li>Ongoing project</li> </ol>
						Level of Protection	-	
						Damages Avoided; Evidence of Success	Decrease in roadway flooding and neighborhood flooding	
3	Stream Channel Mitigation; Will continue to clean stream corridors as needed to reduce flooding and erosion of banks near bridge and culverts	Flooding	Not Identified	DPW	Ongoing Capability	Cost	-	<ol style="list-style-type: none"> <li>Discontinue</li> <li></li> <li>Ongoing</li> </ol>
						Level of Protection	-	
						Damages Avoided; Evidence of Success	-	
4	Update/revise floodplain management ordinances to comply with latest FEMA regulations	Flood	Not Identified	Village Board, Legal	Complete	Cost	Low	<ol style="list-style-type: none"> <li>Discontinue</li> <li></li> <li>Completed</li> </ol>
						Level of Protection	Moderate	
						Damages Avoided; Evidence of Success	Regulatory Compliance	
5	Update/revise floodplain management ordinances to be consistent with potential future new FIRMs	Flood	Not Identified	Village Board, Legal	Ongoing Capability	Cost	-	<ol style="list-style-type: none"> <li>Discontinue</li> <li></li> <li>Ongoing project</li> </ol>
						Level of Protection	-	
						Damages Avoided; Evidence of Success	Ongoing as necessary	



**Completed Mitigation Initiatives Not Identified in the Previous Mitigation Strategy**

The Village of Orchard Park has identified the following mitigation projects/activities that have also been completed but were not identified in the previous mitigation strategy in the 2015 HMP:

- Cleaning of existing storm sewer system.
- Rebuild existing storm catch basins.
- continue to clean stream corridors as needed to reduce flooding and erosion of banks near bridge and culverts.
- Updating/revising floodplain management ordinances to comply with latest FEMA regulations.
- Update/revise floodplain management ordinances to be consistent with potential future new FIRMs.

**Proposed Hazard Mitigation Initiatives for the HMP Update**

The Village of Orchard Park participated in a mitigation action workshop in June 2021 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.

**Table 9.38-18. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Coastal Erosion				X						X
Cyber Attack				X						X
Earthquake				X						X
Expansive Soils				X						X
Extreme Temperature				X						X
Flood		X	X	X		X		X	X	X
Hazardous Materials				X						X
Landslide				X						X
Pandemic				X						X
Severe Storm		X		X	X	X				X
Severe Winter Storm				X						X
Utility Failure		X		X	X	X				X
Wildfire				X						X

Note: Section 6 (Mitigation Strategy) provides for an explanation of the mitigation categories.

**Table 9.38-19** summarizes the comprehensive range of specific mitigation initiatives the Village of Orchard Park would like to pursue in the future to reduce the effects of hazards. Some of these initiatives may be previous actions carried forward for this plan update. These 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. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table below 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 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 your actions as ‘High’, ‘Medium’, or ‘Low.’ The table below summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.38-20 provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.



Table 9.38-19. 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
2022-Village of Orchard Park - 001	Freemans Pond Dredging and Stream Rehabilitation Project	1,2	Flood	<p><b>Problem:</b> Reduced retention capacity of Freemans Pond is causing upstream problem, backyard flooding and increased creek bank erosion. With increasing intense precipitation due to climate change, the village needs to increase its stormwater control and retention capacity.</p> <p><b>Solution:</b> Clear Freeman Pond of debris and sediment and increase the pond size to increase overall capacity. Additional bank stabilization will also need to be conducted to reduce flooding and water overflow, as well as erosion.</p>	Yes	Yes	2-3 Years	Village Engineer and DEC	High	High	Municipal Budget, Clean Water Act Section 604(b) Water Quality Planning Grants, Water Quality Improvement Project (WQIP) Program, NYS DEC Climate Smart Communities Grant Program	High	NSP	NR
2022-Village of Orchard Park - 002	Upgrade communication channels for Highway, Sewer and Village DPW	All	All	<p><b>Problem:</b> The current DPW system cannot communicate by radio with police, fire and EMS agencies in the village. This slows down the communication and response of the various departments during hazard events and thus time is wasted using analog methods of communication.</p> <p><b>Solution:</b> Obtain new channels, and install new radios in all Town and Village vehicles. The system shall be the most modern and up to date system that existing municipalities use in</p>	No	No	1 year	Town Highway Department, OEM, Fire and Police; Village DPW	Moderate	High	Assistance to Firefighters Grant Program, Department of Homeland Security Grant Program (HSGP), The New York State Emergency Services Revolving Loan, Volunteer Fire Assistance Grants	High	EAP	ES





Table 9.38-19. 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
				the region. The town and village OEM, Fire Services, and Board shall conduct some preliminary research to determine the exact cost to install this new system. Potentially a SEQR would need to be conducted to determine any adverse environmental impacts on any infrastructure that would be built as a result.										
2022-Village of Orchard Park - 003	Community Activity Center - Generator	1,2	Severe Storm, Utility Failure	<p><b>Problem:</b> The community activity center does not have a generator. This facility is often used during hazard events as an emergency operations center and needs to be in full operation for the village to allocate resources and respond in a timely manner.</p> <p><b>Solution:</b> Install a generator for the entire building. The first step for this would be to have the facility operator determine the existing capacity needs for the facility in order to determine the generator size needed. Once the size is determined, the village shall work with the facility operator to apply for HMGP/ BRIC funding and hire a contractor to install the generator. The location for the new generator shall be in</p>	Yes	No	2 years	Town OEM and Village, Community Center Operator, Municipal Engineers	\$800,000	High	HMGP, Municipal Budget	High	SIP	PR, PP



Table 9.38-19. 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
				a place that is safe from any hazard event.										
2022-Village of Orchard Park - 004	Dam Retrofitting	1,2	Flood	<p><b>Problem:</b> The Freemans Dam and Green Lake Dam are both located in the 1% annual chance flood area.</p> <p><b>Solution:</b> While it is not unusual for the dam to be located in a floodplain, it is necessary to conduct additional assessment and mitigation measures to make sure the dam is not vulnerable to operation failure. The Village engineer shall conduct an assessment of the dam and determine if the facility is retrofitted based on FEMA guidelines to withstand severe storms. If not, the village will apply for mitigation funding, accordingly.</p>	Yes	No	2 years	Village DPW	Moderate	High	HMGP	High	SIP	SP
2022-Village of Orchard Park - 005	Emergency Management Ordinance Adoption	All	All	<p><b>Problem:</b> The village does not have an emergency management ordinance. This is out of compliance with the state and federal standard for municipalities and the Village of Orchard Park needs to adopt a model emergency management ordinance.</p> <p><b>Solution:</b> The village shall develop and adopt an emergency management ordinance based on the New York Homeland Security and</p>	No	No	1 year	Village Board of Trustees	Low	Moderate	Municipal Budget.	High	LPR	ES



Table 9.38-19. 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
				Emergency Services template/ model. Once the policy has been agreed upon, the village board shall adopt the policy for the municipality.										
2022-Village of Orchard Park - 006	Residential Property Flood Mitigation.	1	Flood	<p><b>Problem:</b> Frequent flooding events have resulted in damages to residential properties. These properties have been repetitively flooded as documented by paid NFIP claims.</p> <p><b>Solution:</b> The village will work with the county to conduct outreach to flood-prone property owners, including RL/SRL property owners and provide information regarding mitigation alternatives. After preferred mitigation measures are identified, the county will collect required property-owner information and develop a FEMA grant application and BCA to obtain funding to implement acquisition/ purchase/ moving/ elevating residential homes in the flood-prone areas that experience frequent flooding (high risk areas).</p>	No	No	Within 3 years	Village Code Enforcement	TBD per cost and number of properties to be purchased.	Remove residents and homes from the flood threatened homes	BRIC, HMGP, FMA, cost share by homeowners	High	SIP	PP
2022-Village of Orchard	Permanent Housing Location	1,2	All	<p><b>Problem:</b> The Village of Orchard Park currently does not have any official permanent housing location within the village. Given the</p>	No	Yes	5 years	Village of Orchard Park OEM	High	Permanent Housing	HMGP, BRIC	High	SIP	SP



**Table 9.38-19. 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
Park - 007				<p>village has limited land and does not have any specific place for the repetitive housing relocation, the village needs identify new land for this effort.</p> <p><b>Solution:</b> The village will conduct an assessment of existing sites across the village that are best suited for permanent housing relocation. These sites should have access to all utilities. The village would then work with the land owner to acquire the property, if not yet owned by the village. The village would then need to apply for FEMA funding to acquire the property and purchase. Additional improvements to the site are TBD and will be determined once the site is identified by the village board and DPW, and OEM</p>										

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
- FEMA Federal Emergency Management Agency

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.

Benefits:





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

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



**Table 9.38-20. 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
2022-Village of Orchard Park -001	Freemans Pond Dredging and Stream Rehabilitation Project	1	1	1	1	1	1	-1	1	1	1	0	1	1	1	11	High
2022-Village of Orchard Park -002	Upgrade communication channels for Highway, Sewer and Village DPW	1	1	1	0	1	1	-1	1	1	0	1	1	1	1	10	High
2022-Village of Orchard Park -003	Community Activity Center - Generator	1	1	1	1	1	1	-1	0	1	1	1	1	1	1	11	High
2022-Village of Orchard Park -004	Dam Retrofiring	1	1	1	1	1	1	0	1	1	0	0	0	1	1	10	High
2022-Village of Orchard Park -005	Emergency Management Ordinance Adoption	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High
2022-Village of Orchard Park -006	Residential Property Flood Mitigation.	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High
2022-Village of Orchard Park -007	Permanent Housing Location	1	1	1	1	1	1	0	1	1	1	1	1	1	1	13	High

Note: Refer to Section 6, which conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



### **9.38.9 Action Worksheets**

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The following action worksheets have been developed by the Village of Orchard Park to aid in the submittal of grant applications to support the funding of high priority proposed actions.



Action Worksheet			
<b>Project Name:</b>	Freemans Pond Dredging and Stream Rehabilitation Project		
<b>Project Number:</b>	2022-Village of Orchard Park -001		
<b>Risk / Vulnerability</b>			
<b>Hazard(s) of Concern:</b>	Flood		
<b>Description of the Problem:</b>	Reduced retention capacity of Freemans Pond is causing upstream problem, backyard flooding and increased creek bank erosion. With increasing intense precipitation due to climate change, the village needs to increase its stormwater control and retention capacity.		
<b>Action or Project Intended for Implementation</b>			
<b>Description of the Solution:</b>	Clear freeman pond and increase the pond size to increase overall capacity. Additional bank stabilization will also need to be conducted to reduce flooding and water overflow, as well as erosion,		
<b>Is this project related to a Critical Facility?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
<b>Is this project related to a Critical Facility located within the Special Flood Hazard Area?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect to the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
<b>Level of Protection:</b>	500 year flood	<b>Estimated Benefits (losses avoided):</b>	Flood Loss
<b>Useful Life:</b>	20 years	<b>Goals Met:</b>	1,2
<b>Estimated Cost:</b>	High	<b>Mitigation Action Type:</b>	Natural System Protection
<b>Plan for Implementation</b>			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	1 year once funding secured
<b>Estimated Time Required for Project Implementation:</b>	3 years	<b>Potential Funding Sources:</b>	Municipal Budget, Clean Water Act Section 604(b) Water Quality Planning Grants, Water Quality Improvement Project (WQIP) Program, NYS DEC Climate Smart Communities Grant Program
<b>Responsible Organization:</b>	Village Engineer and DEC	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Hazard Mitigation
<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.
	Build new retention pond	Moderate	No space
	Rehabilitation project	High	Best alternative
<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>			



Evaluation and Prioritization		
<b>Project Name:</b>	Freemans Pond Dredging and Stream Rehabilitation Project	
<b>Project Number:</b>	2022-Village of Orchard Park -001	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	This project protects life
Property Protection	1	This project protects property
Cost-Effectiveness	1	This is the most cost effective based on village's evaluation
Technical	1	There are no technical issues
Political	1	There are no political opposing parties
Legal	1	There are no legal issues
Fiscal	-1	The village does not have the fiscal resources for this
Environmental	1	This has positive impact on the environment
Social	1	This has a positive social impact
Administrative	1	There are no administrative issues
Multi-Hazard	0	This addresses a single hazard
Timeline	1	The designated timeline is feasible
Agency Champion	1	This project is under the responsibility of the DPW
Other Community Objectives	1	Various objectives
<b>Total</b>	11	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	Community Activity Center - Generator		
<b>Project Number:</b>	2022-Village of Orchard Park -003		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Severe Storm, Utility Failure		
<b>Description of the Problem:</b>	The community activity center does not have a generator. This facility is often used during hazard events as an emergency operations center and needs to be in full operation for the village to allocate resources and respond in a timely manner.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Install a generator for the entire building. The first step for this would be to have the facility operator determine the existing capacity needs for the facility in order to determine the generator size needed. Once the size is determined, the village shall work with the facility operator to apply for HMGP funding and hire a contractor to install the generator. The location for the new generator shall be in a place that is safe from any hazard event.		
<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 Special Flood Hazard Area?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect to the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
<b>Level of Protection:</b>	500 year storm	<b>Estimated Benefits (losses avoided):</b>	Continued Operation
<b>Useful Life:</b>	20 years	<b>Goals Met:</b>	1,2
<b>Estimated Cost:</b>	\$800,000	<b>Mitigation Action Type:</b>	Structural and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	6 months once funding secured
<b>Estimated Time Required for Project Implementation:</b>	2 years	<b>Potential Funding Sources:</b>	HMGP, Municipal Budget
<b>Responsible Organization:</b>	OEM and Village, Community Center Operator, Municipal Engineers	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Hazard Mitigation
Three Alternatives Considered (including No Action)			
<b>Alternatives:</b>	<b>Action</b>	<b>Estimated Cost</b>	<b>Evaluation</b>
	No Action	\$0	Problem continues.
	Install Solar	High	Variant based on weather
	Generator	High	Best option
Progress Report (for plan maintenance)			
<b>Date of Status Report:</b>			
<b>Report of Progress:</b>			
<b>Update Evaluation of the Problem and/or Solution:</b>			



Evaluation and Prioritization		
<b>Project Name:</b>	Community Activity Center - Generator	
<b>Project Number:</b>	2022-Village of Orchard Park -003	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
<b>Life Safety</b>	1	This project protects life
<b>Property Protection</b>	1	This project protects property
<b>Cost-Effectiveness</b>	1	This is most cost effective
<b>Technical</b>	1	There are no technical issues
<b>Political</b>	1	There are no political issues
<b>Legal</b>	1	There are no legal complications
<b>Fiscal</b>	-1	The village does not have adequate resources
<b>Environmental</b>	0	This has minimal impact on environment
<b>Social</b>	1	This has positive social impact
<b>Administrative</b>	1	This has no administrative barriers
<b>Multi-Hazard</b>	1	This addresses multiple hazards
<b>Timeline</b>	1	This timeline is feasible
<b>Agency Champion</b>	1	The village OEM
<b>Other Community Objectives</b>	1	Various
<b>Total</b>	11	
<b>Priority (High/Med/Low)</b>	High	