

**Appendix I: Bergen County Mitigation Action Progress Report**

2008 Hazard Mitigation Initiatives									
Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	2014	200-001	Increase the flow capacity of Allendale and Ho-Ho-Kus Brook	Borough of Allendale	Ongoing	The Borough needs to verify with NJDEP regarding the required permits and the need of site access agreements. A hydrologic and hydraulic study of the brooks and their drainage areas needs to be analyzed to determine the capacity of the existing system. Once study complete, an engineering solution needs to be designed and incorporated into bid documents.	Action was temporarily placed on hold due to resource/budget constraints, impacts from Hurricane Irene and Hurricane Sandy.	Budget constraints. Hurricane Sandy impacts and remediation efforts for same.	The project is still very relevant. The anticipated completion date should be revised. Schedule T/B/D

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2009	2013	202-002	Inspections of Bridges, Culverts & Retention Basins	ALPINE - Engineering, DPW	Ongoing	Ongoing inspections to ensure bridges, culverts and retention basins, as well as other stormwater control structures in Alpine, are fully operational and properly maintained.	Replacement of the Berkery Place culvert (July 2012) through municipal capital improvement funding to alleviate repetitive stormwater damage resulting in roadway closure and localized flooding.	"NO OUTLET" (Dead End) roadway requiring timely notification to affected residents, pre-staging of emergency assets, planning and design of alternate egress.	Action is still relevant and ongoing as an annual inspection program.
2009	2013	202-003	Back-Up Power for the Primary Shelter (Alpine Public School)	Alpine BOE, Alpine Building Department	Deferred	Provide primary shelter (Alpine Public School, 500 Hillside Avenue) with emergency electrical back-up power.	Action was DEFERRED due to large scale capital structural improvements planned to school building(s) and surrounding property.	Costs associated with the school building project were sourced through private funding (pledges). Revenue fell short of anticipated goals. Building permits have not been issued.	Action is still relevant contingent with ongoing BOE approval and source funding. Anticipated completion date should be revised to 2016.

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2008	2014	200-038	Evaluate/modify/adopt new: Various development regulations	BC Planning	Ongoing	New regs for floodplain development; hillside development; open space regs and protected lands; waterfront setback regs; stormwater management regs; stream dumping regs; and subdivision and development regs	BC Planning and Econ Dev in final stages of submitting new revised Site Plan Dev and Subdivision Dev Resolutions, which represent all of BC's Land Use Regs. Significant revisions to floodplain dev and stormwater mgt regs.		
2008	2014	200-047	Elevate/acquire hazard-prone structures (Voluntary)	BCOEM	Ongoing	Acquisition or elevation of hazard-prone structures	Structures in Westwood and new Milford have been purchased		
2008	2014	200-052	Educate public regarding potential retrofits for privately owned land	NJOEM	Ongoing via NJOEM	This strategy has not been implemented by BCOEM but exists at the state level.	N/A	The State of NJ has undertaken a public information campaign to address retrofits for flood-prone properties.	This action is not a County project and will be removed.
2008	2014	200-066	Develop volunteer staff to help with project assessment, development and execution of mitigation projects	BCOEM	Not completed	This strategy has not been implemented.	N/A	This strategy has proven difficult to implement due to logistics and the size of the County.	Action is still relevant and should be kept in the Plan.
2008	2014	NJMC-007	Identification of existing buildings and infrastructure located in ID'd hazard areas	Bergen County	Not completed	This mitigation project has not been completed due to financial constraints. Furthermore, this project is more appropriately classified as a Bergen County county-wide mitigation strategy, as opposed to a NJMC mitigation strategy.	N/A	As the NJMC District only encompasses a portion of 10 of the 70 towns in Bergen County, it is not financially feasible for the NJMC to undertake this effort without outside funding.	This action is still relevant and would be a worthwhile effort in mitigation planning. It will be re-classified as a Bergen County county-wide mitigation strategy.
2008	2014	NJMC-008	Identification of future buildings and infrastructure located in ID'd hazard areas	Bergen County	Not completed	This mitigation project has not been completed due to financial constraints. Furthermore, this project is more appropriately classified as a Bergen County county-wide mitigation strategy, as opposed to a NJMC mitigation strategy.	N/A	As the NJMC District only encompasses a portion of 10 of the 70 towns in Bergen County, it is not financially feasible for the NJMC to undertake this effort without outside funding.	This action is still relevant and would be a worthwhile effort in mitigation planning. It will be re-classified as a Bergen County county-wide mitigation strategy.
2008	2014	NJMC-009	Describe /quantify potential hazard impacts to buildings throughout Bergen County	Bergen County	Not completed	This mitigation project has not been completed due to financial constraints. Furthermore, this project is more appropriately classified as a Bergen County county-wide mitigation strategy, as opposed to a NJMC mitigation strategy.	N/A	As the NJMC District only encompasses a portion of 10 of the 70 towns in Bergen County, it is not financially feasible for the NJMC to undertake this effort without outside funding. If/when HAZUS is updated, this action may become feasible.	This action is still relevant and would be a worthwhile effort in mitigation planning. It will be re-classified as a Bergen County county-wide mitigation strategy.

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2013	2014	203-001	Improve All Stormwater Control.	Bergenfield Borough	On-going	Catch basins and storm sewers are repaired and/or improved as necessary in conjunction with the Borough's annual roadway improvement projects.	Catch basins and storm sewers have been repaired and/or improved as necessary as part of the Borough's annual road improvement projects.	Funding is not available for capital improvements of the entire storm sewer system.	Yes. The Borough continues to evaluate and repair or improve its storm sewers annually.
2013	2014	203-009	Metzler's Brook Drainage Improvements	Bergenfield Borough	On-going	An Engineering/Hydrologic Study of Metzler's Brook has been completed. Flooding is a regional problem. Recommendations to reduce flooding include construction of an expansive detention system. The anticipated construction cost of the recommended detention system is too great for the Borough to proceed. Construction is on-hold until funding can be secured.	The Borough Engineer completed a hydrologic study of Metzler's Brook and provided recommendations and construction cost estimate.	Funding for construction has to be secured for the project.	Yes; however, the project cannot proceed until funding is secured for the project.
2009	2014	203-013	Veterans Memorial Park Drainage Improvements	Bergenfield Borough	Ongoing	Three (3) underground retention chambers were installed at Veterans Memorial Park, but the drainage system has not been connected to the Borough's storm sewer system to date. Flooding persists on Wildrose Avenue.	Three (3) underground retention chambers have been installed at Veterans Memorial Park, but the drainage system has not been connected to the Borough's storm sewer to date.	Funding for construction has to be secured for the project.	Yes. The project will proceed after funding is secured.
2009	2014	203-014	New Bridge Road and Windsor Road Storm Sewer Improvements	Bergenfield Borough	Ongoing	Hydrologic and hydraulic analysis of the drainage area and storm sewer has been performed.		Funding is not available to proceed with the project.	Yes, the project can proceed once funding is secured for the project.

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2008	7/6/1905	204-001	Elm Avenue Culvert Replacement /Boswell Eng Proj BC-078	Borough of Bogota/Bergen County Prj#C4-19	Ongoing/in progress	As of 8/5/14, Bogota is doing outreach to affected homeowners and area businesses. It is expected that the project will go out to bid in the next few months (Fall 2014).	preparation for construction and road closures, moving of utilities, pre construction meeting with Borough of Bogota Police and Fire Departments.	Appropriation of money for projects.	Project will be going out to bid in Fall 2014.
2008	2014	204-002	Olsen Park Ditch	Borough of Bogota/Bergen County	Ongoing/in progress	Discussion with Bergen County Engineers Office as to future inspection of roadway and embankment request	Request physical site inspection of ditch & embankment	Budgetary constraints	Will advise status as time goes on

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2010		205-003	Acquisition of property for public parking use	Borough of Carlstadt	Withdrawn	Property next to the Borough Hall, 507 Jefferson was purchased to be used for public parking, however environmental issues prevented the Borough to move forward on its plans and was instead put back into the market and sold less than a year later.	The final goal was not accomplished	Environmental contamination	Yes, public parking remains a concern.
2010		205-002	Emergency warning system	Carlstadt OEM	Deferred	Lack of funds has prevented the purchase and installation of the Emergency Warning System.	The project is still pending	Lack of funding remains the only obstacle to accomplish this goal.	Yes, the action is still relevant to Carlstadt's Hazard Mitigation Plan. A date of action will be reviewed.

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2008	2014	206-003	Provide Backup Power for Shelters	Cliffside Park OEM	Ongoing		Planning and cost evaluation for project.	Funding.	



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2010	2013	207-001	Backup Power	Borough of Closter/Closter Board of Ed	Ongoing	Obtain funds to install back up generators at both public schools and small generators for back up power at intersections controlled by traffic lights. .	NO	Funding	Yes. Still working on funding source for school generators. Working with Bergen County is find solution for both county owned traffic lights and town owned lights. Working on other solutions then generators.
2010	2013	207-002/207-003	East Side flash flooding, Piermont & Homans	Borough of Closter	Ongoing	Obtain funds to widen and stream cleaning	NO	Funding	Yes. funding needed for both engineering work and actual stream work.
2010	2013	207-004	Equipment Removal from Borough Hall basement	Borough of Closter	Ongoing	Removal of critical infrastructure for public safety from basement of Borough Hall	NO	Funding	Yes. no know completion date.
2010	2013	207-006	Emergency Generator for school	Closter OEM/Closter Board of Education	Deferred	Acquire emergency generator for school building, to be used as shelter	Nothing	Lack of funding	Deferred at this time due to updating of shelter plan and move to a regional large shelter outside of the jurisdiction
2010	2013	207-007 & 008	Waterway enlarging and cleaning	Borough of Closter	Ongoing	Waterway enlarging and cleaning to protect from flash flooding.	None	Funding, DEP	Project still relevant

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2008	2014	208-001	Dredging of Tenakill Brook	Cresskill DPW	Not completed	Removal of silt from brook to address flooding	N/A		Action is still relevant. However, a regional approach is needed to achieve success. Coordination with surrounding municipalities would be required to make it worthwhile.

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2008	2014	209-001	Secondary railroad track crossing for emergency vehicle access	Demarest OEM	Not completed	This project has not been completed due to lack of funding	N/A	Lack of funding source	Yes, the action is still relevant and should remain as part of Demarest's mitigation strategy.
2008	2014	209-002	Generator for EOC at Wakelee Drive	Demarest Police Department	Not completed	Funding has not been received for this project	N/A	Lack of funding	This action is still relevant and should remain in Demarest's mitigation strategy

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2008	2008	210-005	Borough of Dumont Flood Management Plan	T&M Associates	Proposed but not initiated.	Proposed work was to be performed to eliminate flooding. This was to be phase #3 of the proposed three phase flood management plan. Phase #3 was never initiated by the boro.	There was no accomplished action related to this project as the project was never initiated.	Funding for this project was the obstacle we faced. This was to be the 3rd phase of a 3 phase project. The borough was and continues to look for funding through grants. As of this date, phase three is still proposed but not approved for initiation.	The actions are still very relevant. The actions should continue to be examined and funding sources should continue to be researched and acted upon.
2008	2008	210-010	Borough of Dumont Flood Management Plan	T&M Associates	Completed	Proposed work was to include the cleaning of the brook and sewer located in front of #30 Davies Avenue. These actions were performed until such time as phase 2 of the flood management plan was initiated.	Cleaning of sewers and the brook at this location worked to eliminate some flooding which took place under moderate rainfall. Under heavy rain this area still flooded.	Cleaning of sewers and brook only cleared the way for water to flow under moderate rainfall conditions. Under extreme conditions, the sewers and brook were unable to handle the water. Phase 2 of project allowed runoff system to work.	Actions were completed and eventually replaced by a much more thorough stormwater plan which included widening of the brooks and installation of new sewer catch basins.
2008	2008	210-004	Borough of Dumont: Flood management plan	T&M Associates	Completed	Proposed work to be performed was to clean debris and leaves from sewers and storm drains at least 3 times per year.	The removal of debris was performed by our department of public works employees. This worked to increase runoff and the flow of water during storms.	Keeping DPW employees on a regular schedule was important. This project was to be conducted until such time as a more permanent flood water management plan could be put in place.	actions were performed and completed and then were replaced by a flood management plan initiated in 2012 under the Dumont Flood Control Project: NJEIT Phase 2 Improvement.

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2008	2014	212-001	Emergency Power at 107 Carlton Avenue, ERFD Station No. 2	East Rutherford OEM	On-Going	Installation of diesel generator at ERFD Fire Station No. 2	Project is part of a three-phase generator installation project. The design of this location is set to begin in June of 2014.	Project is part of a phased program. Funding allocation needed to be established prior to beginning the overall program.	Action is still relevant and a schedule has been established.
2008	2014	212-002	Emergency Power at 312 Grove Street, ERFD/EMS Station No. 1	East Rutherford OEM	Deferred	Installation of diesel generator at ERFD/EMS Station No. 1	Project was part of a three-phase generator installation project. The project was put on hold and the funding was reallocated to a more critical facility - East Rutherford Sewage Pump Station.	Project is part of a phased program. The project was placed on hold and will be part of a second generator program under the 2014 HazMit Plan.	Action is still relevant and will be rolled into the 2014 HazMit Plan.
2008	2014	212-003	Emergency Power at 37 Vreeland Avenue - Shelter Location	East Rutherford OEM	Ongoing	Installation of diesel generator at Senior/Civic Center - Shelter Location	Project is part of a three-phase generator installation project. Project is in design phase and is scheduled to have a bid awarded no later than May, work to begin in June, and project completed by August 2014.	Project is part of a phased program. Phase II of III.	Action is still relevant and scheduled to be completed by August 2014.

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2008	2014	213-004	Generator: update	Edgewater Board of Education	Nearly Complete	School has been replaced with new facility. Generator being delivered for installation.	See above	N/A	Remove from plan
2008	2014	213-003	Debris cleanup from Palisades	Edgewater DPW	Not Complete		N/A	Funding	Culvert is maintained but requires extensive cleaning.
2008	2014	213-002	Generator for backup shelter 251 Undercliff Ave.	Edgewater Board of Education	Ongoing	Board of Ed. requesting and awaiting Borough to add funds.	N/A	lack of funding	Still relevant.

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2008	2014	211-001	Complete cleanout of Fleischers Brook throughout the community.	Borough of Elmwood Park	Ongoing	The Borough is utilizing a Community Development Block Grant for repairs to the Kipp Avenue culvert over the Fleischers Brook, and the work includes some stream cleaning. This work is being completed at the Elmwood Park - Garfield municipal boundary. Construction is intended to start in late spring of 2014.	The Borough obtained a Community Development Block Grant for the repair of a culvert over Fleischers Brook, obtained the necessary NJDEP permits, and designed, advertised and awarded a contract to complete the work.	The Borough has requested supplemental funding from the County since the bid prices exceeded the available grant money and anticipated budget.	The action is not fully completed, as the proposed culvert repair is localized to a small area. The project remains relevant. The anticipated completion date should be revised.

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2011	2014	214-001	Additional drainage projects in Emerson	Borough of Emerson	Deferred due to funding	Clear retention pond and clear drainage entering and exiting pond to eliminate flooding to residential property and county roadway.	Nothing accomplished due to lack of funds.		This action is still relevant to the community.



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2008	2014	216-001	Emergency Generators	Borough of Englewood Cliffs	Ongoing	Location: 143 Charlotte Place Englewood CliffsEmergency Generator backup for School & Shelter	None		
2008	2014	216-002	Emergency Generators	Borough of Englewood Cliffs	Ongoing	Location 700 Floyd Street - North Cliffs SchoolEmergency Generator backup for School 7 Shelter	none		
2008	2014	216-003	Emergency Generator for Pump Station: Lyncrest Road	Borough of Englewood Cliffs	Ongoing	Location: Lyncrest Road - Pump StationEmergency backup service for sanitary pump station.	None		
2008	2014	216-004	Emergency Generator for Pump Station - Jane drive	Borough of Englewood Cliffs	Ongoing	Location: Jane Drive - Pump StationEmergency backup service for sanitary pump station.	none		
2008	2014	216-005	Emergency Generator for Pump Station - Roberts Road	Borough of Englewood Cliffs	Ongoing	Location: Roberts Road - Pump StationEmergency backup service for sanitary pump station.	none		
2008	2014	216-006	Storm drainage - Palisade Avenue	Borough of Englewood Cliffs	Ongoing	Location: Palisade Avenue Strom Drainage - expansion	none		

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2008	2013	215-003	Emergency stop: Affix each electric traffic controller intersection with fold down sign Est. \$6,500	City of Englewood	Ongoing	Over the past several years, stop signs were affixed to many of the traffic lights throughout the City. Since the implementation of the program, additional traffic control devices were installed and fold down stop signs have not been installed at these locations. Additionally, numerous stop signs that have been damaged over the past years need repair, and/or replacement.	During the aforementioned reporting period, stop signs were installed at numerous traffic light controlled intersections within the City of Englewood	Funding was the only obstacle that delayed the implementation of this project. Funding continues to be an issue for the purchase of new stop signs, and replacement parts for previously installed folding stop signs	This action is still relevant as additional traffic lights have been installed, and previously installed stop signs need repair and/or replacement.
2008	2013	215-004	Improve storm water drain (Severe storm flooding) at Forest Ave & Dean St. Florence Est. \$25,000	City of Englewood	Ongoing	The area surrounding the E Forest Ave. and S Dean St. intersection is regularly impacted by flooding from severe storms. To rectify this issue, improvements need to be made to the drainage, and connected sewer systems in the area.	During this reporting period, there were no actions completed associated with this project	Funding was the only obstacle that delayed the implementation of this project.	The aforementioned area continues to be impacted during flooding related instances, and subsequently, as no action has been taken, this action is still relevant.

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2008	2014	217-007	Passaic Valley Water Pump Station	Borough of Fair Lawn	Ongoing	Install emergency generator	Awaiting delivery as of 3/4/2014	delivery	N/A
2008	2014	217-002	Flood Gauges	Borough of Fair Lawn	Ongoing	Flood gauges for Passaic River with connectivity to the Borough website.	No actions taken	Waiting for funding from Hurricane Irene mitigation	N/A
2008	2014	217-004	Install Onyx	Borough of Fair Lawn	Ongoing	Install Onyx air operated pinch valves	No actions taken	Lack of funding	Date to be revised
2008	2014	217-005	Replace Close Pump Motor	Borough of Fair Lawn	Ongoing	Replace one close couples Fairbanks Morse Pump Motor with a new Fairbanks Morse Pump.	No actions taken	Lack of funding	Completion date to be revised
2008	2014	217-008	Plaza Road Sewer Pump Station	Borough of Fair Lawn	Ongoing	Install 3rd submersible pump and piping	No actions taken	Lack of funding	Completion date to be revised
2008	2014	217-009	South Siphon Sewer Pump Station	Borough of Fair Lawn	Ongoing	Install bypass pump	No actions taken	Lack of funding	Completion date to be revised
2008	2014	217-010	Saddle River Road Pump Station	Borough of Fair Lawn	Ongoing	Install bypass pump	No actions taken	Lack of funding	Completion date to be revised

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2013	2014	201-001	Flood Study - Bellman Creek	Fairview DPW	Ongoing	Flooding in the Bellman Creek area caused impassable roadway and flooding to the Borough's critical facility, Department of Public Works Yard.	Relocation of the main DPW facility to a non-flood area completed, ongoing dredging with approval from NJDEP. Dredging in conjunction with the BC Mosquito Control and the Twp of North Bergen. Weekly clean out of storm drain conducted by the Fairview DPW.	Removal of dirt and contamination testing.	Project is ongoing, should be complete end of 2014
2013	2014	201-002	Early Warning System	Fairview OEM	Deferred	Study and pricing of an early warning audible alert system through out the Borough	Project deferred to a later date. Funding not available. Also after further analysis a different approach was taken. An alternate system to mobile devices via SMS or voice call is believed to have more of an impact. System is currently in place and expanding the contact list daily.	Funding and confusing over an audible alert system's alert sounds meaning.	

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2008	2014	219-001	Additional backup snow removal equipment	Fort Lee DPW	Ongoing	Currently working with our equipment and looking to upgrade to make removal of snow more efficient.	Current equipment was serviced and new equipment was looked into.	Ongoing snowstorm delayed the acquisition of new equipment.	This is ongoing and anticipated completion date will be within next 2 years
2008	2014	219-002&005	Backup generators for traffic lights, study conversion of power source	Fort Lee DPW and Police Department	Ongoing	Traffic light conversion to allow generator hookups, as well as additional generator.	A few of our traffic signals at major intersections have been fitted to accommodate generator hookup and operate during a power outage.	Not enough generators to equip all lights and conversion is costly.	Action is still relevant.
2008	2014	219-004	Establish CERT Team at borough high rises	Fort Lee OEM	Ongoing	Meet with high rise buildings and set up CERT teams in buildings.	Have met with some buildings to start training process.	Time and personnel to do all of the training. Also lack of volunteers from buildings.	Action is still relevant and hope to have couple done by the end of 2015.
2008	2014	219-006	Inspect all city owned storm sewers	Fort Lee DPW	Ongoing	DPW to inspect all city owned storm sewers and remove debris	Major (large) sewers were cleared and are operating at full capacity.	Delays were weather related.	Action is still relevant and crews are working as this report is being filed. Anticipate completion in 1 year.

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2008	2014	220-003	Dam Warning/Monitoring System	Franklin Lakes OEM	Deferred due to lack of funds	Franklin Lakes maintains a class 1 dam. During Sandy water levels reached very high levels. It is proposed to install water level monitoring, intrusion altering and surveillance cameras. There is exposure to vandalism at the dam facility. Towns south of the	Nothing	No funding available	The need is still relevant

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2008	2014	221-002	folding stop signs at signalized intersections	Garfield OEM	Ongoing	The goal was to mount folding stop signs at all signalized intersections to be available to open in a timely manner during power outages effecting traffic signals	All intersections and an inventory of signs needed were identified along with pole mounting locations.	this project has not started.	Yes. We are in the process of receiving quotes on the purchase of these foldable signs.
2008	2014	221-003	Snow emergency routes	Garfield OEM	Ongoing	The goal was to establish emergency no parking routes for snow emergencies. These routes would be decided by primary and secondary routes throughout the city.	A tentative list of primary and secondary roads have been identified. We are in the process of doing surveys at night to determine the most effective roads to be chosen.	Due to manpower issues, we have not been able to complete this project at this time. Our goal is to have a complete presentation package complete	Yes. We are in the process of completing a presentation with a budget for the Mayor & Council.

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2010	2011	222-002	Rerouting water drainage from area of train overpass to mitigate 3-5 ft flooding	Borough of Glen Rock	Withdrawn	Intended to consult with Engineer to find appropriate way to reroute water during heavy rain where dip is. Roadway cannot handle drainage	Nothing	The roadway involved is Maple Ave south of Rock Rd and under the Bergenline overpass. This is a County road and therefore not a Borough repair	The action is no longer relevant on a Borough level
2013	2014	222-003	Installing back up communication and paging equipment to mitigate delay in response when current system fails	Glen Rock Borough	Ongoing	To create duplicate communications and paging was upgraded with monetary agreement with Ridgewood to include multiple redundancies, new equipment, upgrade to FD, EMS, PD and OEM, fiber lines and upgrades to EOC	Project is due to be completed next month	Grant monies were applied for but project went on with capital funds from both towns. Slight delay while both towns obtained change in agreement from their councils	Still relevant with new completion date of April 2014
2011	2012	222-004	Educate Public About All Hazards, Personal Preparedness, Sheltering in Place and Evacuation by means of Open Events and Town Hall Meetings	Glen Rock OEM	Deferred	Want to hold town hall meetings and promote at 3 open events to teach general public all forms of mitigation	Some pamphlet distribution at 4 day fair	Funding for appropriate materials to teach and inform public properly	Action still relevant. Would like to complete fully then periodically after initial completion once funding becomes available. New completion date, December 2014
2009	2010	222-005	Provide Emergency Information Devices to Each Home in Glen Rock for Instructions During Emergencies	Glen Rock OEM	Withdrawn	After further research, other technology was available to reach people even in a power outage	Nothing	The availability of a better system	Action is not still relevant



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Mar-14	Mar-15	223-013	Natural Hazard Mitigation Planning for residents through printed guides.	City of Hackensack	Ongoing	Continuing to obtain funding source's for educational guides for residents on hazard mitigation planning.	City website has information available. Educational guides have been purchased for distribution.	Residents not familiar with the city's website. Not enough funding for printed materials or for full distribution.	This will be an ongoing project.
Mar-14	Mar-15	223-004&005	Debris removal from city owned storm sewers	City of Hackensack	Ongoing	Continuing to obtain funding source's to maintain pump stations in order to prevent flooding in low lying areas.	Various storm sewers have been cleared of debris.	Equipment malfunctions. Manpower shortages	This will be an ongoing project.

2008 Hazard Mitigation Initiatives									
Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2010	2013	224-001	Emergency Generator for Shelter Harrington Park Public School	Harrington Park Building Department	Deferred	The Borough of Harrington Park did not receive funding for this project. Therefore, this project has been re-submitted for a grant.	This project did not receive the necessary funding required to provide emergency power to the Harrington Park Public School which is the municipality's shelter for emergency purposes. This project has been initiated to date.	Grant funding for this project was not obtained. Therefore this project has been deferred until such funding has been obtained.	The action is absolutely still relevant and remains un-revised. Upon receipt of grant funding, this project can be completed within a one year time period.

2008 Hazard Mitigation Initiatives									
Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
8/1/2008	3/1/2014	226-006	Emergency Response Center at Municipal Center on Haworth Avenue	Borough of Haworth	Ongoing	The Borough still seeks to create this emergency response center.	No progress.	The Borough has not been able to dedicate the required funds.	The action is relevant. Anticipated cost should be revised to \$15,000.
8/1/2008	3/1/2014	226-005	Emergency Response Center at DPW Garage on Park Street	Borough of Haworth	Ongoing	The Borough still seeks to create this emergency response center.	No progress.	The Borough has not been able to dedicate the required funds.	The action is relevant. Anticipated cost should be revised to \$15,000.
8/1/2008	3/1/2014	226-004	Clear Debris from Stream at Municipal Center	Borough of Haworth	Ongoing	Debris build-up is an ongoing within this the stream (FEMA designation - Kips Brook). A permit from the NJDEP is required for all stream cleaning and de-snagging activities.	No progress. The Borough has not been able to dedicate the required funds.	The cost of NJDEP permitting and project implementation are the obstacles.	The action is relevant. The scope of the project should also be expanded to include the other two stream within the Borough - Charlie' Creek and Haworth Brook. Anticipated cost revised to \$75,000
8/1/2008	3/1/2014	226-002	Replace Pipe Culvert at Prospect Avenue Stream Crossing	Borough of Haworth	Ongoing	The Borough may seek to apply for funding under the Pre-Disaster Mitigation program.	No progress on action.	Funding was not available for the action.	The action is still relevant. Estimated cost should be revised to \$45,000.
8/1/2008	3/1/2014	226-001	Replace Pipe Culvert at Pleasant Avenue Stream Crossing	Borough of Haworth	Ongoing	The Borough may seek to apply for funding under the Pre-Disaster Mitigation program.	No progress on action.	Funding was not available for the action.	The action is still relevant. Estimated cost should be revised to \$45,000.

2008 Hazard Mitigation Initiatives									
Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
8/1/2008	3/1/2014	227-004	Keep debris clear from brooks to reduce backup	Borough of Hillsdale	Ongoing	The Borough last completed a complete cleaning and desnagging in 2005. Stream snags are a continuous problem.	No progress	Stream cleaning projects require costly permitting from the NJDEP. The Borough did not have the available funding to complete the project	Action is still relevant. All waterways in the Borough should be considered for this project.
8/1/2008	3/1/2014	227-003	Enlarge 3 bridges and culverts	Borough of Hillsdale	Ongoing	The Borough seeks to enlarge several bridges and culverts to reduce localized flooding and road closures.	No progress	The enlargement of bridges and/or culverts requires permitting from the NJDEP that is extensive and expensive. The Borough did not have the available funding to complete the projects.	Action is still relevant.
8/1/2008	3/1/2014	227-001	Acquire and clear destroyed structures.	Borough of Hillsdale	Ongoing	The Borough may seek to apply for funding under future FEMA and NJ Blue Acres programs.	Several homes were purchased, the structures were demolished and the properties are now maintained as open space by the Borough	The is a voluntary program. Funding was not available for the action for properties. Some property owners are unwilling to sell as they feel the buyout value of their home is too low.	The action is still relevant.

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Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	2014	229-006	Open drainage ditch between Leonia HS athletic field and railroad	Leonias BOE	Not completed	Open drainage ditch between Leonia High School Athletic field and railroad: 100 Christie Heights, Leonia, NJ 07605. Ditch serves all of Leonia North of Christie Heights	N/A	Funding	Yes, project is still relevant as field is still being flooded due to overflow of the ditch from Overpeck Creek

2008 Hazard Mitigation Initiatives									
Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	2014	230-001	Pump Stations on Hackensack River	Borough of Little Ferry	Ongoing	No new pump stations have been installed since 2008. The general term "pump stations" without locations renders this difficult to assess the action. Simply, nothing has been built.	Nothing.	Funding, land to build stations, rules & regulations	Yes. More specific pump station information will be presented

2008 Hazard Mitigation Initiatives									
Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	2014	231-002	Maintenance and inspection of storm water catch basins and brooks.	Lodi OEM	Ongoing	Maintenance and inspection of all storm water catch basins and brooks. Remove debris as required. Throughout the Borough of Lodi.	Planning process is complete.	Lack of Municipal funding.	Yes. We need to complete this project to limit the instances of flooding.
2008	2014	231-004	Slope stabilization and retaining wall project	Lodi OEM	Ongoing	Slope stabilization and retaining walls will be installed on Harrison and Farnham Avenue slopes to prevent further erosion and mud slides.	No progress.	Determining a funding source.	This project needs to be completed to stop the erosion and mud slides that occur during heavy rain events.
2008	2014	231-003	Flood water current diverters	Lodi OEM	Ongoing	Install water diverters at Memorial Park.	Research has been done on the type of diverter to use	Funding not available.	Yes. The diverters will stop the flood waters from lifting up the artificial surface of the playing field.
2008	2014	231-001	Barricades for flood prone roadways	Lodi OEM	Partially complete	Barricades purchased. Storage facilities yet to be done.	Barricades purchased.	Lack of funding.	Hope to get funding to complete.

2008 Hazard Mitigation Initiatives									
Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	2014	232-002	Build up of embankment of Passaic River	Lyndhurst DPW/Contractual Engineer/ Contractor	Ongoing	The Township of Lyndhurst is still actively pursuing any avenue of funding and approval to build up the river banks along the Passaic River. Additionally, the Township is exploring ideas of installing a berm or make shift levy to prevent the river from cresting its banks and into the north west portion of the jurisdiction.	A Letter of Intent (LOI) was submitted during the HMGP application process in 2013.	The main obstacle is having an all hands on board with obtaining the approval of the New Jersey DEP as well as the County of Bergen due to the parks	This action should be considered relevant, and if completed would be the key component of eliminating flooding in areas of repetitive loss properties.
2008	2014	232-004	Change in slope from Route 3 east on to Rutherford Ave near Riverside Ave	Lyndhurst DPW/Contractual Engineer/ Contractor	Withdrawn	The off ramp from Route 3 east had been recently changed and reconstructed as a result of the ongoing Route 3 project being completed by the NJ State DOT.	This off ramp was completely changed and engineered as a result of the Route 3 project.	The ramp is located in the Borough of Rutherford which borders the Twp. of Lyndhurst. This project is under the control of NJDOT.	N/A
2008	2014	232-005	Clean out storm sewer system pipes(clay in area of Riverside & Forest Aves leading to Passaic River)	Lyndhurst DPW/Contractual Engineer/ Contractor	Ongoing	The sewer lines along this portion of Riverside Avenue have been replaced during infrastructure projects during this period. The sewer lines are continuously monitored and evaluated by the township D.P.W.	New sewer pipes in this area have been installed. Backflow preventers have been installed on outlets to the Passaic River	As always, funding is a key component. The township has had to field a majority of the funding to complete the work.	Addressing drainage outlets is always a key component of mitigating urban flooding. The project should be revised to an inspection at least yearly prior to peak flood season for potential blockages.



2008 Hazard Mitigation Initiatives									
Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
6/1/2008	12/1/2013	233-007	Ramapo River removal of debris	Township of Mahwah	Ongoing	The Township continues with its annual program for removal of natural and man made debris and shoals in the Ramapo River.	The Township, with its own forces and with private contractors, has performed annual clearance work.	The natural and man made debris occurs every year. Sections cleared are limited due to funding.	The action is still relevant and ongoing. Work is performed annually.
6/1/2008	12/1/2013	233-009	Acquisition of repetitive loss properties on Catherine Ave and Alexandra Court	Township of Mahwah	Ongoing	The Township has identified 24 flood prone properties for acquisition and/or elevation. The Township has applied for funding but has not yet obtained funding.	Funding applications were submitted to FEMA and NJDEP for funding.	Funding applications were denied. Local funding is not available.	Project is still relevant. The Township is seeking alternate sources of funding.
6/1/2008	12/1/2013	233-004	Winters Pond Dam repair and upgrade	Township of Mahwah	Ongoing	Replacement of Winters Pond Dam. In the Masonicus Brook at Winters Pond.	The Township has completed the dredging of Winters Pond upstream and performed repairs on the dam.	Environmental permits must be obtained. Additional funding is required.	The action is still relevant. Major repair or replacement is still required.
6/1/2008	12/1/2013	233-005	Silver Creek Dam upgrade	Township of Mahwah	Ongoing	The dam at Silver Creek at Airmont/Airmount road should be renovated.	Minor repairs and maintenance was performed.	Environmental permits and funding	Action is still relevant. Completion date should be within four years.

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Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	2014	234-001	Emergency Power for Department of Public Works Facility	Maywood OEM	Ongoing	The DPW facility houses all of their vehicles, the salt shed for Saddle Brook and Maywood, and the borough mechanic. Of utmost importance is the need to provide power to effect repairs to vehicles during long duration storms where vehicles on the road require constant attention. Also, for shift work during these emergencies life safety systems become in operable with loss of power, negating the use of the building for sleeping quarters for personnel.	Generator size that would be needed was identified.	Lack of funding	Action is still relevant. Anticipated completion date is dependent on funding.

2008 Hazard Mitigation Initiatives									
Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2010	2014	235-001	Clearing, widening, rebuilding stream wall through Ridgewood Water Control Center in MP	Ridgewood Water & Borough of Midland Park	Deferred	The OEM has been in contact with Ridgewood Water in regards to the issue of flooding due to the stream that runs through there property and contains a aquifer & well below that supplies drinking water to several municipalities that the water company serves. They state that the stream is clear of obstructions that may impeded the flow of water in a storm.	Ridgewood water is aware of the importance of maintaining a clear stream bed to eliminate or minimize the chance of future flooding	Long delays between correspondence.	yes this would be a on going project

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Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	2014	236-001	Pascack Brook - Gabion Walls	Borough of Montvale	Withdrawn	** PLEASE REMOVE FROM PLAN ** Initial project was to replace or reinforce gabion walls along private property to protect borough owned sanitary sewer lines. Project is being withdrawn. Plans in place to abandon / re-route sewer lines, eliminating threat of storm erosion.	No - project never initiated.		Borough wishes to remove project from the Mitigation Plan at this time.
2008	2014	236-006	Replacement of gabion wall system / perm. floodwall install	Borough of Montvale	Withdrawn	** PLEASE REMOVE FROM PLAN ** Initial project was to replace or reinforce gabion walls along private property to protect borough owned sanitary sewer lines. Project is being withdrawn. Plans in place to abandon / re-route sewer lines, eliminating threat of storm erosion.	Project never initiated. Hurricane Irene caused damage resulting in pipe exposure prompting alternative project idea of re-routing sewer line.		** PLEASE REMOVE FROM PLAN ** Borough does not wish to continue with this project at this time.

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Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	2014	238-002	Inspect and clean, as necessary, storm drainage system flowing into the river near Roosevelt Ave. and New Bridge Rd., New Milford	Borough of New Milford	Ongoing	Inspect and clean, as necessary, storm drainage system flowing into the river near Roosevelt Ave. and New Bridge Rd., New Milford	Debris removed from storm drains on a regular basis and as needed before major rainfalls.	N/A	N/A
2008	2014	238-043	Feeder brooks to be cleaned on a regular basis	Borough of New Milford	Ongoing	Feeder brooks to be cleaned on a regular basis	Feeder brooks regularly inspected	N/A	N/A
2011	2014	238-035	Bank stabilization need to be implemented that are harmonious and coexist with the river	Borough of New Milford	Ongoing	Bank stabilization need to be implemented that are harmonious and coexist with the river		N/A	Completion date should be revised as the effort is continual.

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Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	3/1/2014	239-002	Riverine & Stormwater Flooding - Inspection of Catch Basins and Storm	North Arlington DPW	Deferred (due to lack of funding)	The Borough-wide maintenance plan to install all catch basins and storm sewers and remove debris that may restrict flow is currently deferred due to lack of funding.	No update to report.	Current economic issues have restricted funding abilities.	Yes
2008	3/1/2014	239-003	Loss of Utilities - Upgrade to Generator at 214 Ridge Road	North Arlington DPW	Deferred (due to lack of funding)	The upgrade to the Police Emergency Management Generator at 214 Ridge Road to ensure operation during power failure is currently deferred due to lack of funding.	No update to report.	Current economic issues have restricted funding abilities.	Yes
2008	3/1/2014	239-004	Hazards - Installation of an Audio Warning System	North Arlington DPW	Ongoing	The Borough had planned to install a Borough-wide audio warning system. The Borough is currently using Nixle to see if this technology serves purpose.	The Borough is currently using Nixle to see if this technology serves purpose.	Current economic issues have restricted funding abilities.	Yes
2008	3/1/2014	239-005	Landslides & Erosions - River Bank Stabilization	North Arlington DPW	Deferred (Due to lack of funding)	River bank stabilization along the length of the river including planting trees, shrubs, and other ecological means that co-exist with the river is currently deferred due to the lack of funding.	No update to report.	Current economic issues have restricted funding abilities.	Yes
2008	3/1/2014	239-006	Riverine & Stormwater Flooding - Upgrades to Pump Station at	North Arlington DPW	Deferred (Due to lack of funding)	The upgrades to the pumping station to remove rain water that floods homes on Geraldine Road is currently deferred due to the lack of funding.	No update to report.	Current economic issues have restricted funding abilities.	Yes
2008	3/1/2014	239-007	Loss of Utilities - Installation of an Emergency Generator at DPW Building	North Arlington DPW	Ongoing	The Borough had planned to install an emergency generator at the DPW Building (located at 1 Disposal Road). The Borough has now purchased a portable generator to power fuel pumps and limited office lighting until more funding becomes available.	The Borough purchased a portable generator to power fuel pumps and limited office lighting until more funding becomes available.	Current economic issues have restricted funding abilities.	Yes

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Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	2014	NJMC-002	Restoration and Upgrade of West Riser Tide Gates	NJMC	Ongoing-should be completed by July 2014	Partial replacement of obsolete tide gates.	See above	Project was delayed due to the Superfund cleanup of the Ventron/Velsicol site. In addition, the NJMC and Bergen County had to reach an agreement regarding maintenance of the tide gate. Bergen County will handle maintenance.	Still relevant
2008	2014	NJMC-003	Restoration and Upgrade of the Peach Island Creek Tide Gates	NJDEP	Not complete	This tide gate is on privately owned land	N/A	The NJMC does not have jurisdiction as the tide gate is on privately owned land. Funding source is unknown.	Still relevant

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Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	7/6/1905	242-001	Create more efficient means of controlling water level in Crystal lake	OAKLAND	Not complete/Deferred	Create more efficient means of controlling water level in Crystal lake	Project not initiated	Priorities re: mitigation were shifted	Project no longer relevant



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Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	2014	243-001	Stream Clearance	Old Tappan OEM	Ongoing	Culvert type bridge should be replaced with a higher bridge to prevent the blockage of the existing stream. The existing bridge is damaged due to Hurricane Sandy. FEMA has provided funding for required repairs.	Periodic maintenance of stream debris helps reduce blockage of the culvert. The existing bridge is damaged and should be replaced.	The inability to fund the construction of a new bridge at this time is an obstacle and causes delays in solving this issue.	This action is still relevant and should be completed at some future date. Anticipated completion date should be revised

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Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
9/1/2013	3/1/2014	244-001	Flood Warning System	Oradell Borough	Deferred to year 2015	Unable to implement the project at this time due to lack of funding		Budget Constraints	Project is still relevant, the anticipated completion date is now revised to end of Year 2015
9/1/2013	3/1/2014	244-004	Rebuilding of Culverts	Oradell Borough	Ongoing	Existing culverts are maintained by the Department of Public Works on regular basis	Culverts are checked every month to minimize potential flooding issues	Budget Constraints	Project is still relevant, the anticipated completion date is now revised to the end of Year 2015
9/1/2013	3/1/2014	244-005	Widening of Drainage Ditches, Small Streams	Oradell Borough	Withdrawn				

2008 Hazard Mitigation Initiatives									
Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	2014	245-001	Dredging of outfalls to Overpeck Creek	Palisades Park DPW/NJDEP	Ongoing	Have to still work with NJDEP to have work started.	Need was identified and still in planning process.	NJDEP studies and obtaining engineer.	This action is still relevant. There is still flooding that occurs.
2008	2014	245-002	Install larger storm drain in various low lying area	Palisades Park DPW	Ongoing	Install larger storm drains in low lying areas.	Problematic areas have been identified and are currently being addressed	Manpower and delay in equipment availability.	This action is still relevant and should be completed in the next two years.

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Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	4/1/2014	246-003	Installation of New Generator @ Fire Station 2	Borough of Paramus	In progress	Installation should be completed within a month	Planning, funding, and installation of a new generator	Funding, study for required power and wiring configurations	In progress. Completion anticipated within a month
2008	4/1/2014	246-004	Installation of water tight doors @ all sewer pump stations	Borough of Paramus	Deferred	Has not been acted upon at this time	No action taken	Funding. No action followed	Action may still be relevant. It will be reviewed and discussed
2008	4/1/2014	246-005	Installation of Flood Protection System @ Prospect St Sewer Pump Station	Borough of Paramus	Deferred	Has not been acted upon at this time	No action taken	Funding. No action followed	Action may still be relevant. It will be reviewed and discussed
2008	4/1/2014	246-002	Installation of a new generator @ Paramus High School	Paramus Public Schools	Ongoing	Awaiting funding. Scheduled for this year	Funding and initial plan	Unknown	Action should begin this year

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Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
1/1/2013	3/1/2014	247-005	Acquisition of a mobile EOC	Park Ridge OEM	Ongoing	A suitable mobile EOC vehicle has not come up for takeover by OEM	No action taken during this reporting period	A suitable vehicle could not be found	action is still relevant.
1/1/2013	3/1/2014	247-001	Establish a CERT Team	Park Ridge OEM	Ongoing	The CERT tea was formed, but no trailer of clothing was purchased.	Team was formed and I was told that they received minimal training.	There has been a change in the OEM Coordinator, and I am trying to update the training that they received, and determine what they need	The action is still relevant, and there was no closing date listed

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Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	2013	248-002	Comprehensive Mitigation Study to Protect Water System	Ramsey DPW Water Department	Ongoing	Certain security measures have been implemented. Locking devices installed. PD observance. Security cameras and tamper alarms are needed.	Certain security measures have been implemented. Locking devices installed. PD observance.	Funding	Yes- Security cameras and tamper alarms are needed.
2008	2013	248-003	Improve Drainage Church St. and Island Ave.	Ramsey DPW	Withdrawn	As per Ramsey Municipal Engineer this area does not have a flooding problem.	N/A	This project was not acted upon by Ramsey because there is no flooding problem present at this location.	

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Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
4/1/2010	3/1/2014	249-001	Wolf Creek Clean Out	Ridgefield DPW	Ongoing	When Wolf Creek is clear of debris and erosion 5 critical facilities and 3 repetitive lossproperties will reduce the possibility of loss and flood damage.	Ridgefield Environmental Commission recruited volunteers to walk and clean debris from Wolf Creek.	DPW is prohibited by NJDEP to clean Wolf Creek with heavy equipment.	This is a continuous task as long as the vegetation grows and the Creek flows.

2008 Hazard Mitigation Initiatives									
Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	2014	250-002	Clean and dredge ditch. West side of Rt. 95 South	NJDOT (Ridgefield Park)	Not completed	Cleaning out drainage ditch to mitigate flooding.	N/A		Yes
2008	2014	250-003	Engineering review of Bergen Turnpike/Overpeck Creek	NJDOT (Ridgefield Park)	Not completed	Study of options to mitigate flooding on Bergen Turnpike.	N/A		



2008 Hazard Mitigation Initiatives									
Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	2014	251-001	Study: Reconstruction of Village Hall. Construction of new police annex.	Ridgewood DPW, Engineering Division	Ongoing	Police Annex construction is complete but due to lack of funding, generator and backup battery system is under sized for buildings demand.	Study and construction of annex was complete.	Since the Village funded the project without any grants, we ran into short comings with the generator system to back up the building during power outages.	Completion should be extended until the generator issues are resolved. Pending funding to replace or sister a second generator.

2008 Hazard Mitigation Initiatives									
Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	2014	252-009	Relocate DPW to higher ground; install generator	River Edge OEM	75% completed - 8 items completed--1 proposed for 2014-- budget approval pending	The items identified in the 2013 submission for the River Edge DPW office area and the emergency generator at the DPW are completed. The identified items for Fire Company 2 have not been funded in the 2014 budget.	office area reconstructed--a 40 foot trailer has been purchased and all office equipment has wheels or is movable and fits into the 40 foot trailer. During high risk events the movable materials are moved into the trailer and moved to higher ground	Funding and building plans were not ready prior to 2013 -- since that time the generator located at the DPW has been upgraded and placed on a concrete pad that is over 4 feet high --- we have no record of water ever reaching the 4 foot level in the location where the Generator is mounted.	OEM requested flood doors for DPW office and Fire bay doors at Fire Co #2. Request denied, updated request for 2015 Budget or as a 2015 Capital Project. Grant app to raise emergency generator at Fire Co #2 submitted to FEMA, to date no response. Fire Co #2 has funding approval for new generator and a 4' pad, but is not moving forward on it due to a no answer on the grant application. Update requested.
2008	2014	252-011	Install check valves in control water back up by stormwater pipe from Hackensack River	River Edge	Ongoing	Check valves need to be installed in floor drains	The Boro is currently in the process of getting an engineering proposal to complete this project.		Yes, still relevant

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Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	2014	253-010	Ongoing maintenance plan to inspect the river for fallen trees etc. that would stop flow of water.	River Vale DPW	deferred	It is unknown what agency is ultimately responsible for this task	nothing	It is unknown what agency is ultimately responsible for this task	n/a

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Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	2014	254-006	Back Flow Protection	Rochelle Park	Not completed	Perform a feasibility assessment against possible back flow prevention to an existing storm water system.	N/A	lack of funding	Not relevant remove from plan.
2008	2014	255-001	Emergency Power for Shelter/Firehouse	Rockleigh Borough	Not Complete	Still trying to free up funds		Cost	Yes, still on the "To-Do" list of possible projects
2008	2014	255-002	Bank/Stream Cleanup at Sparkill Creek Dam	Rockleigh Borough	Not Complete	Still trying to free up funds		Cost	No - Not currently on any future plans to complete.
2008	2014	255-003	Improvement/Fixing 20 Rockleigh Road	Rockleigh Borough	Not Complete	It was determined that dam improvement would not significantly help flooding issue		Cost	No - Not currently on any future plans to complete.
2008	2014	255-004	Vegetative Management/Wildfire Management	Rockleigh Borough	Not Complete	It was determined that continued Vegetative Management would be cost prohibitive.		Cost	No - Not currently on any future plans to complete.

2008 Hazard Mitigation Initiatives									
Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	2014	256-001	Reverse 911 System	Borough of Rutherford	ongoing/com plete	Reverse 911 System	Borough funded 911 System & implemented its use in 2013. Borough in process of changing vendors to a more comprehensive system	Funding	N/A

2008 Hazard Mitigation Initiatives									
Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	2014	257-001	Saddle River Dredging	Township of Saddle Brook	on-going	The Township of Saddle Brook has been seeking assistance in dredging the Saddle River to eliminate the flooding in our township. At this time the project has not been funded.	N/A	The Township of Saddle Brook has not received any funding.	The Saddle River needs to be dredged to eliminate and mitigate flooding within the township.
2008	2014	257-004	Saddle River Dredging in Saddle Brook	Township of Saddle Brook	on-going	The Township of Saddle Brook has been seeking assistance in dredging the Saddle River to eliminate the flooding in our township. At this time the project has not been funded.	N/A	The Township of Saddle Brook has not received any funding.	The Saddle River needs to be dredged to eliminate and mitigate flooding within the township.
2008	2014	257-002	Study the reconstruction of Railroad Ave Bridge so debris flow unobstructed	Township of Saddle Brook	on-going	The Township of Saddle Brook has been seeking assistance reconfigure the Railroad Ave Bridge so the debris flow unobstructed. At this time the project has not been funded.	N/A	The Township of Saddle Brook has not received any funding.	The Railroad Ave Bridge needs to be reconfigured so debris flow free from obstructions.

2008 Hazard Mitigation Initiatives									
Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	2014	259-004	Elevation of Sewer Ejector Station	Township of South Hackensack	Not completed	Construct second level to pump station & relocate panels, generator and all electrical to new second level.	N/A	Had to be repaired several times due to flooding from 1999 to present.	Still relevant. Yes.
2008	2014	259-002	Dredge Ditches	Township of South Hackensack/ BC Mosquito Control	Not completed	Desnag ditches and remove stumps, trees, rock and other miscellaneous debris.	N/A	Lack of funding.	Keep in plan. Yes, once funding is obtained.
2008	2014	259-003	Marsellus Avenue Bridge Reconstruction	Bergen County Engineering (S. Hackensack)	Currently in design phase	New bridge without center pier.	Design contract awarded to Boswell Engineering.	N/A	Still relevant. Anticipated construction completion date 2016.

2008 Hazard Mitigation Initiatives									
Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	2014	260-001	Belle Avenue Drainage Improvements: Installation of Larger and Additional Storm Drains	Teaneck Engineering Department	Ongoing	Pipes under Cedar Lane following south to railroad are grossly undersized. Result is heavy flooding in residential areas. Item being considered under Capital Improvement Plan.	No additional action taken.	Budgetary constraints preclude completion of work.	Action is still relevant and completion date is to be determined.
2008	2014	260-002	Fabry Terrace Drainage Improvements: Installation of Larger and Additional Storm Drains	Teaneck Engineering Department	Ongoing	General storm drain pipes are undersized. Result is flooding in residential areas. Item being considered under Capital Improvement Plan.	No additional action taken.	Budgetary constraints preclude completion of work.	Action is still relevant and anticipated completion date is to be determined.



2008 Hazard Mitigation Initiatives									
Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	2014	263-001	School Shelter Generator Project	Boro of Upper Saddle River	Incomplete	Seeking funding	Planning	funding	yes

2008 Hazard Mitigation Initiatives									
Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	2014	264-001	Rehabilitate Whites Pond Dam at Hopper Avenue	Borough of Waldwick	On-Going	To identify and make repairs to Whites Pond Dam	During this period, the Borough of Waldwick hired Stantec Consulting to assess the condition of the dam and what was needed to be done. This assessment has been completed.	Financial	The project and need is still relevant and work should be done in the next years.

2008 Hazard Mitigation Initiatives									
Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	2014	265-001	Emergency Power at 178 Maple Ave	Borough of Wallington	ongoing	The project is ongoing and a study of the electrical usage and needs has been completed. Location for a generator has become an issue.	An electrical study has been completed.	The location for the generator has become an obstacle.	The date may have to be modified.

2008 Hazard Mitigation Initiatives									
Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2013	2014	266-001	Replacement of earth and dam	Washington Lake Association (Wash Twp)	Withdrawn	The Twp of Washington is no longer responsible for matters related to Washington Lake. Through legal actions the Washington Lake Association is now responsible for all matters related to the lake and it's associated properties.	None		Project is no longer relevant for the Township of Washington. However, it is still relevant for the Washington Lake Association

2008 Hazard Mitigation Initiatives									
Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	2014	Proposed after 2008 Plan	Project #3: Formalize the stream banks of floodway - K-Mart Shopping Center	Borough of Westwood	Deferred	Formalize the floodway, also known as the ditch behind the K-Mart Shopping Center and across from Harding Ave and Steuben Ave.	No action for this reporting period.	Funding	This proposed project is still relevant and should have the start/completion date revised or extended.
2008	2014	Proposed after 2008 Plan	Project #2: Reline and/or replace sewer line Borough wide	Borough of Westwood	Deferred	Reline and/or replace sewer lines within our municipal boundaries.	No action for this reporting period.	Funding	This proposed project is still relevant and should have the start/completion date revised or extended.
2008	2014	Proposed after 2008 Plan	Project #1: Flood Control - Pascack Brook and Musquapsink Brook	Borough of Westwood	Deferred	Desilting, desnagging and channel formalization of the Pascack Brook and the Musquapsink Brook to ensure that water stays in the brook and does not flood structures and property on the banks of each of these brooks.	No action for this reporting period.	Funding	This proposed project is still relevant and should have the start/completion date revised or extended.
2008	2014	Proposed after 2008 Plan	Project #4: Lightning strike notification alarm system	Borough of Westwood	Partially completed	First portion of the project, specifically the installation of a lightning strike notification system, has been completed. The second portion of the project, specifically the purchase of two (2) electronic message boards, has not been completed and should be considered deferred at this time.	Installation of the lightning strike notification alarm system was completed and fully funded by a five (5) entity co-operative effort which included three (3) municipalities and two (2) regional school districts. The total cost for this project was approximately \$74,000.00	None	The second portion of this project, the purchase of two (2) electronic message boards, should be considered deferred at this time. The Borough of Westwood still considers this portion of the project relevant.

2008 Hazard Mitigation Initiatives									
Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	2014	269-001	Tree Removal, Pruning and Planting	Wood-Ridge OEM	Ongoing	Tree roots are monitored continuously, and as streets are repaved, trees are maintained and/or removed and new trees are planted.	Ongoing effort		Not a mitigation action, action completed.

2008 Hazard Mitigation Initiatives									
Report start	Report end	2008 Mitigation Action	Action Title	Responsible Agency	Action Progress Status	Summary Description	What was accomplished?	Obstacles, Problems or Delays Encountered	If not completed is action still relevant?
2008	2014	270-001	Emergency Power (Larkin House Meeting room), 380 Godwin Ave	Twp. of Wyckoff Buildings and Grounds/OEM	Withdrawn	The Township of Wyckoff has decided to withdraw this project in order to concentrate on other emergency generator projects for critical facilities, EOC, and shelter facilities listed in EOP. All of these facilities have been listed in our original LOI in February 2013.		Funding	The action/project is not relevant at this time.