

Village of Parish

Jurisdictional Annex

Village of Parish

1.0 Contacts

The contacts for the Village of Parish regarding this plan are identified as follows:

- Kathryn Perkins – Mayor
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Email: villagemayor@parish-ny.us
- Jackie Murphy –Village Trustee
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- Evelyn Stelmashuck –Village Clerk
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Village Website: <http://www.villageofparish-ny.us/index.shtml>

2.0 Municipal Profile

Population

The 2016 American Community Survey estimated that 488 people live in the Village of Parish. The Village's population has decreased by 4.7% since the 2000 Census population (512) (U.S. Census Bureau, 2016).

Location

The Village of Parish is located in the southwestern portion of the Town of Parish, in central Oswego County.

Brief History

The Village of Parish was formed in 1803 from Scriba's patent. The area was originally occupied by the Iroquois. Post-European settlement, logging was the main industry in the Town, and a number of sawmills were in operation during the late 1800s. Water power was especially important in industrial development, as the Town was situated along the Little Salmon River. The Syracuse Northern Railroad was constructed in Parish in 1870 and 1871 which helped to spur development. By the 1870s, agriculture became the dominant industry, particularly crops (potatoes, apples) and dairy farming. The Syracuse Northern Railroad was constructed in Parish in 1870 and 1871 which helped to spur development (Swartz, White, and Clerkin, 2016).

Governing Body

The Village of Parish is governed by a five (5) member Village Board, led by the Mayor.

Future Growth

The Village of Parish is seeking stable growth. Since the last County HMP (2012), Biospherix, a scientific company, became established in the Village. This company purchased the previous Parish Elementary School and recently completed a building addition for storage and shipping. Biospherix is not located in a mapped floodplain or other particularly hazard-prone area.

3.0 Hazard Vulnerabilities and Ranking

3.1. Risk Assessment

The following scale was developed to determine hazard vulnerability for the jurisdiction. Each event was given a ranking from one (1) through three (3) for the severity of impact based on extent, onset warning, impact in damages and injury, and frequency: three (3) represents the greatest impact (large area, no warning, severe damage, and regular occurrence); two (2) represents moderate impact (several locations, hours of warning, moderate damage, and infrequent occurrence); and one (1) represents low impact (one location, days of warning, minor damage, and rare occurrence). The scores for each of these four (4) categories were used to assign an overall vulnerability for each hazard, as follows:

- Low: 5 or less
- Moderate: 6 to 8
- High: 9 or greater

Table 1: Hazard Vulnerability by Event						
Hazard Event	Extent	Onset	Impact (Damages and Injury)	Frequency	Vulnerability Rank	Jurisdiction Rank
Ice Storm	3	1	3	2	High	1
Severe Thunderstorm, Wind, or Tornado	3	1	3	3	High	2
HAZMAT Transit	1	3	2	1	Moderate	3
Transportation Accident	1	3	2	2	Moderate	4
Severe Winter Storm	3	1	2	3	High	5
Wildfire	1	3	1	1	Moderate	6
Coastal Storm	3	1	2	2	Moderate	7
Fire	1	3	2	2	Moderate	8
Utility Failure	3	3	2	1	High	9
Epidemic	2	1	2	1	Moderate	10
HAZMAT Fixed	1	3	2	1	Moderate	11
Extreme Temps	3	1	1	3	Moderate	12
Drought	3	1	2	1	Moderate	13
Terrorism	1	3	2	1	Moderate	14
Flood	1	2	2	3	High	15
Earthquake	2	3	2	1	Moderate	16
Radiological Fixed Site	1	3	2	1	Moderate	17
Dam Failure	1	3	1	1	Moderate	18
Ice Jam	1	2	2	2	Moderate	19

3.2. Critical Facilities

Critical facilities are defined as any facility that is critical for emergency response or that requires special emergency response in the event of hazardous incidents as identified by the Village of Parish. The tables below denote the number and locations of critical facilities within the Village.

Table 2: Critical Infrastructure in the Village of Parish			
Facility Name	Address (Street, Village/Village/Hamlet)	Parcel Located in Floodplain	Structure Located in Floodplain
Transportation Network			
Evacuation Routes	-	-	-
Bridges	-	-	-

Table 2: Critical Infrastructure in the Village of Parish			
Facility Name	Address (Street, Village/Village/Hamlet)	Parcel Located in Floodplain	Structure Located in Floodplain
Municipal Services			
Oswego County Highway Garage	Dill Pickle Alley, Parish, NY 13131	No	No
Parish Highway Dept.	Dill Pickle Alley, Parish, NY 13131	No	No
Parish Municipal Office	2938 E. Main Street, Parish, NY 13131	100YR	No
Community Services			
Gulf Gas Station	2886 E Main St, Parish, NY 13131	No	No
Mirabito Gas Station	2877 E Main St, Parish, NY 13131	No	No
Parish Post Office	2963 E Main St, Parish, NY 13131	No	No
Educational, Shelter and Evacuation Facilities			
Presbyterian Church	814 Rider St, Parish, NY 13131	No	No
United Methodist Church	418 S Railroad St, Parish, NY 13131	No	No
Emergency and Medical Facilities			
Parish Volunteer Fire Co. Inc.	16 Union St, Parish, NY 13131	No	No
Parish Health Services Center	10 Carlton Dr, Parish, NY 13131	No	No
Industrial or Major Commercial Facilities			
Biospherix, Ltd.	25 Union St, Parish, NY 13131	No	No
Miller Lumber	3015 W Main St, Parish, NY 13131	No	No
Public Utilities			
Cell Tower	off of NY-69	No	No
National Grid property	off of CR 38	No	No
Verizon property	off of Church St	No	No
Wastewater Treatment Plant	Cook Rd Parish NY 13131	100YR	No
Dams			
Parish Dam	Little Salmon River	-	-

4.0 Priority Hazard Events

The following sections detail the priority hazard events identified by the jurisdiction. Additional information about County-selected hazards including frequency, history, and severity is included within Section 5.0 of the main body of the Plan.

The probability of climate-related hazard events is expected to increase in the future within the Village of Parish. Climate change is expected to cause an increase in weather volatility, rising sea level, and greater temperature extremes. Properties along the Little Salmon River and its tributaries are likely to experience increased flooding occurrences.

Past occurrences of hazard events are indicated in their respective profiles below. Some hazards may not have locally available documentation of past occurrence, but were included in this annex for future mitigation planning consideration.

4.1 Natural Hazards

Natural hazards selected to be profiled for the Village of Parish are described in detail below.

4.1.1 Ice Storm

For a description of this hazard, please see Section 5.1.3 of the main body of the Plan.

Hazard Vulnerability

Historically, ice storms have occurred about once every seven (7) years in Oswego County. These storms typically affect most or all of the County. The entire Village of Parish is susceptible to damages from an ice storm event.

Historical Hazard Occurrences and Damage Estimates

The Village of Parish was affected by the three (3) county-wide ice storm events recorded by the NCDC, which are described in Section 5.1.3 of the main body of the Plan. No damage estimates or records related to ice storms are reported specifically for the Village of Parish.

Future Potential Impacts

The Village of Parish will continue to experience ice storm events in the future, as will the rest of Oswego County. The Parish Highway Dept. completes tree maintenance within Village road right of ways to minimize potential damages to overhead utility lines, which is common during ice storms. Private utility right of ways are generally maintained by the individual utility companies.

4.1.2 Severe Thunderstorm, Wind, or Tornado and Coastal Storm

For a description of severe thunderstorm, wind, or tornado events, please see Section 5.1.1 of the main body of the Plan. Coastal storms can cause increases in tidal elevations (called storm surge), wind speed, and erosion, caused by both extratropical events and tropical cyclones. Extratropical events including Nor'easters and severe winter low-pressure systems are more applicable to Oswego County. These non-tropical storms produce strong winds and heavy rain or snow, and can last for several days and affect a very large area.

Hazard Vulnerability

The entire Village is susceptible to damages from a severe thunderstorm, wind, or tornado or coastal storm event. Fallen trees from severe winds can damage overhead utility lines, resulting in power outages. In addition, these events are likely to result in damages to private and public infrastructure and property.

Historical Hazard Occurrences and Damage Estimates

The NCDC reports 101 severe storm events reported within Oswego County. No records are reported specifically for the Village of Parish, however, the Village was likely impacted by records specified for the Town of Parish. The NCDC reports fifteen (15) specific severe storm events that occurred in the Town of Parish between 1994 and 2017 (frequency of about once every one to two years). Three (3) of these records were hail events (2 occurred on the same date), and twelve (12) were thunderstorm winds. Estimated damages for the Town of Parish ranged from \$5,000 to \$10,000 per event (Table 3). Actual damages were likely greater than those estimated by the NCDC.

Table 3: Severe Storm Event Records for the Town of Parish				
Event Type	Date	Magnitude	Estimated Property Damage	Estimated Crop Damage
Thunderstorm Wind	6/29/1994	-	\$5,000	-
Thunderstorm Wind	6/27/2002	50 kts	\$10,000	-
Thunderstorm Wind	7/29/2002	50 kts	\$10,000	-
Thunderstorm Wind	8/29/2003	50 kts	\$10,000	-
Hail	4/29/2004	1 inch	\$10,000	-
Thunderstorm Wind	9/29/2005	50 kts	\$10,000	-
Thunderstorm Wind	7/3/2006	50 kts	\$10,000	-
Thunderstorm Wind	7/9/2007	50 kts	\$10,000	-
Thunderstorm Wind	5/16/2009	50 kts	\$10,000	-
Hail	5/29/2012	1 inch	\$5,000	\$5,000
Hail	5/29/2012	0.88 inches	-	-
Thunderstorm Wind	7/19/2013	50 kts	\$10,000	-
Thunderstorm Wind	6/20/2016	50 kts	\$10,000	-
Thunderstorm Wind	10/17/2016	50 kts	\$10,000	-
Thunderstorm Wind	8/22/2017	50 kts	\$8,000	-
Total			\$128,000	\$5,000

Future Potential Impacts

Severe storms are a common event in the Village of Parish and will continue to occur in the future. The frequency and magnitude of severe storm events may increase due to climate change.

4.1.3 Severe Winter Storm

For a description of this hazard, please see Section 5.1.4 of the main body of the Plan.

Hazard Vulnerability

Severe winter storms typically occur about eleven (11) times annually in Oswego County. These storms typically affect most or all of the County. The entire Village of Parish is susceptible to damages from a severe winter storm event. The Village Highway Dept. clears Village streets during heavy snow events, and the Village works with the Oswego County Highway Dept. and NYS Dept. of Transportation for clearing of other roadways. Roadway safety is a major concern during severe winter storm events.

Historical Hazard Occurrences and Damage Estimates

The Village of Parish has been affected by a number of county-wide severe winter storm events, described in Section 5.1.4 of the main body of the Plan. Severe winter storms typically occur several times annually in Oswego County. These storms typically affect most or all of the County. The NCDC does not report any winter storm records or damage estimates specific to the Village of Parish.

Future Potential Impacts

The Village of Parish will continue to experience severe winter storm events in the future. Severe winter storms are common throughout Oswego County and occur about eleven (11) times annually.

4.1.4 Wildfire

A wildfire is an uncontrollable combustion of trees, brush, or grass involving a substantial land area which may have the potential for threatening human life and property. Wildfires often begin unnoticed and spread quickly and are usually signaled by dense smoke that fills the area for miles around. In Oswego County, past occurrences of wildfires were caused by open burning.

Hazard Vulnerability

The Village of Parish is moderately susceptible to a wildfire. More than half of the Village consists of forested land, and the Village also has several agricultural properties. A wildfire event could impact a small amount of the Village and would come with little to no warning. The Village of Parish experienced 0.9 to 1.3 wildfires per square mile between 2003 and 2017 (see Figure 5.9, Appendix A of the main body of the report).

Historical Hazard Occurrences and Damage Estimates

There are no historical records or damage estimates of wildfires within the Village of Parish. Previous wildfire events within Oswego County were generally caused by open burning during dry weather. The NYSDEC implemented a statewide open burn ban in 2010, which has helped reduce the number of wildfires throughout the state. Wildfires generally do not cause significant property damages as they tend to occur in undeveloped portions of the County. Crop damage is more likely to occur. However, the jurisdiction or County would likely incur significant costs associated with firefighting and other emergency response needs.

Future Potential Impacts

The Village of Parish is largely undeveloped and remains susceptible to wildfires, though the risk is relatively low. The statewide open burn ban is expected to remain in effect, which lessens the risk of wildfires.

4.1.5 Extreme Temperatures

For a description of this hazard, please see Section 5.1.5 of the main body of the Plan.

Hazard Vulnerability

Historically, extreme cold events have occurred about every other year in Oswego County. These events typically affect most or all of the County. The entire Village of Parish is susceptible to an extreme temperature event. Vulnerable populations, including people under the age of five (5) or over the age of sixty-five (65), along with low income populations and people with health problems are most vulnerable. The Village was determined to have a moderate vulnerability to extreme temperature events due to their widespread nature, and relatively common occurrence.

Historical Hazard Occurrences and Damage Estimates

The Village of Parish was affected by the county-wide extreme cold events recorded by the NCDC, which are described in Section 5.1.5 of the main body of the Plan. No damage estimates or records related to extreme temperature events are reported specifically for the

Village of Parish. Extreme temperature events are unlikely to cause significant property damage, though crop damages are possible depending on the time of year. Significant injuries or loss of life due to extreme temperature events are possible, but in small numbers.

Future Potential Impacts

The Village of Parish will continue to experience extreme temperature events in the future, as will the rest of Oswego County. Extreme temperature events are likely to increase in frequency due to climate change. Rural communities such as the Village of Parish are generally used to extreme temperature events. The Village has emergency shelters established, several of which are designated warming stations that residents may use during extreme cold events.

4.1.6 Drought

Droughts are extended periods of time with unusually low precipitation, which lead to a limited water supply and crop losses. Drought periods progress through stages and drought intensity may vary considerably during the drought period. The time of occurrence and duration can cause significant variations in drought impacts. Droughts are categorized by the U.S. Drought Monitor in five (5) levels based on severity:

- Category D0: Abnormally dry conditions; may lead to a drought.
- Category D1: Moderate drought; some damages to crops and pasture may occur, water levels are low.
- Category D2: Severe drought; crop losses and water shortages are likely to occur.
- Category D3: Extreme drought; major crop losses and widespread water shortages.
- Category D4: Exceptional drought; extreme crop losses and water emergencies result.

Hazard Vulnerability

The entire Village of Parish is moderately susceptible to a drought due to the widespread extent and potential to cause moderate damages. Agricultural areas and private wells would experience the most significant impacts. Village and Village residents rely on public wells and are susceptible to low water yields during a drought. The Village and Town are currently looking to expand public water service to portions of the Village, which is included as a mitigation action in this plan update.

Historical Hazard Occurrences and Damage Estimates

There are no drought records specifically reported for the Village of Parish. The Village was impacted by a drought in the late summer and fall of 2016, which affected the entire County.

Future Potential Impacts

The entire Village of Parish remains susceptible to a drought event. While drought events only occur occasionally, they are likely to increase in frequency and magnitude in the future due to climate change.

4.1.7 Flood

For a description of this hazard, please see Section 5.1.2 of the main body of the Plan.

Hazard Vulnerability

The Village is drained by the North Branch Little Salmon River and South Branch Little Salmon River and their tributaries, which drain to the Salmon River. FEMA's Flood Insurance Mapping Program designates areas that are at risk for flooding. Low flood risk are areas unlikely to flood, moderate risk are areas within the 500-year floodplain (0.2% likely to flood in any given year), and high risk are areas that frequently flood, up to the 100-year flood risk zone (1% likely to flood in any given year). Table 4 summarizes the amount of land within the Village of Parish that is located within 100-year and 500-year floodplains and low-risk flood areas.

Table 4: Summary of Areas in Floodplains (Source: FEMA DFIRM 2013)			
Village of Parish Total Area	Percent of Total Area		
	100-Year Floodplain	500-Year Floodplain	Area of Minimal Flood Hazard
1,006 acres	5.11%	0.00%	94.89%

Table 5 below summarizes the value of properties in the Village of Parish that are located within the 100-year floodplain and is categorized by land use type. This table was derived from FEMA floodplain mapping and parcel data from the Oswego County Real Property Tax Office.

Table 5: Parcels within to 100-year Flood Events and Their Estimated Structure Values				
Type of Structure	# Parcels in 100-Year Floodplain	Approx. Structure Value* in 100-Year Floodplain	# Parcels in 500-Year Floodplain	Approx. Structure Value* in 500-Year Floodplain
Agricultural	0	-	0	-
Commercial	5	\$825,900	0	-
Community Services	1	\$370,800	0	-
Industrial	0	-	0	-
Residential	21	\$1,705,900	0	-
Utility	0	-	0	-
Other**	11	\$20,200	0	-
Total	38	\$2,922,800	0	-
*Structure Value estimated by subtracting parcel's Land Assessed Value from Total Assessed Value (Oswego County Real Property Tax Office, 2018)				
**Includes parcels classified as vacant; recreational; and wild forest/conservation land/parks.				

Historical Hazard Occurrences and Damage Estimates

According to NOAA's Storm Events Database, in the past fifteen (15) years, no flood records specifically impacted the Village of Parish. However, the Village was impacted by a record listed for the Town of Parish. This event occurred on September 30, 2010 and involved localized flooding caused by heavy precipitation that occurred the day before (3.2 inches fell overnight). Several roads were closed in the Village, and the NCDC estimated total damages for this event in the Town of Parish to be \$8,000. The Village has also been impacted by numerous county-wide events described in Section 5.1.2 of the main body of the Plan.

As described in Section 6.0 of this annex, no NFIP claims have been filed or paid in the Village of Parish, and there are no repetitive loss properties in the Village of Parish.

Future Potential Impacts

Properties along streams throughout the Village, including the Little Salmon River and its tributaries are vulnerable to flooding. About 5.11% of the Village of Parish is within a mapped 100-year floodplain. Two (2) critical facilities are located on a parcel that intersects a 100-year floodplain but the facility structures are not within the floodplain (Table 2).

4.1.8 Earthquake

An earthquake is a sudden motion or trembling that is caused by a release of strain accumulated within or along the edge of Earth's tectonic plates. They usually occur without warning and after just a few seconds can cause massive damage and extensive casualties. The most seismically active regions in New York State are in the Adirondacks and near the Canadian border along the St. Lawrence River followed by the New York City and the Buffalo, Niagara, and Attica regions.

Hazard Vulnerability

Earthquakes are a rare occurrence, and there are no records of earthquakes originating in Oswego County. An inactive fault line runs underneath the county. Earthquakes originating in other portions of the state have been felt in Oswego County. The Village of Parish is moderately susceptible to a potential earthquake event, due to the lack of warning and moderate extent and damages associated with this hazard.

Historical Hazard Occurrences and Damage Estimates

There are no historical records of earthquakes occurring in the Village of Parish. The Town of Amboy, which borders the Town of Parish to the east, experienced damages to their fire station due to an earthquake originating in Au Sable Forks, NY on April 20, 2002. An earthquake has the potential to cause hundreds of thousands of dollars in damages.

Future Potential Impacts

The Village of Parish is susceptible to future earthquake events affecting Oswego County. However, earthquakes are expected to remain a rare event in Oswego County and pose a very low risk to the County and its jurisdictions.

4.1.9 Ice Jam

An ice jam is described as a large accumulation of ice in rivers or streams that interrupts the normal flow of water and often leads to flooding conditions and/or damage to nearby structures. Ice jam events typically occur from the early winter to late spring months and are often short-lived and often affect only a localized reach or area of a body of water. Freeze-up jams occur when waterbodies are beginning to freeze over during the early winter and do not typically result in significant floods. Break-up jams typically occur later in the spring when built up ice breaks or moves as it begins to melt or when water levels rise due to precipitation or snowmelt. Break-up jams often result in flooding and property damages.

Hazard Vulnerability

In the Village of Parish, an ice jam could occur along the Little Salmon River and its tributaries (Figure 1). Areas that may incur damages due to an ice jam generally include properties within a 100-year or 500-year floodplain, as shown in Table 4 in Section 4.1.3. In the Village of Parish, these areas primarily consist of residential properties and vacant land.

Historical Hazard Occurrences and Damage Estimates

No ice jam records are available for the Village of Parish. The Village elected to profile this hazard for future planning considerations.

Future Potential Impacts

Tributaries to the Salmon River will continue to pose risks of ice jams in the Village of Parish. In the future, ice jams may occur more frequently due to climate change.

4.2 Technological Hazards

Technological hazards selected to be profiled by the Village of Parish are described in detail below.

4.2.1 HAZMAT in Transit

Hazard Vulnerability

Hazardous Materials (HAZMAT) in Transit events involve the uncontrollable release of flammable, toxic, corrosive, chemically instable, or combustible materials during transport that can damage infrastructure, pollute the environment, and/or cause injuries or death. The Village of Parish has two (2) major transportation routes, Interstate 81 and State Route 69. Interstate 81 runs north to south in the western portion of the Village. State Route 69 runs east to west through the southern portion of the Village. In addition, the CSX Railroad is located within the southwestern corner of the Village. This railroad is a freight line that may carry hazardous materials. A transportation accident involving hazardous materials on these roadways, or a train derailment could impact a portion of the Village of Parish. School buses also travel along these main roadways, and a hazardous materials accident involving buses would be especially impactful. The Village also experiences heavy traffic associated with seasonal visitors such as snowmobilers.

Historical Hazard Occurrences and Damage Estimates

There are no specific records of HAZMAT in transit events in the Village of Parish. This hazard has been documented in other portions of the County (see main body of this plan update

for details). However, the Village of Parish elected to include this hazard due to the moderate risk posed by Interstate 81, State Route 69, and the CSX Railroad which intersect the Village.

Future Potential Impacts

Although HAZMAT in transit events are infrequent, the Village remains susceptible to future HAZMAT incidents along Interstate 81, State Route 69, and the CSX railroad.

4.2.2 Transportation Accident

Hazard Vulnerability

For the purposes of hazard mitigation, a transportation accident is defined as an accident on land, water, or in the air resulting in mass casualties or a substantial loss of property. The Village of Parish has two (2) major transportation routes, Interstate 81 and State Route 69. Interstate 81 runs north to south in the western portion of the Village. State Route 69 runs east to west through the southern portion of the Village. These roadways are heavily travelled by trucks and there is potential for major accidents to occur, especially as a result of poor road conditions during a winter storm or ice storm. A transportation accident on these roadways has the potential to impact a portion of the Village of Parish.

Historical Hazard Occurrences and Damage Estimates

While minor vehicular accidents are relatively common throughout the County, there are no specific records of major transportation accidents in the Village of Parish (accidents involving mass casualties or substantial loss of property). The Village elected to profile this hazard due to the increased risk of this hazard occurring along major transportation routes (Interstate 81 and State Route 69).

Future Potential Impacts

Major transportation accidents are infrequent, but the Village remains susceptible to future incidents along Interstate 81 and State Route 69, particularly as a result of natural hazards such as a severe winter storm or ice storm. Transportation accidents do not pose a large risk to infrastructure, however, they are likely to cause injuries or loss of life. Maintaining roadway safety and clearly designating evacuation routes can aid in prevention of transportation accidents.

4.2.3 Fire

Hazard Vulnerability

The Village of Parish had a moderate vulnerability ranking for fires. These events tend to be more localized, affecting one to several structures at a time. However, there is little to no

warning and substantial structural damages and injuries or deaths are likely to occur. The central portion of the Village, which is most densely developed, would be the most vulnerable area for a fire event.

Historical Hazard Occurrences and Damage Estimates

Structural fires occur occasionally within the Village, but no specific records are available. Generally these fires cause significant damages to one property and have the potential to cause serious injuries or loss of life in small numbers.

Future Potential Impacts

The Village of Parish is largely undeveloped. The developed (central) portion of the Village are most susceptible to structure fires.

4.2.4 Utility Failure

Hazard Vulnerability

A utility failure involves the loss of electricity, natural gas supply, phone service, or water supply as a result of an internal system failure. While utility failures are often associated with natural hazard events, this hazard on its own does not include loss of utility access due to other disaster events. The Village of Parish primarily has overhead utility lines, including electric, phone, and cable networks. A utility failure could impact the developed portion of the Village. The Village's vulnerability to utility failures was determined to be high due to the widespread extent and fast onset of a utility failure.

Historical Hazard Occurrences and Damage Estimates

The Village of Parish was impacted by a widespread electricity failure in 2003 that impacted much of the northeastern U.S., which resulted in power outages for about one (1) day. No specific utility failure records are available for the Village itself. The Village is more likely to experience utility failures associated with a severe storm, ice storm, or severe winter storm than a purely technologically-caused utility failure.

Future Potential Impacts

The Village will remain susceptible to utility failures in the future. However, the Village is more likely to encounter utility failures due to a natural hazard event than this hazard occurring on its own.

4.2.5 Epidemic

Hazard Vulnerability

Epidemics are defined as an outbreak of disease to an unusually large number of individuals or proportion of the population. Epidemics may include both human and animal illnesses. The Village of Parish was determined to have a low vulnerability risk for an epidemic event, since it has a relatively long onset, very low frequency, low damage potential, and may impact a moderate amount of the Village's population. The most vulnerable populations include young children under the age of (5), older adults over the age of (65), and those with existing medical conditions.

Historical Hazard Occurrences and Damage Estimates

There are no historical occurrences or impact estimates of epidemics specific to the Village of Parish. However, the Village elected to include this hazard in order to account for potential widespread illnesses such as influenza.

Future Potential Impacts

The risk of an epidemic occurring in the Village of Parish remains low, but it is possible and could affect a portion of the Village's population.

4.2.6 HAZMAT Fixed Site

Hazard Vulnerability

A fixed-site hazardous materials incident could occur at sites that store petroleum products or other chemicals for industrial or commercial use. The NYSDEC lists eight (8) petroleum bulk storage sites in the Village of Parish (Figure 1). These sites include Biospherix, the Oswego County Highway Garage, Miller Lumber, along with fuel and vehicle service stations. If a large petroleum spill were to occur at any of these locations, nearby properties may need to be evacuated to prevent human exposure and facilitate cleanup.

Historical Hazard Occurrences and Damage Estimates

There are no available records for fixed-site hazardous material events specifically in the Village of Parish. The Village elected to profile this hazard due to the presence of hazardous material storage facilities that store or use hazardous materials.

Future Potential Impacts

The Village remains susceptible to fixed-site hazardous material events, though they are a rare occurrence. Properties close to bulk storage facilities that store petroleum products or chemicals are at the most risk of being affected by a fixed-site hazardous materials incident.

4.2.7 Terrorism

Hazard Vulnerability

Terrorism is defined as the threat or use of violence for political or social gain. Terrorism typically causes community disruption and multiple injuries or deaths. The Village of Parish is moderately susceptible to a terrorist event due to the event's short onset (little to no warning) and moderate potential impact to Village infrastructure or residents.

Historical Hazard Occurrences and Damage Estimates

There are no records of terrorist events in the Village of Parish or Oswego County. The Village elected to profile this hazard for the HMP update to account for future potential impacts.

Future Potential Impacts

With the recent rise in localized terrorism events throughout the country such as shootings in schools and public places, the Village chose to analyze this hazard for the HMP update. However, terrorism remains a low risk for the Village of Parish. The Village primarily consists of rural properties. The Village has some local commercial properties, but does not have any schools or other infrastructure that is likely be the target of a terrorist attack.

4.2.8 Radiological Fixed Site

Hazard Vulnerability

A fixed-site radiological incident could occur at the Exelon Fitzpatrick Nuclear Power Plant or Ninemile Point Nuclear Power Plant which are located in the Village of Scriba, about fourteen (14) miles west of the Village of Parish. An accident at either nuclear plant may affect residents in the Village of Parish.

Historical Hazard Occurrences and Damage Estimates

There are no available records for radiological fixed site events in the Village of Parish or Oswego County. The Village elected to profile this hazard due to the nearby nuclear power plants and potential for numerous injuries or loss of life to occur.

Future Potential Impacts

The Village remains susceptible to radiological fixed-site events, though the risk is low.

4.2.9 Dam Failure

Hazard Vulnerability

Dam failures can be attributed to natural or man-made hazards. The impoundment of large volumes of water poses a threat; the failure of a dam can lead to catastrophic flooding.

The New York State Department of Environmental Conservation (NYSDEC) maintains a database to classify dams based on the event of a failure. Explanations of dam classifications are noted in Table 5.13 (Appendix A of the main body of the plan).

There is one (1) dam in the Village of Parish, the Parish Dam located on the Little Salmon River. This dam is a Class A (low hazard) gravity dam built in 1912.

Historical Hazard Occurrences and Damage Estimates

There are no records of dam failures occurring in the Village of Parish. The Village elected to include this hazard due to the potential for damages to occur should the Parish Dam fail.

Future Potential Impacts

Should the Parish Dam fail, land immediately downstream (including residential and commercial properties) would be susceptible to flooding.

5.0 **Capability Assessment**

5.1 *Planning and Regulatory Capability*

The Village's HMP update will be incorporated into and referenced by future updates of the plans, policies, ordinances, programs, studies, and reports listed in Table 6, below.

Table 6. Planning Mechanisms and Capabilities		
Planning Mechanism	Village of Parish	Notes
Plans		
Comprehensive/Land Use Plan	X	Comprehensive Plan adopted June 16, 2011 (Joint plan with Town of Parish)
Economic Development Plan	X	In place.
Post-disaster Recovery Plan	X	In place.
Watershed Protection Plan	X	In place.

Table 6. Planning Mechanisms and Capabilities		
Planning Mechanism	Village of Parish	Notes
Comprehensive Emergency Management Plan	X	In place.
Policies/Ordinances		
Building Codes	<ul style="list-style-type: none"> • 2010 Residential Code of NYS • 2010 Fire Code of NYS • 2010 Building Code of NYS • 2010 Existing Building Code of NYS • 2010 Energy Conservation Construction Code of NYS • 2010 Plumbing Code of NYS • 2010 Mechanical Code of NYS • 2010 Fuel Gas Code of NYS 	Village Code Enforcement Officer
Zoning Code	X	Last revised July 21, 2011
Subdivision Regulations	X	Adopted.
Property Set-back Ordinance	X	In zoning.
Flood Regulations	X	Adopted.
Stormwater Ordinance	X	Adopted.
Site Plan Review Requirements	X	In place.
Real Estate Disclosure Requirement	X	In place.
Programs		
NFIP Participant	X	Current participant.
Public Education/Awareness Program	X	Fire Dept. responsible
Stream Maintenance Program	X	Highway Dept. responsible
Storm Drainage Maintenance Program	X	Highway Dept. responsible
Mutual Aid Agreements	X	Agreements with the Town of Parish
Studies/Reports		
Hazard Analysis/Risk Assessment	X	2012 Oswego County Hazard Mitigation Plan
Floodplain Maps and/or Studies	X	2013 FEMA Digital Flood Insurance Rate Maps
Staff/Development		
Building Code Official	X	Code Enforcement Officer
Engineer/Public Works Official	X	Village position.
Environmental Conservation Specialist	X	Village position.
Local Floodplain Administrator	X	Code Enforcement Officer
Public Information Official	X	Mayor

5.2 Emergency Communications, Routes, and Shelters

The Village of Parish, along with Oswego County, utilize the HyperReach emergency communications system. Major transportation routes within the Village include Interstate 81 and State Route 69. The Village of Parish has one (1) established emergency shelter:

- Parish Village Gym – 2938 E. Main Street, Parish, NY 13131

The Village Gym is ADA-compliant and can accommodate people with special needs. The Village Gym also has space to accommodate pets.

5.3 Temporary and Permanent Housing Locations

The potential temporary and permanent housing locations listed below were identified for displaced residents in the Village of Parish based on the 2017 NYS Hazard Mitigation Planning Standards. It is noted that formal agreements would need to be established in order to use privately-owned properties. The selected properties are proposed to be shared among the Town and Village of Parish, as they work closely together.

- **Potential Temporary Housing Locations**
 - Merrill Park – off of CR 38, Parish, NY
 - Bass Lake Resort – 132 Crim Rd, Parish, NY 13131
 - APW High School & Elementary School Athletic Fields – 639-640 CR 22, Parish, NY 13131
- **Potential Permanent Housing Location**
 - Merrill Park – off of CR 38, Parish, NY

6.0 National Flood Insurance Program

Long-term mitigation of potential flood impacts can be best achieved through comprehensive floodplain management regulations and enforcement at a local level. The National Flood Insurance Program (NFIP), regulated by FEMA, aims to reduce the impact of flooding on private and public structures by providing affordable insurance for property owners. The program encourages local jurisdictions to adopt and enforce floodplain management regulations in order to mitigate the potential effects of flooding on new and existing infrastructure (FEMA, 2015).

Communities that participate in the NFIP adopt floodplain ordinances. If an insured structure incurs damage costs that are over 50% of its market value, the owner must comply with

the local floodplain regulations when repairing or rebuilding the structure. A structure could be rebuilt at a higher elevation, or it could be acquired and demolished by the municipality or relocated outside of the floodplain. Insured structures that are located within floodplains identified on FEMA's Flood Insurance Rate Maps (FIRMs) may receive payments for structure and content losses if impacted by a flood event.

The NFIP and other flood mitigation actions are important for the protection of public and private property and public safety. Flood mitigation is valuable to communities because it:

- Creates safer environments by reducing loss of life and decreasing property damage;
- Allows individuals to minimize post-flood disaster disruptions and to recover quicker (homes built to NFIP standards generally experience less damage from flood events, and when damage does occur, the flood insurance program protects the homeowner's investment); and
- Lessens the financial impacts on individuals, communities, and other involved parties (FEMA, 2015).

The Village of Parish currently participates in the NFIP. As of November 2017, the Village had no flood insurance policies in-force and no NFIP claims have been filed. There are no repetitive loss properties within the Village of Parish.

The Village's Code Enforcement Officer serves as the Local Floodplain Administrator, and flood maps are available for viewing and copying at the Village Gym (2938 East Main Street, Parish, NY 13131). The Village has been maintaining NFIP participation by performing the duties and actions that were listed in the local laws adopted by the Village Board. The Village will continue to comply with the NFIP by enforcing floodplain management requirements and regulating new development in Special Flood Hazard Areas, in addition to other required duties.

7.0 Mitigation Strategy and Prioritization

7.1 Past, Completed, and Ongoing Initiatives

The Village proposed one (1) mitigation action in the 2012 Oswego County HMP, and its status is summarized below in Table 7. The Village's 2012 mitigation action was not re-included for the 2018 update.

Table 7. 2012 Hazard Mitigation Actions Village of Parish				
Proposed Mitigation Action	Hazard(s) Mitigated	Goals and Objectives Met	Implementing Agency	Status
Review emergency evacuation signage within I-81 corridor communities – establish such signage if needed	Severe storm, ice storm, earthquake, tornado, flood, wildfire, winter storm, coastal storm, landslide, terrorism, hazmat (transit)	5-c, 5-e	County EMO, Municipal Boards and Highway/DPW, NYSDOT	The Village did not individually complete this action, but emergency signage was established along I-81 by the NYSDOT.

7.2 Proposed Mitigation Actions

The Village proposed four (4) new mitigation actions to be included in the HMP update. Two (2) of these actions are joint projects with the Town of Parish. These actions are described in Table 8, below and on worksheets included in Attachment A.

Table 8. 2018 Proposed Mitigation Actions Village of Parish									
Action ID	Mitigation Action	Hazard(s) Mitigated	Implementing Agencies (Lead* & Support)	Planning Mechanism	Timeframe	New or Existing Development	Estimated Cost	Funding Source(s)	Priority
Parish Village 1	Provide backup power for Fire Hall and Village Gym (shelter locations)	All	Mayor*	Comprehensive Emergency Management Plan	5 years	Existing	\$10-20K	FEMA- PDM; USDA-RD- Community Facilities Grant	1 (High)
Parish Village 2*	Develop action plan for snow clearing and storage	Severe Winter Storm	Parish Highway Superintendent*	Comprehensive Emergency Management Plan	1-2 years	Existing	Low	Local budgets	2 (High)
Parish Village 3	Stormwater conveyance system rehabilitation	Flood	Parish Highway Superintendent*	Comprehensive Plan	5 years	Existing	High	FEMA- PDM; NYSEFC- CWSRF	3 (Med)
Parish Village 4*	Construct Water District No. 1 to supply critical facilities and residents with municipal water	Water Supply Contamination, Severe Storms	Town Planning Board*, Village Planning Board	Comprehensive Plan	5 years	Existing	High	NYSEFC- DWSRF; USDA-RD - Water & Waste Disposal	4 (High)
*Shared action with the Town of Parish Potential Funding Sources FEMA PDM: https://www.fema.gov/pre-disaster-mitigation-grant-program NYSEFC CWSRF: https://www.efc.ny.gov/CWSRF NYSEFC DWSRF: https://www.efc.ny.gov/DWSRF USDA-RD Water & Waste Disposal Loan and Grant Program: https://www.rd.usda.gov/programs-services/water-waste-disposal-loan-grant-program USDA-RD Community Facilities Grant: https://www.rd.usda.gov/programs-services/community-facilities-direct-loan-grant-program									

7.3 Cost-Benefit Analysis

Each of the Village's proposed mitigation actions were evaluated and prioritized using the STAPLEE cost-benefit analysis. The Village's STAPLEE worksheet is provided in Attachment B. The STAPLEE analysis includes the following lenses of evaluation: social, technological, administrative, political, legal, economic, and environmental.

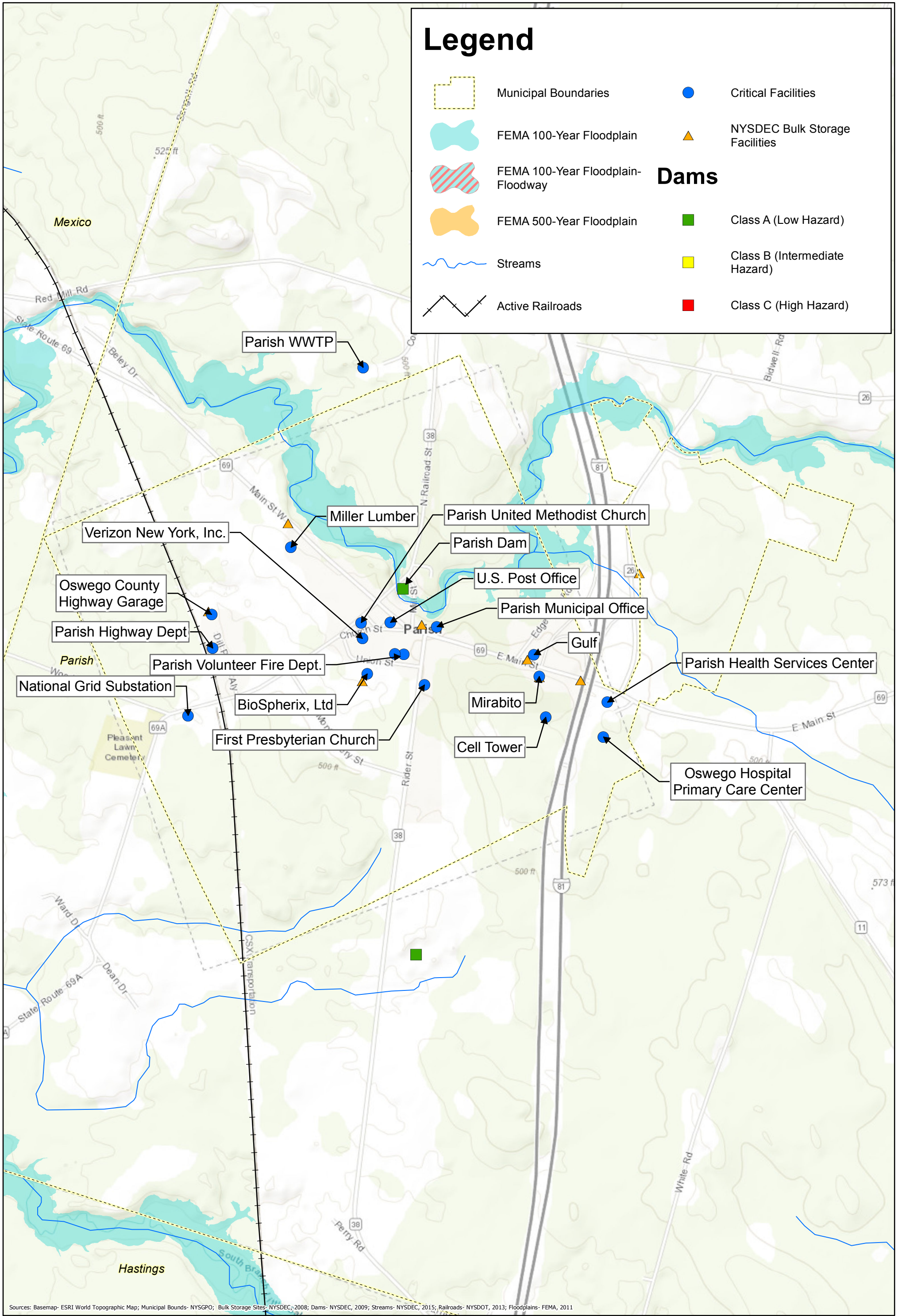
8.0 Works Cited

Swartz, Bridget, White, Sharon, and Clerkin, Janet. 2016. "Town and Village of Parish". *History of Oswego County, New York, Marking the Bicentennial*. Eds Shawn Doyle, Roy Reehil, Debra Allen, Justin White, Janet Clerkin, Kelly Jordal, and Kara Alheim. Oswego, NY: Oswego County, New York, 2016. 98-103. Print.

U.S. Census Bureau. 2016. "Summary File." 2012 – 2016 American Community Survey. U.S. Census Bureau's American Community Survey Office, 2016. Web. Accessed 5 September 2018. Available from:
<https://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>

Figure 1

**Hazard Area Extent and Location Map –
Village of Parish**



Sources: Basemap- ESRI World Topographic Map; Municipal Bounds- NYSGPO; Bulk Storage Sites- NYSDEC, 2008; Dams- NYSDEC, 2009; Streams- NYSDEC, 2015; Railroads- NYSDOT, 2013; Floodplains- FEMA, 2011

Attachment A

**Mitigation Action Worksheets –
Village of Parish**

Oswego County Multi-Jurisdictional Hazard Mitigation Plan

Name of Jurisdiction:	Village of Parish
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Mitigation Action Worksheet	
Project Name:	Provide backup power for Fire Hall and Village Gym (shelter locations)
Project Number:	Parish Village 1
Risk/Vulnerability	
Hazard of Concern:	Severe Storm, Ice Storm, Utility Failure
Description of the Problem:	Currently the Fire Hall (critical facility) and Village Gym (shelter location) lack a backup power source. of power can limit the Town's ability to continue emergency operations and/or shelter residents during hazard events.
Action of Project Intended for Implementation	
Description of the Solution:	Install generators at Fire Hall and Village Gym to maintain critical operations and sheltering abilities during hazards with power outages.

Is this project related to a Critical Facility? Yes X No

(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)

Level of Protection:	High	Estimated Benefits (losses avoided):	Maintain emergency and shelter operations during power outages, better protection of residents.
Useful Life:	10-15 years		
Estimated Cost:	\$20,000		

Plan for Implementation			
Prioritization:	#1 (High)	Desired Timeframe for Implementation:	1-5 years
Estimated Time Required for Project Implementation:	6 months -1 year	Potential Funding Sources:	FEMA- PDM; USDA-RD-Community Facilities Grant
Responsible Organization:	Village Mayor	Local Planning Mechanisms to be used in Implementation, if any:	Comprehensive Emergency Management Plan

Three Alternatives Considered (Including No Action)			
	Action	Estimated Cost	Evaluation
Alternatives:	No Action	\$0	Fire Hall and Village Gym at risk of losing power and may be unable to serve as an emergency shelter during hazard events.
	Purchase portable generators to be shared among multiple facilities.	\$10,000	May not be available for a certain facility when needed, requires more coordination for use
	Install permanent generators at Fire Hall and Village Gym	\$20,000	Enhance sheltering ability and maintain critical operations during hazard events.

Progress Report (for Plan Maintenance)	
Date of Status Report:	
Report of Progress:	
Update Evaluation of the Problem and/or Solution:	

Oswego County Multi-Jurisdictional Hazard Mitigation Plan

Name of Jurisdiction:	Village of Parish
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Mitigation Action Worksheet	
Project Name:	Develop action plan for snow clearing and storage
Project Number:	Parish Village 2
Risk/Vulnerability	
Hazard of Concern:	Severe Winter Storm
Description of the Problem:	Currently the Village lacks room to store cleared snow. In addition, many residents require assistance shoveling roofs after snow storms.
Action of Project Intended for Implementation	
Description of the Solution:	Designate location(s) for snow storage and implement a snow clearing action plan and protocol.

Is this project related to a Critical Facility? Yes _____ No X

(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)

Level of Protection:	#2 (High)	Estimated Benefits (losses avoided):	Improved safety of residents and people traveling through the Town during heavy snow events.
Useful Life:	Medium- 5 years (ongoing)		
Estimated Cost:	Low- \$5,000		

Plan for Implementation			
Prioritization:	#2 (High)	Desired Timeframe for Implementation:	1-2 years
Estimated Time Required for Project Implementation:	6 months -1 year	Potential Funding Sources:	Village Budget
Responsible Organization:	Village DPW Superintendent	Local Planning Mechanisms to be used in Implementation, if any:	Comprehensive Emergency Management Plan

Three Alternatives Considered (Including No Action)			
	Action	Estimated Cost	Evaluation
Alternatives:	No Action	\$0	Lack snow storage space- existing issues remain
	Develop a plan only for snow storage	\$2,500	Better roadway safety/accessibility
	Develop a plan for snow storage and residential clearing assistance	\$5,000	Maximize protection of residents

Progress Report (for Plan Maintenance)	
Date of Status Report:	
Report of Progress:	
Update Evaluation of the Problem and/or Solution:	

Oswego County Multi-Jurisdictional Hazard Mitigation Plan

Name of Jurisdiction:	Village of Parish
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Mitigation Action Worksheet	
Project Name:	Stormwater conveyance system rehabilitation
Project Number:	Parish Village 3
Risk/Vulnerability	
Hazard of Concern:	Flood
Description of the Problem:	The Village's existing stormwater conveyance system is in poor condition, and contributes to areal flooding issues and road erosion. A number of stormwater pipes are in need of rehabilitation/replacement.
Action of Project Intended for Implementation	
Description of the Solution:	Rehabilitate the existing stormwater conveyance system throughout the Village.

Is this project related to a Critical Facility? Yes _____ No X

(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)

Level of Protection:	#3 (Medium)	Estimated Benefits (losses avoided):	Decreased localized flooding issues related to poor stormwater drainage.
Useful Life:	20 years		
Estimated Cost:	\$1 million		

Plan for Implementation			
Prioritization:	#4 (High)	Desired Timeframe for Implementation:	1-5 years
Estimated Time Required for Project Implementation:	2 years	Potential Funding Sources:	FEMA- PDM; NYSEFC- CWSRF
Responsible Organization:	Village Planning Board	Local Planning Mechanisms to be used in Implementation, if any:	Comprehensive Plan

Three Alternatives Considered (Including No Action)			
	Action	Estimated Cost	Evaluation
Alternatives:	No Action	\$0	Flooding issues remain
	Clean out plugged pipes in existing system	\$20,000	Not a complete solution. Infrastructure is still in poor condition.
	Rehabilitate/replace existing infrastructure	\$1 million	Extends life of stormwater system and enhances flows.

Progress Report (for Plan Maintenance)	
Date of Status Report:	
Report of Progress:	
Update Evaluation of the Problem and/or Solution:	

Oswego County Multi-Jurisdictional Hazard Mitigation Plan

Name of Jurisdiction:	Village of Parish
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Mitigation Action Worksheet	
Project Name:	Construct Water District No. 1 to supply critical facilities and residents with municipal water
Project Number:	Parish Village 4
Risk/Vulnerability	
Hazard of Concern:	Water Supply Contamination, Severe Storms
Description of the Problem:	Many residents and Town/Village facilities are dependent on private water wells which exhibit poor water quality. Water contamination can be an issue during flooding events.
Action of Project Intended for Implementation	
Description of the Solution:	Provide municipal water service to Town and Village residents (Water District No. 1)

Is this project related to a Critical Facility? Yes X No

(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)

Level of Protection:	High	Estimated Benefits (losses avoided):	Better equip critical facilities with utilities (no lack of water - better sheltering abilities), reduce water contamination risks for residents. Maintain availability of water service during hazard events.
Useful Life:	40-50 years		
Estimated Cost:	\$3 million +		

Plan for Implementation			
Prioritization:	#4 (High)	Desired Timeframe for Implementation:	1-5 years
Estimated Time Required for Project Implementation:	3 years	Potential Funding Sources:	NYSEFC- DWSRF; USDA-RD - Water & Waste Disposal
Responsible Organization:	Village Planning Board	Local Planning Mechanisms to be used in Implementation, if any:	Comprehensive Plan

Three Alternatives Considered (Including No Action)			
	Action	Estimated Cost	Evaluation
Alternatives:	No Action	\$0	.Risk of water supply loss and contamination remain.
	Treat well water at critical facilities	Medium	Much cheaper, improves water quality but not a long-term solution. Water service can still be lost during hazard events. No change to water issues experienced by residents.
	Construct Water District No. 1	\$3 million	Critical facilities and residents dependent on private wells have access to public water supply, which would be maintained during hazard events and pose less of a contamination risk.

Progress Report (for Plan Maintenance)	
Date of Status Report:	
Report of Progress:	
Update Evaluation of the Problem and/or Solution:	

Attachment B

**STAPLEE Table –
Village of Parish**

Worksheet #6

STAPLEE Criteria Consideration Table
Mitigation Action Prioritization and ComparisonJurisdiction Village of Parish

Action ID	Action	S	T	A	P	L	E	E	Can action be easily implemented?	Does action achieve multiple plan objectives?	Can action be quickly implemented?	Level of action benefits	Level of action overall costs	Priority ranking
		+ = Benefit (favorable), - = Cost (unfavorable), 0 = Neutral or N/A										Levels = High, Medium, or Low		
Parish Village 1	Provide backup power for Fire Hall and Village Gym (shelter locations)	+	+	+	+	+	0	0	+	+	0	High	Low	High (#1)
Parish Village 2*	Develop action plan for snow clearing and storage	+	0	+	+	+	0	0	+	+	+	High	Low	High (#2)
Parish Village 3	Stormwater conveyance system rehabilitation	+	0	-	+	0	-	0	-	+	-	High	Med	High (#3)
Parish Village 4*	Construct Water District No. 1 to supply critical facilities and residents with municipal water	0	+	-	+	0	-	0	-	+	-	High	High	High (#3)

*Shared action with Town of Parish