

**9.3 VILLAGE OF BALLSTON SPA**

This section presents the jurisdictional annex for the Village of Ballston Spa.

**A.) HAZARD MITIGATION PLAN POINT OF CONTACT**

| Primary Point of Contact  | Alternate Point of Contact   |
|---|--|
| John Romano, Mayor<br>66 Front Street<br>Ballston Spa, NY 12020<br>(518) 885-5711 | Randy Llyod, Building Inspector<br>66 Front Street<br>Ballston Spa, NY 12020<br>(518) 885-5711 |

**B.) VILLAGE PROFILE**

***Population***

5,486 (estimated 2007 U.S. Census)

***Location***

The Village of Ballston Spa is the County Seat, located in south central Saratoga County. It lies on the border of two towns, partly in the Town of Ballston and partly in the Town of Milton. The village is southwest of Saratoga Springs. New York State Route 50 (Milton Avenue), a north-south highway, passes through the village and intersects New York State Route 67 (West High Street). County Road 63 (Malta Avenue) leaves the village to the east, connecting it to US Route 9 and Interstate 87 (The Northway).

According to the U.S. Census Bureau, the village has a total area of 1.6 square miles (4.2 km<sup>2</sup>), with 1.6 square miles (4.1 km<sup>2</sup>) of it land and 0.62-percent water.

***Climate***

Saratoga County, with all its municipalities, generally experiences seasonable weather patterns characteristic of the northeastern U.S. Warm summers are typically experienced, with occasional high temperatures and humidity. Midsummer temperatures typically range from 60°F to 83°F (Fahrenheit). The winters of Saratoga County are long and cold, with temperatures typically ranging from 12°F to 30°F (Fahrenheit). During the winter, temperatures are cooler than the temperatures in areas located near large bodies of water. Snow accumulates to an average depth of 68.7 inches each year.

***Brief History***

The village was first settled in 1771 and was incorporated as a village in 1807. The village was named for Reverend Eliphalet Ball, who came to the area from Connecticut in the early 1770’s. Prior to the development of the village, the land at the head of the lower valley of Kayaderosseras Creek had been part of a vast hunting ground used by Native Americans.

***Governing Body Format***

Village government is headed by the Mayor and four Trustees. Together they form the local legislative body, the Board of Trustees. Both the Mayor and Village Trustees serve four-year terms.

***Growth/Development Trends***

No development is anticipated at this time.

**C.) NATURAL HAZARD EVENT HISTORY SPECIFIC TO THE VILLAGE**

| Type of Event                | FEMA Disaster # (if applicable) | Date           | Preliminary Damage Assessment   |
|------------------------------|---------------------------------|----------------|---|
| Blizzard                     | Not applicable                  | March, 1888    | Not available   |
| Flood                        | Not applicable                  | March, 1913    | Not available   |
| Flood                        | Not applicable                  | March, 1936    | Not available   |
| Extreme Cold                 | Not applicable                  | December, 1955 | Not available   |
| Extreme Cold                 | Not applicable                  | January, 1957  | Not available   |
| Extreme Cold                 | Not applicable                  | December, 1960 | Not available   |
| Snowstorm and Extreme Cold   | Not applicable                  | February, 1961 | \$81,000 (countywide)   |
| Extreme Cold                 | Not applicable                  | March, 1962    | Not available   |
| Extreme Cold                 | Not applicable                  | February, 1967 | Not available   |
| Extreme Cold                 | Not applicable                  | January, 1968  | Not available   |
| Flood (Tropical Storm Agnes) | Not applicable                  | June, 1972     | \$1,600,000 (countywide)  |
| Flood                        | Not applicable                  | March, 1977    | Not available   |
| Extreme Cold                 | Not applicable                  | December, 1977 | Not available   |
| Extreme Cold                 | Not applicable                  | February, 1978 | Not available   |
| Extreme Cold                 | Not applicable                  | February, 1979 | Not available   |
| Extreme Cold                 | Not applicable                  | December, 1980 | Not available   |
| Extreme Cold                 | Not applicable                  | January, 1981  | Not available   |
| Snowstorm                    | Not applicable                  | January, 1983  | \$238,000 (countywide)  |
| Snowstorm                    | Not applicable                  | April, 1983    | \$238,000 (countywide)  |
| Snowstorm                    | Not applicable                  | December, 1983 | \$179,000 (countywide)  |
| Snowstorm                    | Not applicable                  | February, 1984 | \$238,000 (countywide)  |
| Flood                        | Not applicable                  | May, 1984      | \$2,400,000 (countywide)  |
| Flood                        | Not applicable                  | March, 1986    | \$1,400,000 (countywide)  |
| Flood                        | Not applicable                  | August, 1986   | \$505,000 (countywide)  |
| Extreme Cold                 | Not applicable                  | February, 1987 | Not available   |
| Flood                        | Not applicable                  | April, 1987    | \$2,100,000 property damage; \$208,000 crop damage; 3 injuries (countywide) |
| Severe Winter Storm          | DR-801                          | October, 1987  | Not available   |
| Extreme Cold                 | Not applicable                  | February, 1989 | Not available   |
| Snowstorm                    | Not applicable                  | February, 1990 | \$545,000 (countywide)  |
| Freezing Rain                | Not applicable                  | March, 1991    | \$833,000 (countywide)  |

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| Type of Event                                | FEMA Disaster #<br>(if applicable) | Date                         | Preliminary Damage Assessment                |
|--|------------------------------------|------------------------------|--|
| Extreme Cold                                 | Not applicable                     | February, 1993               | Not available                                |
| Blizzard and Extreme Cold                    | EM-3107                            | March, 1993                  | Not available                                |
| Extreme Cold                                 | Not applicable                     | January, 1994                | Not available                                |
| Snowstorm                                    | Not applicable                     | February, 1995               | \$500,000 (countywide)                       |
| Snowstorm                                    | Not applicable                     | March, 1995                  | \$100,000 (countywide)                       |
| Severe Storm and Flooding                    | DR-1095                            | January, 1996                | \$10,000,000 (countywide)                    |
| Flood  | Not applicable                     | April, 1996                  | \$40,000 (countywide)                        |
| Severe Storms and Flooding                   | Not applicable                     | November, 1996               | \$404,000 (countywide)                       |
| Snowstorm                                    | Not applicable                     | March / April, 1997          | \$709,000 (countywide)                       |
| Severe Winter Storm and Flooding             | DR-1196                            | January, 1998                | Between \$125,000 and \$745,000 (countywide) |
| Severe Storms and Flooding (Hurricane Floyd) | DR-1295                            | September, 1999              | Not available                                |
| Flood  | Not applicable                     | February, 2000               | \$63,000 (countywide)                        |
| Severe Storms                                | Not applicable                     | May/September, 2000          | \$80,000 (countywide)                        |
| Thunderstorm / Wind                          | Not applicable                     | September, 2000              | \$250,000 (Village)                          |
| Thunderstorm / Wind                          | Not applicable                     | June, 2000                   | \$175,000 (Village)                          |
| Flood  | Not applicable                     | December, 2000               | \$190,000 (countywide)                       |
| Snowstorm                                    | Not applicable                     | March, 2001                  | Not available                                |
| Snowstorm                                    | EM-3173                            | December 2002 / January 2003 | Not available                                |
| Severe Storms, Tornado and Flooding          | Not applicable                     | July / August 2003           | Between \$100,000 and \$160,000 (countywide) |
| Severe Storms and Flooding                   | DR-1534                            | May / June 2004              | \$14,000,000 (statewide)                     |
| Severe Storms and Flooding                   | Not applicable                     | June/July, 2006              | Not available                                |
| Ice Storm                                    | Not applicable                     | January, 2007                | Power outages                                |
| Snowstorm (Valentine's Day Storm)            | Not applicable                     | February, 2007               | Not available                                |

**Number of FEMA Identified Repetitive Flood Loss Properties:** 0

**Number of FEMA Identified Severe Repetitive Flood Loss Properties:** 0

Source: FEMA Region 2, November 2008

**D.) NATURAL HAZARD RISK/VULNERABILITY RISK RANKING**

| Rank # | Hazard Type  | Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard <sup>a,c</sup> | Probability of Occurrence | Risk Ranking Score (Probability x Impact) | Hazard Ranking <sup>b</sup> |
|--------|--|---|---------------------------|---|-----------------------------|
| 3      | Earthquake   | \$17,434,000 <sup>c,e</sup>   | Rare                      | 11  | Low                         |
| 1      | Flood (riverine, flash, coastal and urban flooding)                    | \$16,576,000 <sup>c,e</sup>   | Frequent                  | 54  | High                        |
| 4      | Landslide  | Not available <sup>f</sup>  | Rare                      | 6   | Low                         |
| 2      | Severe Storm (windstorms, thunderstorms, hail, lightning and tornados) | \$453,031 <sup>c,d</sup>  | Frequent                  | 51  | High                        |
| 1      | Severe Winter Storm (heavy snow, blizzards, ice storms)                | \$20,206,600 <sup>c,d</sup>   | Frequent                  | 54  | High                        |

- a. Building damage ratio estimates based on FEMA 386-2 (August 2001)
- b. High = Total hazard priority risk ranking score of 31 and above  
Medium = Total hazard priority risk ranking of 16-30  
Low = Total hazard risk ranking below 15
- c. The valuation of general building stock and loss estimates determined in Saratoga County were based on the default general building stock database provided in HAZUS-MH MR3 (RSMears 2006).
- d. Severe storm and severe winter storm hazard 500-year MRP loss estimate is structural value only; does not include the value of contents. For severe winter storm, the loss estimate is 5% of total general building stock value.
- e. Loss estimates for both structure and contents (500-year MRP for the flood hazard and 2,500-year MRP for the earthquake hazard).
- f. 0% of the Village's general building stock is located within the landslide hazard area and thus vulnerable.

**E.) CAPABILITY ASSESSMENT**

This section identifies the following capabilities of the local jurisdiction:

- Legal and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Community classification.

## E.1) Legal and Regulatory Capability

| Regulatory Tools<br>(Codes, Ordinances., Plans)  | Local Authority<br>(Y or N) | Prohibitions<br>(State or Federal)<br>(Y or N) | Higher<br>Jurisdictional<br>Authority<br>(Y or N) | State<br>Mandated<br>(Y or N) | Code Citation<br>(Section, Paragraph, Page<br>Number, date of adoption) |
|--|-----------------------------|--|---|-------------------------------|---|
| 1) Building Code   | Y                           | N  | Y   | N                             | New York State Uniform Fire Prevention & Building Code Adopted 5/13/96  |
| 2) Zoning Ordinance  | Y                           | N  | N   | N                             | Village Code Chapter 205; Adopted 5/13/96                               |
| 3) Subdivision Ordinance   | Y                           | N  | N   | N                             | Village Code Chapter 178; Adopted 2/12/63                               |
| 4) NFIP Flood Damage Prevention Ordinance (if you are in the NFIP, you <b>must</b> have this.) | Y                           | Y  | Y   | Y                             | Village Code Chapter 120; Adopted 9/29/88                               |
| 5) Growth Management   | Y                           | N  | N   | N                             | See 2 above   |
| 6) Floodplain Management / Basin Plan  | Y                           | Y  | Y   | N                             | See 4 above   |
| 7) Stormwater Management Plan/Ordinance  | Y                           | N  | Y   | Y                             | Village Code Chapter 172; Adopted 2/12/07                               |
| 8) Comprehensive Plan / Master Plan/ General Plan  | Y                           | N  | N   | N                             | Comprehensive Plan; May 1995  |
| 9) Capital Improvements Plan   | N                           | N  | N   | N                             |   |
| 10) Site Plan Review Requirements  | Y                           | Y  | Y   | N                             | Village Code Chapter 205; Adopted 2/12/63                               |
| 11) Open Space Plan  | N                           | N  | N   | N                             |   |
| 12) Economic Development Plan  | Y                           | N  | N   | N                             | Village of Ballston Spa Commercial Revitalization Plan; July 2003       |
| 13) Emergency Response Plan  | Y                           | N  | Y   | Y                             | Adopted February 1, 2001  |
| 14) Post Disaster Recovery Plan  | Y                           | N  | N   | N                             | See 13 above  |
| 15) Post Disaster Recovery Ordinance   | N                           | N  | N   | N                             |   |
| 16) Real Estate Disclosure req.  | N                           | N  | N   | N                             |   |
| 17) Other [Special Purpose Ordinances (i.e., critical or sensitive areas)]                     | N                           | N  | N   | N                             |   |

E.2) Administrative and Technical Capability

| Staff/ Personnel Resources   | Available (Y or N) | Department/ Agency/Position                    |
|--|--------------------|--|
| 1) Planner(s) or Engineer(s) with knowledge of land development and land management practices                  | Y                  | Village Designated Engineer (CHA)              |
| 2) Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure | Y                  | Village Designated Engineer (CHA)              |
| 3) Planners or engineers with an understanding of natural hazards  | Y                  | Village Designated Engineer (CHA)              |
| 4) NFIP Floodplain Administrator (if you are in the NFIP, you <b>must</b> have one.)                           | Y                  | Randy Llyod– Building/Zoning Officer           |
| 5) Surveyor(s)   | Y                  | Village Designated Engineer (CHA)              |
| 6) Personnel skilled or trained in “GIS” applications  | Y                  | Village Designated Engineer (CHA)              |
| 7) Scientist familiar with natural hazards in the Village of Ballston Spa.                                     | Y                  | Village Designated Engineer (CHA)              |
| 8) Emergency Manager   | Y                  | Larry Gallager, Emergency response Coordinator |
| 9) Grant Writer(s)   | Y                  | Contracted ( Camoin Associates)                |
| 10) Staff with expertise or training in benefit/cost analysis  | Y                  | Village Designated Engineer (CHA)              |

E.3) Fiscal Capability

| Financial Resources  | Accessible or Eligible to use (Yes/No/Don't know) |
|--|---|
| 1) Community development Block Grants (CDBG)                         | Yes; Have previously used                         |
| 2) Capital Improvements Project Funding                              | Yes; Have previously used.                        |
| 3) Authority to Levy Taxes for specific purposes                     | Yes   |
| 4) User fees for water, sewer, gas or electric service               | Yes; Water and Sewer only; Have previously used   |
| 5) Impact Fees for homebuyers or developers of new development/homes | Yes Recreation fees for new development           |
| 6) Incur debt through general obligation bonds                       | Yes; Have previously used                         |
| 7) Incur debt through special tax bonds                              | Yes   |
| 8) Incur debt through private activity bonds                         | NO  |
| 9) Withhold public expenditures in hazard-prone areas                | Yes   |
| 10) State mitigation grant programs (e.g. NYSDEC, NYCDEP)            | YES   |
| 11) Other  | Don't know  |

## E.4) Community Classifications

| Program  | Classification | Date Classified |
|--|----------------|-----------------|
| Community Rating System (CRS)                        | NP             | N/A             |
| Building Code Effectiveness Grading Schedule (BCEGS) | NP             | N/A             |
| Public Protection                                    | NP             | N/A             |
| Storm Ready  | NP             | N/A             |
| Firewise   | NP             | N/A             |

N/A = Not applicable. NP = Not participating. - = Unavailable.

The classifications listed above relate to the community's effectiveness in providing services that may impact its vulnerability to the natural hazards identified. These classifications can be viewed as a gauge of the community's capabilities in all phases of emergency management (preparedness, response, recovery and mitigation) and are used as an underwriting parameter for determining the costs of various forms of insurance. The CRS class applies to flood insurance while the BCEGS and Public Protection classifications apply to standard property insurance. CRS classifications range on a scale of 1 to 10 with class one (1) being the best possible classification, and class 10 representing no classification benefit. Firewise classifications include a higher classification when the subject property is located beyond 1000 feet of a creditable fire hydrant and is within 5 road miles of a recognized Fire Station.

Criteria for classification credits are outlined in the following documents:

- The Community Rating System Coordinators Manual
- The Building Code Effectiveness Grading Schedule
- The ISO Mitigation online ISO's Public Protection website at <http://www.isomitigation.com/ppc/0000/ppc0001.html>
- The National Weather Service Storm Ready website at <http://www.weather.gov/stormready/howto.htm>
- The National Firewise Communities website at <http://firewise.org/>

F.) PROPOSED HAZARD MITIGATION INITIATIVES

| Initiative | Mitigation Initiative   | Applies to New and/or Existing Structures* | Hazard(s) Mitigated | Goals Met | Objectives Met                         | Lead Agency   | Support agencies                                    | Estimated Cost | Sources of Funding | Timeline |
|------------|---|--|---------------------|-----------|--|---|---|----------------|--------------------|----------|
| VBS-1      | Maintain compliance with and good-standing in the NFIP including adoption and enforcement of floodplain management requirements including regulating all new and substantially improved construction in Special Hazard Flood Areas, floodplain identification and mapping, and flood insurance outreach to the community.<br><br>Further, continue to meet and/or exceed the minimum NFIP standards and criteria through the following NFIP-related continued compliance actions identified as Initiatives 1a through 1f. | New & Existing                             | Flood, Severe Storm | 1, 2, 5   | 1-1, 1-3, 1-6, 2-1, 2-2, 2-3, 2-4, 5-2 | Municipal Engineering (NFIP Floodplain Administrator) | NYSEMO Saratoga County Office of Emergency Services | Low            | Municipal Budget   | Short    |
| VBS-1a     | Consider the adoption of higher regulatory standards to manage flood risk (i.e. increased freeboard, cumulative substantial damage/improvements).   | New  | Flood               | 1, 2, 5   | 1-1, 1-3, 1-6, 2-1, 2-2, 2-3, 2-4, 5-2 |   | NYSEMO Saratoga County Office of Emergency Services | Low            | Municipal Budget   | Short    |
| VBS-1b     | Develop and implement an enhanced public outreach/education/information program, including: (for example) develop a flood risk management webpage on the municipal website where information and mapping can be posted, include NFIP information in regular newsletter and mailings, etc....  | N/A  | Flood               | 1, 2, 5   | 1-1, 1-3, 1-6, 2-1, 2-2, 2-3, 2-4, 5-2 |   | NYSEMO Saratoga County Office of Emergency Services | Low            | Municipal Budget   | Short    |
| VBS-       | Determine if a Community  | N/A  | Flood               | 1, 2, 5   | 1-1, 1-3, 1-                           |   | NYSEMO  | Low            | Municipal          | Short    |



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| Initiative    | Mitigation Initiative   | Applies to New and/or Existing Structures* | Hazard(s) Mitigated  | Goals Met  | Objectives Met                         | Lead Agency  | Support agencies                                    | Estimated Cost | Sources of Funding   | Timeline |
|---------------|---|--|----------------------|------------|--|--|---|----------------|--|----------|
| 1c            | Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed.   |  |                      |            | 6, 2-1, 2-2, 2-3, 2-4, 5-2             |  | Saratoga County Office of Emergency Services        |                | Budget   |          |
| VBS-1d        | Have designated NFIP Floodplain Administrator (FPA) become a Certified Floodplain Manager through the ASFPM, and consider relevant continuing education training such as FEMA Benefit-Cost Analysis.  | N/A  | Flood                | 1, 2, 5    | 1-1, 1-3, 1-6, 2-1, 2-2, 2-3, 2-4, 5-2 |  | NYSEMO Saratoga County Office of Emergency Services | Low            | Municipal Budget   | Short    |
| VBS-1e        | Continue to require and archive elevation certificates.   | New & Existing                             | Flood                | 1, 2, 5    | 1-1, 1-3, 1-6, 2-1, 2-2, 2-3, 2-4, 5-2 | Municipal Engineering (NFIP Floodplain Administrator)        |   | Low            | Municipal Budget   | Short    |
| VBS-1f (SC-5) | Consider participation in the Community Rating System to further manage flood risk in the City and reduce flood insurance premiums for NFIP policyholders. This would include attendance at County sponsored NFIP-CRS information workshops during year one of the plan implementation period.  | New & Existing                             | Flood, Coastal Storm | 1, 2, 5    | 1-1, 1-3, 1-6, 2-1, 2-2, 2-3, 2-4, 5-2 | Municipal Engineering (NFIP Floodplain Administrator)        | NYSEMO Saratoga County Office of Emergency Services | Low            | City Budget  | Short    |
| VBS-2a        | Where appropriate, support retrofitting (e.g. elevation) of structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Identify facilities that are viable candidates for retrofitting based on cost-effectiveness versus relocation. Where retrofitting is determined to be a viable | Existing                                   | Flood, Severe Storm  | 1, 2, 3, 5 | 1-1, 1-2, 1-3, 2-2, 2-3, 2-4, 3-1, 3-5 | Municipality (likely through NFIP Floodplain Administrator); | NYSEMO Saratoga County Office of Emergency Services | High           | FEMA Mitigation Grant Programs and local budget (or property owner) for cost share | Short    |



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| Initiative | Mitigation Initiative  | Applies to New and/or Existing Structures* | Hazard(s) Mitigated | Goals Met   | Objectives Met                         | Lead Agency  | Support agencies                                       | Estimated Cost                 | Sources of Funding   | Timeline |
|------------|--|--|---------------------|-------------|--|--|--|--------------------------------|--|----------|
|            | option, consider implementation of that action based on available funding.   |  |                     |             |  |  |  |                                |  |          |
| VBS-2b     | Where appropriate, support acquisition or relocation of structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Identify facilities that are viable candidates for relocation based on cost-effectiveness versus retrofitting. Where relocation is determined to be a viable option, consider implementation of that action based on available funding. | Existing                                   | Flood, Severe Storm | 1, 2, 3, 5  | 1-1, 1-2, 1-3, 2-2, 2-3, 2-4, 3-1, 3-5 | Municipality (likely through NFIP Floodplain Administrator), | NYSEMO Saratoga County Office of Emergency Services    | High                           | FEMA Mitigation Grant Programs and local budget (or property owner) for cost share | Short    |
| VBS-3      | Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0  | New & Existing                             | All Hazards         | 1 through 5 | All                                    | Municipality (through mitigation planning point of contacts) | County (through Mitigation Planning Coordinator), SEMO | Low – High (for 5-year update) | Local Budget, possibly FEMA Mitigation Grant Funding for 5-year update             | Ongoing  |
| VBS-4      | Expand public education on ways to protect property before and during hazard events. Conduct continued public and stakeholder outreach to promote awareness of this Plan and obtain ongoing public and stakeholder input. Specific activities shall include maintaining the public HMP website, media releases, maintaining copies of the plan in city hall, and may include public meetings, informational flyers, press releases, and                    | Existing                                   | All                 | 1 through 5 | All                                    | Municipal Administrator                                      |  | Low                            | Local Budget, HMA grant  | Short    |



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| Initiative | Mitigation Initiative  | Applies to New and/or Existing Structures* | Hazard(s) Mitigated | Goals Met   | Objectives Met               | Lead Agency   | Support agencies   | Estimated Cost | Sources of Funding                                   | Timeline                                    |
|------------|--|--|---------------------|-------------|------------------------------|---|--|----------------|--|---|
|            | public service announcements   |  |                     |             |                              |   |  |                |  |   |
| VBS-5      | Continue to develop, enhance, and implement existing emergency plans.                  | New & Existing                             | All Hazards         | 1, 3        | 1-1, 1-7, 3-2, 3-4, 3-5      | Municipal Emergency Manager with support from County OEM and SEMO | County Emergency Management, SEMO  | Low - Medium   | Local Budget   | Ongoing                                     |
| VBS-6      | Create/enhance/ maintain mutual aid agreements with neighboring communities.           | New & Existing                             | All Hazards         | 3, 5        | 3-4, 5-1, 5-3                | Local Emergency Management, DPW and Roads                         | Surrounding municipalities and County  | Low - Medium   | Local Budget   | Ongoing                                     |
| VBS-7      | Support County-wide initiatives identified in Section 9.1 of the County Annex.         | New & Existing                             | All Hazards         | 1 through 5 | All                          | Local departments (as applicable for specific initiative)         | County and Regional agencies (as appropriate for initiative)                                 | Low - High     | Existing programs and grant funding where applicable | Ongoing – Long-term depending on initiative |
| VBS-8      | Create/update the Emergency Action Plans for all dams located within the municipality. | Existing                                   | Flood               | 1, 3        | 1-1, 1-6, 1-7, 3-1, 3-2, 3-4 | Municipality  | Watershed districts (if applicable); neighboring municipalities; County (if applicable); NYS | Medium to Low  | FEMA HMA   | DOF   |
| VBS-9      | Implement dam structure repairs as required by dam safety report/protocols             | Existing                                   | Flood               | 3           | 3-1, 3-3, 3-6                | Municipality  | Watershed districts (if applicable); neighboring municipalities; County (if applicable); NYS | Medium         | FEMA HMA   | DOF   |
| VBS-10     | Support the Installation/Implementation of Community Emergency Alert System            | New & Existing                             | All Hazards         | 1, 3, 5     | 1-1, 3-1, 3-3, 3-5, 3-6, 5-1 | Municipality  | Watershed districts (if applicable); neighboring   | Medium         | FEMA HMA   | DOF   |



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|------------|--|--|-----------------------------------|------------|------------------------------|--------------------------|--|---|--|----------|
|            |  |  |                                   |            |                              |                          | municipalities; County (if applicable); NYS  |   |  |          |
| VBS-11     | Create a mitigation support fund to provide matching funds on an ongoing basis for municipality and residential mitigation projects which will fund cost-sharing portions of projects and be replenished during the annual budget cycle  | New & Existing                             | All Hazards                       | 1, 2, 3, 5 | 1-3, 1-9, 2-5, 3-1, 5-2      | Municipality             |  | Medium  | Operating budget   | Short    |
| VBS-12     | Investigate and implement mitigation actions that would protect the St. Mary's School from the flood hazard. The school is located within the flood hazard area.   | Existing                                   | Flood, Severe Storm               | 1, 3       | 1-1, 3-4, 3-6                | Municipality             | School District                              | Low<br>(Could be high once action is decided and implemented) | Local<br>(FEMA HMA and local match for implementation of action) | Short    |
| VBS-13     | Investigate and implement mitigation actions that would protect the Union Fire Department from the flood hazard. The Fire Department is located in the flood hazard area.  | Existing                                   | Flood, Severe Storm               | 1, 3       | 1-1, 3-4, 3-6                | Municipality             | Fire Department                              | Low<br>(Could be high once action is decided and implemented) | Local<br>(FEMA HMA and local match for implementation of action) | Short    |
| VBS-14     | Enhance the County/community resilience to severe storms (incl. severe winter storms) by joining the NOAA "Storm Ready" program. "StormReady" communities are better prepared to save lives from the onslaught of severe weather through advanced planning, education and awareness. Participation in the NOAA "StormReady" program shall include providing information on the "StormReady" program. | NA   | Severe Storm, Severe Winter Storm | 1, 2, 3    | 1-7, 1-9, 2-2, 2-4, 2-5, 3-4 | Municipal Administration | Saratoga County Office of Emergency Services | Low   | Local Budget   | Short    |



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|------------|---|--|---------------------|-----------|----------------|-------------|------------------|----------------|--------------------|----------|
|            | facilitating public outreach and awareness programs, and supporting community storm risk reduction activities as appropriate. Specific actions addressed by "StormReady" participation include establishing a 24 hour Warning Point, increase number of ways EOC receives NWS warnings, increase number of ways to disseminate warnings, monitoring hydrometeorological data, providing annual weather safety talks, train weather spotters, create a formal hazardous weather plan, host annual visits by NWS to communities, etc. |  |                     |           |                |             |                  |                |                    |          |

Notes: Short term = 1 to 5 years. Long Term= 5 years or greater. OG = On going program. DOF = Depending on funding. PDM = Pre-Disaster Mitigation Grant Program.

\*Does this mitigation initiative reduce the effects of hazards on new and/or existing buildings and/or infrastructure?



## G.) ANALYSIS OF MITIGATION ACTIONS

This table summarizes the participant's mitigation actions by hazard of concern and the six mitigation types to illustrate that the Village has selected a comprehensive range of actions/projects.

| Hazard of Concern   | Mitigation Type                                   |   |                                   |                                |  |                        |
|---|---|---|-----------------------------------|--------------------------------|--|------------------------|
|   | 1. Prevention                                     | 2. Property Protection                            | 3. Public Education and Awareness | 4. Natural Resource Protection | 5. Emergency Services                            | 6. Structural Projects |
| Earthquake  | VBS-3, VBS-4, VBS-7, VBS-11                       | VBS-3, VBS-7                                      | VBS-3, VBS-7                      | VBS-3, VBS-7                   | VBS-3, VBS-5, VBS-6, VBS-7, VBS-10               | VBS-3, VBS-7           |
| Flooding (riverine, flash, coastal and urban flooding)                  | VBS-2, VBS-3, VBS-4, VBS-7, VBS-8, VBS-11, VBS-14 | VBS-1, VBS-2, VBS-3, VBS-4, VBS-7, VBS-12, VBS-13 | VBS-1, VBS-2, VBS-3, VBS-4, VBS-7 | VBS-3, VBS-7                   | VBS-2, VBS-3, VBS-5, VBS-6, VBS-7, VBS-8, VBS-10 | VBS-3, VBS-7, VBS-9    |
| Ground Failure  | VBS-3, VBS-4, VBS-7, VBS-11                       | VBS-3, VBS-7                                      | VBS-3, VBS-7                      | VBS-3, VBS-7                   | VBS-3, VBS-5, VBS-6, VBS-7, VBS-10               | VBS-3, VBS-7           |
| Severe Storms (windstorms, thunderstorms, hail, lightning and tornados) | VBS-2, VBS-3, VBS-4, VBS-7, VBS-11, VBS-14        | VBS-1, VBS-2, VBS-3, VBS-4, VBS-7, VBS-12, VBS-13 | VBS-1, VBS-2, VBS-3, VBS-4, VBS-7 | VBS-3, VBS-7                   | VBS-2, VBS-3, VBS-5, VBS-6, VBS-7, VBS-10        | VBS-3, VBS-7           |
| Severe Winter Storm (heavy snow, blizzards, ice storms)                 | VBS-3, VBS-4, VBS-7, VBS-11, VBS-14               | VBS-3, VBS-7                                      | VBS-3, VBS-7                      | VBS-3, VBS-7                   | VBS-3, VBS-5, VBS-6, VBS-7, VBS-10               | VBS-3, VBS-7           |

Notes:

- 1. Prevention:** Government, administrative or regulatory actions or processes that influence the way land and buildings are developed and built. These actions also include public activities to reduce hazard losses. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.
- 2. Property Protection:** 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.
- 3. Public Education and Awareness:** 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 school-age and adult education programs.
- 4. Natural Resource Protection:** 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.
- 5. Emergency Services:** 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.
- 6. Structural Projects:** 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.

## H.) PRIORITIZATION OF MITIGATION INITIATIVES

| Initiative # | # of Objectives Met | Benefits | Costs | Do Benefits equal or exceed Costs?<br>(Yes or No) | Is project Grant eligible?<br>(Yes or No) | Can Project be funded under existing programs/budgets?<br>(Yes or No) | Priority<br>(High, Med., Low) |
|--------------|---------------------|----------|-------|---|---|---|-------------------------------|
| VBS-1        | 8                   | M        | M     | Y   | N   | Y   | M-H                           |
| VBS-2        | 8                   | H        | H     | Y   | N   | N   | M-H*                          |
| VBS-3        | 28                  | M        | M     | Y   | N (Yes for 5 year update)                 | Y   | H                             |
| VBS-4        | 35                  | L        | L     | Y   | N   | Y   | H                             |
| VBS-5        | 5                   | M        | L     | Y   | N   | Y   | M                             |
| VBS-6        | 35                  | M        | L     | Y   | N   | Y   | H                             |
| VBS-7        | 28                  | H        | L-M   | Y   | Dependant on specific initiative          | Dependant on specific initiative                                      | M-H (dependant)               |
| VBS-8        | 6                   | M        | M-L   | Y   | Y   | Y (local match)   | M                             |
| VBS-9        | 3                   | M        | M     | Y   | Y   | Y (local match)   | M                             |
| VBS-10       | 6                   | M        | M     | Y   | Y   | Y (local match)   | M                             |
| VBS-11       | 6                   | M        | M     | Y   | N   | Y   | H                             |
| VBS-12       | 3                   | M-H      | L     | Y   | Dependant on specific initiative          | Dependant on specific initiative                                      | M-H (dependant)               |
| VBS-13       | 3                   | M-H      | L     | Y   | Dependant on specific initiative          | Dependant on specific initiative                                      | M-H (dependant)               |
| VBS-14       | 6                   | L        | L     | Y   | N   | Y   | H                             |

Notes: H = High. L = Low. M = Medium. N = No. N/A = Not applicable. Y = Yes.

\*This initiative has a Medium priority based on the prioritization scheme used in this planning process (implementation based on grant funding), however it is recognized that addressing repetitive and severe repetitive loss properties is considered a high priority by FEMA and SEMO (as expressed in the State HMP), and thus shall be considered a High priority for all participants in the planning process.

### Explanation of Priorities

- **High Priority** - A project that meets multiple objectives (i.e., multiple hazards), benefits exceeds cost, has funding secured or is an on-going project and project meets eligibility requirements for the Hazard Mitigation Grant Program (HMGP) or Pre-Disaster Mitigation Grant Program (PDM) programs. High priority projects can be completed in the short term (1 to 5 years).
- **Medium Priority** - A project that meets goals and objectives, benefits exceeds costs, funding has not been secured but project is grant eligible under, HMGP, PDM or other grant

programs. Project can be completed in the short term, once funding is completed. Medium priority projects will become high priority projects once funding is secured.

- **Low Priority** - Any project that will mitigate the risk of a hazard, benefits do not exceed the costs or are difficult to quantify, funding has not been secured and project is not eligible for HMGP or PDM grant funding, and time line for completion is considered long term (1 to 10 years). Low priority projects may be eligible other sources of grant funding from other programs. A low priority project could become a high priority project once funding is secured as long as it could be completed in the short term.

Prioritization of initiatives was based on above definitions: Yes

Prioritization of initiatives was based on parameters other than stated above: Not applicable.

**I.) FUTURE NEEDS TO BETTER UNDERSTAND RISK/VULNERABILITY**

None at this time.

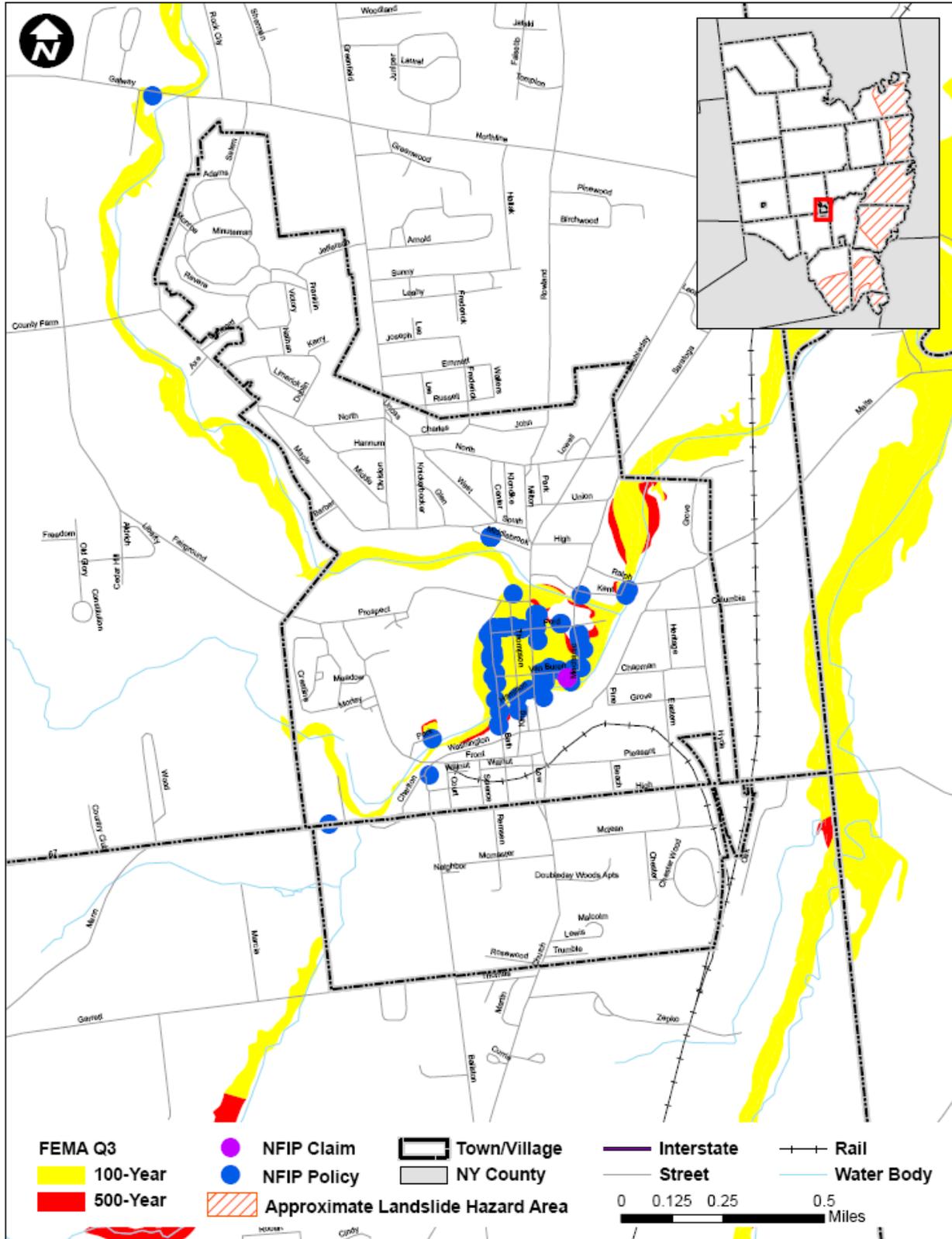
**J.) HAZARD AREA EXTENT AND LOCATION**

A hazard area extent and location map has been generated and is provided below for the Village of Ballston Spa to illustrate the probable areas impacted within the Village. This map is based on the best available data at the time of the preparation of this Plan, and is considered to be adequate for planning purposes. Maps have only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the Village of Ballston Spa has significant exposure. The County maps are provided in the hazard profiles within Section 5.4, Volume I of this Plan.

**K.) ADDITIONAL COMMENTS**

No additional comments at this time.

**SECTION 9.3: VILLAGE OF BALLSTON SPA**



Sources: FEMA Q3; FEMA Region II, 2008; HAZUS-MH MR3; NYSDFC, 2008

Notes: NFIP = National Flood Insurance Program

The entire municipality is vulnerable to the following hazards: earthquake, severe storm, and severe winter storm.