# VILLAGE OF TARRYTOWN BOARD OF TRUSTEES WORK SESSION 6:00 P.M. WEDNESDAY, DECEMBER 16, 2015 Tarrytown Village Hall One Depot Plaza, Tarrytown, New York

we reproduce the proof of the

#### **Board of Trustees Concerns**

### Open Session

- 1. Office Building and Mixed Use Districts Zoning Review
- 2. Soccer Field Access
- 3. Skate Shack
- 4. Glenville Fire Protection District
- 5. SWAT Intermunicipal Agreement
- 6. Input Recreation Advisory Council re RFP for Exercise and Fitness Rooms
- 7. Fence Replacement Gracemere Park
- 8. Lease Elizabeth Mascia Child Care Center
- 9. Parking Tickets
- 10. Westchester County Hazard Mitigation Plan

### **Executive Session**

- 1A. Tarrytown Municipal Housing Authority Board
- 2A. Eastview Pump Station Deed
- 3A. Consultancy
- 4A. Tax Certioraris
- 5A.Sale of Village Owned Property
- 6A. Appraisal

### VILLAGE OF TARRYTOWN

### INTERNAL MEMORANDUM

To: Mayor Fixell and the Board of Trustees

From: Michael Blau, Village Administrator

Date: November 16, 2015

Subject: Skate Shack

Attached herewith please find a memorandum from John Hill, Chair of the Tarrytown Lakes Parks and Recreation Advisory Council, regarding the replacement of the skate shack (lower level building.) The Advisory Council met with the Tarrytown Lakes Committee and they jointly developed a concept that they wanted to share with the Board of Trustees to replace the skate shack. Please note that once the gas service to the upper building is addressed (gas service to the lower building is provided through the upper building) the upper building will be demolished. I will place this mater on an upcoming work session for discussion purposes.

To:

Michael Blau

Village Administrator

From:

John Hill, Chairman

Tarrytown Recreation Advisory Council

Re:

Tarrytown Lakes Revitalization Plan

Recently the Tarrytown Recreation Advisory Council met with members of the Tarrytown Lakes Committee to review the Lakes Committee's proposed plans for revitalizing the smaller lake, which is just used for winter skating. The Recreation Advisory Council found their ideas to be both exciting and ambitious.

The Tarrytown Lakes have long been a welcome community recreation area. There are pictures, approximately, 100 years old showing people enjoying skating on the Lakes. □Today the Lakes are used on a very daily basis all year long. People from all over the county and beyond use the lake area for walking, biking, kayaking (summer weekends) and fishing (Village license required).

We believe the use of the lakes will only increase in the future. An example of this is the future addition of the old Marymount College soccer field and the expanded trail network adjacent to the field. The Tarrytown Lakes have the potential to be true gem for Tarrytown.  $\square$ 

One particular project suggested by the Lakes Committee is the removal of both of the wooden skate shacks from the small lake where ice skating takes place during the winter. It is no secret that the skate shacks, even with some basic repairs in recent years, are still poor conditions. We believe everyone would agree that both shacks are not worth further rehabilitation efforts and should be

removed. 

The smaller skate shack used by the recreation staff adjacent to the parking lot should be demolished and not replaced.

It has been suggested that a one two-story structure be erected where the lower skate shack is located. The two-story structure would be accessible directly from the parking lot. Either floor could have multiple uses. For example the upper level could serve as an observation room for Recreation staff and the few non-skaters in attendance. The lower floor would still serve as a warming area for skaters, but could be also have a snack bar/coffee. This new building will be the gathering place for the whole area. It will also add to the park amenities.  $\Box$ 

The Lakes Committee suggested the new building must be "green" have bathrooms, a snack bar, glass wall facing the lake, expanded deck area with chairs and umbrella, facilities to accommodate skaters and a fire pit. These suggestions for the new skate shack building go beyond just the occasional usage for winter skating. The new building now can be used as a year round facility and not just during the winter skating season.

We see is the potential for an expanded usage of the lakes and a more enjoyable experience at the lakes than what we have grown accustomed to during the different weather seasons at the lakes. This new building at the lakes would enhance the revitalization of the lake and establish the building as the corner stone of the Tarrytown Lakes and another jewel of the Village of Tarrytown..

The Tarrytown Recreation Advisory fully supports the Lakes Committee in their efforts and ideas for the revitalization of the smaller lake.



### AGREEMENT PURSUANT TO TOWN LAW §§ 176, 184 AND GENERAL MUNICIPAL LAW ART. 5-G - BETWEEN -THE TOWN OF GREENBURGH - AND -

## THE VILLAGE OF TARRYTOWN TO PROVIDE FIRE PROTECTION SERVICES TO THE GLENVILLE FIRE PROTECTION DISTRICT

THIS AGREEMENT is made this 5 day of November 2015, by and between the Town of Greenburgh (Town), a municipal corporation organized and existing under the laws of the State of New York, located at 177 Hillside Avenue, Greenburgh, New York, acting on behalf of the Glenville Fire Protection District of the Town, and the Village of Tarrytown (Village), a municipal corporation organized and existing under the laws of the State of New York, located at One Depot Plaza, Tarrytown, New York 10591;

#### WITNESSETH:

WHEREAS, the Town Board of the Town of Greenburgh (Town) has established certain fire protection districts in the Town, including the Glenville Fire Protection District (GFPD), to protect residents' property and personal safety from damage or injury by fire; and

WHEREAS, the Village, through its fire department, has provided residents of the Glenville Fire Protection District exemplary fire safety services; and

WHEREAS, it is in the mutual interests of both the Town and the Village to continue furnishing fire protection to residents of the fire protection district; and

WHEREAS, a public hearing was held at Greenburgh Town Hall on August 19, 2015, after notice, for the purpose of considering whether the parties should enter a contract to continue providing residents of the fire protection district fire protection services; and

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WHEREAS, at such hearing the Town Board adopted a resolution, copy attached, authorizing the Town Supervisor to enter into a contract with the Village and the Tarrytown Fire Department to provide fire safety services to residents of the fire protection district;

NOW, THEREFORE, BE IT AGREED by and between the Town, its successors and assigns, and the Village, its successors and assigns, for the consideration named herein as follows:

### 1 SCOPE of SERVICES

- 1.1. The Town does hereby engage the Village to provide fire protection services to residents of the Glenville Fire Protection District upon the following terms and conditions:
  - 1.1.1. The Village and the Tarrytown Fire Department (Department) hereby agree to maintain and furnish suitable personnel and equipment to render adequate fire protection within the boundaries of the Glenville Fire Protection District.
  - 1.1.2. When notified by alarm, telephone, or any other manner of a fire within the fire district members of the Fire Department, through the Tarrytown Fire Department, agree to respond without delay and diligently extinguish any fire within the district preventing injury and property damage to the greatest extent practicable.

#### 2. CONSIDERATION

- 2.1. In consideration of providing the services outlined in ¶1, above, for the year January 1, 2015, through December 31, 2015, the Town agrees to pay the Village the sum of Two hundred Ninety Three Thousand One Hundred Eighty Eight Dollars and No Cents (\$293,188.00), which represents GFPD's percent of the assessment roll of the Village of Tarrytown and the Glenville Fire Protection District as they relate to the sum of the latest filed assessment rolls prepared for these areas in 2014 and applied to the 2014-2015 Village Fire Protection Budget for services rendered during calendar year 2015.
- 2.2 The Town and the Village agree to use the Chart of Accounts Fire Protection Districts as set forth on Schedule A, attached, for determining applicable expenses.
- 2.3 In accordance with General Municipal Law §209-d, the Village agrees to pay to the Fire Department up to thirty-five percent (35%) of the amount paid by the Town to the Village for fire protection services.
- 2.4 The Town agrees to use its best efforts to make annual payment to the Village pursuant to this Agreement within 30 days from the date of the executed Agreement.

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### 3. TERM

3.1 This agreement shall be for a period of one (1) year, commencing January 1, 2015, and terminating on December 31, 2015.

### 4. INSURANCE

- 4.1 The Village agrees to maintain insurance as required under this paragraph.
  - 4.1.1. Workers' Compensation Insurance. The Village shall take out and maintain during the term of this contract Workers' Compensation Insurance for all employees assigned to the work or perform services hereunder.
  - 4.1.2. General Liability and Property Damage Insurance. The Village shall take out and maintain during the term of this contract general liability and property damage insurance in an amount sufficient to protect from claims for damages for personal injury, including accidental death, as well as from claims for property damage which may arise from operations under this contract. The amounts of such insurance shall be as follows:
    - 4.1.2.1. General Liability Insurance in an amount not less than \$1,000,000 for injuries, including wrongful death, to any one person and subject to the same limit for each person, in an amount not less than \$3,000,000 for any occurrence.
    - 4.1.2.2. Property Damage Insurance in an amount not less than \$1,000,000 for damage on account of all occurrences.
- 4.2. The Village agrees to furnish proof of compliance with the above insurance requirements to the Town and further agrees to name the Town as an additional insured in said policies.
- 4.3. Any claim for damage or injury for services performed under this Agreement to residents of the fire protection district shall be reported to the offices of the Town Attorney and Comptroller as soon as possible and not later than twenty-four hours from the time of such accident or claim. A detailed written report must be submitted to the Town as soon thereafter as possible and not later than three (3) days after the date of such accident.

### 5. INDEMNIFICATION and SAVE HARMLESS

5.1. The Village and the Fire Department hereby agree to indemnify and hold the Town, its officials, officers, agents, employees, and volunteers performing authorized tasks on behalf of the Town, harmless from and against all liability, including all expenses, reasonable attorney's fees, losses and claims, demands, payments, suits, actions, recoveries and judgements of any nature and description whatsoever resulting from any claim or claims

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arising out of this contract, or the procedures leading thereto, for any act or omission of the Fire Department, its agents or employees representatives, or sub-contractors, during or in furtherance of the performance to this Agreement.

### 6. REQUIRED PROVISIONS of LAW

6.1 This Agreement shall be governed by the laws of New York State. Each and every provision of law and clause required by law to be inserted in this contract shall be deemed to have been inserted herein. If any such provision is not inserted through mistake or otherwise, then upon the application of either party, this contract shall be physically amended forthwith to make such insertion.

### 7. PERMITS and REGULATIONS

7.1. The Village and the Fire Department agree to secure and pay for all licenses and permits necessary to perform and render the services set forth above.

#### 8. STATEMENT of NONDISCRIMINATION

8.1 The Fire Department shall prominently post, on the site where services hereunder are to be provided, a statement regarding non-discrimination, which statement shall be similar in form to the following:

In compliance with Section 504 of the Rehabilitation Act of 1975 and title VI of the 1964 Civil Rights Act and New York State Executive Orders, no persons will be denied service or access to service based upon race, marital status, sexual orientation or handicapping condition.

### 9. NO ASSIGNMENT

9.1 In accordance with the provisions of Section 109 of the General Municipal Law, the Village and the Fire Department are hereby prohibited from assigning, transferring, conveying, subletting or otherwise disposing of this Agreement, or of any right, title or interest in this Agreement, or the power to execute this Agreement, to any other person or corporation without the prior written consent of the Town.

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### 10 REPRESENTATIONS of the VILLAGE and the FIRE DEPARTMENT

- 10.1 The Village and the Fire Department make the following representations:
- 10.1.1. The Fire Department is qualified to perform the fire protection services outlined herein.
- 10.1.2. The Fire Department agrees to participate in the New York State Fire Incident Reporting System and further agrees to forward one copy of each and every report made regarding any fire occurring within the fire protection district to the Town Fire Marshal.
- 10.1.3. The Fire Department agrees to ensure that all members performing fire protection services are adequately trained and qualified to perform the tasks assigned as determined by completion of a National, New York State or equivalent fire training program and receive any annual or periodic refresher training that may be required.
- 10.1.4. The Village and the Fire Department agree to assume liability for any and all loss or damage caused by or to its fire apparatus sustained in answering any call.
- 10.1.5. The Village and the Fire Department agree to assume responsibility for the payment of all claims for injury or death of all persons, including fire personnel, occurring in connection with services rendered under this agreement.
- 10.1.6. The Fire Department agrees to respond to any fire involving a structure, regardless of whether it is commercial or residential, occupied or unoccupied, with the appropriate firefighting apparatus.
- 10.1.7. The Fire Department is fully familiar with all federal, state, and local laws, ordinances and regulations which may in any way affect the services to be provided.
- 10.1.8. The Fire Department is fully licensed by all governing regulatory agencies.
- 10.1.9. The Village and the Fire Department agree to give the Town a minimum of ninety (90) days notice prior to any capital equipment purchase for fire protection services and costing in excess of \$100,000 and to solicit and weigh the opinion of Town officials prior to taking any vote or making any decision to undertake a capital purchase involving fire protection services. The failure to solicit and consider the Town's opinion regarding such a capital purchase costing \$100,000, or more, prior to any vote or decision, shall result in the capital expense being excluded from the Village's costs and expenses (Schedule A) for purposes of calculating the Town's contribution.
- 10.2 The Village agrees to obtain the written consent of the Fire Department to the terms and conditions set forth herein.

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#### 11. NOTICES

11.1 Any and all notices, communications, payments and demands required under this Agreement shall be in writing, addressed as follows, or to such other address as may hereafter be designated, in writing, by either party hereto:

11.1.1. To the Town:

Town of Greenburgh

177 Hillside Avenue Greenburgh, NY 10607

Attn: Bart Talamini, Comptroller

11.1.2. w/ copy to:

John Lucido, Fire Marshal

177 Hillside Avenue Greenburgh, NY 10607 Elmsford, NY 10523

11.1.3. To the Village:

Mayor, Village of Tarrytown

One Depot Plaza Tarrytown, NY 10591

Village Administrator, Village of Tarrytown

One Depot Plaza Tarrytown, NY 10591

11.1.4. To the Fire Department:

Tarrytown Volunteer Fire Department

50 Main Street

Tarrytown, NY 10591

### 12. WAIVER and MODIFICATION

- 12.1. No waiver of any breach or of any condition of this Agreement shall be binding unless executed in writing and signed by the party waiving such breach. No such waiver shall in any way affect any other term or condition of this Agreement or constitute a cause or excuse for a repetition of such or any other breach unless the waiver shall include the same.
- 12.2. This Agreement constitutes the complete understanding of the parties. No other understandings or agreements, oral or written, are valid and no modification of any provisions of the Agreement shall be valid unless in writing and signed by both parties in accordance with the provisions of Town Law §184.

#### 13. ETHICAL DISCLOSURE

13.1. The Village and the Fire Department acknowledge the necessity for the highest ethical standards in all public contracts and accordingly agree to abide by the provisions of the Code of Ethics, Chapter 570 of the Code of the Town of Greenburgh, attached. Nothing herein shall, however, be interpreted or construed to require employees of the Village or members of the Fire Department to file a financial disclosure statement.

#### 14. AUDIT and INSPECTION

- 14.1. The Village and the Fire Department agree to permit the Town, or any of its authorized representatives, to visit and inspect the program, project or services operated pursuant to this Agreement and permit an audit and/or inspection of all books, records, and accounts relating thereto.
- 14.2 If requested by the Town, the Village will provide the Town with the contract year(s)' annual New York State Office of Fire Protection Call Report broken down by Glenville vs. non-Glenville Protection District calls.

#### 15. DISPUTES

15.1. It is mutually agreed by and between the parties hereto, that in any dispute between the Town and the Village the disputed matter shall be settled in the first instance, by mediation in Westchester County, or if that fails, in the Supreme Court of the State of New York, Westchester County.

IN WITNESS WHEREOF, the parties hereto have each agreed to the terms and conditions as set forth herein.

TOWN OF GREENBURGH

Rv

Paul J. Feiner, Supervison

SEAL

### VILLAGE OF TARRYTOWN

В	7:
	Michael Blau, Village Administrator
SEAL	
In accordance with General Municipal I this Agreement, to all the terms and conditions the Fire Department by the Village.	aw §209-d, Tarrytown Fire Department consents to expressed herein and to the payment to be made to
T	ARRYTOWN FIRE DEPARTMENT
B	: Terence Murphy, Chief

### CERTIFICATE OF AUTHORITY / FIRE DEPARTMENT

STATE OF NEW YORK	)
	) ss.:
COUNTY OF WESTCHESTER	)
On the day of	, in the year 2015, before me, the undersigned, a Notary
Public in and for said State, person	nally appeared TERENCE MURPHY personally known to me or
proved to me on the basis of satisfa	actory evidence to be the individual whose name is subscribed to
the within instrument and acknowl	edged to me that he executed the same in his capacity, and that by
his signature on the instrument, th	e individual or the person upon behalf of which the individual
acted, executed the instrument.	
	Notary Public, Westchester County

#### MUNICIPAL ACKNOWLEDGMENT / GREENBURGH

STATE OF NEW YORK	)
	) ss.:
COUNTY OF WESTCHESTER	)

On the 5 day of Novembel, in the year 2015, before me, the undersigned, a Notary Public in and for said State, personally appeared PAUL J. FEINER, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual or the person upon behalf of which the individual acted, executed the instrument.

Notary Public ()Westchester County

MARGARET PIETROWICZ
NOTARY PUBLIC, STATE OF NEW YORK
NO. 01 PI4999480
QUALIFIED IN WESTCHESTER COUNTY
COMMISSION EXPIRES JULY 27, 20 18

### MUNICIPAL ACKNOWLEDGMENT / TARRYTOWN

STATE OF NEW YORK	) ) ss.:	
COUNTY OF WESTCHESTER		
•	Michael	5, before me, the undersigned, a Notary
Public in and for said State, person	ally appeared <u>Blau</u>	, personally known to me or proved
to me on the basis of satisfactory	evidence to be the individ	dual whose name is subscribed to the
within instrument and acknowledg	ed to me that he executed t	he same in his capacity, and that by his
signature on the instrument, the inc	dividual or the person upor	n behalf of which the individual acted,
executed the instrument.		
	Notary Public,	Westchester County

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#### POLICE DEPARTMENT

TOWN OF GREENBURGH 188 TARRYTOWN ROAD, WHITE PLAINS, N.Y. 10607

TELEPHONE: (914) 980 1700 20 AM 10: 17

http://www.police.greenburgh.com RECEIVED

TARRYTOWN
POLICE DEPT



November 13, 2015

Chief Scott Brown
Tarrytown Police Department
One Depot Plaza
Tarrytown, NY 10591

Dear Chief Brown:

Enclosed please find a copy of the updated SWAT Intermunicipal Agreement (IMA). I have incorporated the changes we discussed, specifically, increasing the limit per individual officer in 2017. Please review and advise if you have any questions.

Please have the appropriate municipal officer sign and notarize the Acknowledgement and the Certificate of Authority. Once the paperwork is completed, please return all to me for processing. A fully executed original will be forwarded to you for your files.

If you have any questions, please do not hesitate to contact me at 914-989-1740.

Sincerely,

Chris T. McNerney

Chief of Police

Enc.



AGREEMENT PURSUANT TO GENERAL MUNICIPAL LAW ARTICLE 5-G, SECTION 119-O BETWEEN THE TOWN OF GREENBURGH AND THE VILLAGES OF ARDSLEY, DOBBS FERRY, ELMSFORD, HASTINGS-ON-HUDSON, IRVINGTON AND TARRYTOWN TO FORM A TOWNWIDE SPECIAL WEAPONS AND TACTICS UNIT.

2015, by and This AGREEMENT (the "Agreement") is made this \_\_\_\_\_ day of \_ between the Village of Ardsley ("Ardsley"), a municipal corporation organized and existing under the laws of the State of New York, located at 507 Ashford Avenue, Ardsley, New York, 10502 ("Ardsley"), the Village of Dobbs Ferry ("Dobbs Ferry"), a municipal corporation organized and existing under the laws of the State of New York, located at 112 Main Street, Dobbs Ferry, New York 10522 ("Dobbs Ferry"), the Village of Elmsford ("Elmsford"), a municipal corporation organized and existing under the laws of the State of New York, located at 15 South Stone Avenue, Elmsford, New York 10523 ("Elmsford"), the Village of Hastings-on- Hudson ("Hastings"), a municipal corporation organized and existing under the laws of the State of New York, located at 7 Maple Avenue, Hastings-on-Hudson, New York 10706, the Village of Irvington ("Irvington"), a municipal corporation organized and existing under the laws of the State of New York, located at 55 Main Street, Irvington, New York 10533, the Village of Tarrytown ("Tarrytown"), a municipal corporation organized and existing under the laws of the State of New York, located at 21 Wildey Street, Tarrytown, New York 10591 and the Town of Greenburgh ("Greenburgh"), a municipal corporation organized and existing under the laws of the State of New York, located at 177 Hillside Avenue, White Plains, New York 10607.

WHEREAS, Section 119-O of the General Municipal Law permits municipal corporations to enter into agreements for the performance amongst themselves or one for the other of their respective functions, powers and duties on a cooperative or contract basis or for the provision of a joint service; and

WHEREAS, for the purposes of this agreement, the term hereinafter referred to as the Special Weapons and Tactics Unit ("SWAT"), shall mean a unit consisting of police officers from the respective jurisdictions of Ardsley, Dobbs Ferry, Elmsford, Hastings-on-Hudson, Irvington, Tarrytown and Greenburgh, duly formed to effectuate a joint service committed to quickly respond to situations involving barricaded suspects, potentially armed and dangerous suspects and/or to execute high risk arrest and search warrants as well as respond to other situations where the specialized weapons and equipment and advanced tactical training of SWAT Team members would provide an advantage over the weapons, equipment and training that are normally employed by uniformed police officers, thereby potentially reducing the risk of injury to residents and police officers while helping to ensure an overall favorable outcome of the event; and

WHEREAS, the Villages of Ardsley, Dobbs Ferry, Elmsford, Hastings-on-Hudson, Irvington, Tarrytown and the Town of Greenburgh (collectively, the "Municipalities") are members of SWAT; and

WHEREAS, SWAT, as a joint service, is charged with extra-territorial jurisdiction to make arrests and execute warrants within the respective jurisdictions of the Municipalities as necessary for the undertaking of this Agreement; and

WHEREAS, SWAT will be headquartered out of the Greenburgh Police Department; and

WHEREAS, the Villages of Ardsley, Dobbs Ferry, Elmsford, Hastings-on-Hudson, Irvington and Tarrytown and the Town of Greenburgh require that the Municipalities participating in SWAT provide indemnification, representation, warranties and covenants and other matters described in the Agreement for the benefit of the Municipalities;

NOW THEREFORE, BE IT AGREED by and between Ardsley, Dobbs Ferry, Elmsford, Hastings-on-Hudson, Irvington, Tarrytown and the Town of Greenburgh, and their successors and assigns, for the consideration named herein as follows:

### ARTICLE ONE Purpose of the Agreement

### A. The purpose of this Agreement is to:

- 1. Maintain a joint Special Weapons and Tactics Team by the Village of Ardsley Police Department, the Village of Dobbs Ferry Police Department, the Village of Elmsford Police Department, the Village of Hastings-on-Hudson Police Department, the Village of Irvington Police Department, the Village of Tarrytown Police Department and the Town of Greenburgh Police Department (hereinafter referred to as "SWAT Team") that will be available to any participating entity in the event of an emergency in accordance with the provisions of this Agreement;
- 2 Formalize rules and regulations providing for a single team commander, a single set of standard operational procedures, training records maintenance, and the fiscal responsibilities of each agency;
- 3. Eliminate the need to follow the formal procedure set forth in GML §209-m to request assistance from the other party in the form of personnel and or equipment; and
- 4. Provide for more efficient utilization of law enforcement resources and services through commitment of police officers from the participating municipalities, in accordance with their capabilities, that would benefit public safety and the safety of police personnel.

### ARTICLE TWO Approval, Duration and Termination

- A. This Agreement shall not be effective until approved by a majority vote, as required by Section 119-O of the General Municipal Law, of the governing body of each Municipality.
- B. The initial term of this Agreement shall be five years, which term shall commence upon the execution of this Agreement by the last signing party. Upon expiration the terms herein shall continue, however, until all legislative bodies have held their respective organizational meetings. At such meetings, this agreement shall be considered for renewal, and if approved by each legislative body, such renewal shall be made effective November 1, 2020.
- C. A Municipality may terminate any rights and obligations under this Agreement at any time by giving thirty days (30) written notice to each of the parties to the Agreement as provided herein.

### ARTICLE THREE Consideration

- A. In exchange for the commitment of police officer(s) by Ardsley, Dobbs Ferry, Elmsford, Hastings-on-Hudson, Irvington and Tarrytown to SWAT, Greenburgh agrees to provide the facilities and the resources of its Police Department to arrange for and provide training; maintain appropriate records of the training completed by each member; secure and distribute equipment and supplies, and otherwise administer SWAT.
- B. Municipalities will be reimbursed from funds appropriated annually by the Town of Greenburgh in its Town Entire Budget under the A.3123 Department. Such reimbursement shall be for overtime expended by the Municipality in connection with training of their members in weapons, equipment and tactics as approved by Greenburgh and directed by the SWAT Team commander. Such reimbursement shall include the overtime hourly rate, the Social Security/Medicare match, Workers'

Compensation and New York State Retirement. The amount available for reimbursement to the Municipality shall be calculated by multiplying the number of SWAT officers assigned to the team during the respective year, times \$5,000.00. For example, a Municipality with two (2) officers assigned to the SWAT Team shall have a total of \$10,000.00 available for reimbursement. Commencing in 2017, reimbursement will increase to \$6000.00 per officer. No reimbursement shall be made for hours involved in actual SWAT operations. Expenses for actual SWAT operations shall be borne by the individual Municipality. Greenburgh shall also be responsible for purchasing all necessary equipment, uniforms, weapons, ammunition, and other required supplies from expense lines set up for this purpose under the A.3123 Department. Any and all other expenses associated with a Municipality's participation in SWAT not specifically mentioned in this Agreement shall be borne by the individual Municipality.

### ARTICLE FOUR Control of Personnel and Equipment

- A. The Incident Commander of the agency responsible for the geographic jurisdiction in which an incident occurs shall be in command of the operation(s) under which the SWAT Team is requested. The SWAT Team Commander shall report to the Incident Commander. SWAT Team members will be under the supervisory control and direction of the SWAT Team structure during incidents and training events. Specifically, during incidents occurring within the Town of Greenburgh, the Incident Commander shall be a member of the Town of Greenburgh Police Department. During incidents occurring within the Village of Ardsley, the Incident Commander shall be a member of the Village of Ardsley Police Department. During incidents occurring within the Village of Dobbs Ferry, the Incident Commander shall be a member of the Village of Dobbs Ferry Police Department. During incidents occurring within the Village of Hastings on Hudson, the Incident Commander shall be a member of the Village of Hastings-on- Hudson Police Department. During incidents occurring within the Village of Irvington, the Incident Commander shall be a member of the Village of Irvington Police Department. During incidents occurring within the Village of Tarrytown the Incident Commander shall be a member of the Village of Tarrytown Police Department. During incidents occurring in the Village of Elmsford the Incident Commander shall be a member of the Village of Elmsford Police Department.
- B. In exchange for the commitment of police officer(s) by the villages of Ardsley, Dobbs Ferry, Elmsford, Hastings-on-Hudson, Irvington and Tarrytown to the SWAT Team, The Town of Greenburgh agrees to provide the facilities and the resources of its police department to arrange for and provide training; maintain appropriate records of the training completed by each member; prepare, submit and maintain all annual budgetary responsibilities; secure and distribute equipment and supplies, and otherwise administer SWAT which includes selecting and providing the Team Commander.
- C. Each party agrees that the selection of the SWAT Team Leaders and members will be made by the SWAT Team Commander.
- D. It is understood that while operating either in training or at a SWAT incident under the command of the SWAT Team Commander or his designee, all team members shall adhere to the SWAT Team Standard Operating Procedures.
- E. Each Municipality agrees to seek and maintain compliance with the provisions of the SWAT Team Certification Program promulgated by the State of New York Municipal Police Training Council (MPTC).

#### ARTICLE FIVE

#### **Privileges and Immunities**

- A. To the extent permitted by law, all the powers, duties, rights, privileges and immunities from liability which surround the activities of the SWAT team when performing its functions within the public agency's territorial limits shall apply to the activities of the SWAT team, team members, other police officers or employees, or agency while furnishing tactical assistance outside its territorial limits under the terms of this Agreement.
- B. Specifically, pursuant to sections §119-n(c) and § 119-0 GML, law enforcement officers assisting another local government outside their normal geographical area of employment shall have all powers and authority of law enforcement officers in such other jurisdiction as provided by law, including the power of arrest.

### ARTICLE SIX Line of Duty Death or Injury

The effect of the death, injury or disability of any officer who is killed, injured or disabled outside the territorial limits of either participating entity while in the performance of this agreement, shall be the same as if they were killed, injured or were to become disabled while that officer was functioning within its own territorial limits, and such injury or death shall be considered to be in the line of duty.

### ARTICLE SEVEN Insurance

- A. With regard to any activities on property owned or maintained by the respective Municipalities, the Municipalities agree to secure and maintain throughout the term of this Agreement, general liability, property damage and automobile liability insurance sufficient to protect the Municipalities for personal injury, including accidental death, as well as claims for property damage which may arise out of the activities of the SWAT Unit under this Agreement. The amounts of such insurance shall not be less than \$1,000,000 per occurrence.
- B. The respective Municipalities agree to name each other as additional insured parties on all relevant policies and uses. The Municipalities agree to furnish copies of their respective insurance policies with the above insurance requirements to each other, as designated herein, within five (5) business days of the date of execution of this Agreement. The parties agree to report to each other any accident or claim arising out of SWAT Unit activities as soon as possible and not later than three (3) business days from the time of such accident or claim. The parties agree to make available to each other all employees who are witnesses or who are knowledgeable about any accident or claim.

### ARTICLE EIGHT Indemnification and Save Harmless

A. The Town of Greenburgh covenants and agrees at its sole cost to indemnify and hold harmless the Villages of Ardsley, Dobbs Ferry, Elmsford, Hastings-on-Hudson, Irvington and/or Tarrytown, their officers, agents, employees, volunteers, successors and assigns of any and all of the foregoing, harmless from and against all liability, including expenses, attorneys' fees, losses and claims, demands, payments, suits, administrative or judicial actions or proceedings, obligations, debts,

damages, costs of assessing damages or losses, litigation costs, recoveries and judgments of any nature and description whatsoever resulting from any claim or claims arising out of any act or omission by the Town of Greenburgh, its officers, agents, employees, volunteers, successors and assigns of any and all of the foregoing arising out of their activities undertaken within the scope of this Agreement.

In the event of any action or proceeding commenced against the Villages of Ardsley, Dobbs Ferry, Elmsford, Hastings-on-Hudson, Irvington and/or Tarrytown, their officers, agents, employees, volunteers, successors and assigns of any and all of the foregoing, which is asserted to be within the indemnification coverage of this Article, the respective Municipality/Municipalities shall give prompt written notice thereof to the Town of Greenburgh as provided herein, and the Town of Greenburgh shall defend same by attorneys and other professionals approved by the respective Municipality/Municipalities-which approval shall not be unreasonably withheld. The Municipalities agree to cooperate with each other as reasonably required for the defense of any such action.

B. The Village of Ardsley covenants and agrees at its sole cost to indemnify and hold harmless the Town of Greenburgh, the Villages of Dobbs Ferry, Elmsford, Hastings-on-Hudson, Irvington and/or Tarrytown, their officers, agents, employees, volunteers, successors and assigns of any and all of the foregoing, harmless from and against all liability, including expenses, attorneys' fees, losses and claims, demands, payments, suits, administrative or judicial actions or proceedings, obligations, debts, damages, costs of assessing damages or losses, litigation costs, recoveries and judgments of any nature and description whatsoever resulting from any claim or claims arising out of any act or omission by the Village of Ardsley, its officers, agents, employees, volunteers, successors and assigns of any and all of the foregoing arising out of their activities undertaken within the scope of this Agreement.

In the event of any action or proceeding commenced against the Town of Greenburgh and/or the Villages of Dobbs Ferry, Elmsford, Hastings-on-Hudson, Irvington and/or Tarrytown, their officers, agents, employees, volunteers, successors and assigns of any and all of the foregoing, which is asserted to be within the indemnification coverage of this Article, the respective Municipality/Municipalities shall give prompt written notice thereof to the Village of Ardsley as provided herein, and the Village of Ardsley shall defend same by attorneys and other professionals approved by the respective Municipality/Municipalities-which approval shall not be unreasonably withheld. The Municipalities agree to cooperate with each other as reasonably required for the defense of any such action.

C. The Village of Dobbs Ferry covenants and agrees at its sole cost to indemnify and hold harmless the Town of Greenburgh, the Villages of Ardsley, Elmsford, Hastings-on-Hudson, Irvington and/or Tarrytown, their officers, agents, employees, volunteers, successors and assigns of any and all of the foregoing, harmless from and against all liability, including expenses, attorneys' fees, losses and claims, demands, payments, suits, administrative or judicial actions or proceedings, obligations, debts, damages, costs of assessing damages or losses, litigation costs, recoveries and judgments of any nature and description whatsoever resulting from any claim or claims arising out of any act or omission by the Village of Dobbs Ferry, its officers, agents, employees, volunteers, successors and assigns of any and all of the foregoing arising out of their activities undertaken within the scope of this Agreement.

In the event of any action or proceeding commenced against the Town of Greenburgh and/or the Villages of Ardsley, Elmsford, Hastings-on-Hudson, Irvington and/or Tarrytown, their officers, agents, employees, volunteers, successors and assigns of any and all of the foregoing, which is

asserted to be within the indemnification coverage of this Article, the respective Municipality/Municipalities shall give prompt written notice thereof to the Village of Dobbs Ferry as provided herein, and the Village of Dobbs Ferry shall defend same by attorneys and other professionals approved by the respective Municipality/Municipalities-which approval shall not be unreasonably withheld. The Municipalities agree to cooperate with each other as reasonably required for the defense of any such action.

D. The Village of Elmsford covenants and agrees at its sole cost to indemnify and hold harmless the Town of Greenburgh, the Villages of Ardsley, Dobbs Ferry, Hastings-on-Hudson, Irvington and/or Tarrytown, their officers, agents, employees, volunteers, successors and assigns of any and all of the foregoing, harmless from and against all liability, including expenses, attorneys' fees, losses and claims, demands, payments, suits, administrative or judicial actions or proceedings, obligations, debts, damages, costs of assessing damages or losses, litigation costs, recoveries and judgments of any nature and description whatsoever resulting from any claim or claims arising out of any act or omission by the Village of Elmsford, its officers, agents, employees, volunteers, successors and assigns of any and all of the foregoing arising out of their activities undertaken within the scope of this Agreement.

In the event of any action or proceeding commenced against the Town of Greenburgh and/or the Villages of Ardsley, Dobbs Ferry, Hastings-on-Hudson, Irvington and/or Tarrytown, their officers, agents, employees, volunteers, successors and assigns of any and all of the foregoing, which is asserted to be within the indemnification coverage of this Article, the respective Municipality/Municipalities shall give prompt written notice thereof to the Village of Elmsford as provided herein, and the Village of Elmsford shall defend same by attorneys and other professionals approved by the respective Municipality/Municipalities-which approval shall not be unreasonably withheld. The Municipalities agree to cooperate with each other as reasonably required for the defense of any such action.

E. The Village of Hastings-on-Hudson covenants and agrees at its sole cost to indemnify and hold harmless the Town of Greenburgh, the Villages of Ardsley, Dobbs Ferry, Elmsford, Irvington and/or Tarrytown, their officers, agents, employees, volunteers, successors and assigns of any and all of the foregoing, harmless from and against all liability, including expenses, attorneys' fees, losses and claims, demands, payments, suits, administrative or judicial actions or proceedings, obligations, debts, damages, costs of assessing damages or losses, litigation costs, recoveries and judgments of any nature and description whatsoever resulting from any claim or claims arising out of any act or omission by the Village of Hastings-on-Hudson, its officers, agents employees, volunteers, successors and assigns of any and all of the foregoing arising out of their activities undertaken within the scope of this Agreement.

In the event of any action or proceeding commenced against the Town of Greenburgh and/or the Villages of Ardsley, Dobbs Ferry, Elmsford, Irvington and/or Tarrytown, their officers, agents, employees, volunteers, successors and assigns of any and all of the foregoing, which is asserted to be within the indemnification coverage of this Article, the respective Municipality/Municipalities shall give prompt written notice thereof to the Village of Hastings as provided herein, and the Village of Hastings-on-Hudson shall defend same by attorneys and other professionals approved by the respective Municipality/Municipalities-which approval shall not be unreasonably withheld. The Municipalities agree to cooperate with each other as reasonably required for the defense of any such action.

F. The Village of Irvington covenants and agrees at its sole cost to indemnify and hold harmless the Town of Greenburgh, the Villages of Ardsley, Dobbs Ferry, Elmsford, Hastings-on-Hudson and/or

Tarrytown, their officers, agents, employees, volunteers, successors and assigns of any and all of the foregoing, harmless from and against all liability, including expenses, attorneys' fees, losses and claims, demands, payments, suits, administrative or judicial actions or proceedings, obligations, debts, damages, costs of assessing damages or losses, litigation costs, recoveries and judgments of any nature and description whatsoever resulting from any claim or claims arising out of any act or omission by the Village of Irvington, its officers, agents, employees, volunteers, successors and assigns of any and all of the foregoing arising out of their activities undertaken within the scope of this Agreement.

In the event of any action or proceeding commenced against the Town of Greenburgh and/or the Villages of Ardsley, Dobbs Ferry, Elmsford, Hastings-on-Hudson and/or Tarrytown, their officers, agents, employees, volunteers, successors and assigns of any and all of the foregoing, which is asserted to be within the indemnification coverage of this Article, the respective Municipality/Municipalities shall give prompt written notice thereof to the Village of Irvington as provided herein, and the Village of Irvington shall defend same by attorneys and other professionals approved by the respective Municipality/Municipalities-which approval shall not be unreasonably withheld. The Municipalities agree to cooperate with each other as reasonably required for the defense of any such action.

G. The Village of Tarrytown covenants and agrees at its sole cost to indemnify and hold harmless the Town of Greenburgh, the Villages of Ardsley, Dobbs Ferry, Elmsford, Hastings-on-Hudson and/or Irvington, their officers, agents, employees, volunteers, successors and assigns of any and all of the foregoing, harmless from and against all liability, including expenses, attorneys' fees, losses and claims, demands, payments, suits, administrative or judicial actions or proceedings, obligations, debts, damages, costs of assessing damages or losses, litigation costs, recoveries and judgments of any nature and description whatsoever resulting from any claim or claims arising out of any act or omission by the Village of Tarrytown, its officers, agents, employees, volunteers, successors and assigns of any and all of the foregoing arising out of their activities undertaken within the scope of this Agreement.

In the event of any action or proceeding commenced against the Town of Greenburgh and/or the Villages of Ardsley, Dobbs Ferry, Elmsford, Hastings-on-Hudson and/or Irvington, their officers, agents, employees, volunteers, successors and assigns of any and all of the foregoing, which is asserted to be within the indemnification coverage of this Article, the respective Municipality/Municipalities shall give prompt written notice thereof to the Village of Tarrytown as provided herein, and the Village of Tarrytown shall defend same by attorneys and other professionals approved by the respective Municipality/Municipalities-which approval shall not be unreasonably withheld.

- H. The Municipalities agree to cooperate with each other as reasonably required for the defense of any such action.
- I. The Municipalities acknowledge and agree that the provisions of this section are intended to survive termination of this agreement.

### ARTICLE NINE Authority for Execution

The respective representatives of each Municipality, who executed this Agreement on the behalf of their respective Municipal Corporations, are duly authorized and empowered to execute this Agreement.

### ARTICLE TEN Notices

Any and all notices, communications, payments and demands required under this Agreement shall be made in writing, addressed as follows, or to such other addresses as may be hereafter designated, in writing, by each party hereto:

#### To Ardsley:

Village Manager Village of Ardsley 507 Ashford Avenue Ardsley, New York 10502

### To Dobbs Ferry:

Village Administrator Village of Dobbs Ferry 112 Main Street Dobbs Ferry, New York 10522

#### To Elmsford:

Village Administrator Village of Elmsford 15 South Stone Avenue Elmsford, New York 10523

### To Greenburgh:

Town Supervisor Town of Greenburgh 177 Hillside Avenue White Plains, NY 10607

### To Hastings:

Village Manager Village of Hastings-on-Hudson 7 Maple Avenue Hastings-on-Hudson, New York 10706

### To Irvington:

Village Administrator Village of Irvington 85 Main Street Irvington, New York 10533

#### To Tarrytown:

Village Administrator Village of Tarrytown One Depot Plaza Tarrytown, New York 10591

### ARTICLE ELEVEN Waiver

No waiver or any breach or of any condition of this Agreement will be binding unless executed in writing and signed by the party waiving such breach. No such waive shall in any way affect any other term or condition of this Agreement or constitute a cause or excuse for a repetition of such any or other breach unless the waiver shall include the same.

### ARTICLE TWELVE Entire Understanding

This Agreement contains the entire understanding of the parties who hereby acknowledge that there has been, and are no representations, warranties, covenants or understandings other than those expressly set forth herein.

### ARTICLE THIRTEEN Modification

Neither this Agreement, nor any provision hereof, shall be amended or modified, or deemed amended or modified, except by an agreement in writing duly subscribed and acknowledged by all parties to this Agreement with the same formality as this Agreement.

### ARTICLE FOURTEEN Binding Effect

This Agreement shall be binding upon and inure to the benefit of the parties, their heirs, successors and assigns.

### ARTICLE FIFTEEN Legal Interpretation

All matters affecting the interpretation of this Agreement and the rights of the parties hereto shall be governed by the laws of the State of New York.

### ARTICLE SIXTEEN Counterparts

This Agreement may be executed in one or more counterparts by some or all of the parties hereto, each of which counterparts shall be an original and all of which together shall constitute a single agreement. The failure of any party hereto to execute this Agreement, or any counterpart hereof, shall not relieve the other signatories from their obligations hereunder.

IN WITNESS THEREOF, the parties have agreed to the terms and conditions set forth and executed this Agreement, the date and year above written.

### VILLAGE OF TARRYTOWN

### INTERNAL MEMORANDUM

To: Mayor Fixell and the Board of Trustees

From: Michael Blau, Village Administrator

Date: December 4, 2015

Subject: Fence Replacement Gracemere Park

Please be advised that the Board of Trustees in the Capital Budget approved for FY 15-16 appropriated \$22,500 for the replacement of the 6 ft. high chain link fence around the pond in Gracemere Park. Pursuant to the Village's Procurement Policy, three prices were obtained for the replacement in kind for the 6 ft. high chain link fence. A resident of Glenwolde reached out to Joe Arduino and noted that it was her desire to have the chain link fence replaced with a decorative fence similar to the fence at the water pump station on Neperan Road as opposed to a chain link fence. Based thereon, three proposals were received for the replacement of the 6 ft. high chain link fence in kind and a 6 ft. high aluminum fence. The spreadsheet included provides the cost proposals for the fence replacement. I have also included an E-Mail from Nancy Pellegrini, the resident of Glenwolde who is requesting the decorative fence. Should the Board agree to install the decorative fence as opposed to the chain link fence, there will be an additional cost of \$6,780 above the amount appropriated in the capital budget.

FENCE REPLACEMENT - GRACEMERE PARK  CAPITAL BUDGET APPROPRIATION = \$22,500			
Vendor Proposal for 6' Chain Link Proposal for 6' Decorative Alumini			
Precision Built			
Fences	\$22,500.00	\$29,280.00	
Yaboo Fence			
Company	\$34,074.00	\$44,195.00	
Carjen Fence Co.			
Inc.	\$21,431.25	\$63,301.50	

#### Mike Blau

From: nancy pellegrini <ncpell@optonline.net>
Sent: Monday, November 30, 2015 11:03 AM

To: Mike Blau
Cc: Joe Arduino

**Subject:** Capital Improvement project along the north sidee of Gracemere Park

To: Tarrytown Board Members

As a resident of Glenwolde Park, I have represented the concerns of my neighbors and requested that the capital improvement project be undertaken and completed.

For twenty six years, I have had the pleasure of living in this beautiful historic neighborhood on the south end of Tarrytown. Recently, Glenwolde was listed on the National Registry of historic neighborhoods. Within the past five years we installed two signposts to recognize the entrances to our neighborhood, which was built in 1927, and is in close proximity to Lyndhurst. It is because of this historic value we would like a black aluminum fence to be installed rather than a chain link fence which appears to be used mainly for commercial applications.

We are a residential community, and think an aluminum fence would be more in keeping with the charm of the neighborhood. Most of the residents have lived here for many years and feel that our tax dollars should be used to enhance the integrity of the neighborhood rather than detract from it.

Your consideration of this request is greatly appreciated.

Sincerely,

Nancy Pellegrini 4 Glenwolde Park Tarrytown

### SECTION 2. PLAN ADOPTION

### 2.1 Overview

This section contains information regarding adoption of the 2015 Westchester County Multi-Jurisdictional Hazard Mitigation Plan by Westchester County and each participating jurisdiction.

### 2.1.1 Plan Adoption by Local Governing Bodies

Adoption by the local governing bodies demonstrates the commitment of Westchester County and each participating jurisdiction to fulfill the mitigation goals [and objectives] and mitigation strategies outlined in the Plan. Adoption legitimizes the Plan and authorizes responsible agencies to execute their responsibilities.

The County and all participating jurisdictions will proceed with formal adoption proceedings when FEMA provides conditional approval of this plan. Following adoption or formal action on the plan, the jurisdiction must submit a copy of the resolution or other legal instrument showing formal adoption (acceptance) of the plan to NYS DHSES. This will then be submitted to FEMA with the resolution in Appendix A of this Plan. The jurisdictions understand that FEMA will transmit acknowledgement of verification of formal plan adoption and the official approval of the plan to the mitigation plan coordinator.

The resolution issued to support adoption of the plan is included as Appendix A, Resolution of Plan Adoption.

In addition to being required by DMA 2000, adoption of the plan is necessary because:

- It lends authority to the plan to serve as a guiding document for all local and state government officials;
- It gives legal status to the plan in the event it is challenged in court;
- It certifies the program and grant administrators that the plan's recommendations have been properly considered and approved by the governing authority and jurisdictions' citizens; and
- It helps to ensure the continuity of mitigation programs and policies over time because elected officials, staff, and other community decision-makers can refer to the official document when making decisions about the community's future.

Source: FEMA. 2003. "How to Series"-Bringing the Plan to Life (FEMA 386-4).

#### **RESOLUTION NO. XXXX-XX**

# A RESOLUTION OF THE Governing Body OF THE Jurisdiction Name AUTHORIZING THE ADOPTION OF THE 2015 WESTCHESTER COUNTY, NY HAZARD MITIGATION PLAN UPDATE

WHEREAS, all jurisdictions within Westchester County have exposure to natural hazards that increase the risk to life, property, environment, and the County and local economy; and

WHEREAS; pro-active mitigation of known hazards before a disaster event can reduce or eliminate long-term risk to life and property; and

WHEREAS, The Disaster Mitigation Act of 2000 (Public Law 106-390) established new requirements for pre and post disaster hazard mitigation programs; and

WHEREAS; a coalition of Westchester County municipalities with like planning objectives has been formed to pool resources and create consistent mitigation strategies within Westchester County; and

WHEREAS, the coalition has completed a planning process that engages the public, assesses the risk and vulnerability to the impacts of natural hazards, develops a mitigation strategy consistent with a set of uniform goals and objectives, and creates a plan for implementing, evaluating and revising this strategy;

### NOW, THEREFORE, BE IT RESOLVED that the [jurisdiction name]:

- 1) Adopts in its entirety, the 2015 Westchester County Hazard Mitigation Plan (the "Plan") as the jurisdiction's Natural Hazard Mitigation Plan, and resolves to execute the actions identified in the Plan that pertain to this jurisdiction.
- 2) Will use the adopted and approved portions of the Plan to guide pre- and post-disaster mitigation of the hazards identified.
- 3) Will coordinate the strategies identified in the Plan with other planning programs and mechanisms under its jurisdictional authority.
- 4) Will continue its support of the Mitigation Planning Committee as described within the Plan.
- 5) Will help to promote and support the mitigation successes of all participants in this Plan.
- 6) Will incorporate mitigation planning as an integral component of government and partner operations.

DASSED AND ADODTED on this Yet Yad Yd Yd day of MONTH 2015 by the following vote:

7) Will provide an update of the Plan in conjunction with the County no less than every five years.

ווא ממממא ו	ADOI 1ED on this X , X , X , X day of World it, 2013, by the lone wing vote.
AYES:	
NOES:	
ABSENT:	
ABSTAIN:	
	Mayor, City/Town/Village of
ATTEST:	
	Clerk, City/Town/Village of



Friday, October 14, 2015

### **WESTCHESTER COUNTY**

### Resources for Implementing Your Approved Plan

**Local Mitigation Planning Handbook**. It is the official guide for local governments to develop, update and implement local mitigation plans. While federal requirements have not changed, the Handbook provides revised and expanded guidance, offering practical approaches, tools, worksheets and local mitigation planning examples for how communities can engage in effective planning to reduce long-term risk from natural hazards and disasters. <a href="http://www.fema.gov/library/viewRecord.do?id=7209">http://www.fema.gov/library/viewRecord.do?id=7209</a>

**Using Cost Benefit Review in Mitigation Planning** (FEMA 386-5). This How-To #5 is available online at <a href="http://www.fema.gov/media-library/assets/documents/10210">http://www.fema.gov/media-library/assets/documents/10210</a>

Mitigation Ideas: A Resource for Reducing Risk from Natural Hazards provides a resource that communities can used to identify and evaluate a range of potential mitigation actions for reducing risk to natural hazards and disasters. <a href="https://www.fema.gov/media-library/assets/documents/30627">https://www.fema.gov/media-library/assets/documents/30627</a>

FEMA's Hazard Mitigation Assistance (HMA) Grant Programs provide funding for eligible mitigation activities that reduce disaster losses and protect life and property from future disaster damages including the Hazard Mitigation Grant Program (HMGP), Pre-Disaster Mitigation (PDM), Flood Mitigation Assistance (FMA). For disasters declared after February 27, 2015, HMGP funding may be used to fund additional mitigation planning-related activities including updating or enhancing HMP elements or integrating HMP risk assessments or mitigation strategies into other planning efforts. Please note that states are ultimately responsible for prioritizing how HMGP funding will be spent. <a href="https://www.fema.gov/media-library/assets/documents/103279">https://www.fema.gov/media-library/assets/documents/103279</a>

**Hazard Mitigation Planning Resources**: A variety of resources on the hazard mitigation planning process, including developing and implementing local mitigation plans and mitigation grant programs. <a href="http://www.fema.gov/hazard-mitigation-planning-resources#7">http://www.fema.gov/hazard-mitigation-planning-resources#7</a>

Hazard Mitigation: Integrating Best Practices into Planning: This resource, prepared by the American Planning Association (APA), seeks to close the gap that often exists between hazard mitigation planning and other local planning and regulatory land-use processes. It introduces hazard mitigation as a vital area of practice for planners; provides guidance on how to integrate hazard mitigation strategies into comprehensive, area, and functional plans; and shows where hazard mitigation can fit into zoning and subdivision codes. Best practices and practical applications are provided. <a href="https://www.fema.gov/media-library/assets/documents/19261">https://www.fema.gov/media-library/assets/documents/19261</a>





### Other FEMA Resources

NFIP Community Ratings System: The National Flood Insurance Program (NFIP) Community Rating System (CRS) is a voluntary program for recognizing and encouraging community floodplain management activities exceeding the minimum NFIP standards. Any community in full compliance with the minimum NFIP floodplain management requirements may apply to join the CRS. The CRS uses a Class rating system to determine flood insurance premium reductions for residents. Each CRS Class improvement produces a 5% discount on flood insurance premiums for properties in the SFHA. It should be noted that NYS requirements exceed NFIP minimums for some activities. For a summary of New York State's Uniform Minimum Credit, see <a href="http://crsresources.org/200-2/#">http://crsresources.org/200-2/#</a>. The current CRS Coordinator's Manual is here: <a href="http://crsresources.org/">http://crsresources.org/</a>

Reducing Damage from Localized Flooding: A Guide for Communities: This guide is intended to help local offices in cities, towns, villages, and counties in the United States understand what they can do to reduce the damage, disruption, and public and private costs that result from the shallow, localized flooding that occurs within their jurisdictions. This is flooding that all too often escapes the attention received by larger floods or those that are clearly mapped and subject to floodplain development regulations. June 2005. https://www.fema.gov/media-library/assets/documents/1012

Engineering With Nature: Alternative Techniques to Riprap Bank Stabilization: While land erosion, stream migration and even flooding are natural processes, they can cause havoc when occurring near human populations. This has led to the creation of a number of measures to control or eliminate such hazards. Unfortunately, while many of these techniques – such as riprap or hard armoring - solve the immediate problem, they are not always the safest or most environmentally conscious choice for the long-term. This FEMA Region X report documents case studies where alternatives to riprap have been employed.

Planning for Post-Disaster Recovery: Next Generation: This resource is designed to help communities improve their resiliency and provides how-to guidance for communities to start their mitigation planning and disaster-recovery planning processes. The new report was produced by the American Planning Association (APA) through a cooperative agreement from FEMA, and is a follow-up edition to the popular Planning for Post-Disaster Recovery and Reconstruction (FEMA 421) report originally published in 1998. <a href="https://www.fema.gov/media-library/assets/documents/103445">https://www.fema.gov/media-library/assets/documents/103445</a>

Subdivision Design in Flood Hazard Areas (PAS 473): Economic, political, and market pressures make some development on floodplains inevitable. But appropriate subdivision designs can minimize risks of flood damage-or eliminate them entirely. This report explores the full range of planning techniques to minimize possible problems in a flood-hazard area. Cluster development, coast-to-road lots, and elevated buildings are all suggested as techniques that will minimize flood damage. Detailed diagrams illustrate the natural functions of a floodplain and describe the tools used to preserve these functions and protect properties from flooding. 1997. Update currently underway. \$15. <a href="https://www.planning.org/store/product/?ProductCode=BOOK\_P473">https://www.planning.org/store/product/?ProductCode=BOOK\_P473</a>





### Westchester County-specific Resources

Flood Risk Tools for New York Communities: Besides the regulatory tools FEMA develops, the Flood Insurance Rate Maps (FIRMs) and Flood Insurance Study (FIS) reports, FEMA, in partnership with local and state partners, also provides communities with other GIS tools they can use to better understand and plan for flood risk. For Westchester County's coastal communities, a Flood Risk Report, Flood Risk Map, and Flood Risk Database can be found here:

https://data.femadata.com/NationalDisasters/Hurricane%20Sandy/RiskMAP/Public/Draft Non Regulatory Flo od Risk Products/Westchester/

Westchester County Stormwater Reconnaissance Plans: Westchester County enacted a Stormwater Management Law in 2011 requiring the county to assess current conditions and identify cost-effective projects to address flooding and flood damage. Since 2012 a Stormwater Advisory Board has met regularly to advise the county on flood-related matters, including the development of "reconnaissance plans" for each of the county's major watersheds or drainage basins. (1) Saw Mill River-Pocantico River Watershed (December 2012); (2) Bronx River Watershed (April 2013); (3) Coastal Long Island Sound Watershed (August 2013); (4) Peekskill-Haverstraw Bay Watershed (March 2014); and (5) Croton River and Inland Long Island Sound Watersheds (July 2014). <a href="https://planning.westchestergov.com/environment/flooding">https://planning.westchestergov.com/environment/flooding</a>

Flooding and Land Use Planning: A Guidance Document for Municipal Officials and Planners: This manual was created for elected officials, planning and zoning board members, planners and development professionals to improve land use decisions with respect to flooding and flood damage. The manual covers: (1) flooding causes and the relationship to development; (2) regulations for government agencies associated with flood control and flood hazard mitigation; (3) comprehensive and watershed planning; (4) stormwater management; (5) successful floodplain management tools; (6) local ordinances; (7) site plan review tools; and (8) stormwater management design. The manual also includes an extensive appendix with a glossary and references, including a summary of Federal and State programs that support the items addressed. June 2010. See "View the manual" link under County Efforts: <a href="http://planning.westchestergov.com/environment/flooding">http://planning.westchestergov.com/environment/flooding</a>

Historic Flood Map Information: Communities can receive Community Rating System credits for maintaining earlier editions of flood insurance rating maps (FIRMs) and Flood Boundary and Floodway Maps and making these maps readily available. Copies of old FIRMs and studies are available from the FEMA Map Service Center: https://msc.fema.gov/portal/advanceSearch#searchresultsanchor

Floodplain Management Training: Please note that NYSDEC will be providing Floodplain Management Training in all NYS counties. Please check website for schedule: <a href="http://www.dec.ny.gov/lands/101275.html">http://www.dec.ny.gov/lands/101275.html</a>





### WESTCHESTER COUNTY RESILIENCE MEETING

Other Planning and Implementation Resources

New York State Stormwater Management Design Manual: Green infrastructure consists of a variety of site design techniques and structural practices used for managing stormwater. On a larger scale, it can include preserving and restoring natural landscape features (such as forests, floodplains and wetlands), and reducing impervious surfaces. On a smaller scale, it can include green roofs, pervious pavement, rain gardens, vegetated swales, planters and stream buffers. These smaller tools are also referred to as Low Impact Development or LID. Please see: <a href="http://www.dec.ny.gov/lands/58930.html">http://www.dec.ny.gov/lands/58930.html</a> and Chapter 5 in NYSDEC Stormwater Management Design Manual: <a href="http://www.dec.ny.gov/chemical/29072.html">http://www.dec.ny.gov/chemical/29072.html</a>

NYS Climate Smart Communities Climate Smart Resiliency Planning: A Planning Evaluation Tool: Designed specifically for New York State Communities, this NYSDEC-developed resource is a self-administered planning assessment tool designed to help local officials assess their communities' readiness and resilience in the face of changing weather patterns and rising sea levels. See the Climate Smart Resiliency link on the right under "Important Links" <a href="http://www.dec.ny.gov/energy/82168.html">http://www.dec.ny.gov/energy/82168.html</a>

Using Multi-Objective Management to Reduce Flood Losses in Your Watershed: This citizen's guidebook explains "multiobjective management" or "M-O-M" - a proven approach to reduce flood losses and simultaneously address other community concerns. Based on strong communication, it capitalizes on the technical and financial help that is already available from government agencies and private organizations. It succeeds because it coordinates flood loss reduction with other community needs and goals to develop a stronger, more comprehensive program. Developed by EPA and the Association of State Floodplain Managers; <a href="http://floods.org/index.asp?menuID=726&firstlevelmenuID=188&siteID=1">http://floods.org/index.asp?menuID=726&firstlevelmenuID=188&siteID=1</a>

Post-Flood Emergency Stream Intervention: Originally developed by the Delaware County Soil and Water Conservation District and Delaware County Planning Department in cooperation with the New York City Department of Environmental Protection, this resource was later expanded for state-wide application by New York Department of Environmental Conservation. March 2014. www.dec.ny.gov/docs/administration\_pdf/streammnll.pdf

Stream Processes: A Guide to Living in Harmony with Streams: This was a collaborative project of the Chemung County Soil and Water Conservation District, Upper Susquehanna Coalition, and Southern Tier Central Regional Planning and Development Board. Additional input and assistance was provided by the Hydrologic and Habitat Modifications Workgroup of the NYS Nonpoint Source Coordinating Committee, the NYS Department of Environmental Conservation, the NYS Department of Transportation, the Bradford County (PA) Conservation District, and others. August 2006. <a href="https://www.stcplanning.org/index.asp?pageId=103">https://www.stcplanning.org/index.asp?pageId=103</a>

**Local Flood Proofing Programs**: This document was prepared by French & Associates, Ltd., Park Forest, Illinois for the US Army Corps of Engineers National Nonstructural/Flood Proofing Committee. It is based on publications, research findings, site visits, and interviews with a number of communities and organizations. Included as a resource from the NFIP Community Ratings System program. February 2005. See link 360 Local Flood Proofing Programs: <a href="http://crsresources.org/300-3/">http://crsresources.org/300-3/</a>





No Adverse Impact Floodplain Management: No Adverse Impact floodplain management takes place when the actions of one property owner are not allowed to adversely affect the rights of other property owners. The adverse effects or impacts can be measured in terms of increased flood peaks, increased flood stages, higher flood velocities, increased erosion and sedimentation, or other impacts the community considers important. A variety of resources available from the Association of State Floodplain Managers. http://www.floods.org/index.asp?menulD=460

New York State Floodplain and Stormwater Managers Association: The NYSFSMA is the NYS chapter of the Association of State Floodplain Managers. Helpful information regarding floodplain management is available from their website: <a href="http://nyfloods.org/content.aspx?page\_id=0&club\_id=735785">http://nyfloods.org/content.aspx?page\_id=0&club\_id=735785</a>



# 9.42 Village of Tarrytown

This section presents the jurisdictional annex for the Village of Tarrytown.

# 9.42.1 Hazard Mitigation Plan Point of Contact

The following individuals have been identified as the hazard mitigation plan's primary and alternate points of contact.

Primary Point of Contact	Alternate Point of Contact
Michael Blau, Village Administrator	Michael McGarvey, Village Engineer, NFIP FPA
One Depot Plaza, Tarrytown, NY 10591	One Depot Plaza, Tarrytown, NY 10591
(914) 631-1885	(914) 631-3668
mblau@tarrytowngov.com	mmcgarvey@tarrytowngov.com

# 9.42.2 Municipal Profile

This section provides a summary of the community.

#### **Population**

According to the U.S. Census, the 2010 population for the Village of Tarrytown was 11,277.

#### Location

The Village of Tarrytown is located in the central-western portion of Westchester County along the Hudson River. The Village is bordered by the Village of Sleepy Hollow to the north, the Village of Irvington to the south and the Town of Greenburgh to the east. The Hudson River establishes the Village's western boundary. The Village is approximately 5.7 square miles in area (3.7 square miles of land area) and 22 miles north of Manhattan in an area called the Tappan Zee.

#### **Brief History**

The Village was built in 1645 and was incorporated on December 9, 1870. After the Revolutionary War (for which Tarrytown received acclaim as the place of the capture of Major Andre) Tarrytown was mainly an agricultural community. In 1849, the New York Central Division came to Tarrytown and freight began to move by rail. Many wealthy and powerful families moved to the area including Washington Irving, General William Paulding, and Jay Gould. After the great depression there was a surge in home building and in the mid-1950s the New York State Thruway and Tappan Zee Bridge were completed and Tarrytown became the site for several large corporations. Tarrytowners are involved in their community with many volunteer communities including a volunteer fire department and ambulance corps. Metro-North railroad provides service to Manhattan – an easy 35 minute commute. Tarrytown welcomes many tourists to the community and is proud of its parks, waterfront, antique shops and many fine restaurants.

#### **Governing Body Format**

Board of Trustees (Mayor and six trustees).

# **Growth/Development Trends**

The following table summarizes recent residential/commercial development since 2005 and any known or anticipated major development that has been identified in the next five years within the municipality.

Table 9.42-1. Growth and Development

Property or Development Name	Type (e.g. Res., Comm.)	Number of Units / Structures	Location (address and/or Parcel IDs)	Known Hazard Zones*	Description / Status		
Recent Development							
Hudson Harbor	Residential	198	West Main Street	Flood (AE7)	Approved project; 52 units already constructed. Building Permit issued for another 52.		
Legends at Wilson Park	Residential	14	Wilson Park Drive	None	Approved subdivision. Building Permit issued for one unit.		
Jardim Estates East	Residential	12	Browning Lane	None	Subdivision presently before Planning Board		
Jardim Estates West	Residential	8	Gracemere Road	None	Approved subdivision. 8 already constructed.		
Tarry Grand Estates	Residential	8	Off of South Broadway	None	Application submitted to Planning Board		
Kraft Foods Requa Property	Residential	22	Off of South Broadway	None	Development possibilities.  Land currently vacant.		
Belvedere	Residential	59	Off of South Broadway	None	Land presently used as one large parcel with mansion. Development possibilities on property.		
		Known or A	nticipated Developmen	15			
Redevelopment at old Recreation Building – new Recreation facility with swimming pool	Recreational	N/A	River front area	Flood (storm surge)	In planning stages		
Tear down and rebuilt of Boat Club facility (the only NFIP RL property in the Village)	Commercial, Recreational	1	236 Greene Street	Flood – however will be rebuilt to prevailin g NFIP requirem ents	In planning stages		

<sup>\*</sup> Only location-specific hazard zones or vulnerabilities identified.

### 9.42.3 Natural Hazard Event History Specific to the Municipality

Westchester 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 provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities. For the purpose of this plan update, events that have occurred in the County from 2005 to present were summarized to indicate the range and impact of hazard events in the community. Information regarding specific damages is included, if available, based on reference material or local sources. This information is presented in the table below. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.

Table 9.42-2. Hazard Event History

Dates of Declaration # County Event Event Type (If Applicable) Designated? Summary of Damages/Losses
--

Table 9.42-2. Hazard Event History

Dates of Event	Event Type	FEMA Declaration # (If Applicable)	County Designated?	
October 27- November 8, 2012	Hurricane Sandy	DR-4085	Yes	Incurred ~\$130K debris removal and emergency protective services (Public Assistance). Not a significant amount of structural damage. Mostly water was backing up from storm drain systems. Village Hall is 10' above the BFE; storm surge came to within 1' of the front door. Flooding at public housing complex run by the Tarrytown Municipal Housing Authority. Power outages in 65-7% of the Village for 4-5 days. Village Park and ballfield electrical system completely inundated.
February 8-9, 2013	Severe Winter Storm and Snowstorm	DR-4111	No	Village ran out of places to stage snow, and had to rely on a former manufacturing facility in Sleepy Hollow to stage snow.

Notes:

EM Emergency Declaration (FEMA)

FEMA Federal Emergency Management Agency

DR Major Disaster Declaration (FEMA)

IA Individual Assistance

N/A Not applicable

PA Public Assistance

# 9.42.4 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 Village of Tarrytown. For additional vulnerability information relevant to this jurisdiction, refer to Section 5.0.

#### Natural Hazard Risk/Vulnerability Risk Ranking

The table below summarizes the natural hazard risk/vulnerability rankings of potential hazards for Village of Tarrytown.

Table 9.42-3. Natural Hazard Risk/Vulnerability Risk Ranking

Hazard type	Estimate of Potential I Structures Vulnerable		Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking <sup>h</sup>
Earthquake	100-Year GBS: 500-Year GBS: 2,500-Year GBS:	\$0 \$4,140,763 \$73,552,658	Occasional	24	Medium
Extreme Temperature	Damage estimate n	ot available	Frequent	30	Medium
Flood	1% Annual Chance:	\$34,103,592	Frequent	36	High
Severe Storm	100-Year MRP: 500-year MRP: Annualized:	\$3,391,587 \$19,591,255 \$210,188	Frequent	48	High
Winter Storm	1% GBS: 5% GBS:	\$10,066,919 \$50,334,594	Frequent	51	High
Wildfire	Estimated Value in the WUI:	\$0	Frequent	18	Medium

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 the custom inventory developed for Westchester County and probabilistic modeling results and exposure analysis as discussed in Section 5.
- c. The earthquake and hurricane wind hazards were evaluated by Census tract. The Census tracts do not exactly align with municipal boundaries; therefore, a total is reported for each Town inclusive of the Villages.
- d. Frequent = Hazard event that is likely to occur within 25 years;
   Occasional = Hazard event that is likely to occur within 100 years; and
   Rare = Hazard event that is not likely to occur within 100 years
- e. The estimated potential losses for Severe Storm are from the HAZUS-MH probabilistic hurricane wind model results. See footnote c.

GBS = General building stock

MRP = Mean return period

RCV = Replacement cost value

# National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the municipality.

Table 9.42-4. NFIP Summary

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 1% Flood Boundary (3)
Village of Tarrytown	48	23	926,665	1	0	5

Source: FEMA Region 2, 2014

- (1): Policies, claims, repetitive loss and severe repetitive loss statistics provided by FEMA Region 2, and are current as of 3/31/14. Please note the total number of repetitive loss properties excludes the severe repetitive loss properties. The number of claims represents the number of claims closed by 3/31/14.
- (2): Information regarding total building and content losses was gathered from the claims file provided by FEMA Region 2.
- (3): The policies inside and outside of the flood zones is based on the latitude and longitude provided by FEMA Region 2 in the policy file.

  FEMA noted that where there is more than one entry for a property, there may be more than one policy in force or more than one GIS possibility.

#### **Critical Facilities**

The table below presents HAZUS-MH estimates of the damage and loss of use to critical facilities in the community as a result of a 1-percent annual chance flood events.

Table 9.42-5. Potential Flood Losses to Critical Facilities

			Ex	posure	Potential	Loss From 1	L% Event
Name	Municipality	Type	1% Event	0.2% Event	% Structure Damage		Days to 100- Percent
Frank's Fuel Service Wharf.	Tarrytown (V)	Port		X	-	-	**
Hudson Harbor	Tarrytown (V)	Port	х	х	<b>w</b>	•	**
New York Waterways Dock.	Tarrytown (V)	Port	х	х	-	-	**
No Name Provided	Tarrytown (V)	Wastewater Pump	х	х	40.0	-	*
Tarrytown Boat Club	Tarrytown (V)	Marina	х	х	-	*	
Tarrytown F.D.	Tarrytown (V)	Fire	х	х	5.4	6.2	480
Tarrytown Metro North Station	Tarrytown (V)	Rail	х	х	•	-	-
Washington Irvington Boat	Tarrytown (V)	Marina	х	х	-	-	<u> </u>

Source: Westchester County, FEMA 2014

Note: Please note it is assumed that wells have electrical equipment and openings are three-feet above grade.

(1) HAZUS-MH 2.1 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 2.1 User Manual).

(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.

#### Other Vulnerabilities Identified by Municipality

The following flood-prone areas have been identified by the Village of Tarrytown through the Westchester County Stormwater Reconnaissance Plan process (see Section 6 – Capability Assessment for a description of the program; see map at the end of this annex for location of these problem areas):

Map Area ID: TTN-1

Municipality: TARRYTOWN

General Location: NEPERAN AVENUE, EAST OF SUNNYSIDE AVENUE

Nearest Watercourse or Water Body: TRIBUTARY TO TARRYTOWN RESERVOIR

Associated Study/Report: NONE

**Evaluation Score: Low** 

General Description of Flooding: A section of Neperan Avenue east of Sunnyside Avenue, just south of Tarrytown Reservoir, is impassable during storms dumping three inches or more of rain and most notably flooded during a storm in 2004 or 2005. A small watercourse, tributary to Tarrytown Reservoir and flowing from south to north, crosses underneath Neperan Avenue in this location. The respondent stated that the source of flooding is stormwater runoff from steep slopes and roads draining to the watercourse and overwhelming Neperan Avenue catch basins. Eighteen inches of standing and rushing water reportedly covers the road for approximately six hours.

The following additional vulnerabilities are identified by the municipality:

- Neparan Road water pump station (co-located with Sleepy Hollow and Briarcliff Manor's pump stations) – all running on generator during Sandy. As part of the Con-Ed hardening project, this was what the Village identified for them to focus on.
- The primary sheltering facility (not ARC-designated) in the Village is the Senior Center which is located west of the Metro North railroad tracks, within the Hudson River floodplain. During Sandy, the Village used the Community Opportunity Center (COC) on Wildey Street to support short term needs, however this facility lacks backup power.
- The Village lacks an adequate Emergency Operations Center (EOC).
- During Severe Winter Storms, as during the 2013/14 winter season, the Village lacks enough locations
  to stage snow. The Village was allowed to stage snow at the former General Motors plant in Sleepy
  Hollow, but this site is scheduled for re-development. This is also a problem for Sleepy Hollow.
- During power outages, the loss of traffic signals particularly along major roadways creates a
  significant public safety concern, and places a burden on police resources during a time when they are
  already taxed addressing other public safety concerns. This problem is common throughout the
  County.
- The Boat Club facility is the only identified NFIP Repetitive Loss facility in the Village, however this is scheduled to be demolished and rebuilt to prevailing NFIP requirements
- · Lighting system at ball field got inundated during Sandy (brackish water).
- No landslide vulnerabilities identified in the community.



# 9.42.5 Capability Assessment

This section identifies the following 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**

The table below summarizes the regulatory tools that are available to the municipality.

Table 9.42-6. Planning and Regulatory Tools

Tool / Program (code, ordinance, plan)	Do you have this? (Y/N)	Authority (local, county, state, federal)	Dept. Code Citation and Comments /Agency (Code Chapter, date of adoption, name of plan, explanation of authority, etc.)
Building Code	Y	State and Local	NYS Building Code Ch. 97 Building Construction, Adopted 5-6- 1991
Zoning Ordinance	Y	Local	Ch. 305 Zoning, Adopted 8-17-1987, Amended 12-1-2008
Subdivision Ordinance	Y	Local	Ch. 263 Subdivision of Land, Adopted 2-5- 1962
NFIP Flood Damage Protection Ordinance	Y	Federal, State, Local	Ch. 169 Flood Damage Prevention, Adopted 4-20-1987, Rev. 6-18-2007
NFIP - Freeboard	Y	State, Local	Ch. 169 State mandated BFE+2 for single and two- family residential construction, BFE+1 for all other construction types
NFIP - Cumulative Substantial Damages	N	Local	
Growth Management	Y		
Floodplain Management / Basin Plan	Y	Local	Chapter 169 - Flood Damage Prevention
Stormwater Management Plan/Ordinance	Y	Local	Ch. 305 Zoning, Article XII Stormwater Management and Erosion and Sediment Control, Adopted 8-17-1987, Amended 12- 1-2008
Comprehensive Plan / Master Plan	Y	Local	Village of Tarrytown Comprehensive Master Plan, 2007
Capital Improvements Plan	Y	Local	5-Year Plan
Site Plan Review Requirements	Y	Local	Chapter 305 – Zoning
Habitat Conservation Plan	1		
Economic Development Plan	N		
Emergency Response Plan	Y	Local	Updated in 2011 along with HMP
Post Disaster Recovery Plan	Y	Local	
Post Disaster Recovery Ordinance	Y	Local	
Real Estate Disclosure req.	Y	State	NYS mandate
Other (e.g. steep slope ordinance, local waterfront	Y	Local	Ch. 147 Environmental Quality Review

Table 9.42-6. Planning and Regulatory Tools

Tool / Program (code, ordinance, plan)	this?	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, date of adoption, name of plan, explanation of authority, etc.)
revitalization plan)				
Waterfront Management or Protection Plan	Y	Local		Chapter 300 – Waterfront Consistency Review
Shoreline Management Plan				

<sup>(1)</sup> NYS Subdivision laws provide a general framework, but allow room for local ordinances and interpretation.

# **Administrative and Technical Capability**

The table below summarizes potential staff and personnel resources available to the Village of Tarrytown.

Table 9.42-7. Administrative and Technical Capabilities

Staff/ Personnel Resources	Available (Y or N)	Department/ Agency/Position
Planner(s) or Engineer(s) with knowledge of land development and land management practices	Y	Village Engineer; Planning is conducted by hired consultants
Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Y	Village Engineer and Assistant Village Engineer
Planners or engineers with an understanding of natural hazards	Y	Village Engineer and Assistant Village Engineer
NFIP Floodplain Administrator	Y	Village Engineer (per Ch. 169-10 of Village Code) Currently Michael McGarvey, Village Engineer
Surveyor(s)	N	
Personnel skilled or trained in "GIS" applications	Y	Assistant Village Engineer
Scientist familiar with natural hazards in the County.	N	
Emergency Manager	Y	Michael Blau, Village Administrator
Grant Writer(s)	Y	Michael Blau, Village Administrator
Staff with expertise or training in benefit/cost analysis	Y	Michael Blau, Village Administrator
Professionals trained in conducting damage assessments	N	

# **Fiscal Capability**

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

Table 9.42-8. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No/Don't Know)
Community Development Block Grants (CDBG)	Yes
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for specific purposes	Yes
User fees for water, sewer, gas or electric service	Yes (water and sewer)
Impact Fees for homebuyers or developers of new development/homes	Yes
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	Yes
Mitigation grant programs	Yes
Other	

# **Community Classifications**

The table below summarizes classifications for community program available to the Village of Tarrytown.

Table 9.42-9. Community Classifications

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

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

The classifications listed above 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 classifications include a higher classification when the subject property is located beyond 1000 feet of a creditable fire hydrant and is within 5 road miles of a recognized Fire Station.

Criteria for classification credits are outlined in the following documents:

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

#### **National Flood Insurance Program**

The following section provides details on the National Flood Insurance Program (NFIP) as implemented within the municipality:

#### NFIP Floodplain Administrator:

Michael McGarvey, P.E., Village Engineer

#### Flood Vulnerability Summary

Tarrrytown adopted Local Law "Flood Damage and Prevention" in 1987 to minimize damage from flooding for new construction and the renovation of existing buildings. The Local Law as last updated in 2009 to include revised base flood elevations in special flood zones.

#### Resources

Local Law Chapter 169 Flood Damage Prevention and NFIP/FIRM 360933



### Compliance History

All new construction located within the one A or Ae flood zones have been constructed at an elevation of 2 feet above BFE.

#### Regulatory

Compliance with Local Law Chapter 169 and Title 19 NYCRR is required prior to the issuance of any permits.

### Integration of Hazard Mitigation into Existing and Future Planning Mechanisms

It is the intention of this municipality to incorporate hazard mitigation planning and natural hazard risk reduction as an integral component of ongoing municipal operations. The following identifies relevant planning mechanisms and programs that have been/will be incorporated into municipal procedures, which may include former mitigation initiatives that have become continuous/on-going programs and may be considered mitigation "capabilities":

#### Regulatory and Enforcement

The Village constantly reviews their regulatory and enforcement programs, and adopts higher regulatory standards as warranted. As an example: Stormwater Regulations – Town requires all projects to design for the 25 or 100-year storm event for stormwater retention (location dependent).

#### Operational and Administration

Working relationship with Consolidated Edison (Con-Ed) is vastly improved (municipal liaison program), and Con-Ed has upgraded and implemented programs to address tree management and the hardening of their infrastructure. The Village continues to maintain a tree-trimming program to complement Con-Ed's tree management programs.

#### Fiscal

The Village has a 5-year Capital Budget program that includes funding for mitigation projects.

# Education and Outreach

The Village has a robust public education and outreach program, including a Village website, Reverse 911 and Email blast system, and regular newsletters to residents, used to support community hazard awareness, preparedness, and private property hazard mitigation. The Village intends to promote greater subscription to the Email blast system. Work with web developer to improve the Village website to increase traffic and utility

# 9.42.6 Mitigation Strategy and Prioritization

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

### **Past Mitigation Initiative Status**

The following table indicates progress on the community's mitigation strategy identified in the current 2011 Plan. Actions that are carried forward as part of this plan update are included in the following subsection in its own table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under 'Capability Assessment' presented previously in this annex.

Table 9.42-10. Past Mitigation Initiative Status

	CLANGE	Review Comments
Description LTT 1. Leading to the	Status	Review Comments
VT-1: Install a backup generator at the Riverside Hose fire house	100% complete.	
VT-2: The Tarrytown Seniors (Senior Facility) is located in the FEMA DFIRM 500-year flood boundary. To mitigate flooding, the Village is eliminating impervious surfaces to increase drainage around the senior center restoring the parkland and connecting an emergency generator.	100% complete. Restored park, removed as much impervious surfaces as possible, and installed a generator.	
VT-3: Work with the Village of Irvington to increase stormwater capacity in the Sunnyside Lane area (bordering both the Village of Tarrytown and Irvington) to mitigate flooding. Includes an NFIP Repetitive Loss property.	Minimal progress. Village submitted this project under Sandy HMGP.	Carry project forward in updated strategy, continuing to work with the Village of Irvington to secure funding and implement the project.
VT-4: Increase stormwater capacity along Neperan Road adjacent to Tarrytown Lakes (Skate Shack) to mitigate flooding. The current culvert is insufficient in size and overflows causing road closures and property damage.	100% complete.	Add an initiative addressing long term maintenance of Upper Tarrytown Lake to preserve detention capacity.
VT-5: Perform drainage improvements along Benedict Avenue to decrease flooding in the Loh park area. Raise and reconstruct two bridges that connect Loh Avenue and Leroy Avenue to eliminate the damming effect that takes place allowing water to flow freely.	25% complete. Project is out to bid.	Carry project forward
VT-6: Retrofit structures located in hazard- prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority.	Ongoing	Specifically identified is the Boat Club facility at 236 Greene Street (only RL in Village). This initiative to be combined with VT-7 below.
VT-7: Purchase, or relocate structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority.	Ongoing	See above.
VT-8: Maintain compliance with and good- standing in the NFIP including adoption and enforcement of floodplain management requirements (e.g. regulating all new and substantially improved construction in Special Hazard Flood Areas), floodplain identification and mapping, and flood insurance outreach to the community.	100% complete.	
VT-9: Begin the process to adopt higher	100% complete and	This initiative represents an ongoing process in

Table 9.42-10. Past Mitigation Initiative Status

Description	Status	Review Comments
regulatory standards to manage flood risk (i.e. increased freeboard, cumulative substantial damage/improvements).	continuous.	the Village to build regulatory capabilities, and is identified in the "Integration" of this annex.
		Stormwater Regulations — Town requires all projects to design for the 25 or 100-year storm event for stormwater retention (location dependent).
VT-10: Conduct and facilitate community and public education and outreach for Village residents and businesses to include, but not be limited to, the following to promote and effect natural hazard risk reduction:	50% complete. MS4 program involves extensive outreach.  Village website Reverse 911 Email blast system	Promote greater subscription to the Email blast system. Work with web developer to improve the Village website to increase traffic and utility.
VT-11: Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed.	Complete	Village is in full compliance with the NFIP.
VT-12: Have designated NFIP Floodplain Administrator (FPA) become a Certified Floodplain Manager through the ASFPM, and consider relevant continuing education training such as FEMA Benefit-Cost Analysis.	In progress	A modified version of this initiative is being carried forward, specifically identifying those county led initiatives that the Town will support and/or participate in.  CEU credits are typically needed for Building Inspector and P.E. license.
VT-13: Begin the process to apply to participate in the Community Rating System (CRS) to further manage flood risk and reduce flood insurance premiums for NFIP policyholders. This shall start with the submission to FEMA-DHS of a Letter of Intent to join CRS, followed by the completion and submission of an application to the program once the community's current compliance with the NFIP is established.	No progress.	A modified version of this initiative is being carried forward, specifically identifying those county led initiatives that the Town will support and/or participate in, which may include informational CRS seminars.
VT-14: Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0	100% complete.	
VT-15: Complete the ongoing updates of the Comprehensive Emergency Management Plans for Greenburgh and the six participating municipalities		
The Village Police department currently conducts an annual review of its emergency operational plans.  This year, the review is being done in conjunction with the department's plans for achieving accreditation.	100% complete.	
VT-16: Create/enhance/ maintain mutual aid agreements with neighboring communities for continuity of operations (e.g., the Village Police Department maintains mutual aid agreements with the Villages of Sleepy Hollow and Irvington. Additional agreements are in place with the Town of Greenburgh for SWAT, Drug & Alcohol Task Force and emergency radio operations).	100% complete.	

9.42-11

Table 9.42-10. Past Mitigation Initiative Status

Description	Status	Review Comments
VT-17: Identify and develop agreements with entities that can provide support with FEMA/SOEM paperwork after disasters; qualified damage assessment personnel – Improve post-disaster capabilities – damage assessment; FEMA/SOEM paperwork compilation, submissions, record-keeping	No Progress. This initiative would need to be led by the County.	A modified version of this initiative is being carried forward, specifically identifying those county led initiatives that the Town will support and/or participate in.
VT-18: Work with regional agencies (i.e. County and SOEM) to help develop damage assessment capabilities at the local level through such things as training programs, certification of qualified individuals (e.g. code officials, floodplain managers, engineers).	Ongoing with respect to professional continuing education of building code official. Full implementation of this initiative would need to be led by the County of NYS DHSES.	A modified version of this initiative is being carried forward, specifically identifying those county (of State) led initiatives that the Town will support and/or participate in.
VT-19: Continue to implement the tree- trimming program and work with Con-Ed to continue and maintain trees in the Village.	Ongoing.	This initiative is being removed from the updated mitigation strategy as it refers to activities that are an ongoing and normal part of municipal operations (Integration Action).
VT-20: Participate in local, county and/or state level projects and programs to develop improved structure and facility inventories and hazard datasets to support enhanced risk assessment efforts.	Ongoing. This is a County or State led initiative.	A modified version of this initiative is being carried forward, specifically identifying those county (of State) led initiatives that the Town will support and/or participate in.

### Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy

The Village of Tarrytown has identified the following as mitigation projects/activities that have been completed, are planned, or on-going within the municipality:

Benedict Avenue – got an \$877K county flooding grant. Had to redesigned project several times.
 They call it the Loh Park flood mitigation project. County flooding program. This is primarily to help prevent flooding of the County owned sewage pump station.

# Proposed Hazard Mitigation Initiatives for the Plan Update

The Village of Tarrytown identified mitigation initiatives they would like to pursue in the future. Some of these initiatives may be previous actions carried forward for this plan update. These initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. Table 9.42-11 identifies the municipality's updated local mitigation strategy.

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 actions as 'High', 'Medium', or 'Low.' Table 9.42-12 below summarizes the evaluation of each mitigation initiative, listed by Action Number.

9.42 - 13

Table 9.42-11. Proposed Hazard Mitigation Initiatives

CRS Category	PP	G.	qq	δ	ď		PP,
Mitigation Category	SIP	SIP	SIP	and Ler	SIP	s (RL – funding	SIP, EAP
Priority	Medium	Medium	Medium	ect Loh Avenue	Medium	Repetitive Los ative would be:	High
Timeline	Long-term DOF; Sandy HMGP application	Long-term DOF; Sandy HMGP application	Short DOF; Sandy HMGP application	dges that conn	in progress; out to bid.	en identified as ers for this initi t	Long-term DOF
Sources of Funding	Grant funding (HMGP applied), Village budget for	Grant funding (HMGP applied), Village budget for local match	Grant funding (HMGP applied), Village budget for local match	sconstruct two bri e.	Westchester County Grant (\$800,000) and Village	hose that have bee lity. The paramete ons: Greene Stree	FEMA or other mitigation
Estimated Cost	High - >1MM	High	High - ~\$150K	a. Raise and re t. 25% complet	High (> \$1.6 Million)	ain, including ti ding on feasibi ollowing locatii	High
Estimated Benefits	High - Reduced flooding in downtown business district affecting structures and infrastructure	High  [Closure of East and West Sunnyside and Broadway (Route 9); Washington Irving property floods (on the National Register of Historic Places); potential residential property damage]	High - Road washout and closures for 2-3 days along this high-traffic area (back-way around Parkways); Police car flooded and lost.	Continue to implement drainage improvements along Benedict Avenue to decrease flooding in the Loh park area. Raise and reconstruct two bridges that connect Loh Avenue and Leroy Avenue to eliminate the damming effect that takes place allowing water to flow freely. Project is out to bid, est. 25% complete.	High - Floods Westchester County Pump Station; Road closures along Route 9; Property damage to private residences along Route 9	Promote and support non-structural flood hazard mitigation alternatives for at risk properties within the floodplain, including those that have been identified as Repetitive Loss (RL – none currently), such as acquisition/relocation or elevation depending on feasibility. The parameters for this initiative would be: funding, benefits versus cost, and willing participation of property owners. Specifically identified are properties in the following locations: Greene Street	High - Reduced or eliminated risk to property damage from
Lead and Support Agencies	Village Engineer	Village of Irvington, Town of Greenburgh with support from the Village of Tarrytown's Engineer	Village Engineer	enue to decrease flo water to flow freely	Village Engineer and consultant	atives for at risk pro h as acquisition/relo Specifically identil	Village NFIP FPA; support from NYS
Goals Met	G-1, G-2	G-1, G-2	G-1, G-2	enedict Av	G-1,	ion alterne ently), suc y owners.	G-1,
Hazard(s) Mitigated	Flood, Severe Storm, Transportat	Flood, Severe Storm, Transportat ion	Flood, Severe Storm, Transportat ion	ements along Both that takes place	Flooding, Severe Storm, Transportat ion	d hazard mitigal IRL – none curr ation of propert	Flooding, Severe Storm
Applies to New and/or Existing Structures*	Existing	Existing	Existing	drainage improv damming effect	Existing	n-structural floo epetitive Loss (S I willing particip	Exiting
Mitigation Initiative	Central Avenue Culvert Replacement	Sunnyside Lane Stormwater Capacity Expansion- White Tail Road Drainage	Neperan Road Culvert Flooding Mitigation Project	Continue to implement drainage improvements along Benedict Avenue to decrease flo Avenue to eliminate the damming effect that takes place allowing water to flow freely.	See above.	Promote and support non-structural flood haze currently) and Severe Repetitive Loss (SRL benefits versus cost, and willing participation	See above.
əvitsitliri	Tarrytown -1 (LOI #1261)	Tarrytown -2 LOI #1274 (Former VT-3)	Tarrytown -3 LOI #1264 (Former VT-4)		Tarrytown -4 (Former VT-5)	Tarrytown	(Former VT-6/7)



Table 9,42-11. Proposed Hazard Mitigation Initiatives

CRS Category		Pi	P.R. P.I	ring Bu	dd	Ъ
Mitigation Category		EAP	LPR, EAP	he follov	SIP	SIP
Priority	d risk reduction. To and utility.	Medium	High	the Village are t	Medium	Medium
Timeline	t natural hazar o increase traff	Short Term / DOF	Short	y identified in	Short	Short
Sources of Funding grant funding, NFP flood insurance and ICC; property owner for local match.	promote and effec	TBD	Local (staff resources)	tions. Specificall	TBD – ask Greenburgh how they did it	TBD – grants from other levels of government. Funding from
Estimated Cost	sses to further to improve the	High	Low- Medium (locally)	raffic light loca	Medium	High
Estimated Benefits flooding	Continue to expand and enhance community and public education and outreach for Village residents and businesses to further promote and effect natural hazard risk reduction. Specifically, the Village will promote greater subscription to the Email blast system. Work with web developer to improve the Village website to increase traffic and utility.	High	High (comprehensive improvements mitigation and risk-reduction capabilities)	program to install portable generators with hook-ups at critical traffic light locations. Specifically identified in the Village are the following way	Reduced emergency protective services; potential life-safety	Improved sheltering capacity
Lead and Support Agencies DHSES and FEMA	and outreach for Vinail blast system.	Village	Westchester County, as supported by relevant local department leads,	ortable generators	NYSDOT (owner of traffic signals)	Westchester Community Opportunity Program
Goals Met	ducation n to the E	G-3, G-5	All Object ives	to install p	9-9. 5-9-	G-1,
Hazard(s) Mitigated	nity and public e eater subscriptio	All Hazards	All Hazards		Severe Storm; Severe Winter Storm	All Hazards
Applies to New and/or Existing Structures*	enhance commu will promote gr	N/A	New and Existing	o work with the NYSDOT generator progress:  Route 9 and 119  Route 9 and the entrance to the Thruway  Route 119 and the Thruway  Broadway and Main  Broadway and Benedict	N/A	Existing
Mitigation Intrative	Continue to expand and enhance community and public education and outreach for N Specifically, the Village will promote greater subscription to the Email blast system.	See above.	Support and participate in county led initiatives intended to build local and regional mitigation and risk-reduction capabilities (see Section 9.1)	Continue to work with the NYSDOT generator intersections:  Route 9 and 119 Route 9 and the entrance to the Thru Route 119 and the Thruway Broadway and Main Broadway and Benedict	See above.	Retrofit Community Opportunity Center (COC) on Wildey Street as and ARC- designated shelter, which will need to
ovitaliini	Тапутомп	-6 (Former VT-10)	Tarrytown -7 (Former VT-12, 17, 18, 20)		Tarrytown -8	Tarrytown -9



Table 9.42-11. Proposed Hazard Mitigation Initiatives

VIOSOTS CATEGOTY	ď		dd	Ы	k	£.
Mitigation Category	i I		1 1 1		m wate y Ave. rovide	SIP
notheatitM	<u>8</u> 9	cing at	S.	EM*	e. stor I Lero and pi	<u> </u>
Priority	Medium	OHSES is look	Medium	Medium	c Benedict Av I Loh Ave. and ment removal	High
Timeline	Short	ly PA. NYS I	Short	Short	to Loh Ave. & sen channels al storation, sedi	Short
Sources of Fünding profits	Available Federal and State emergency management and homeland security funding sources (e.g.	ers as part of Sand	Available state and federal grants	Available state and federal grants; contributions among Villages	Benedict Avenues 10 linear feet of op provide stream re	Village of BPL26
Estimated Cost	Medium	evated controll	Medium	Medium	at Prospect & ] nclose about 10 ninage area #3,	High
Estimated Benefits	Improved emergency management capabilities	controllers. Upgrade underground electrical system. Already elevated controllers as part of Sandy PA. NYS DHSES is looking at this	Maintain reliability of the system	Improved snow removal capabilities; especially during emergency situations	Lob Park Flood Mitigation Project: Install new 1,100 linear feet of drainage piping and catch basins from pond at Prospect & Benedict Avenues to Loh Ave. & Benedict Ave. sewer system. Phase 2: install new stormdrain systems, increase drainage channel capacity west of Grove St., enclose about 100 linear feet of open channels at Loh Ave. and Leroy Ave. and construct new storm drain system. Phase 3: construct new pond with associated outlet structure in upper drainage area #3, provide stream restoration, sediment removal and provide outfall protection on all six existing outfalls into main drainage channel.	High
Lead and Support Ageicies	Village of Tarytown, Westchester County	e underground elec	Village of Tarrytown	Village of Tarrytown; Other Villages in Town of Greenburgh	drainage piping an ainage channel cap d with associated or nnel.	County Planning, Stormwater Management, Village
Goals Met	G-1, G-2	ers. Upgrad	7	1,5	near feet of increase dr ict new pon frainage chi	
Hazard(s) Mitigated	All Hazards	ise up controlle	Flood	Severe Winter Storm	all new 1,100 li ndrain systems, thase 3: constru-	Flood, Severe Storm, Severe Winter Storm
Applies to New and/or Existing Structures*	Existing	ield Lighting – ra	Existing	N/A	tion Project: Instrinstall new storn n drain system. F	Existing
Witigation Tolliative include backup power,	Secure funding to construct an EOC within Village Hall, and implement once funding is secured.	Village Park and Ball field Lighting - raise up area.	See above.	Investigate the possibility of acquiring a snowmelter.	Loh Park Flood Mitigation Project: Install new 1,100 linear feet of drain sewer system. Phase 2: install new stormdrain systems, increase drainag and construct new storm drain system. Phase 3: construct new pond wit outfall protection on all six existing outfalls into main drainage channel	See above.
evitsitini	Tarrytown -10		Tarrytown -11	Tarrytown -12		Tarrytown -13

Notes: EM\* = Emergency Management activity (non-mitigation) Not all acronyms and abbreviations defined below are included in the table. \*Does this mitigation initiative reduce the effects of hazards on new and/or existing buildings and/or infrastructure? Not applicable (N/A) is inserted if this does not apply.

Community Rating System Department of Public Works

CRS DPW

Acronyms and Abbreviations:
CAV Community Assistance Visit

DMA 2000 Hazard Mitigation Plan Update -- Westchester County, New York July 2015

# Mitigation Category:

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

# CRS Category:

- Preventative Measures (PR) Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.
  - Property Protection (PP) These actions include public activities to reduce hazard losses or actions that involve (1) modification of existing buildings or structures to protect them from a 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 hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.
    - 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, projects, real estate disclosure, hazard information centers, and educational programs for school-age children and adults
      - 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, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.
- 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 retaining walls, and safe rooms.



		·····,						<del></del>					
High/ Medium/ Low	Medium	Medium	Medium	Medium	Medium	Medium	High	Medium	Medium	Medium	Medium	Medium	High
lsioT	'n	ļ	# #	1	ł	j	ŀ	9	7	7	و	9	8
Other Community Objectives	0	ì	ŀ	1		;	ı	0	0	0	0	0	0
Agency Champion	0	i	ł	ŀ	1	i	i	0	0	0	0	0	0
əniiəmiT	-	I		:		ŀ	1	-		-			
brezeH-iiluM	-	1	1	ļ	1		*				0	-	
Administrative	-	1	ţ	-		244	ł	0	0	0	0	0	0
Social	0	Ì	l	ļ	1	1	l		-	-			0
leJnemnotivn3	-		ı	****		1	I	0	0	0	0	0	-
Fiscal	0		1	i		1	ŀ	0	0	0	0	0	
Legal	0	l	ļ	ı	i	1	1	0	0	0	0	0	0
Political	0	1	l	1	I	1	i	0	0	0	0	0	0
Technical	0	l	1		1	1	ł	0	-	-	1	0	
Cost-Effectiveness		I	ļ		***	1	1			-	1	1	
Property Protection		1	l	I		I	1			1	1	-	-
Life Safety	-	l		4000	;	ł	1	1		1	ī		
Mitigation Action/Initiative	Central Avenue Culvert Replacement	Sunnyside Lane Stormwater Capacity Expansion- White Tail Road Drainage	Neperan Road Culvert Flooding Mitigation Project	Benedict Avenue drainage improvements	Address flood vulnerable properties, including RL/SRL	Enhanced Public Education and Outreach	<b></b>	Work with NYSDOT to install backup power at traffic lights	Retrofit Community Opportunity Center (COC)	Construct an EOC within Village Hall	Village Park and Ball field Lighting flood mitigation	Acquire snow melter	Loh Park Flood Mitigation Project
Mitigation Action/Project Number	Tarrytown -1 (LOI #1261)	Tarrytown-2 LOI #1274 (Former VT-3)	Tarrytown-3 LOI #1264 (Former VT-4)	Tarrytown-4 Former VT-5	Tarrytown-5 Former VT-6/7	Tarrytown-6 Former VT-10	Tarrytown-7 Former VT-12, 13, 17, 18, 20	Tarrytown-8	Tarrytown-9	Tarrytown-10	Tarrytown-11	Tarrytown-12	Tarrytown-13

Note: Refer to Section 6 which contains the guidance on conducting the prioritization of mitigation actions.



# 9.42.7 Future Needs To Better Understand Risk/Vulnerability

None at this time.

# 9.42.8 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the Village of Tarrytown that illustrate the probable areas impacted within the municipality. These maps are based on the best available data at the time of the preparation of this plan, and are considered to be adequate for planning purposes. Maps have only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the Village of Tarrytown has significant exposure. These maps are illustrated in the hazard profiles within Section 5.4, Volume I of this Plan.

#### 9.42.9 Additional Comments

None at this time.

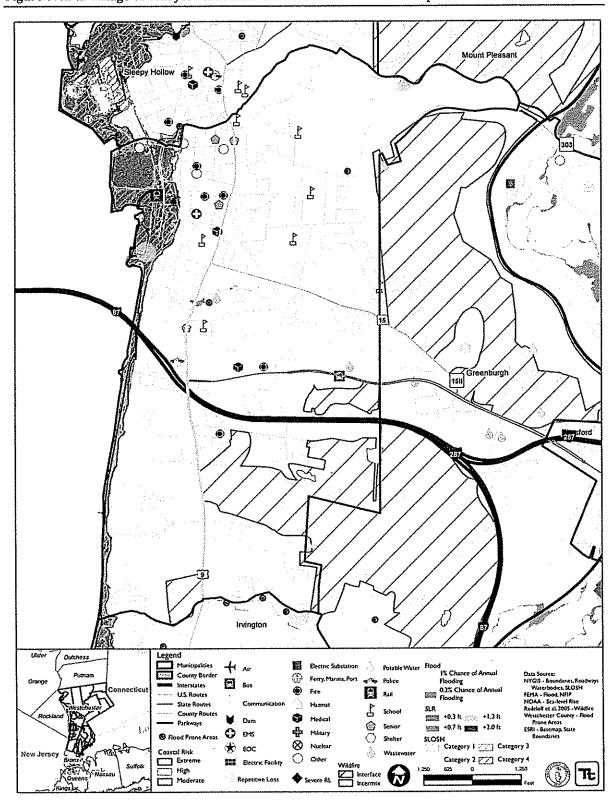


Figure 9.42-1. Village of Tarrytown Hazard Area Extent and Location Map

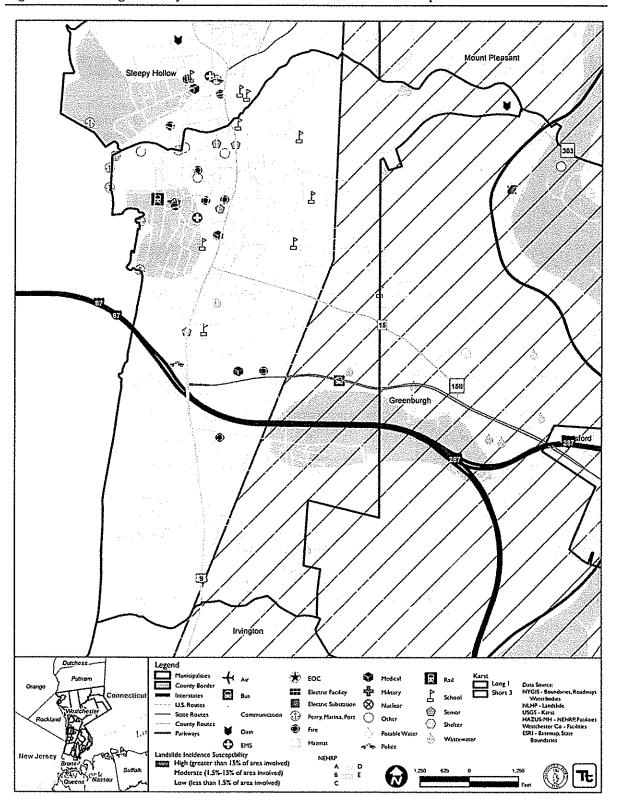


Figure 9.42-2. Village of Tarrytown Hazard Area Extent and Location Map

Name of Jurisdiction:
Action Number:
Action Name:

Village of Tarrytown, Tarrytown
LOI #1261
Central Avenue Culvert Replacement

	Assessing the Risk
Hazard(s) addressed:	Flood, Severe Storm, Transportation
Specific problem being mitigated:	The Village of Tarrytown is seeking hazard mitigation funding to protect and enhance the reliability and resilience of transportation infrastructure in the downtown business district of Tarrytown by replacing the 100-year old Central Ave
	Evaluation of Potential Actions/Projects
Actions/Projects Considered	Do nothing – current problem continues
(name of project and reason	2.
for not selecting):	3.
Ac	tion/Project Intended for Implementation
	The Village is proposing to replace the Central Avenue Culvert, from the
Description of Selected	eastern terminus of State Route 9/ Broadway to its western terminus at
Action/Project	Cottage Place—a total of about 1,500 feet. The roadway will have to be excavated and a new engineered concrete
Mitigation Action/Project Type	SIP
Goals Met	1, 2
Applies to existing	
structures/infrastructure,	Existing
future, or not applicable	
Benefits (losses avoided)	Recent Damages: \$150,000
Estimated Cost	\$10,250,000
Priority*	Medium
	Plan for Implementation
Responsible Organization	Village of Tarrytown, Michael Blau, Village Administrator
Local Planning Mechanism	Stormwater Management, Capital Improvement
Potential Funding Sources	Grant funding (HMGP applied), Village budget for local match
Timeline for Completion	Long-term DOF; Sandy HMGP application
	Reporting on Progress
Date of Status Report/	Date:
Report of Progress	Progress on Action/Project:

<sup>\*</sup> Refer to results of Prioritization (next page)

**Action Number:** 

LOI #1261

**Action Name:** 

Central Avenue Culvert Replacement

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	Protect the downtown business district of the Village
Cost-Effectiveness	1	
Technical	0	
Political	0	
Legal	0	
Fiscal	0	
Environmental	1	
Social	0	
Administrative	1	·
Multi-Hazard	1	Flood, Severe Storm, Transportation
Timeline	-1	This project will take longer than a year to complete
Agency Champion	0	
Other Community Objectives	0	
Total	5	
Priority (High/Med/Low)	Medium	

Name of Jurisdiction: Action Number: Action Name: Village of Tarrytown, Tarrytown

LOI #1274

Sunnyside Lane Stormwater Capacity Expansion- White Tail Road

Drainage

	Assessing the Risk				
Hazard(s) addressed:	Flood, Severe Storm, Severe Winter Storm				
Specific problem being mitigated:	The Whitetail Road Drainage Project complements a larger envisioned mitigation project at VT-3 in The Greater Greenburgh Planning Area DMA 2000 Hazard Mitigation Plan- "Work with the Village of Irvington to increase stormwater capacity				
	Evaluation of Potential Actions/Projects				
Actions/Projects Considered	Increase stormwater capacity at Sunnyside Lane and White Tail Road				
(name of project and reason	2. Do nothing – current problem continues				
for not selecting):	No other feasible actions/projects identified				
Ac	tion/Project Intended for Implementation				
Description of Selected Action/Project	The project complements a larger mitigation project that is listed on the Greater Greenburgh Planning Area DMA 2000 Hazard Mitigation Plan (June 2011, by Tetra Tech Hazard Mitigation Planners) as VT-3— "Work with the Village of Irvington to increase stor				
Mitigation Action/Project Type	SIP				
Goals Met	1, 2				
Applies to existing structures/infrastructure, future, or not applicable	Existing				
Benefits (losses avoided)	Recent Damages: \$30,000				
Estimated Cost	\$25,000				
Priority*	Medium				
	Plan for Implementation				
Responsible Organization	Village of Tarrytown, Michael Blau, Village Administrator				
Local Planning Mechanism	Stormwater Management, Capital Improvement				
Potential Funding Sources	Grant funding (HMGP applied), Village budget for local match				
Timeline for Completion	Long-term DOF; Sandy HMGP application				
	Reporting on Progress				
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:				

<sup>\*</sup> Refer to results of Prioritization (next page)

**Action Number:** 

LOI #1274

**Action Name:** 

Sunnyside Lane Stormwater Capacity Expansion- White Tail Road

Drainage

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	0	
Legal	0	
Fiscal	0	
Environmental	1	
Social	0	
Administrative	1	
Multi-Hazard	1	Flood, Severe Storm, Severe Winter Storm
Timeline	-1	This project will take longer than a year to complete
Agency Champion	0	
Other Community Objectives	0	
Total	5	
Priority (High/Med/Low)	Medium	

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Name of Jurisdiction: **Action Number:** 

Village of Tarrytown, Tarrytown

LOI #1265

Neperan Road Culvert Flooding Mitigation Project **Action Name:** 

	Assessing the Risk
Hazard(s) addressed:	Flood, Severe Storm, Transportation
Specific problem being mitigated:	Neperan Road is a major roadway that links the Village of Tarrytown downtown business district with the Tarrytown Lakes area and eastern parkways (Saw Mill Parkway, Cross Westchester Expressway 287 and NYS Thruway/ Tappan Zee Bridge). A
	Evaluation of Potential Actions/Projects
Actions/Projects Considered	Do nothing – current problem continues
(name of project and reason	2.
for not selecting):	3.
Ac	tion/Project Intended for Implementation
	The Greater Greenburgh Planning Area DMA 2000 Hazard Mitigation Plan
Description of Selected Action/Project	identified the project as VT-4 "Increase stormwater capacity along Neperan Road adjacent to Tarrytown Lakes (skate shack) to mitigate flooding. " The
Action/Froject	project will replace an 80-foot,
Mitigation Action/Project Type	SIP
Goals Met	1,2
Applies to existing structures/infrastructure,	Existing
future, or not applicable	
Benefits (losses avoided)	Recent Damages: \$35,000
Estimated Cost	\$150,000
Priority*	Medium
	Plan for Implementation
Responsible Organization	Village of Tarrytown, Michael Blau, Village Administrator
Local Planning Mechanism	Stormwater Management, Capital Improvement
Potential Funding Sources	Grant funding (HMGP applied), Village budget for local match
Timeline for Completion	Short DOF; Sandy HMGP application
	Reporting on Progress
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

<sup>\*</sup> Refer to results of Prioritization (next page)

**Action Number:** 

LOI #1265

**Action Name:** 

Neperan Road Culvert Flooding Mitigation Project

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	0	
Legal	0	
Fiscal	0	Village will seek grant funding and use local budget for match
Environmental	1	
Social	0	
Administrative	1	
Multi-Hazard	1	Flood, Severe Storm, Severe Winter Storm
Timeline	1	
Agency Champion	0	
Other Community Objectives	0	
Total	6	
Priority (High/Med/Low)	Medium	

Name of Jurisdiction:
Action Number:
Action Name:

Village of Tarrytown

Tarrytown-4 (former VT-5)

Implement drainage improvements along Benedict Avenue

	Assessing the Risk
Hazard(s) addressed:	Flooding, Severe Storm, Transportation
Specific problem being mitigated:	Flooding in the Loh park area of the Village
LANGE TO THE STATE OF THE STATE	Evaluation of Potential Actions/Projects
Actions/Projects Considered (name of project and reason for not selecting):	<ol> <li>Do nothing – current problem continues</li> <li>3.</li> </ol>
Ac	tion/Project Intended for Implementation
Description of Selected Action/Project	Continue to implement drainage improvements along Benedict Avenue to decrease flooding in the Loh park area. Raise and reconstruct two bridges that connect Loh Avenue and Leroy Avenue to eliminate the damming effect that takes place allowing water to flow freely. Project is out to bid, est. 25% complete.
Mitigation Action/Project Type	SIP
Goals Met	1,2
Applies to existing structures/infrastructure, future, or not applicable	Existing
Benefits (losses avoided)	High - Floods Westchester County Pump Station; Road closures along Route 9; Property damage to private residences along Route 9
Estimated Cost	High (> \$1.6 Million)
Priority*	Medium
	Plan for Implementation
Responsible Organization	Village Engineer and consultant
Local Planning Mechanism	Stormwater Management, Capital Improvement
Potential Funding Sources	Westchester County Grant (\$800,000) and Village
Timeline for Completion	In progress; out to bid.
	Reporting on Progress
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

<sup>\*</sup> Refer to results of Prioritization (next page)

Action Number: Tarrytown-4 (former VT-5)

Action Name: Implement drainage improvements along Benedict Avenue

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

Name of Jurisdiction: Action Number: Action Name: Village of Tarrytown

Tarrytown-8

NYSDOT Generator Program

	Assessing the Risk
Hazard(s) addressed:	Severe Storm; Severe Winter Storm
Specific problem being mitigated:	Loss of power to critical traffic lights in the Village.
	Evaluation of Potential Actions/Projects
Actions/Projects Considered (name of project and reason for not selecting):	<ol> <li>Do nothing – current problem continues</li> <li>3.</li> </ol>
A cl	ion/Project Intended for Implementation
Description of Selected Action/Project	Continue to work with the NYSDOT generator program to install portable generators with hook-ups at critical traffic light locations. Specifically identified in the Village are the following intersections:  • Route 9 and 119  • Route 9 and the entrance to the Thruway  • Route 119 and the Thruway  • Broadway and Main  • Broadway and Benedict
Mitigation Action/Project Type	SIP
Goals Met	1,5
Applies to existing structures/infrastructure, future, or not applicable	Existing
Benefits (losses avoided)	Reduced emergency protective services; potential life-safety
Estimated Cost	Medium
Priority*	Medium
	Plan for Implementation
Responsible Organization	NYSDOT (owner of traffic signals)
Local Planning Mechanism	Transportation
Potential Funding Sources	TBD
Timeline for Completion	Short Term
	Reporting on Progress
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

<sup>\*</sup> Refer to results of Prioritization (next page)

Action Number: Tarrytown-8

Action Name: NYSDOT Generator Program

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	0	
Legal	0	
Fiscal	0	
Environmental	0	
Social	1	
Administrative	0	
Multi-Hazard	1	Severe Storm; Severe Winter Storm
Timeline	1	
Agency Champion	0	
Other Community Objectives	0	
Total	6	
Priority (High/Med/Low)	Medium	

Name of Jurisdiction: Village of Tarrytown
Action Number: Tarrytown-9

Action Name: Retrofit Community Opportunity Center (COC) on Wildey Street

	Assessing the Risk
Hazard(s) addressed:	All
Specific problem being mitigated:	Loss of power to the community center that is also an ARC designated shelter
	Evaluation of Potential Actions/Projects
Actions/Projects Considered	Do nothing – current problem continues
(name of project and reason	2.
for not selecting):	3.
Ac	tion/Project Intended for Implementation
Description of Selected	Retrofit Community Opportunity Center (COC) on Wildey Street as and ARC-
Action/Project	designated shelter, which will need to include backup power.
Mitigation Action/Project Type	SIP
Goals Met	1, 2
Applies to existing structures/infrastructure,	Existing
future, or not applicable	
Benefits (losses avoided)	Improved sheltering capacity
Estimated Cost	High
Priority*	Medium
	Plan for Implementation
Responsible Organization	Westchester Community Opportunity Program
Local Planning Mechanism	Emergency Management
Potential Funding Sources	TBD - grants from other levels of government. Funding from not-for-profits
Timeline for Completion	Short Term
	Reporting on Progress
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

<sup>\*</sup> Refer to results of Prioritization (next page)

**Action Number:** 

Tarrytown-9

**Action Name:** 

Retrofit Community Opportunity Center (COC) on Wildey Street

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	0	
Legal	0	
Fiscal	0	
Environmental	0	
Social	1	Provide a shelter for those impacted by hazard events
Administrative	0	
Multi-Hazard	1	All hazards
Timeline	1	
Agency Champion	0	
Other Community Objectives	0	
Total	7	
Priority (High/Med/Low)	Medium	

Name of Jurisdiction: Village of Tarrytown
Action Number: Tarrytown-11

Action Name: Village Park and Ball field Lighting

	Assessing the Risk
Hazard(s) addressed:	Flood
Specific problem being mitigated:	Controllers of lighting system are damaged during flooding events
	Evaluation of Potential Actions/Projects
Actions/Projects Considered (name of project and reason for not selecting):	Do nothing — current problem continues 2. 3.
Ac	tion/Project Intended for Implementation
Description of Selected Action/Project	Village Park and Ball field Lighting – raise up controllers. Upgrade underground electrical system. Already elevated controllers as part of Sandy PA. NYS DHSES is looking at this area.
Mitigation Action/Project Type	SIP
Goals Met	1, 2
Applies to existing structures/infrastructure, future, or not applicable	Existing
Benefits (losses avoided)	Maintain reliability of the system
Estimated Cost	Medium
Priority*	Medium
	Plan for Implementation
Responsible Organization	Village
Local Planning Mechanism	Emergency Management
Potential Funding Sources	State and Federal Grants
Timeline for Completion	Short Term
	Reporting on Progress
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

<sup>\*</sup> Refer to results of Prioritization (next page)

**Action Number:** 

Tarrytown-11

**Action Name:** 

Village Park and Ball field Lighting

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	0	
Legal	0	
Fiscal	0	
Environmental	0	
Social	1	
Administrative	0	
Multi-Hazard	0	
Timeline	1	
Agency Champion	0	
Other Community Objectives	0	
Total	6	
Priority (High/Med/Low)	Medium	

9.42-35

 Name of Jurisdiction:
 Village of Tarrytown

 Action Number:
 Tarrytown-13

 Action Name:
 Loh Park Flood Mitigation Project

	Assessing the Risk
Hazard(s) addressed:	Flood, Severe Storm, Severe Winter Storm
Specific problem being	This area of the Village tends to flood due to the need of a new drainage
mitigated:	system
	Evaluation of Potential Actions/Projects
Actions/Projects Considered	Do nothing – current problem continues
(name of project and reason	2.
for not selecting):	3.
Ac	tion/Project Intended for Implementation
	Install new 1,100 linear feet of drainage piping and catch basins from pond at
A COLUMN TO THE	Prospect & Benedict Avenues to Loh Ave. & Benedict Ave. storm water sewer
	system. Phase 2: install new stormdrain systems, increase drainage channel
Description of Selected Action/Project	capacity west of Grove St., enclose about 100 linear feet of open channels at Loh Ave. and Leroy Ave. and construct new storm drain system. Phase 3:
Action/Froject	construct new pond with associated outlet structure in upper drainage area #3,
The Address of the Control of the Co	provide stream restoration, sediment removal and provide outfall protection on
	all six existing outfalls into main drainage channel.
Mitigation Action/Project Type	SIP
Goals Met	1, 2, 4
Applies to existing structures/infrastructure, future, or not applicable	Existing
Benefits (losses avoided)	High
Estimated Cost	High
Priority*	High
	Plan for Implementation
Responsible Organization	County Planning, Stormwater Management, Village
Local Planning Mechanism	Stormwater Management, Capital Improvement
Potential Funding Sources	Village of Tarrytown and BPL26
Timeline for Completion	Short Term
	Reporting on Progress
Date of Status Report/	Date:
Report of Progress	Progress on Action/Project:

<sup>\*</sup> Refer to results of Prioritization (next page)

Action Number: Tarrytown-13

Action Name: Loh Park Flood Mitigation Project

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