



9.4 TOWN OF CHILI

This section has the jurisdictional annex for the Town of Chili.

9.4.1 Hazard Mitigation Plan Point of Contact

These individuals are the hazard mitigation plan’s primary and alternate points of contact.

Primary Point of Contact	Alternate Point of Contact
Dawn Forte, Secretary to Supervisor Dunning 3333 Chili Avenue, Rochester, NY 14624 Phone: 585-889-6111 e-mail: dforte@townofchili.org	David Lindsay, Commissioner of Public Works/ Superintendent of Highways/ Floodplain Manager 200 Beaver Road, Churchville, NY 14428 Phone: (585) 889-2630 e-mail: dlindsay@townofchili.org

9.4.2 Municipal Profile

The Town of Chili is in the southwestern quadrant of Monroe County, and is a suburb of the City of Rochester. The town consists of 39.8 square miles in land area and 0.2 square mile in water area. The Genesee River forms part of the eastern town border – this and the Black Creek are the most significant local waterways. The Town of Chili was established in 1822 from part of the Town of Riga, and is now composed of four primary sections: Chili Center is the center of town government and the most urbanized portion of the town; North Chili is a hamlet in the northwest part of the town and home of Roberts Wesleyan College; South Chili is a rural area running along the New York State Thruway; and West Chili is a small community north of Black Creek Park. The community is near several major population centers in New York, with the closest being Rochester, followed by Buffalo and Syracuse.

The population of the Town was 28,625, according to the 2010 U.S. Census.

Growth/Development Trends

Table 9.4-1 summarizes recent residential/commercial development since 2010 to present and any known or anticipated major residential/commercial development and major infrastructure development identified for the next 5 years. Refer to the maps in Section 9.5.8 of this annex that illustrate the landslide, wildfire, and flood hazard areas.

Table 9.4-1. Growth and Development

Property or Development Name	Type (e.g., Res., Comm.)	# of Units / Structures	Location (address and/or Parcel ID)	Known Hazard Zones	Description/Status of Development
Recent Development from 2010 to present					
Microtel	Commercial	50 Room Hotel	3258 Chili Ave.	No	Complete
Wegmans Cooling Towers	Commercial	1 Building	249 Fisher Rd.	No	Complete
Unity Medical	Commercial	1 Building	3379 Chili Ave.	No	Complete
Creekside Plaza	Commercial	Burned Down 9/10/2015	3765 Chili Ave.	No	Complete
Five Star Bank	Commercial	1 Building	3171 Chili Ave.	No	Complete



Property or Development Name	Type (e.g., Res., Comm.)	# of Units / Structures	Location (address and/or Parcel ID)	Known Hazard Zones	Description/Status of Development
Fed Express	Commercial	1 Building	2 Boon Drive	No	Complete
Roberts Wesleyan Stadium	Commercial	1 Building	2301 Westside Dr.	No	Complete
Town Highway Garage	Commercial	1 Building	200 Beaver Road	No	Complete
BVR Construction	Commercial	1 Building	8 King Road	No	Complete
Roberts Wesleyan College GEO-Thermal	Commercial	1 Building	2301 Westside Dr.	No	Complete
Roberts Wesleyan College Clock Tower	Commercial	1 Building	2301 Westside Dr.	No	Complete
Wegmans Cheese Affinage	Commercial	Add Building	249 Fisher Rd.	No	Complete
PKG Equipment	Commercial	Add Warehouse	367 Paul Rd.	No	Complete
Genesee Valley Regional Mkt.	Commercial	Warehouse	1861 Scottsville Rd.	No	Complete
Turkish Society	Commercial	New Building/Worship	673 Beahan Rd.	No	In Development as of 8/31/2015
Northern Soy	Commercial	Add Warehouse	345 Paul Road	No	Complete
Genesee Valley Regional Mkt.	Commercial	Warehouse #2	1861 Scottsville Rd.	No	Complete
Roberts Wesleyan College Smith Science Ctr	Commercial	New Bldg.	2301 Westside Dr.	No	Complete
Fleet Pride	Commercial	Add Warehouse	1437 Scottsville Rd	No	Complete
Open Door Baptist Church	Commercial	Addition	350 Chili Scottsville Rd	No	Complete
Mavis Tire	Commercial	New Building	3209 Chili Ave.	No	In Progress as of 8/31/2015
C&M Forwarding	Commercial	Add Warehouse	44 Jetview Dr.	No	In Progress as of 8/31/2015
Genesee Valley Regional Mkt.	Commercial	Warehouse #3	1861 Scottsville Rd	No	In Progress
Union Square Apts.	Residential	117 Units	151 Union Sq. Blvd	No	In Process
Vista Villa Homes Subdivision	Residential	175 Units	100 Clubhouse Dr.	No	In Process 10/15/2015
Greenwood Town Homes	Residential	Subdivision #2	22 Bldgs/78 Units	No	In Process 10/15/2015
RG&E	Commercial	Regulation & Odorization Bldg.	689 Chili Scottsville Rd.	No	In Process 10/15/2015
Northern Soy	Commercial	Add Warehouse	345 Paul Road	No	Complete
Genesee Valley Regional Mkt.	Commercial	Warehouse #2	1861 Scottsville Rd.	No	Complete
Turkish Society	Commercial	New Building/Worship	673 Beahan Rd.	No	In Development as of 10/15/2015
RG&E	Commercial	Truck Storage Bldg	1300 Scottsville Rd	No	Complete



Property or Development Name	Type (e.g., Res., Comm.)	# of Units / Structures	Location (address and/or Parcel ID)	Known Hazard Zones	Description/Status of Development
Dunkin Donuts	Commercial	Convert Bank	3249 Union Street	No	Complete
American Tire Warehouse	Commercial	1 Building	1350 Scottsville Rd.	No	Complete
Amchar	Commercial	1 Building	100 Air Park Dr.	No	Complete
Known or Anticipated Development in the Next 5 Years					
Roberts Wesleyan College Athletic Ctr	Commercial	Renovations	2265 Westside Dr	No	In Progress
Wegmans Perishable Dist	Commercial	Solar Panels	249 Fisher Rd.	No	In Progress
McDonalds	Commercial	New Building	3303 Chili Ave.	No	In Progress
RG&E	Commercial	Control Building & Meter Bldg.	689 Chili Scottsville Rd	No	In Progress as of 10/15/2015
Dichario Office Bldg.	Commercial	2 Story	50 Air Park Dr.	No	Plans Approved 4/2015
Anchor Christian Church	Commercial	Addition	375 Beaver Rd.	No	Plans Approved 12/2014
Fast Trak	Commercial	1 Bldg.	1064 Scottsville Rd	No	Planning Bd. Tabled 10/2015
Convalescent Home	Residential	109 Unit Bldg w/ 28 Cottage Homes	3360 Chili Ave.	No	Planning Bd. Tabled 10/2015
RG&E Substation	Industrial	1 Bldg.	Scottsville Rd. (Krenzer Farms)	No	No Plans Yet
Pikuet Paving	Commercial	1 Bldg.	110 Golden Road	No	In Planning Board 10/20/2015
Black Creek Ind. Park	Commercial	8 Lots/10 Bldgs	3513 Union St.	No	In Planning Board 10/20/2015
Rose Hill Estates	Residential	161 Lot Subdivision	75 & 89 Beaver Rd.	No	In Planning Board 10/20/2015
Black Creek Industrial Park	Commercial	-	3513 Union Street	No	No Plans Yet
Beaver Road Industrial Park	Commercial	-	100 Beaver Road	No	No Plans Yet
Chili Community Center	Commercial	-	Unknown	No	No Plans Yet
Dichario Office Bldg.	Commercial	2 Story	50 Air Park Dr.	No	Plans Approved 4/2015
Anchor Christian Church	Commercial	Addition	375 Beaver Rd.	No	Plans Approved 12/2014
Roberts Wesleyan College Athletic Ctr	Commercial	Renovations	2265 Westside Dr	No	In Progress as of 10/15/2015
Wegmans Perishable Dist.	Commercial	Solar Panels	249 Fisher Rd.	No	In Progress as of 10/15/2015
McDonalds	Commercial	New Building	3303 Chili Ave.	No	In Progress as of 10/15/2015

* Only location-specific hazard zones or vulnerabilities identified.



9.4.3 Natural Hazard Event History Specific to the Municipality

Monroe County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5.0 of this plan. A summary of historical events is in each of the hazard profiles and includes a chronology of events that affected the County and its municipalities. For this plan update, to the extent possible, all events that occurred in the County were summarized to indicate the range and impact of hazard events. Information regarding specific damages is included, if available, based on reference material or local sources. This information is in Table 9.4-2. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.

Table 9.4-2. Hazard Event History

Dates of Event	Event Type	FEMA Declaration # (If Applicable)	County Designated?	Summary of Damages/Losses
May 8, 2010	High Wind	N/A	N/A	Wires Down: Pleasant View Dr., Hillary Dr., Indian Hill Dr., and Brookview Rd. Tree/Limbs Down: Beaver Rd., Westside Dr., Chestnut Ridge Rd., and Marshall Rd.
April 26 - May 8, 2011	Severe Storms, Flooding, Tornadoes, and Straight-line Winds	DR-1993	No	These damages were reported from April 26 – May 3, 2011: <ul style="list-style-type: none"> • Pole & Wires down: Westside Dr., • Water Problems: Saddleback Tr., Westside Dr., Mercedes Dr., Parkway Dr.
January 17, 2012	High Wind	N/A	N/A	Electrical/Wires Down Problem: Attridge Rd., Buffalo Rd., Scottsville Rd./Milewood Rd., Chili Ave./Beaver Rd., Westside Dr., and Alfred Ave. Light Pole Down: Daisy Ln. and Linnea La./Union St. Transformer/Power Out: Chili Ave./Chestnut Ridge
February 24, 2012	High Winds	N/A	N/A	Water Problem: San Mateo Rd.
October 27 – November 8, 2012	Hurricane Sandy	EM-3351	Yes	These damages were reported from Oct. 29 – November 7, 2012: <ul style="list-style-type: none"> • Water Problems: Sierra Rd., Trade Ct., Fenton Rd., Sequoia Dr., Tarrytown Dr., Brian Dr., Jensen Dr., Brook Valley Dr., Charmaine Rd., Madera Dr., Brookview Rd., Sequoia Dr., Davis Rd., and Grenell Dr. • Wires Down: Mercedes Dr., Alfred Ave., Hubbard Dr., Irving Dr., Ranblewood Dr., Chili Ave./Chestnut Ridge Rd., Chestnut Dr. (pole snap), Westway Dr., and Paul Rd. • Transformer blown: Mercedes Dr. • Risers on Home ripped off: Cross Bow • Tree down: Chili Ave., King Rd., Woodside Dr., Westside Dr., Old Ivy Cir., and Alfred Ave. • Tree thru roof: Hilltop Dr. • Mutual aid to Clifton NY wires down



Dates of Event	Event Type	FEMA Declaration # (If Applicable)	County Designated?	Summary of Damages/Losses
June 26 - July 11, 2013	Severe Storms and Flooding	DR-4129	No	<p>These damages were reported from June 28 – July 7, 2013:</p> <ul style="list-style-type: none"> • Water Problems: Meadow Farm S., Chili Scottsville Rd., Davis Rd., Bucky Dr., Westside Dr., Morrison Ave., Sand Pebble Dr., and Chili Ave. • Wires burning in tree: Brookview Rd. • Wires down in road: Wheat Hill/Archer Rd., Chili Ave. /Lawnsbury Dr., and Indian Hill Dr. • Lightning Strike: Shetland Circle • Mutual aid to Clifton NY wires down.
December 21, 2013	Ice Storm	N/A	N/A	Water Problems: Hunt Point, Daisy Lane, Gilead Hill Road, Whittier Road, Brian Dr., Union St., Hillary Dr., and Westside Dr. Mutual Aid fill in/Holley, NY
March 12, 2014	Blizzard	N/A	N/A	Closed Municipal Buildings/Schools Early/Roads impassable. Rescheduled Town Board meeting to 3/13/2014.
May 13-22, 2014	Severe Storms and Flooding	DR-4180	No	Water Problem: Deb Allen Drive. Public Assistance was requested by the Chili Fire Department to support mitigation of the water problem on Deb Allen Drive.
July 28, 2014	Flash Flood	N/A	N/A	Water Evacuations: W. Forest Drive, Westside Drive, Davis Road, and Bright Oaks Dr. Sent a Rescue to assist Caledonia with Water Problems.
November 17-26, 2014	Severe Winter Storm, Snowstorm, and Flooding	DR-4204	No	Wires Down/Chili Center Coldwater Road. Public Assistance was requested by the Chili Fire Department and RG&E to address wires down on Chili Ctr. Coldwater Road.
June 10, 2015	Thunderstorm Wind/ Hail	N/A	N/A	<p>Life Safety (evacuation, sheltering, injuries, deaths): Water Evacuation were made on Laredo Drive, Crossbow Drive, Brassier Drive, Union Street, Archer Road, and Hitree Lane. A Gas Leak was reported on Bright Oaks Drive, and a HazMat incident was reported on Chili Avenue.</p> <p>Losses of electrical service and in some cases roadway access resulted from downed power lines on Bright Oaks Drive, Fenton Road, Chestnut Ridge Road, Jenson Drive, Adela Circle, Archer Road, Toni Terrace, Sequoia Drive, Chili Avenue, San Mateo Road, Old Ivy Circle, Hallock Road, Hitree Lane, and Mercedes Drive. Several private facilities and homes were damaged from fallen trees, including homes on Red Bud Road, Bright Oaks Drive, Chestnut Ridge Road, and Sequoia Drive. Public Assistance was requested from the Chili Fire Department, Town of Chili – Highway Department & RG&E.</p> <p>Other losses due to costs for cleanup and debris, were incurred by the Town of Chili Highway Department & by RG&E.</p>



9.4.4 Hazard Vulnerabilities and Ranking

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

Hazard Risk/Vulnerability Risk Ranking

Table 9.4-3 summarizes the hazard risk/vulnerability rankings of potential hazards for the Town of Chili. The hazards of concern for the Town are those with a High hazard ranking.

Table 9.4-3. Hazard Risk/Vulnerability Risk Ranking

Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard ^{a, c}	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking ^b
Landslide	Exposed: \$8,342,622,610	Frequent	48	High
Severe Storm	Expected Losses from Wind Alone: \$0	Frequent	48	High
Wildfire	Exposed Value in the WUI: \$2,134,936,818	Frequent	39	High
Extreme Temperature	Damages Estimate Not Available	Frequent	36	High
Infestation	Damages Estimate Not Available	Frequent	36	High
Severe Winter Storm	1% Damage Loss Estimate: \$50,610,176 5% Damage Loss Estimate: \$253,050,882 10% Damage Loss Estimate: \$506,101,763	Frequent	36	High
Utility Failure	Damages Estimate Not Available	Frequent	36	High
Earthquake ^{d, e}	100-year MRP GBS: \$122,318 500-year MRP GBS: \$4,639,882 2,500-year MRP GBS: \$59,178,607 Annualized: \$67,434	Frequent	30	Medium
Civil Unrest	Damages Estimate Not Available	Frequent	18	Medium
Flood ^d	1% annual chance: \$63,439,530	Frequent	18	Medium
Hazardous Materials	Damages Estimate Not Available	Frequent	18	Medium
Terrorism	Damages Estimate Not Available	Frequent	18	Medium
Drought	Damages Estimate Not Available	Frequent	12	Low

Notes:

- a. Building damage ratio estimates based on FEMA 386-2 (August 2001)
 - b. The valuation of general building stock and loss estimates was based on custom inventory for the municipality.
High = Total hazard priority risk ranking score of 31 and above
Medium = Total hazard priority risk ranking of 15-30
Low = Total hazard risk ranking below 15
 - c. Loss estimates for the severe storm and severe winter storm hazards are structural values only and do not include the value of contents.
 - d. Loss estimates for the flood and earthquake hazards represent both structure and contents.
 - e. The HAZUS-MH earthquake model results are reported by Census Tract.
- MRP Mean return period
GBS General building stock
WUI Wildland- urban interface

National Flood Insurance Program (NFIP) Summary

Table 9.4-4 summarizes the NFIP statistics for the Town of Chili.





Table 9.4-4. NFIP Summary

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 100-year Boundary (3)
Chili (T)	181	24	\$111,637	1	0	136

Source: FEMA Region 2 2015

Notes:

- (1) Policies, claims, repetitive loss, and severe repetitive loss statistics provided by FEMA Region 2, and are current as of June 30, 2015. Total number of repetitive loss properties includes severe repetitive loss properties. Number of claims represents claims closed by June 30, 2015.
- (2) Total building and content losses from the claims file provided by FEMA Region 2.
- (3) Number of policies inside and outside of flood zones is based on latitude and longitude provided by FEMA Region 2 in the policy file. FEMA noted that for a property with more than one entry, more than one policy may have been in force or more than one Geographic Information System (GIS) specification was possible. Number of policies and claims, and claims total, exclude properties outside Monroe County boundary, based on provided latitude and longitude coordinates.

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Critical Facilities

Table 9.4-5 has HAZUS-MH estimates of the damage and loss of use to critical facilities in the community from 1- and 0.2-percent annual chance floods.

Table 9.4-5. Potential Flood Losses to Critical Facilities

Name	Type	Exposure		Potential Loss from 1% Flood Event		
		1% Event	0.2% Event	Percent Structure Damage	Percent Content Damage	Days to 100-Percent ⁽²⁾
Anchor Christian Church	Religious		X	-	-	-
Chili Fire Department	Fire	X	X	15.2	71.1	630
GCO Pump Station	Wastewater Pump	X	X	-	-	-
Riverdale 2 Pump Station	Wastewater Pump	X	X	-	-	-
Riverdale 3 Pump Station	Wastewater Pump	X	X	-	-	-
Riverdale 4 Pump Station	Wastewater Pump	X	X	-	-	-
Riverdale 5 Pump Station	Wastewater Pump	X	X	-	-	-
Riverdale 6 Pump Station	Wastewater Pump	X	X	-	-	-
Southwest Pump Station	Wastewater Pump		X	-	-	-

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

Note (1): HAZUS-MH 2.2 provides a general indication of the maximum restoration time for 100% operations. Clearly, a great deal of effort is needed to quickly restore essential facilities to full functionality; therefore this will be an indication of the maximum downtime (HAZUS-MH 2.2 User Manual).

Note (2): In some cases, a facility may be located in the DFIRM flood hazard boundary; however HAZUS did not calculate potential loss. This may be because the depth of flooding does not amount to any damages to the structure according to the depth damage function used in HAZUS for that facility type. Further, HAZUS-MH may estimate potential damage to a facility that is outside the DFIRM because the model generated a depth grid beyond the DFIRM boundaries.

NA Not available

X Facility in the DFIRM boundary

- Not calculated by HAZUS-MH 2.2

Other Vulnerabilities Identified

The municipality identified these vulnerabilities in their community:

- The last two winters brought more snowfall and lower temperatures than normal.





- The Town reports experiencing heavy, short duration rain/wind events more frequently than in years past.
- Train traffic is particularly heavy, and can be problematic for Fire/EMS/Police as they can tie-up up to three intersections of tracks and road at one time with the lines going thru the town. Trains in the Town of Chili run frequently; the Town has eight tracks that run thru the town, as profiled below.

CSX main line runs from Albany to Buffalo. The main line crosses the northwest portion of the town and continues into Rochester and points east. The main has two sets of tracks, both maintained to Federal Railway Administration Class 4 standards (max. speed 60 mph freight, 79 mph passenger). An overpass carries Union Street (NY 259) over the CSX main line. There are grade level highway crossings at King Road, Golden Road, and Westside Drive. All highway grade crossings have automatic warning lights and gates.

The CSX main line carries the bulk of rail freight traffic through the Rochester area. Traffic levels vary but generally average 25 to 45 trains per day.

The CSX West Shore Subdivision diverges from the CSX main just inside the western boundary of town, then heads east across town. It leaves town at the Genesee River, then continues east through the towns of Brighton, Pittsford, and Fairport where it rejoins the CSX main. The West Shore comprises a single track. It too is maintained to FRA Class 4 standards (60 mph for freight). It is used strictly for freight trains to bypass the City of Rochester when traffic congestion slows trains on CSX main through Rochester. If there is a derailment or accident on the main, the West Shore could see as many as 40+ trains a day.

Overpasses carry I-490 and Chestnut Ridge Road over the CSX West Shore. There are grade level highway crossings at Union Street, Chili Avenue, Old Scottsville Chili Road, Archer Road and Scottsville Road. All grade crossings have automatic warning lights and gates.

At the east end of town the CSX West Shore passes through Genesee Junction. Here it can interchange cars with both the R&S and the LA&L in a small freight yard. The only business with an active spur off the CSX West Shore is a propane dealer on Chili Avenue. The Suburban Propane Spur is active, but not used.

Rochester & Southern (R&S) crosses town from the southern boundary at Wheatland to the northern boundary near the Rochester Airport.

Once north of Chili, the R&S continues to an interchange with the CSX main line in the southwest corner of Rochester. A branch then continues north to the Eastman Kodak Company's Eastman Business Park. South of Chili, the R&S passes through Genesee Junction with connections to the CSX West Shore and the Livonia Avon & Lakeville. It then continues south to Caledonia and a connection with the Genesee & Wyoming railroad. From there, it runs south to its southern terminus at Silver Springs, NY and a connection with the Norfolk Southern, Southern Tier Line.

The entire R&S through Chili is single-tracked and is maintained. An overpass carries I-90 over the R&S; there are grade level highway crossings at Shaffer, Reed, Morgan, Krenzer, Brook, Ballantyne, Paul and Fisher Roads in the Town of Chili. All highway grade crossings are have automatic warning lights and gates. The R&S is a freight only railroad. Its primary shipments are rock salt and coal, though it also carries agricultural commodities and chemicals. There are two R&S customers in the



Town of Chili – a lumber dealer and a scrap metal recycler. Both are served by a single shared siding just east of the Rochester Airport.

Livonia Avon & Lakeville (LA&L) enters the eastern boundary of the Town of Chili, by a bridge over the Genesee River – a bridge incidentally shared with the CSX West Shore track. From there the LA&L runs several hundred yards west to its end at Genesee Junction yard. Here it can interchange with the CSX West Shore and the R&S. There is a single LA&L highway grade level crossing at Scottsville Road with automatic warning lights and gates (also shared with the CSX West Shore). LA&L is a freight only railroad – its primary shipments are corn syrup and bulk flour for delivery to food processing plants in Avon and Lakeville. It occasionally handles the shipment of agricultural commodities (corn, wheat and fertilizer, lumber and building supplies). Traffic depends on customer needs.

In addition to the three freight railroads, the National Railroad Passenger Corp. (**Amtrak**) operates passenger trains through the Town of Chili using the tracks of the CSX main line. There are no Amtrak stations in Chili, the nearest is in downtown Rochester. Currently there are 10 scheduled Amtrak trains each day through the Town of Chili, 5 in each direction. Amtrak trains generally operate at 79 mph through Chili.

- According to the 2008 FEMA FIS, USACE built the Mount Morris Dam on the Genesee River in Livingston County about 25 miles south of the Chili-Wheatland border. Completed in 1951, the resulting lake has a maximum usable storage capacity of 336,800 acre-feet at the spillway crest (elevation 760 feet). Storm or snowmelt runoff held by the dam is released gradually to minimize downstream flooding.
- DOT Bridges: The load posting of bridges and the inadequate maintenance of transportation facilities are the responsibilities of other jurisdictional parties. This results in increased travel times and delayed response of all emergency vehicles in the town.
- Black Creek Flooding: Debris from other locations can travel into the Black Creek, creating backup of water flow thru the creek and flooding issues for bridges and homes.



9.4.5 Capability Assessment

This section identifies the capabilities of the local jurisdiction:

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Community classification
- National Flood Insurance Program
- Integration of Mitigation Planning into Existing and Future Planning Mechanisms

Planning and Regulatory Capability

Table 9.4-6 summarizes the regulatory tools available to the Town of Chili.

Table 9.4-6. Planning and Regulatory Tools

Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Planning Capability				
Master Plan	Yes	Local	Supervisor	2030 Comprehensive Plan – Adopted 11/2/2011
Capital Improvements Plan	No			
Floodplain Management / Basin Plan	No			Comprehensive Plan includes Flood Hazard Areas, Special Flood Hazard Areas, Mitigation Measures, NFIP
Stormwater Management Plan	Yes	Local	Comm. Public Works/ Building Department	Town Code Book, Chap 500
Open Space Plan	Yes	Local	Supervisor	Town of Chili Open Space Master Plan, 2015; Adopted 5/13/2015
Stream Corridor Management Plan	No			
Watershed Management or Protection Plan	Yes	County	Commissioner Public Works/County	Black Creek Watershed Coalition
Economic Development Plan	No			Comprehensive Plan includes economic development component
Comprehensive Emergency Management Plan	Yes	Town	Supervisor	The Town has an Emergency Disaster Plan/NIMS
Emergency Response Plan	No			
Post-Disaster Recovery Plan	Yes	Town	Supervisor	Post-Disaster Recovery Plan is in the Emergency Disaster Plan, and follows NIMS guidelines.
Transportation Plan	No			
Strategic Recovery Planning Report	No			
Other Plans	Yes	Town	Supervisor	IT Disaster Recovery Plan adopted in 2014



Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Other Plans	Yes	Town	Supervisor	Town of Chili Parks and Recreation Master Plan Update, 2013
Other Plans	Yes	Town	Supervisor	Towns of Wheatland and Chili Agriculture and Farmland Protection Plan, 2015
Regulatory Capability				
Building Code	Yes	Local	Supervisor	Construction Codes, Uniform Chapter 210, Town Code Book
Zoning Ordinance	Yes	Local	Supervisor	Zoning Chapter 500 Town Code Book and Design Standards
Subdivision Ordinance	Yes	Local	Supervisor	Subdivision of Land Chapter 439 Town Code Book
NFIP Flood Damage Prevention Ordinance	Yes	Local	Supervisor	Flood Damage Prevention Chapter 277 Town Code Book
NFIP: Cumulative Substantial Damages	Yes	Local	Supervisor	Flood Damage Prevention Chapter 277 Town Code Book
NFIP: Freeboard	Yes	State, Local	-	State mandated Base Flood Elevation (BFE)+2 for single and two-family residential construction, BFE+1 for all other construction types
Growth Management Ordinances	No			
Site Plan Review Requirements	Yes	Local	Building Department	Zoning Chapter 500 Town Code Book and Design Standards
Stormwater Management Ordinance	Yes	Local	Building Department	Stormwater Management Chapter 433 Town Code Book
Municipal Separate Storm Sewer System (MS4)	Yes	Local	Public Works	Oversight by Stormwater Mgt. Officer
Natural Hazard Ordinance	No			
Post-Disaster Recovery Ordinance	No			
Real Estate Disclosure Requirement	Yes	State		NYS mandate, Property Condition Disclosure Act, NY Code – Article 14 §460-467
Other [Special Purpose Ordinances (i.e., sensitive areas, steep slope)]	Yes	Local	Supervisor	Freshwater Wetlands Chapter 283 Town Code Book

Administrative and Technical Capability

Table 9.4-7 summarizes potential staff and personnel resources available to the Town of Chili.

Table 9.4-7. Administrative and Technical Capabilities

Resources	Is this in place? (Yes or No)	Department/ Agency/Position
Administrative Capability		
Planning Board	Yes	Planning Board/Zoning Board and Building Department Staff, along with Town Supervisor and





Resources	Is this in place? (Yes or No)	Department/ Agency/Position
		Town Engineer
Mitigation Planning Committee	No	
Environmental Board/Commission	Yes	Conservation Board
Open Space Board/Committee	Yes	Adopted 5/12/2015
Economic Development Commission/Committee	No	
Maintenance Programs to Reduce Risk	No	
Mutual Aid Agreements	Yes	Supervisor/Highway/DPW/Fire Depts.
Technical/Staffing Capability		
Planners or Engineers with knowledge of land development and land management practices	Yes	Commissioner of Public Works/Town Engineer
Engineers or Professionals trained in construction practices related to buildings and/or infrastructure	Yes	Commissioner of Public Works/Town Engineer
Planners or engineers with an understanding of natural hazards	Yes	Commissioner of Public Works/Town Engineer
NFIP Floodplain Administrator	Yes	Commissioner of Public Works
Surveyors	No	
Personnel skilled or trained in GIS and/or HAZUS-MH applications	Yes	IT Director/Commissioner of Public Works/Fire Depts./Town Engineer
Scientist familiar with natural hazards	No	
Emergency Manager	Yes	Supervisor
Grant Writers	Yes	Supervisor, Commissioner of Public Works, Contractor w/firms
Staff with expertise or training in benefit/cost analysis	Yes	Director of Finance
Professionals trained in conducting damage assessments	No	Usually damage estimates would be done by insurance agencies or FEMA

Fiscal Capability

Table 9.4-8 summarizes financial resources available to the Town of Chili.

Table 9.4-8. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	Yes
Capital Improvements Project Funding	No
Authority to Levy Taxes for specific purposes	Yes
User fees for water, sewer, gas or electric service	No
Impact Fees for homebuyers or developers of new development/homes	Yes
Stormwater Utility Fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	Yes
Withhold public expenditures in hazard-prone areas	No
Other Federal or State Funding Programs	Yes
Open Space Acquisition Funding Programs	No
Other	



Community Classifications

Table 9.4-9 summarizes classifications for community program available to the Town of Chili.

Table 9.4-9. Community Classifications

Program	Do you have this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	N/P	
Building Code Effectiveness Grading Schedule (BCEGS)	No		
Public Protection (Insurance Services Office [ISO] Fire Protection Classes 1 to 10)	Yes	Fire Departments	
Storm Ready	Yes	StormReady County	
Firewise	No		
Disaster/Safety Programs in/for Schools	Yes	School Districts	
Organizations with Mitigation Focus (advocacy group, non-government)	No		
Public Education Program/Outreach (through website, social media)	No		
Public-Private Partnerships	No		

N/A = Not applicable. NP = Not participating. - = Unavailable. TBD = To be determined.

The classifications in Table 9.4-9 relate to the community’s ability to provide effective services to lessen its vulnerability to the hazards identified. These classifications can be viewed as a gauge of the community’s capabilities in all phases of emergency management (preparedness, response, recovery and mitigation) and are used as an underwriting parameter for determining 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 1 being the best possible classification, and class 10 representing no classification benefit. Firewise classification is higher if the subject property is more than 1000 feet from a creditable fire hydrant and is within 5 road miles of a recognized Fire Station.

Criteria for classification credits are in:

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

Self-Assessment of Capability

Table 9.4-10 has an approximate measure of the Town of Chili’s capability to work in a hazard-mitigation capacity and/or effectively implement hazard mitigation strategies to reduce hazard vulnerabilities.



Table 9.4-10. Self-Assessment Capability for the Municipality

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

National Flood Insurance Program

NFIP Floodplain Administrator (FPA)

Commissioner of Public Works/Highway

Flood Vulnerability Summary

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

Resources

The Town FPA is the sole person assuming the responsibilities of floodplain administration, and is provided with technical support and guidance from NYS DEC and the Town Engineer, as needed. The Town FPA administers permit reviews, inspections, and education and outreach surrounding floodplain management issues. While there is currently no education or outreach to the community regarding flood hazards/risk, and flood risk reduction through NFIP insurance, mitigation, etc., the Town is planning to provide such resources on its website and potentially in a newsletter that goes to all homeowners.

The Town FPA did not identify any barriers to running an effective floodplain management program in the Town of Chili, and feels that he is adequately supported and trained to fulfill the responsibilities of municipal Floodplain Administrator. The Town FPA expressed interest in attending continuing education and certification training on floodplain management if it were offered in the County for all local floodplain administrators.

Compliance History

As of June 30, 2015 there are 181 policies in force, 136 of which are in the 100-yr flood boundary. There is one repetitive loss and no severe repetitive loss properties in the Town. Between 1978 and June 30, 2015, 24 claims were paid totaling \$111,637. According to the NFIP Policy Statistics report available at the time of this plan, the policies insured \$22.7 million of property with total annual premiums of \$188,502.

The Floodplain Administrator is unaware of any outstanding NFIP compliance issues in the community, and believes that the most recent Community Assistance Visit (CAV) was completed in 2008.





Regulatory

The Town's Flood Damage Prevention Ordinance (FDPO) was last reviewed and updated in July 2008 and is in Chapter 277 of the local code. Floodplain management regulations and ordinances meet, but do not exceed the FEMA and New York State minimum requirements.

There are other local ordinances, plans, and programs that support floodplain management and meeting NFIP requirements. One example of this is that the Town Engineer and Commissioner of Public Works considers reducing flood risk when reviewing development applications.

Community Rating System

The Town of Chili does not participate in the Community Rating System (CRS) program at this time, but would consider doing so in the future.

Other Capabilities Identified

Previous actions that are now on-going programs and capabilities are described below. (Refer to Table 9.4-11):

- A National Weather Service Surveillance Radar System, at Greater Rochester International Airport, can provide early detection of storms (regarding storm path and expected rainfall). This tool benefits the Town of Chili and several other local municipalities (FEMA FIS 2008).
- Preventative Measures
 - The Town and Fire Departments annually stockpile emergency salt supplies for winter roads.
 - The Building Department provides comprehensive inspection services that may pertain to existing and new infrastructure, and is ongoing throughout the year.
 - In 2014, RG&E reviewed of Utility Service & restoration plans throughout the Town. The company is currently in the process of completing the Rochester Area Reliability Project. As part of this project, RG&E gathered input regarding critical facilities in the Town of Chili that must remain operational during a town-wide power outage.
 - All Town Schools (Churchville-Chili, Wheatland-Chili, Cal-Mum, and Gates-Chili) comply with "Project Save" regulations for plan annual review and revision cycles. There are no assigned dates for doing the update, but the updates do happen annually if not more.
- Plans and Regulations
 - Chili FD, Clifton FD and Chili Volunteer Ambulance Service (CVAS) have Mutual Aid Agreements in place. The Town has agreements in place with Municipalities/County & State. Emergency service jurisdictions such as the Chili Fire Department and CVAS are engaged in local municipal government processes, reviewed and budgeted annually.
 - The Town DPW, Fire Departments, and Fire Marshal ensure proper disposal of hazardous waste per the Town Emergency Plan, and based on situation.
 - The Building Department enforces government permit processing that may pertain to existing or new infrastructure, and is ongoing throughout the year.
 - The Commissioner administers a Floodplain Management Program for new/existing structures that is ongoing throughout the year.
 - Special Hazard Areas in the Town are identified in the Town's Comprehensive Plan and in FEMA floodplain mapping, updated in 2011.
 - The Town, County, and State have ongoing maintenance of existing and new public infrastructure.



- The Town Supervisor and Highway Department solicit inter-municipal and interagency cooperation, as needed.
- The Town Building Dept. enforces the building code as required for existing and new infrastructure.
- The Town Supervisor/ Building/ Commissioner of Public Works complies with applicable federal and state regulations.
- The Town Supervisor and Commissioner of Public Works regularly reviews local laws through zoning and planning reviews that are completed monthly.
- The Town Board enacted Local Law #205, Buildings & Property Maintenance requiring property owners to demolish and remove unsafe structures from their properties. The law was adopted on 6/10/2015, and is enforced by the Building Department as needed.
- The Town reviews emergency plans for public facilities to ensure that appropriate measures are considered and referenced. Specifically, the Town has an Emergency Evacuation Plan in place that is posted in all departments of the Town Offices, and the Town hold annual drills and staff presentation/videos per the Public Employee Safety and Health (PEOSH).
- Fire Prevention
 - The Chili Fire Department runs a 24x7 EMS, providing emergency medical services to the community.
 - The Chili Fire Department develops and schedules an annual campaign for fire prevention to all schools in the Town of Chili for approximately 3,000 children.
 - The Chili Fire Department encourages residential use of smoke detectors through public education on the Town webpage, and carries fire detectors on all fire trucks to provide at no cost to residents as part of a giveaway program.
 - The Chili and Clifton Fire Departments receive annual water rescue training and equipment e.g., wet suits and associated equipment as needed.
- Structural Projects
 - The Commissioner of Public Works and Building Department target hardens new and existing critical facilities, as needed and depending on the facility's location, in compliance applicable Town, State, and Federal codes.
 - The Town DPW/Highway Department installed permanent backup power supply generators at the Town Hall in Nov., 2010 and at the Highway Dept. (also a municipal fueling station) in Nov. 2012.
- Education and Awareness Program
 - The Town promotes understanding and use of (telephone number) 811, Call Before You Dig, by making brochures available at the Front Desk of the Town Hall.
 - The Town DPW/Highway Department provides construction information and project status information through the Town website on sites that impact traffic throughout the Town.

Integration of Hazard Mitigation into Existing and Future Planning Mechanisms

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

Planning

The Town's recent comprehensive plan, adopted in 2011, provides a future land use map illustrating potential future development and growth opportunities and priorities with the goals of sustaining the town's quality of



life, protecting its natural resource base, and promoting orderly growth and development. The future land use map encourages new development to occur in the area north of Black Creek where principal roads connect the town to other communities and where town public sewers and other facilities needed to support the pattern of concentrated development already exist. The plan calls for the development of a Chili Center Master Plan, to be completed in 2016, to guide a mixed-use transformation of roughly 670 acres in the Town's Core. Chili Center, generally located between Chili Avenue, Beaver Road, Archer Road, and Paul Road, currently consists of both Town- and privately-owned land, the old Town Hall and highway garage, and a number of other parcels under a mix of zoning types. The sub-area master planning process will focus on development in this area to foster community identity and create a robust center for Chili community life (Town of Chili 2011).

Land Use Planning: The Town of Chili has a Planning Board and Zoning Board of Appeals that review all applications for development and consider natural hazard risk areas. Many development activities require additional levels of environmental review, specifically NYS SEQRA and Federal NEPA requirements. The Town has several committees, including a Drainage Committee that assists in monitoring and making recommendations for improvements in the Town's drainage district, and a Traffic and Safety Committee that assists resident's concerns on traffic and safety issues.

Town of Chili 2030 Comprehensive Plan: The Town of Chili has had several comprehensive plan versions, from 1970, 1991, and 2010. In 2011, the Town developed a 2030 Comprehensive Plan to consider major changes and more recent goals. The current version of the Plan includes the identification of natural hazard risk areas, like wetlands and floodplains, and land use and zoning recommendations for managing risks and directing growth. Some of the recommendations included:

1. Examine and adopt appropriate changes to Town Code to streamline all land development regulations.
2. Examine the possibility of Transfer of Development Rights to protect agricultural areas and the enactment of environmental protection overlay districts.
3. Undertake a drainage study for the area along the south side of Paul Road.
4. Undertake a sanitary sewer study for the area between North Chili and West Chili (from I-490 to north of King Road and west to the Town boundary).
 - a. The Town completed a study of a portion of this area. This study led to the installation of public sewers starting at the southern branch of the CSX Railroad extending north under the main line of the CSX Railroad to King Road.

Town of Chili Parks and Recreation Master Plan Update, 2013: This plan provides the Town of Chili with guidelines for the expansion and improvement of community parks and recreational parks over the next 5 years. It identifies future recreational needs and establishes long-term plans based on Township growth goals, environmental capacity, and planning and zoning regulations. The plan contains recommended open space management strategies to facilitate sustainability and hazard risk reduction. These strategies focus on the management of wooded areas, exotic plant species, wildlife and habitat, soil (to minimize erosion and sedimentation), and noise.

Town of Chili Open Space Master Plan, 2015: The Town developed this plan as to track open spaces and identify actions to continue their preservation for a combination of environmental, community, and fiscal benefits. The environmental benefits and goals focus on minimizing runoff and reducing erosion, maintaining forests and woodlands to improve air quality, reducing habitat fragmentation, and preserving local plant and animal species.

Towns of Wheatland and Chili Agriculture and Farmland Protection Plan, 2015: This plan considers measures necessary to ensure the continuation of agriculture and farmland in the Town of Chili. During a Strengths/Weaknesses/Opportunities/Threats (SWOT) meeting, the Town identified impacts on natural resources, environmental changes and resource extraction, and global warming/climate change/severe weather



as potential threats to the community's agriculture industry. The plan examines the current division of farmland in the Town, noting that 116 acres are in the floodway. The appendices to this plan are available publicly on the Town's website.

Regulatory and Enforcement

Construction Codes, Uniform Chapter 210: The building codes are strictly enforced to make new and renovated buildings as prepared as possible for hazard related incidents. The Town complies with New York State Uniform Fire Prevention and Building Code (the Uniform Code) and the State Energy Conservation Construction Code (the Energy Code).

Flood Damage Prevention Chapter 277: This chapter promotes the public health, safety, and general welfare of residents and seeks to minimize public and private losses from floods. The chapter regulates development to promote flood resistant structures and controls the alteration of floodplains to prevent increased vulnerability.

Freshwater Wetlands Chapter 283: This chapter establishes the Town's authority over any activities related to wetlands and notes that all regulations will comply with the New York Environmental Conservation Law.

Stormwater Management Chapter 433: The Town's stormwater management chapter seeks to mediate the adverse impacts of stormwater runoff caused by existing drainage systems. It does not specifically reference stormwater controls but instead provides directions to appropriate related articles, including *Design Criteria and Construction Standards (Chapter 223)*, *Reimbursement of Professional Fees (Chapter 266)*, *Flood Damage Prevention (Chapter 277)*, *Freshwater Wetlands (Chapter 283)*, *Storm Sewers (Chapter 429)*, *Subdivision of Land (Chapter 439)*, and *Zoning (Chapter 500)*. The Town of Chili Stormwater regulations mandate that development in excess of 1 acre of disturbance must follow the requirements of the NYS Stormwater Design Manual that includes provisions for the reduction of stormwater run-off.

Subdivision of Land Chapter 439: The Town's Planning Board is tasked with site plan/subdivision review. The Planning Board pays special attention to ensure that developments mitigate the issues associated with natural hazards.

Zoning Chapter 500: The Town of Chili's zoning code includes districts and standards pertaining to the mitigation of hazards. These sections include the floodway district and floodplain overlay district.

Fiscal

Operating Budget: The Town's operating budget contains minimal provisions for expected repairs like snow removal and infrastructure repair after a storm or natural disaster. The Town includes special funds for local fire protection, water, and ambulance districts.

Grants: The Town is the recipient of a number of county, state, and federal grant programs. In 2014, 1.1 percent of the Town's revenue consisted of operating grants and contributions, while 1.5 percent consisted of capital grants and contributions. The Town received more than \$361,000 in grants during 2014 for use on various projects, including hazard prevention and mitigation initiatives.

Education and Outreach

Town of Chili staff attend trainings and classes sponsored by Monroe County Department of Planning and Development, Monroe County Office of Emergency Management, or by state and federal agencies, as able and to meet all professional requirements. Town emergency responders have the option to attend courses at the



Monroe County Public Safety Training Facility. The Town reports that municipal highway, DPW, and parks staff (by Comp Ins.) and all Fire Departments get training or continuing professional education supporting natural hazard risk reduction. Further, select town departments or staff participate in associations, organizations, groups or other committees that support natural hazard risk reduction and build hazard management capabilities including the Finger Lakes Building Officials Association, Inc. (FLOBA) and the Monroe County Storm Water Coalition.

The Town of Chili maintains a public safety webpage that allows it to post educational materials for residents to reduce vulnerability to local hazards. Current topics on the website include bullying, online safety (for kids and adults), home safety hazards, and fall season safety tips. Similar topics are presented in a brochure informing citizens about natural hazards that is available at the front desk of the Town Hall. The Town provides a brief announcement about the development of a Public Health Emergency Plan (in conjunction with Monroe County) and a request for Points of Dispensing (POD) volunteers. It offers residents the opportunity to contribute existing skills to support a POD activation.

The Gates Fire District provides fire protection services to the Towns of Gates and Chili. As part of its services, it maintains a website that includes public safety education and lesson plan ideas (under the + Fire Prevention page). The Career Fire Prevention Officer provides community fire protection and safety lessons in local schools, businesses, and senior centers. Residents have the ability to sign up for reverse 911 cell phone notifications of emergency situations through the Monroe County Emergency Communications Department.

9.4.6 Mitigation Strategy and Prioritization

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

Past Mitigation Initiative Status

Table 9.4-11 indicates progress on the community's mitigation strategy identified in the 2011 Plan. Actions that are carried forward as part of this plan update are included in the following subsection in Table 9.4-12 with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the Table 9.4-11 and may also be found in the Capability Assessment section.



Table 9.4-11. Past Mitigation Initiative Status

2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status Please describe what was accomplished and indicate % complete. If there was no progress, indicate what obstacles/delays encountered? If there was progress, how is/was the action being funded (e.g., FEMA HMGF grant, local budget)?	Next Step (Include in 2017 HMP? or Discontinue)	Describe Next Step If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). If discontinue, explain why.
ES-3: Establish an active Recruitment and Retention (of providers) Program.	Chili Fire Department/Clifton Fire Department/Chili Ambulance	In Progress	Continually recruiting for Chili FD, Clifton FD, and Chili Ambulance. Obstacles – Residents do not want to Volunteer.	Include	Evaluate on a monthly, yearly basis recruitment and retention programs.
ES-4: Stockpile emergency supplies.	Monroe County/ State/ Federal	Complete Yearly	Ongoing – Town will only try to stockpile Salt.	Discontinue	The Town & FD’s do not stockpile supplies other than trying to stockpile Salt for Roads. Monroe County has Point of Dispensing (POD) units. The Town has no intentions of stockpiling other than salt. Moved to ongoing operational capability.
ES-5: Solicit “Mutual Aid” agreements.	Chili Fire Department /Chili Volunteer Ambulance Service (CVAS)/ Supervisor/ DPW	Complete Yearly	Chili FD, Clifton FD & CVAS have Mutual Aid Agreements in place. The Town has agreements in place with Municipalities/County & State	Discontinue	Integrated into the Town’s normal operations. Moved to ongoing operational capability.
ES-6: Engage emergency service jurisdictions in local municipal government processes.	Supervisor/CFD/CVAS	Complete Yearly	Yearly Agreements as Budgeted.	Discontinue	Integrated into the Town’s normal operations. Moved to ongoing operational capability.
NRP-1: Ensure proper disposal of Hazardous Waste.	DPW/ Fire Departments/ Fire Marshal	Complete Ongoing Process	Per Town Emergency Plan; Based on situation.	Discontinue	Integrated into the Town’s normal operations. Moved to ongoing operational capability.
NRP-2: Enforce government permit processes. This may pertain to existing and/or new infrastructure.	Building Dept./Highway	Complete/Ongoing	The Building Department enforces this process which is ongoing thru out the year.	Discontinue	Integrated into the Town’s normal operations. Moved to ongoing operational capability.



2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status Please describe what was accomplished and indicate % complete. If there was no progress, indicate what obstacles/delays encountered? If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2017 HMP? or Discontinue)	Describe Next Step If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). If discontinue, explain why.
NRP-3: Provide comprehensive inspection services. This may pertain to existing and/or new infrastructure.	Building Dept./Highway	Complete/Ongoing	The Building Department enforces this process which is ongoing thru out the year.	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
NRP-5: Maintain "Urban Forests."	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
NRP-4: Administer a Floodplain Management Program. This may pertain to existing and/or new infrastructure.	Floodplain Admin.	Complete/Ongoing	Commissioner looks at this for new/existing structures which is ongoing thru out the year.	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
PEA-3: Review Utility Service & restoration plans.	Utilities	Completed in 2014	RG&E did contact the Town as to what facilities in the Town would be critical to keep operational during a town-wide power outage.	Include	RG&E is in the process of the Rochester Area Reliability Project. (See RG&E for Details).
PEA-4: Identify and use a "Speakers Bureau."	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
PP-1: Identify "special hazard" areas.	DPW/Highway	Completed 11/2/2011	In the Town's Comprehensive Plan/FEMA Floodplain	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
PP-2: Maintain public infrastructure. This may pertain to existing and/or new infrastructure.	DPW/Highway	Complete/Ongoing	This also would apply to County/State	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
PP-3: Solicit inter-municipal and interagency cooperation.	Supervisor/Highway	Complete/Ongoing as needed.	Depends on the need.	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
PP-4: Promote purchase of appropriate hazard insurance policies. This	N/A	No Progress	N/A	Discontinued	Not applicable to Town.





2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status Please describe what was accomplished and indicate % complete. If there was no progress, indicate what obstacles/delays encountered? If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2017 HMP? or Discontinue)	Describe Next Step If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). If discontinue, explain why.
may pertain to existing and/or new infrastructure.					
PP-5: Property acquisition	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
PR-1: Enforce Building Code as required for existing and new infrastructure.	Building Dept.	Complete/Ongoing	The Building Department enforces this process which is ongoing thru out the year.	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
PR-2: Comply with applicable federal and state regulations.	Supervisor/Building/Comm. Public Works	Ongoing		Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
PR-5: Regular review of Local Laws	Supervisor/Commissioner Public Works	Complete/Ongoing as needed.	Zoning/Planning Reviews are being done monthly.	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
SP-1: Disaster "proof" public facilities. This may pertain to existing and/or new infrastructure.	Supervisor/Commissioner Public Works	Complete 11/2010 Town Hall 11/2012 Hwy. 12/2010 Red Cross Shelter	Generators were installed for the Town Hall & Highway Department, and a designated American Red Cross Shelter at the Chili Senior Center.	Discontinue	Project completed – no longer applicable.
SP-2: Secure and provide redundant critical systems and facilities. This may pertain to existing and/or new infrastructure.	Town of Chili IT, MIS (Management Information Systems)	Complete 8/2015	All primary data on the Town Hall & DPW servers are backed up nightly to the Town Hall Site; Replication of server is backed up every 20 minutes during business hours with emergency servers at DPW.	Discontinue	Project completed – no longer applicable.
SP-3: "Target Harden" facilities. This may pertain to existing and/or new infrastructure.	Commissioner Public Works/Building Dept.	Ongoing	This would depend on the location of where a building would be located within the Town. The building department would comply with the Town Code/State Codes.	Discontinue	Not applicable to Town.



2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status Please describe what was accomplished and indicate % complete. If there was no progress, indicate what obstacles/delays encountered? If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2017 HMP? or Discontinue)	Describe Next Step If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). If discontinue, explain why.
SP-4: Expand fiber telecommunications networks.	MIS/County/Time Warner	Complete	Fiber telecommunications networks were expanded by Time Warner in 2006 and by Monroe County in 2013.	Discontinue	Project completed – no longer applicable.
EPI-PR-2: Local Project. Provide HIV screening and public education (Democrat & Chronicle, 7-21-03).	N/A	No Progress	N/A	Discontinue	Not applicable to Town.
Fire-ES-2: Local Project. Continue to provide Emergency Medical Services to the community.	Chili FD	Complete/Ongoing	Chili Fire Dept. runs EMS calls 24 x 7	Discontinue	Integrated into the Town’s normal operations. Moved to ongoing operational capability.
Fire-PEA-1: Local Project. Develop and schedule an annual campaign for Fire Prevention at schools, community functions, and public facilities.	Chili FD	Complete/Ongoing annual	Chili Fire Dept. does annual prevention to all schools in the Town of Chili for approximately 3,000 children.	Discontinue	Integrated into the Town’s normal operations. Moved to ongoing operational capability.
Fire-PP-1: Encourage residential use of smoke detectors through public education, and “give away” programs. This may pertain to existing and/or new infrastructure.	Chili FD	Complete/Ongoing	Using web page thru fire prevention and carry detectors on all trucks.	Discontinue	Integrated into the Town’s normal operations. Moved to ongoing operational capability.
Fire-SP-1: Local Project. Plan, design and develop enhanced, local facilities for on-site specialized emergency training.	N/A	No Progress	N/A	Discontinue	Not applicable to Town.
FI-ES-1: Provide Special Operations and Tactical Rescue training including water rescue training	N/A	No Progress	N/A	Discontinued	Not applicable to Town.



2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status Please describe what was accomplished and indicate % complete. If there was no progress, indicate what obstacles/delays encountered? If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2017 HMP? or Discontinue)	Describe Next Step If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). If discontinue, explain why.
FI-ES-5: Provide water rescue training and equipment e.g. Wet Suits and associated equipment.	Chili FD/Clifton FD	Complete/Ongoing Annual	Annual Training	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
FI-PEA-1: Provide information about the Erie Canal and its spillway locations	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
FI-PP-1: Encourage affected property owners to purchase Flood Insurance. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
FI-PP-2: Participate in the federal Community Rating System. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
FI-PP-5: Local Projects with the U.S. Army Corps of Engineers, "Risk Management Program." Levy inspection, safety analysis and maintenance requirements (SEMO Region V meeting, 7.29.08).	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
FI-PR-1: Implement an annual, "Waterway/ Drainage Maintenance" Program	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
FI-SP-1: Local Project. Implement mitigation measures for Irondequoit Creek, as identified by the	N/A	No Progress	N/A	Discontinued	Not applicable to Town.



2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status Please describe what was accomplished and indicate % complete. If there was no progress, indicate what obstacles/delays encountered? If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2017 HMP? or Discontinue)	Describe Next Step If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). If discontinue, explain why.
U.S. Army Corps of Engineer’s 2003 proposal, and as agreed by local parties. (reference – Democrat & Chronicle, 3-2-03). This may pertain to existing and/or new infrastructure.					
Fl-SP-2: Local Project. Implement municipal mitigation measures identified by USGS modeling, proposed by the Storm Water Coalition and agreed by local parties. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-ES-1: Develop a strategy to reduce the time it takes to clear streets (Rights-of-Way) of debris	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-ES-2: Regularly review restoration priorities	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-ES-3: Enhance utility “Town Liaison” Program	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-PEA-2: Develop alternate communications plan	N/A	No Progress	N/A	Discontinued	Not applicable to Town.



2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status Please describe what was accomplished and indicate % complete. If there was no progress, indicate what obstacles/delays encountered? If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2017 HMP? or Discontinue)	Describe Next Step If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). If discontinue, explain why.
Ice-PEA-3: Provide automated utility restoration schedule to the public	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-PEA-4: Provide more public outreach during an emergency	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-PEA-5: Expand utility Customer Service capacity	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-PEA-6: Expand information available on websites	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-PP-1: Encourage installation of backup power supply. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-PR-1: Implement an “Annual, Tree/Stream Maintenance Program”	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-PR-2: Relocate vulnerable utilities. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-PR-3: Develop DPW/DOT Plans for debris clearance, removal, and disposal	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-PR-4: Lobby state and federal officials to require permanent installation of	N/A	No Progress	N/A	Discontinued	Not applicable to Town.



2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status Please describe what was accomplished and indicate % complete. If there was no progress, indicate what obstacles/delays encountered? If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2017 HMP? or Discontinue)	Describe Next Step If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). If discontinue, explain why.
emergency generators on-site at health care facilities and elderly housing facilities. This may pertain to existing and/or new infrastructure.					
Ice-SP-1: Install permanent backup power supply at public facilities. This may pertain to existing and/or new infrastructure.	Commissioner of Public Works	Complete	Generators were installed at the Town Hall in Nov., 2010 and at the Highway Dept. in Nov. 2012.	Discontinue	Project completed – no longer applicable.
Land-PEA-1: Local Project. Promote understanding and use of (telephone number) 811, “Call Before You Dig.”	Supervisor	Complete/Ongoing	Brochures located at the Front Desk Town Hall	Discontinue	Integrated into the Town’s normal operations. Moved to ongoing operational capability.
Land-PR-1: Local Project. Enact Local Laws: to restrict development on steep slopes; to require property owners and/or mine operators to rehabilitate open mines at closing. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
SC-PR-1: Local Project. Enact Local Laws that require property owners to demolish and remove unsafe structures from their property/ies. This may pertain to existing and/or new infrastructure.	Town Board	Complete/Ongoing Law Adopted 6/2015	Local Law #205, Buildings & Property Maintenance adopted on 6/10/2015. Building Department enforces as needed.	Discontinue	Integrated into the Town’s normal operations. Moved to ongoing operational capability.



2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status Please describe what was accomplished and indicate % complete. If there was no progress, indicate what obstacles/delays encountered? If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2017 HMP? or Discontinue)	Describe Next Step If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). If discontinue, explain why.
Terr-PP-1: Implement a strategy to “target harden” critical and public facilities. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
Terr-PR-1: Provide intelligence to local authorities about legal surveillance and threat assessment activities.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
Terr-PR-2: Review emergency plans for public facilities to ensure that appropriate measures are considered and referenced	Supervisor	Complete/Ongoing Training Annually Plan Adopted 12/2013 and reviewed annually	The Town has an Emergency Evacuation Plan in place that is located in all departments of the Town Offices, we also conduct drills and staff presentation/videos a year per Public Employee Safety and Health (PESH).	Discontinue	Integrated into the Town’s normal operations. Moved to ongoing operational capability.
Terr-PR-3: Schools Project. Comply with Project Save regulations for plan review and revision cycles.	All Town Schools: Churchville-Chili Wheatland-Chili Cal-Mum Gates-Chili	Complete & Reviewed on Yearly Basis by Schools.	Per: emails from Schools, there are no assigned dates for doing the update, but the updates do happen annually if not more.	Discontinue	Integrated into the Town’s normal operations. Moved to ongoing operational capability.
Trans-PEA-1: Local Project. Provide traffic reports through the local broadcasters	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
Trans-PEA-2: Local Project. Provide construction information and project status on sites that impact traffic	DPW/Highway	Complete/In Progress as needed.	This is done thru the Town website on any sites that would impact traffic in the Town.	Discontinue	Integrated into the Town’s normal operations. Moved to ongoing operational capability.
Util-ES-1: Local Projects. Provide power back-up supply for municipal fueling stations. This may	DPW/Highway	Complete	Completed at Highway Facility 11/2012	Discontinue	Project completed – no longer applicable.



2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status Please describe what was accomplished and indicate % complete. If there was no progress, indicate what obstacles/delays encountered? If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2017 HMP? or Discontinue)	Describe Next Step If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). If discontinue, explain why.
pertain to existing and/or new infrastructure.					
Util-PP-1: Local Utilities Project. Preserve capacity to generate local power and enhance the ability to segregate local supply from the national power grid during major failures, e.g. August 14, 2003. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
WSC-PR-1: Provide redundant back-up power supply for public supply treatment facilities and system pump stations. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.



Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy

The Town of Chili identified the following mitigation projects/activities completed but not identified in the previous mitigation strategy in the 2011 Plan:

- The Town of Chili Fire Department provides fire prevention training, outreach, and education to seniors on an annual, ongoing basis.
- The Town of Chili Fire Department runs the Adopt a Fire Hydrant School Program on an annual, ongoing basis.
- The Town of Chili Ambulance hosts CPR Classes on an annual, ongoing basis.

Proposed Hazard Mitigation Initiatives for the Plan Update

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

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

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

Table 9.4-12 summarizes the comprehensive-range of specific mitigation initiatives the Town of Chili would like to pursue to reduce the effects of hazards. Some of these initiatives may be previous actions carried forward for this plan update. These initiatives depend on available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in Table 9.4-12 to further demonstrate the wide-range of activities and mitigation measures selected.

As discussed in Section 6, 14 evaluation/prioritization criteria are used to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing your actions as High, Medium, or Low. Table 9.4-12 summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.4-13 summarizes the prioritization of all proposed mitigation initiatives for the Plan update.



Table 9.4-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazards Mitigated	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
TC-1	Evaluate recruitment and retention of emergency service providers monthly and annually. The Town is continually recruiting for Chili FD, Clifton FD, and Chili Ambulance, but struggle to secure recruits because residents do not want to volunteer.	N/A	All	3	Chili Fire Department/ Clifton Fire Department/ Chili Ambulance	Medium-High	Low	Local, FEMA	Ongoing	Low	LPR	ES
TC-2	Review local utility service and restoration plan in the context of newly published RG&E Rochester Area Reliability Project.	N/A	Utility Failure	1, 3	Chili Public Works, Planning Board	High	Unknown	NYS DHSES, County	Unknown - This Project is currently in legal mitigation with NYS PSC	High	LPR	ES
TC-3	Evaluate the flood vulnerability of the Anchor Christian Church and identify feasible mitigation actions for the church to reduce risk to the 0.2 percent annual chance flood.	Existing	Flood	1, 3	FPA; Engineer	High	Low	General fund (staff time)	1 year	High	SIP	PP
TC-4	Send local Floodplain Administrator to County and State trainings and complete certification programs with respect to floodplain management.	N/A	All Hazards	1, 4	Town FPM, Building Department	Medium	Low – Staff Time	FEMA (HMGP, FMA, PDM), CDBG, NYS DHSES, County	Short Term	Medium	EAP	PI
TC-5	Update Town Website with hazard mitigation materials and resources, and information on Phase II Stormwater program.	N/A	All Hazards	1, 3, 4	Town Clerk, Supervisor, and Planning Board	Medium	Low	Town Operating Budget	Ongoing	Medium	EAP	PI
TC-6	Mitigation of Hillary Heights Flooding – See action Worksheet	Existing	Flood, Severe Storms	2, 3	Chili Department of Public Works	Provides for the long-term prevention of property damage as a result of flooding	Maintainin g Existing (\$3,000)	Local Budget	Continual	Low	SIP	PP
TC-7	Mitigation of Old Humphrey Road Flooding – See action Worksheet	Existing	Flood	2, 4, 5	Chili Department of Public Works	Avoids premature deterioration of the	\$50,000	Local and Grants	Long Term	Low	SIP, EAP	PR, NR





Table 9.4-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazards Mitigated	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
						pavement by seasonal flooding and poor drainage						
TC-8	Mitigation of Ballantyne Road Flooding – See action Worksheet	Existing	Flood	2, 4, 5	Chili Department of Public Works	Avoids premature deterioration of the pavement by seasonal flooding and poor drainage	\$60,000	Local and Grants	Long Term	Low	SIP, EAP	PR, NR
TC-9	Mitigate flooding at Black Creek, where debris from other locations can travel into the creek creating backup of water flow and flooding issues for bridges and homes.	Existing	Flood	1,3	Chili Public Works	Medium-High	High	FEMA, Town	Ongoing	Medium	SIP, NSP, EAP	NR, PI
TC-10	Evaluate the flood vulnerability of the Chili Fire Department and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.	Existing	Flood	1, 3	FPA; Engineer	High	Low	General fund (staff time)	1 year	High	SIP	PP
TC-11	Conduct education and outreach to residents and business owners to inform them if their properties are in known hazard areas, and actions they can take to protect their properties.	Existing	Earthquake, Extreme Temperatures, Flood, Infestation, Landslide, Severe Storms, Severe Winter Storms, Wildfire, HazMat, Utility Failure	1, 3, 4	Town Clerk, Supervisor, and Planning Board	Medium	Low	Town Operating Budget	Ongoing	Medium	EAP	PI

Notes:

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





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

Acronyms and Abbreviations:

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

Potential FEMA HMA Funding Sources:

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

Timeline:

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

Costs:

Where actual project costs have been reasonably estimated:

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

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

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

Benefits:

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

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

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

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

Mitigation Category:

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

CRS Category:

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





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

Table 9.4-13. Summary of Prioritization of Actions

Mitigation Action / Project Number	Mitigation Action / Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
TC-1	Evaluate recruitment and retention of emergency service providers monthly and annually. The Town is continually recruiting for Chili FD, Clifton FD, and Chili Ambulance, but struggle to secure recruits because residents do not want to volunteer.	1	1	0	0	0	1	1	0	0	1	0	0	0	0	5	Low
TC-2	Review local utility service and restoration plan in the context of newly published RG&E Rochester Area Reliability Project.	1	0	1	1	1	-1	1	0	1	1	1	0	0	1	8	High
TC-3	Evaluate the flood vulnerability of the Anchor Christian Church and identify feasible mitigation actions for the church to reduce risk to the 0.2 percent annual chance flood.	1	1	1	0	1	1	0	1	1	1	0	1	0	1	10	High
TC-4	Send local Floodplain Administrator to County and State trainings and complete certification programs with respect to floodplain management.	0	0	1	0	0	1	1	0	0	1	0	1	1	0	6	Medium
TC-5	Update Town Website with	0	0	1	0	0	1	1	0	0	1	0	1	1	0	6	Medium





Mitigation Action / Project Number	Mitigation Action / Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
	hazard mitigation materials and resources, and information on Phase II Stormwater program.																
TC-6	Mitigation of Hillary Heights Flooding – See action Worksheet	0	1	1	1	0	-1	1	0	0	1	1	1	1	0	6	Low
TC-7	Mitigation of Old Humphrey Road Flooding – See action Worksheet	0	0	1	1	1	-1	-1	0	0	1	-1	1	0	0	2	Low
TC-8	Mitigation of Ballantyne Road Flooding – See action Worksheet	0	0	1	1	1	-1	-1	0	0	1	-1	1	0	0	2	Low
TC-9	Mitigate flooding at Black Creek, where debris from other locations can travel into the creek creating backup of water flow and flooding issues for bridges and homes.	1	1	0	1	1	1	1	1	0	1	0	0	0	0	8	Medium
TC-10	Evaluate the flood vulnerability of the Chili Fire Department and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.	1	1	1	0	1	1	0	1	1	1	0	1	0	1	10	High
TC-11	Conduct education and outreach to residents and business owners to inform them if their properties are in known hazard areas, and actions they can take to protect their properties.	1	1	1	1	1	1	1	0	1	-1	1	1	1	1	11	High

Note: Refer to Section 6 that contains the guidance on prioritizing mitigation actions.



9.4.7 Future Needs To Better Understand Risk/Vulnerability

None at this time.

9.4.8 Hazard Area Extent and Location

Hazard area extent and location maps were generated for the Town of Chili that illustrate the probable areas impacted. These maps are based on the best, currently available data, and are considered to be adequate for planning. Maps have only been generated for those hazards (i.e., landslide, wildfire, and flooding) that can be clearly identified using mapping techniques and technologies, and for which the Town of Chili has significant exposure. These maps are illustrated in the hazard profiles in Section 5.4, Volume I of this Plan.

9.4.9 Additional Comments

None at this time.



Figure 9.4-1. Town of Chili Landslide and Wildfire Hazard Area Extent and Location Map

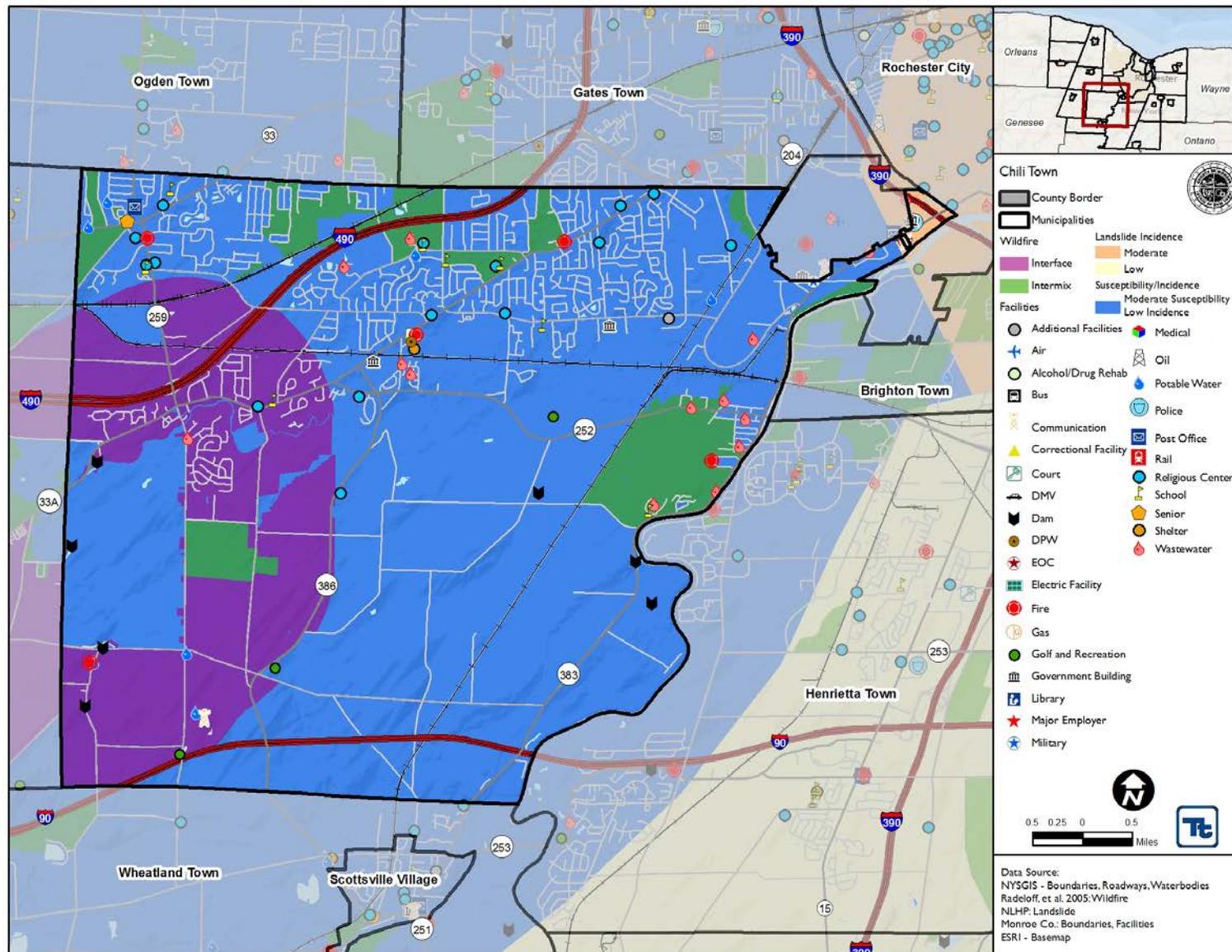
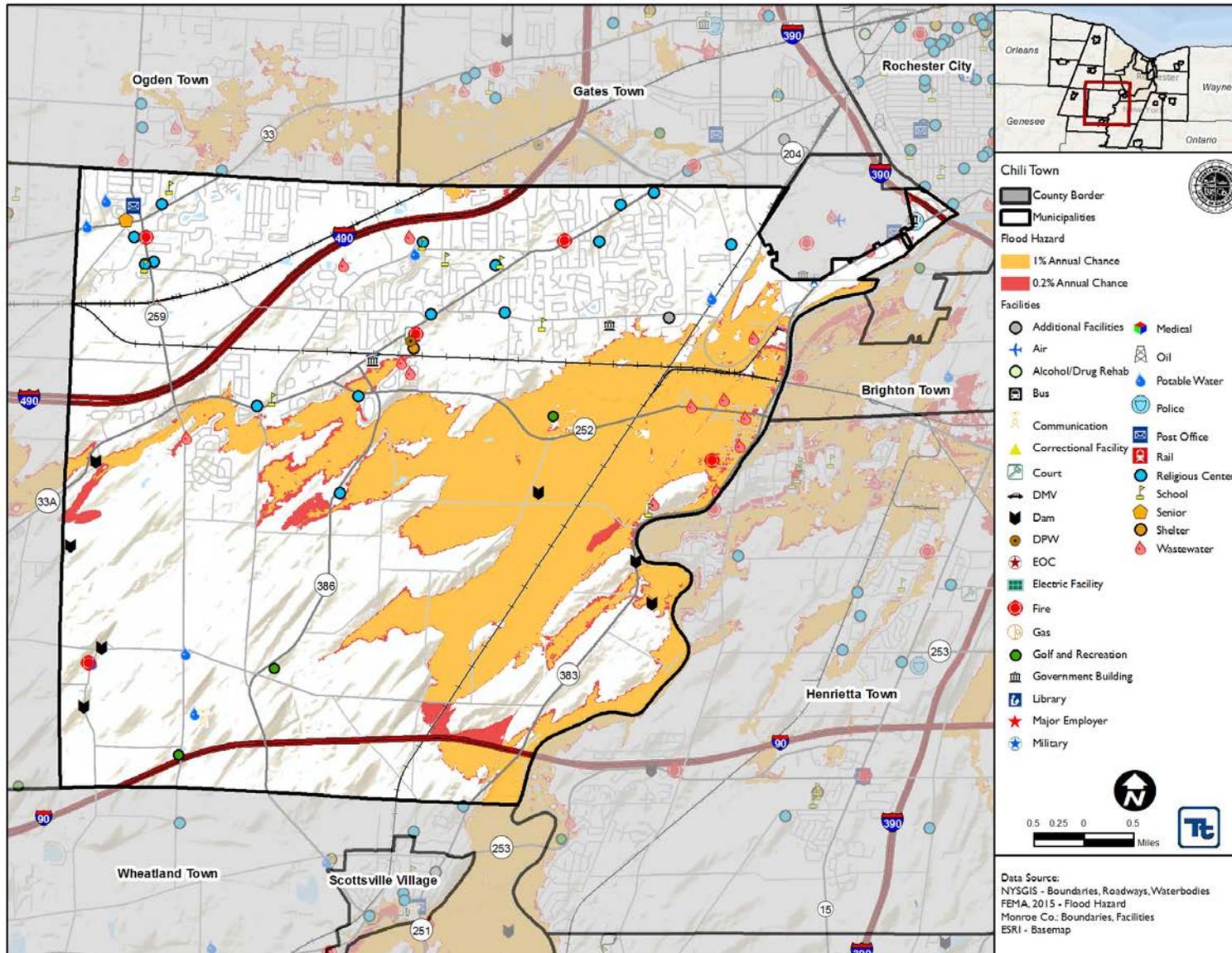




Figure 9.4-2. Town of Chili Hazard Area 1% and 0.2% Floodplain Map





Name of Jurisdiction:	Town of Chili
Name and Title Completing Worksheet:	
Action Number:	TC-3
Mitigation Action Name:	Evaluate the flood vulnerability of the Anchor Christian Church and identify feasible mitigation actions for the church to reduce risk to the 0.2 percent annual chance flood.

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



Action Number:

TC-3

Mitigation Action Name:

Evaluate the flood vulnerability of the Anchor Christian Church and identify feasible mitigation actions for the church to reduce risk to the 0.2 percent annual chance flood.

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



Name of Jurisdiction: Town of Chili
 Name and Title Completing Worksheet: Dawn Forte
 Action Number: TC-6
 Mitigation Action Name: Mitigation of Hillary Heights Flooding

Assessing the Risk	
Hazards addressed:	Past and possible future flooding of residential neighborhood and severe storms
Specific problem being mitigated:	The Hillary Heights Subdivision storm sewer appears to be undersized to handle offsite drainage from the north that passes through the system. As a result, in past years, the system capacity would be exceeded and flooding would occur in the yards and streets resulting in limited property damages to yards and basements.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<p><u>Temporary Control Structure at Culvert Under Railroad</u> – The Town worked with and has approval from the owner of the property north of the development to install and maintain a temporary control structure. Structure detains drainage north of the development and releases it at a rate that does not overwhelm the capacity of the developments storm sewer.</p> <p><u>Private Detention Basin</u> – As the property north of the Hillary Heights subdivision is developed, a privately owned and maintained detention basin and control structure is required to be created to control the rate of storm water release into the Hillary Heights development</p> <p><u>Construct a Town Owned and Maintained Detention Basin</u> – Acquire the necessary property to construct a detention basin and outfall structure to control the rate of storm water discharge into the Hillary Heights subdivision.</p>
Action/Project Intended for Implementation	
Description of Selected Action/Project	The selected project involves a combination of the above three. The Town’s intent is to provide for the continual maintenance of the temporary control structure with the understanding that any future development would result in a private detention basin and outlet structure being installed. This Action Worksheet was filled out based on the Town maintenance of the temporary control structure only. Absent future development plans the Town may work with the property owner at some point to acquire the necessary property to install a municipally owned and maintained detention basin.
Mitigation Action Type	SIP
Goals Met	2,3
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	Provides for the long-term prevention of property damage as a result of flooding
Estimated Cost	Maintaining Existing (\$3,000)
Priority*	Low (Maintenance of existing temporary control structure is providing



	the required relief)
Plan for Implementation	
Responsible Organization	Department of Public Works
Local Planning Mechanism	This activity will be managed by the Department of Public Works on a regular basis
Potential Funding Sources	Local
Timeline for Completion	Continual
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:



Action Number:

TC-6

Mitigation Action Name:

Mitigation of Ballantyne Road Flooding

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	Flooding does not appear to present a risk to life or injury
Property Protection	1	Control of flooding reduces property damage
Cost-Effectiveness	1	Cost of maintaining the temporary control structure is minimal
Technical	1	The action is technically feasible
Political	0	
Legal	-1	Requires continued support of property owner
Fiscal	1	Maintenance of existing control structure can be completed within current budget constraints.
Environmental	0	No positive or negative impacts at this point
Social	0	No adverse effect
Administrative	1	The work gets completed with staff
Multi-Hazard	1	Reduces hazards form flooding and severe storms
Timeline	1	It's possible to complete the project in 5 years but current schedule places a low priority on the work
Agency Champion	1	Commissioner of Public Works
Other Community Objectives	0	
Total	6	
Priority (High, Med or Low)	Low	



Name of Jurisdiction:	Town of Chili
Name and Title Completing Worksheet:	Dawn Forte
Action Number:	TC-7
Mitigation Action Name:	Mitigation of Old Humphrey Road Flooding

Assessing the Risk	
Hazards addressed:	Seasonal Flooding of Local Road
Specific problem being mitigated:	Old Humphrey Road is a local road that crosses a tributary (19-3-a) of Black Creek in the Town of Chili. The elevation of the road about 0.3 mile north of the intersection with Brook Road is such that it needs to be closed to traffic on occasion as a result of seasonal flooding at the point where the tributary is piped under the road.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<p><u>Adjust Vertical Alignment of Road</u> – Acquire adjacent property necessary for right-of-way to reconstruct road to a new elevation and install new cross culverts. This option is not being pursued because the financial cost would be very high given the benefit achieved.</p> <p><u>Survey and Remove Identified Downstream Blockages</u> – Work with property owners to allow access to tributary for survey and blockage removal work. Explore possibility of obtaining permanent drainage easements for future maintenance of channel.</p>
Action/Project Intended for Implementation	
Description of Selected Action/Project	As time and resources permit, the DPW will work with property owners in the area to allow a survey of the tributary, removal of any blockages and redefining of the channel if necessary, and work to educate the property owners of the need to ensure that drainage channels on their properties, that are not on an easement to the Town be properly monitored and maintained.
Mitigation Action Type	SIP, EAP
Goals Met	2,4
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	Premature deterioration of the pavement by seasonal flooding and poor drainage
Estimated Cost	\$50,000
Priority*	Low
Plan for Implementation	
Responsible Organization	Department of Public Works
Local Planning Mechanism	This activity will be managed by the Department of Public Works as resources and funds become available.
Potential Funding Sources	Local and Grants



Timeline for Completion	Long Term
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:



Action Number: TC-7

Mitigation Action Name: Mitigation of Old Humphrey Road Flooding

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	Due to limited development in the area the seasonal flooding does not present a potential for the loss of life or injuries
Property Protection	0	Unknown at this point if there are blockages in the channel that if removed would mitigate the flooding
Cost-Effectiveness	1	Cost of survey and blockage removal would be minimal
Technical	1	The action is technically feasible
Political	1	Property owner support is anticipated for this work
Legal	-1	Do not have the authority to enter private property without approval
Fiscal	-1	Depending on survey results additional funding might need to be allocated
Environmental	0	No positive or negative impacts at this point
Social	0	No adverse effect
Administrative	1	It is anticipated that the work would be completed with staff
Multi-Hazard	-1	Does not reduce multiple hazards
Timeline	1	It's possible to complete the project in 5 years but current schedule places a low priority on the work
Agency Champion	0	
Other Community Objectives	0	
Total	2	
Priority (High, Med or Low)	Low	



Name of Jurisdiction: Town of Chili
 Name and Title Completing Worksheet: Dawn Forte
 Action Number: TC-8
 Mitigation Action Name: Mitigation of Ballantyne Road Flooding

Assessing the Risk	
Hazards addressed:	Seasonal Flooding of Local Road
Specific problem being mitigated:	Ballantyne Road is a local road that crosses over jurisdictional wetlands adjacent to Black Creek in the Town of Chili. The elevation of the road about 100 feet south of the intersection with Beaver Road is such that it needs to be closed to traffic on occasion as a result of seasonal flooding
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<p><u>Adjust Vertical Alignment of Road</u> – Acquire adjacent property necessary for right-of-way to reconstruct road to a new elevation and install new cross culverts. This option is not being pursued because the financial cost would be very high given the benefit achieved and the impact on adjacent wetland and NYSDOT owned road.</p> <p><u>Survey and Remove Identified Downstream Blockages</u> – Work with property owners to allow access to tributary for survey and blockage removal work. Explore possibility of obtaining permanent drainage easements for future maintenance of channel.</p>
Action/Project Intended for Implementation	
Description of Selected Action/Project	As time and resources permit the DPW will work with property owners in the area to allow a survey of the tributary, removal of any blockages and redefining of the channel if necessary, and to educate the property owners of the need to ensure that drainage channels on their properties, that are not on an easement to the Town be properly monitored and maintained.
Mitigation Action Type	SIP, EAP
Goals Met	2,4
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	Premature deterioration of the pavement by seasonal flooding and poor drainage
Estimated Cost	\$60,000
Priority*	Low
Plan for Implementation	
Responsible Organization	Department of Public Works
Local Planning Mechanism	This activity will be managed by the Department of Public Works as resources and funds become available.
Potential Funding Sources	Local and Grants
Timeline for Completion	Long Term



Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:



Action Number: TC-8

Mitigation Action Name: Mitigation of Ballantyne Road Flooding

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	Due to limited development in the area the seasonal flooding does not present a potential for the loss of life or injuries
Property Protection	0	Unknown at this point if there are blockages in the channel that if removed would mitigate the flooding
Cost-Effectiveness	1	Cost of survey and blockage removal would be minimal
Technical	1	The action is technically feasible
Political	1	Property owner support is anticipated for this work
Legal	-1	Do not have the authority to enter private property without approval
Fiscal	-1	Depending on survey results additional funding might need to be allocated
Environmental	0	No positive or negative impacts at this point
Social	0	No adverse effect
Administrative	1	It is anticipated that the work would be completed with staff
Multi-Hazard	-1	Does not reduce multiple hazards
Timeline	1	It's possible to complete the project in 5 years but current schedule places a low priority on the work
Agency Champion	0	
Other Community Objectives	0	
Total	2	
Priority (High, Med or Low)	Low	



Name of Jurisdiction:	Town of Chili
Name and Title Completing Worksheet:	
Action Number:	TC-9
Mitigation Action Name:	Mitigate flooding at Black Creek, where debris from other locations can travel into the creek creating backup of water flow and flooding issues for bridges and homes.

Assessing the Risk	
Hazard(s) addressed:	Flood
Specific problem being mitigated:	Debris from other locations can travel into the creek creating backup of water flow and flooding issues for bridges and homes.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	Remove bridge (cost prohibitive and negatively affects emergency services) Acquire and demolish homes along the Black Creek (residents may be unwilling)
Action/Project Intended for Implementation	
Description of Selected Action/Project	Evaluate the sources of debris entering the Black Creek and implement programs to reduce the amount of debris entering the creek. Conduct outreach to homeowners along the creek to inform them of their flood risk and actions they can take to minimize damages. Remove debris from the waterway, in accordance with State and Federal laws and regulations.
Mitigation Action Type	SIP, NSP, EAP
Goals Met	1, 3
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	Medium-High
Estimated Cost	High
Priority*	Medium
Plan for Implementation	
Responsible Organization	Public Works
Local Planning Mechanism	N/A
Potential Funding Sources	FEMA, Operating Budget
Timeline for Completion	Ongoing
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:



Action Number:

TC-9

Mitigation Action Name:

Mitigate flooding at Black Creek, where debris from other locations can travel into the creek creating backup of water flow and flooding issues for bridges and homes.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	0	
Technical	1	
Political	1	
Legal	1	
Fiscal	1	
Environmental	1	
Social	0	
Administrative	1	
Multi-Hazard	0	
Timeline	0	
Agency Champion	0	
Other Community Objectives	0	
Total	8	
Priority (Tier I, II or III)	Medium	



Name of Jurisdiction:	Town of Chili
Name and Title Completing Worksheet:	
Action Number:	TC-10
Mitigation Action Name:	Evaluate the flood vulnerability of the Chili Fire Department and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.

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



Action Number:

TC-10

Mitigation Action Name:

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

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