



SECTION 2. PLANNING PROCESS

2020 HMP Changes

- The sections in the 2020 HMP were realigned to increase the readability of the plan. Section 2 (formerly Section 3 in the 2015 HMP) now comprises the Planning Process section of the plan.
- All aspects of the planning process were updated for the 2020 HMP.
- Public outreach was enhanced to reach a broader audience by using additional medial outlines (Facebook, Twitter), attending already-scheduled County events, and having multi-lingual materials (brochure, social media posts) and a translator at a public meeting.
- Stakeholder outreach was enhanced by holding sector-specific focus group sessions to obtain a comprehensive understanding of capabilities, vulnerabilities, and potential mitigation projects.
- Workshop-style meetings were held with the Planning Partnership to engage participants, using small break-out groups and large-scale poster maps to convey hazard vulnerability and assist with hazard ranking updates.

2.1 INTRODUCTION

This section includes a description of the planning process used to update the 2015 Essex County All Hazard Mitigation Plan (HMP), including how it was prepared, who was involved in the process, and how stakeholders and the public were involved. To ensure that the plan meets requirements of the DMA 2000 and that the planning process would have the broad and effective support of the participating jurisdictions, regional and local stakeholders, and the public, an approach to the planning process and plan documentation was developed to achieve the following goals:

- The HMP will be multi-jurisdictional. Essex County invited all municipalities in the County to join with them in the preparation of the Essex County All Hazard Mitigation Plan. Essex County and all its municipalities are participating in the HMP.
- The HMP will consider natural and human-caused hazards facing Essex County, thereby satisfying the natural hazards mitigation planning requirements specified in DMA 2000.
- The HMP will be developed following the process outlined by DMA 2000, FEMA regulations, and prevailing FEMA and NJOEM guidance. Following this process ensures all the requirements are met and support HMP review.

The Essex County HMP update was written using the best available information obtained from a wide variety of sources. Throughout the HMP update process, a concerted effort was made to gather information from municipal and regional agencies and staff, as well as stakeholders, federal and state agencies, and the residents of the County. The HMP Steering and Planning Committees, described in subsection 2.2 below, solicited information from local agencies and individuals with specific knowledge of certain hazards and past historical events, as well as considering planning and zoning codes, ordinances, and other recent planning decisions. The hazard mitigation strategies identified in this HMP have been developed through an extensive planning process involving local, county and regional agencies, County residents and stakeholders.

This section describes the mitigation planning process, including (1) Organization of the Planning Process; (2) Stakeholder Outreach and Involvement; (3) Integration of Existing Data, Plans, and Technical Information; (4) Integration with Existing Planning Mechanisms and Programs; and (5) Continued Public Involvement.



2.2 ORGANIZATION OF THE PLANNING PROCESS

Many parties supported the preparation of this HMP update: County officials, municipal officials, stakeholders, and consultants. This planning process does not represent the start of hazard risk management in Essex County, rather it is part of an ongoing process that various State, County and local agencies and individuals have continued to embrace. A summary of the past and ongoing mitigation efforts is provided in Section 6 (Mitigation Strategy), as well as in Volume II Section 9 (Jurisdictional Annexes), to give a historical perspective of the county and local activities implemented to reduce vulnerability to hazards in the planning area.

This section of the HMP identifies how the planning process was organized with the many “planning partners” involved and outlines the major activities that were conducted in the development of this HMP update.

2.2.1 Organization of Planning Partnership

Recognizing the need to manage risk within the County, and to meet the requirements of the DMA 2000, the Essex County Sheriff's Office led the update to the 2015 Essex County Hazards Mitigation Plan. Essex County was notified by NJOEM that their application for a planning grant to update their 2015 Hazard Mitigation Plan under FEMA's Hazard Mitigation Grant Program (PDMC-PL-02-NJ-2016-002) was approved. The County selected a contract planning consultant (Tetra Tech Inc. – Parsippany, NJ) to guide the County and participating jurisdictions through the HMP update process. A contract between Tetra Tech Inc. (Tetra Tech) and the County was executed in May 2019. Specifically, Tetra Tech, the “contract consultant”, was tasked with the following:

- Assisting with the organization of a Steering Committee and Planning Committee.
- Assisting with the development and implementation of a public and stakeholder outreach program.
- Data collection.
- Facilitation and attendance at meetings (Steering Committee, Planning Committee, stakeholder, public and other).
- Review and update of the hazards of concern, and hazard profiling and risk assessment.
- Assistance with the review and update of mitigation planning goals and objectives.
- Assistance with the review of progress of past mitigation strategies.
- Assistance with the screening of mitigation actions and the identification of appropriate actions.
- Assistance with the prioritization of mitigation actions.
- Authoring of the draft and final HMP documents.

In June 2019, Essex County's Office of Emergency Management notified the 22 municipalities of Essex County of the pending planning process and invited them to formally participate. Municipalities were provided with a copy of the Planning Partner Expectations and asked to formally notify the County of their intent to participate (via a Letter of Intent to Participate (LOIP)) and to identify a primary and secondary planning point of contact to serve on a Planning Committee and represent the interests of their respective community. In addition, each municipal Floodplain Administrator (FPA) was identified in the LOIP and requested to actively participate in the planning process. Section 9 (Jurisdictional Annexes) and Appendix X (Participation Matrix) detail contributions provided by the FPA. All 22 municipalities returned their Letter of Intent to Participate. Appendix X (Letters of Intent to Participate) provides copies of their LOIPs.



To facilitate HMP development, Essex County developed a Steering Committee to provide guidance and direction to the HMP update effort and to ensure the resulting document will be embraced both politically and by the constituency within the planning area. All municipalities participating in the plan update authorized the Steering Committee to perform certain activities on their behalf, via the LOIP. Specifically, the Steering Committee was charged with the following:

- Providing guidance and overseeing the planning process on behalf of the general planning partnership.
- Attending and participating in Steering Committee meetings.
- Assisting with the development and completion of certain planning elements, including the following:
 - Identification of “Hazards of Concern.”
 - Public and Stakeholder Outreach.
 - Mitigation Planning Goals and Objectives.
 - Identification and screening of appropriate mitigation strategies and activities.
 - Reviewing and commenting on plan documents prior to submission to NJOEM and FEMA.

Steering Committee (SC) is comprised of County and municipal representatives and stakeholders that guide and lead the HMP update process on behalf of the Planning Partnership.

Planning Committee (PC) is comprised of representatives from each participating jurisdiction (County and municipal).

Planning Partnership = SC + PC

The organizational structure was successfully implemented for the 2020 HMP updated consistent with the development of the initial 2015 planning process; new Steering Committee members included representatives from the Townships of Belleville and Millburn (see Table 2-1). The Steering Committee provided guidance and leadership, oversight of the planning process, and acted as the point of contact for all participating jurisdictions and the various interest groups in the planning area.

Table 2-1. Essex County Hazard Mitigation Steering Committee Members

Name	Title
Joseph DiVincenzo	County Executive
Armando Fontoura	Sheriff/County OEM Coordinator
Theodore Stephens, Esq	County Prosecutor
Mitchell McGuire	Chief of Detectives
Amir Jones	Undersheriff/Deputy OEM Coordinator
Michael Capodanno	Director of Homeland Security
Robert Jackson, AB, MBA	County Administrator
Julias Coltre, QPA	Deputy County Administrator
Darryl Johnson	Haz Mat/Bomb Technician
Edward Esposito, CEM	Essex County Sheriff's Office/Communications
Ryan Peter	EMS and Preparedness
Stephanie Knox, CEM	Essex County OEM/Planning/CERT
David Antonio	County DPW-Planner
Darren Marshall	IT/GIS Coordinator
Luis E. Rodriguez, PE	Supervising Engineer, DPW



Name	Title
Sanjeev Varghese, PE	County Floodplain Administrator
Jerry Grande	Director of County Roads and Bridges
Robert Echavarria, CEM	Millburn Municipal OEM/Fire Chief
Juba Dowdell, CPM	Newark Municipal OEM/Deputy Coordinator
William Smith	Fairfield Municipal OEM/Fire Marshal
Tim Walker	County Risk Manager
Anthony Puglisi	Public Information Officer
Kevin Lynch	Public Information Officer
Carrie Nawrocki, PHO	Essex Regional Health
Daniel Salvante	Director of Parks Department
Captain Nick Breiner	Township of Belleville Police Captain/Deputy Municipal OEM

Each municipality received a copy of the “Planning Partner Expectations” which outlined the responsibilities of the participants and the agreement of the partners to authorize the Steering Committee to represent the jurisdiction in the completion of certain planning elements. Table 2-2 lists the current municipal members of the Planning Partnership (Steering Committee and Planning Committee), at the time of this HMP’s publication. Please note that while Steering Committee members are also part of the overall project Planning Partnership fulfilling these responsibilities on behalf of Essex County. The Planning Partnership was charged with the following:

- Represent their jurisdiction throughout the planning process.
- Assure participation of all department and functions within their jurisdiction that have a stake in mitigation (e.g., planning, engineering, code enforcement, police and emergency services, public works).
- Assist in gathering information for inclusion in the HMP update, including the use of previously developed reports and data.
- Support and promote the public involvement process.
- Report on progress of mitigation actions identified in prior or existing HMPs, as applicable.
- Identify, develop, and prioritize appropriate mitigation initiatives.
- Report on progress of integration of prior or existing HMPs into other planning processes and municipal operations.
- Support and develop a jurisdictional annex for their jurisdiction.
- Review, amend, and approve all sections of the plan update.
- Adopt, implement, and maintain the plan update.



The Planning Committee was charged with the following:

- Represent their jurisdiction throughout the planning process;
- Establish plan development goals;
- Establish a timeline for completion of the plan;
- Ensure that the plan meets the requirements of DMA 2000 and FEMA and NJOEM guidance;
- Solicit and encourage the participation of regional agencies, a range of stakeholders, and citizens in the plan development process;
- Assist in gathering information for inclusion in the plan, including the use of previously developed reports and data;
- Organize and oversee the public involvement process;
- Involve your local NFIP Floodplain Administrator in the planning process.
- Report on progress of 2015 HMP mitigation actions;
- Identify, develop and prioritize appropriate mitigation initiatives;
- Report on progress of 2015 HMP integration into other planning processes and municipal operations;
- Review, amend and approve all sections of the plan;
- Develop and author the jurisdictional annex for their jurisdiction;
- Develop, revise, adopt, and maintain the plan.

Table 2-2. Essex County Hazard Mitigation Planning Partnership Members

Jurisdiction	Name	Title	Steering Committee Member
Essex County	Edward Esposito	Captain	X (also Primary POC for County)
	Sanjeev Varghese	Public Works Director and County Engineer	X (also Secondary POC for County)
	Joseph DiVincenzo	County Executive	X
	Armando Fontoura	Sheriff/County OEM Coordinator	X
	Theodore Stephens, Esq	County Prosecutor	X
	Mitchell McGuire	Chief of Detectives	X
	Amir Jones	Undersheriff/Deputy OEM Coordinator	X
	Michael Capodanno	Director of Homeland Security	X
	Robert Jackson, AB, MBA	County Administrator	X
	Julias Coltre, QPA	Deputy County Administrator	X
	Darryl Johnson	Haz Mat/Bomb Technician	X
	Ryan Peter	EMS and Preparedness	X
	Stephanie Knox, CEM	Essex County OEM/Planning/CERT	X
	David Antonio	County DPW-Planner	X
	Darren Marshall	IT/GIS Coordinator	X
	Luis E. Rodriguez, PE	Supervising Engineer, DPW	X
	Jerry Grande	Director of County Roads and Bridges	X
	Tim Walker	County Risk Manager	X



Section 2: Planning Process

	Anthony Puglisi	Public Information Officer	X	
	Kevin Lynch	Public Information Officer	X	
	Carrie Nawrocki, PHO	Essex Regional Health	X	
	Daniel Salvante	Director of Parks Department	X	
Jurisdiction	Municipal Primary Point of Contact	Title	Municipal Alternate Point of Contact	Title
Township of Belleville	Martin Lutz	Deputy Fire Chief/OEM Coordinator	Nick Breiner	Deputy Coordinator/Police Department
Township of Bloomfield	Fred Menzel	OEM Coordinator	Thomas Pelaia	Deputy OEM Coordinator
Borough of Caldwell	Mark Guiliano	Emergency Management Coordinator	Brian Maclay	Deputy Emergency Management Coordinator
Township of Cedar Grove	Jeffrey McElroy	OEM Coordinator	John D-Ascensio	Deputy OEM Coordinator
City of East Orange	Salomon Steplight	OEM Coordinator	David Williams	OEM Deputy Coordinator
Borough of Essex Fells	James Egan	E.M. Coordinator	Sgt. John R Schmunk	Deputy EM Coordinator
Township of Fairfield	William Smith	OEM Coordinator	Steve Bury	Engineer
Borough of Glen Ridge	Michael Rohal	Borough Administration / Engineer / Clerk/ OEM Coordinator	Michael Zichelli	Deputy Administrator / Director of Planning
Township of Irvington	John F Brown	OEM Coordinator	Antonio Gary	Fire Chief/Deputy Coordinator
Township of Livingston	Christopher C. Mullin	Fire Chief, Fire Official, OEM Coordinator	Rossana Mattia	Administrative Assistant to the Fire Chief
Township of Maplewood	Sonia Viveiros	Business Administrator	Jim DeVaul	Chief Police
Township of Millburn	Captain Chris Beady	OEM Coordinator, Milburn Fire	Alex McDonald	Deputy Coordinator, Business Administrator
Township of Montclair	Rob Bianco	Emergency Management Coordinator, Department of Community Services	John Herrmann	Fire Chief/DEMC
City of Newark	Dorian Herrell	OEM Coordinator	Juba Dowdell	OEM Deputy Coordinator
Borough of North Caldwell	Kevin O'Sullivan	Borough Administrator	John D'Ascensio	OEM Coordinator
Township of Nutley	Salvatore Ferraro	Engineering / DPW	William Cassidy	OEM Coordinator
City of Orange Township	Raymond Wingfield	Assistant Director DPW/OEM Coordinator	Elvin Padilla Jr.	Fire Captain/OEM Deputy Coordinator
Borough of Roseland	Tom Jacobsen	Construction Official	Gary Schall	Superintendent DPW
Township of South Orange Village	Adam D. Loehner	Village Administrator	Salvatore Renda	Village Engineer
Township of Verona	Joel Martin	OEM Coordinator, Police Department	Chris Kiernan	Police Chief
Township of West Caldwell	Larry Peter	Emergency Management Coordinator	John Medina	Deputy Emergency Management Coordinator
Township of West Orange	Dominic Allegrino	OEM Coordinator	Leonard Lepore	Director, Municipal Engineer

DPW = Department of Public Works

POC = Point of Contact as identified in the Letters of Intent to Participate and Jurisdictional Annexes (Section 9)

OEM = Office of Emergency Management



The jurisdictional Letter of Intent to Participate identifies the above “Planning Partner Expectations” as serving to identify those activities comprising overall participation by jurisdictions throughout the planning process. The jurisdictions in Essex County have differing levels of capabilities and resources available to apply to the plan update process, and further have differing exposure and vulnerability to the hazard risks being considered in this HMP. Essex County’s intent was to encourage participation by all-inclusive municipalities, and to accommodate their specific needs and limitations while still meeting the intents and purpose of plan participation. Such accommodations have included the establishment of a Steering Committee and engaging a contract consultant to assume certain elements of the planning process on behalf of the jurisdictions, and to provide additional and alternative mechanisms to meet the purposes and intent of mitigation planning.

Ultimately, jurisdictional participation is evidenced by a completed annex (chapter) of the HMP (Section 9) wherein the jurisdictions have identified their planning points of contact, evaluated their risk to the hazards of concern, identified their capabilities to effect mitigation in their community, and identified and prioritized an appropriate suite of mitigation initiatives, actions, and projects to mitigate their natural hazard risk; and eventually by the adoption of the updated plan via resolution.

Appendix X (Participation Matrix) identifies those individuals who represented their municipalities during this planning effort, and indicates how they contributed to the planning process. This matrix is intended to give a broad overview of who attended meetings and when input was provided. All participants were encouraged to attend the Kick-off Meeting, Risk Assessment and Mitigation Action Workshop. During the planning process the planning consultant contacted each participant to offer support, explain the process, meet individually to collect updated information and to facilitate the submittal and review of critical documents.

All municipalities actively participate in the National Flood Insurance Program (NFIP) and have designated NFIP Floodplain Administrators (FPA). All known FPAs were informed of the planning process, were provided the opportunity to review the plan including the jurisdictional annex and provide direct input to the plan update. Local FPAs are identified in the Points of Contact and Administrative and Technical portions of the jurisdictional annexes in Section 9 (Jurisdictional Annexes).

2.2.2 Planning Activities

Members of the Planning Partnership (individually and as a whole), as well as key stakeholders, convened and/or communicated regularly to share information and participate in workshops to identify hazards; assess risks; review existing inventories of and identify new critical facilities; assist in updating and developing new mitigation goals and strategies; and provide continuity through the process to ensure that natural hazards vulnerability information and appropriate mitigation strategies were incorporated. All members of the Steering Committee and Planning Partnership had the opportunity to review the draft plan and supported interaction with other stakeholders and assisted with public involvement efforts.



Exhibit 2-1. September 19, 2019 Risk Assessment Meeting



A summary of committee meetings (Steering Committee and Planning Partnership) meetings held and key milestones met during the development of the HMP update is included in Table 2-3 that also identifies which DMA 2000 requirements the activities satisfy. Documentation of meetings (e.g., agendas, sign-in sheets, meeting notes) are in Appendix C (Meeting Documentation). Table 2-3 identifies only the formal meetings held during plan development but does not reflect all planning activities conducted by individuals and groups throughout the planning process. In addition to these meetings, each jurisdiction (County and municipal) had several individual meetings (both in person and via teleconference) to work on their jurisdictional annexes (Section 9). Further, there was a great deal of communication between the County, committee members, and the contract consultant through individual local meetings, electronic mail (email), and by phone.

After completion of the HMP update, implementation and ongoing maintenance will become a function of the Planning Partnership as described in Section 7 (Plan Maintenance). The Planning Partnership is responsible for reviewing the HMP and soliciting and considering public comment as part of the five-year mitigation plan update.



Table 2-3. Summary of Planning Outreach

Date	Activity/DMA 2000 Requirement	Key Outcomes/Purpose*	Participants*
June 11, 2019	2	Project Management Kickoff Meeting	Essex County Sheriff's Office/OEM; Tetra Tech
June 20, 2019	1b, 2	Municipal OEM Coordinators Meeting <i>[Announced commencement of HMP update and distributed the LOIPs]</i>	Essex County Sheriff's Office/OEM; Municipal OEM Coordinators
July 18, 2019	1b, 2, 3a, 4a	Planning Partnership (Steering Committee and Planning Committee) Kickoff Meeting – open to the public <i>[Review of 2015 HMP; Data Collection; Review of Mission Statement, Goals, and Objectives; Hazards of Concern Identification; Public Outreach Strategy; Participation Requirements]</i>	Essex County: Sheriff's Office, OEM, Public Information Officer – County Executive's Office, Public Information Director, Office of the Mental Health Administrator NJOEM – Mitigation Unit JCP&L Municipalities: Belleville (T); Bloomfield (T); Caldwell (B); Cedar Grove (T); East Orange (C); Essex Fells; Fairfield (T); Glen Ridge (B); Irvington (T); Livingston (T); Maplewood (T); Millburn (T); Montclair (T); North Caldwell (B); Newark (C); Nutley (T); Orange (C); Roseland (B); South Orange (T); Verona (T); West Caldwell (T); West Orange (T) Tetra Tech
July and August 2019	2, 3b, 3c, 3e, 4a, 4b, 4c	Local Support Meetings	Belleville (T); Bloomfield (T); Caldwell (B); Cedar Grove (T); Essex Fells; Fairfield (T); Glen Ridge (B); Irvington (T); Livingston (T); Maplewood (T); Millburn (T); Montclair (T); North Caldwell (B); Nutley (T); Roseland (B); South Orange (T); Verona (T); West Caldwell (T); West Orange (T); Tetra Tech
August 27, 2019	1b, 2, 4a, 4b	Steering Committee Meeting <i>[Review Steering Committee guidelines, Review goals, County annex update, Public and stakeholder outreach; Schedule upcoming meetings]</i>	Essex County Sheriff's Office; Essex County Department of Public Works; Essex Regional Health Commission; Belleville (T); Fairfield (T); Millburn (T); Tetra Tech
September 11, 2019	2, 3d	Steering Committee Outreach <i>[Updated hazard ranking methodology and draft Essex County hazard ranking and draft risk assessment results distributed via email for]</i>	Essex County: County Executive; County Administrator; Sheriff's Office (Law Enforcement Services, Homeland Security, OEM, IT/GIS; Haz Mat); Prosecutor's Office; Department of Public Works (Engineering, Planning, Roads and Bridges); Risk Manager; Public Information; Department of Parks, Recreation and Cultural Affairs; Essex Regional Health Commission; Belleville (T); Fairfield (T); Millburn; Newark (C) Tetra Tech



Table 2-3. Summary of Planning Outreach

Date	Activity/DMA 2000 Requirement	Key Outcomes/Purpose*	Participants*
		<i>review and comment]</i>	
September 12, 2019	1b, 2	Municipal OEM Coordinators Meeting <i>[Public outreach; Upcoming meetings and importance of participation]</i>	Essex County Sheriff's Office/OEM; Municipal OEM Coordinators
September 19, 2019	2, 3b, 3c, 3e, 4a, 4b, 4c	Local Support Meetings	East Orange (C); Orange (C); Newark (C); Tetra Tech
September 19, 2019	1b, 2, 3a, 3b, 3c, 3d, 3e	Planning Partnership #2- Risk Assessment and SWOO Meeting – open to the public <i>[Presentation of draft risk assessment results, hazard ranking exercise, SWOO exercise for high-ranked hazards, introduction to development of problem statements]</i>	Essex County: Sheriff's Office, OEM, Public Information Officer – County Executive's Office, Essex County Regional Health Municipalities: Belleville (T); Bloomfield (T); Caldwell (B); Cedar Grove (T); East Orange (C); Essex Fells; Fairfield (T); Glen Ridge (B); Irvington (T); Livingston (T); Maplewood (T); Millburn (T); Montclair (T); North Caldwell (B); Newark (C); Nutley (T); Orange (C); Roseland (B); South Orange (T); Verona (T); West Caldwell (T); West Orange (T) Tetra Tech
September 23, 2019	2, 3a, 3b, 3d	FEMA Coastal Restudy Meeting for Essex and Hudson Counties <i>[Status update on the coastal study for New York and New Jersey to update flood risk information]</i>	Essex County Division of Housing and Community Development Municipalities: Belleville (T); North Caldwell (B); Newark (C); Nutley (T); West Caldwell (T); Tetra Tech.
September 24, 2019	1b, 2	Public Event – Senior Wellness Day <i>[Engagement opportunity to share update process with residents; survey conducted on preferred mitigation projects in the County; distribution of materials]</i>	Essex County Sheriff's Office; Tetra Tech; Diversity For members of the public see sign-in sheet (Appendix C)
September 26, 2010	2, 4b	FEMA Pre-Disaster Mitigation and Flood Mitigation	Webinar offered to all plan participants



Table 2-3. Summary of Planning Outreach

Date	Activity/DMA 2000 Requirement	Key Outcomes/Purpose*	Participants*
		Assistance Grant Funding Webinar	
October 24, 2019	1b, 2, 3a, 3b, 3c, 3d, 3e	Steering Committee Meeting <i>[Update and finalization of the mission statement, goals and objectives; plan maintenance; stakeholder focus group sessions]</i>	Essex County Sheriff's Office; Belleville (T); Maplewood (T); Millburn (T); Tetra Tech
October 24, 2019	1b, 2, 4a, 4b, 4c	Mitigation Strategy Workshop – open to the public <i>[Annex checklists distributed; Problem statement development; Mitigation resources distributed including mitigation catalog and critical facility/lifeline risk assessment results; Review of Mitigation Action Worksheets and NJOEM requirements; Small group break-outs to update municipal mitigation strategy]</i>	Essex County: Sheriff's Office, OEM Municipalities: Belleville (T); Caldwell (B); Cedar Grove (T); Fairfield (T); Glen Ridge (B); Irvington (T); Livingston (T); Maplewood (T); Millburn (T); Montclair (T); North Caldwell (B); Newark (C); Nutley (T); Roseland (B); South Orange (T); West Caldwell (T); West Orange (T) Tetra Tech
November 14, 2019	1b, 3a, 3c, 3d, 3e, 4b,	Stakeholder Focus Group Sessions <i>[Capabilities, Vulnerable areas and assets identified; Current and potential future mitigation actions identified for three sectors]</i>	Utilities Session: Essex County OEM; Essex County Fire Coordinator; PSE&G; Cedar Grove (T); Fairfield (T); Livingston (T); Newark (C); Tetra Tech Transportation Session: Essex County Sheriff Office; Essex County OEM; Essex County Transportation Advisory Board; New Jersey Transit; TRANSCOM; Fairfield (T); Millburn (T); Newark (C); Tetra Tech Green Infrastructure/Climate Change Session: Essex County OEM; Essex County Environmental Commission; Rutgers Cooperative Extension; Montclair Business Improvement District; Association of New Jersey Environmental Commission (ANJEC); Tetra Tech
December 2019	1b, 2, 3, 4, 5	Steering Committee Meeting - Review of Draft Plan	
December 2019	1b	Draft HMP posted on Essex County Sheriff's website for	



Table 2-3. Summary of Planning Outreach

Date	Activity/DMA 2000 Requirement	Key Outcomes/Purpose*	Participants*
		public review and comment	
TBD	1b, 2, 3, 4, 5	Draft Plan Review Meeting	
TBD	1b, 2, 3, 4, 5	Final Plan Review	

Note:

*Refer to Appendix B for sign-in sheets, agendas and meeting notes

TBD = To be determined

Each number in column 2 identifies specific DMA 2000 requirements, as follows:

1a – Prerequisite – Adoption by the Local Governing Body

1b – Stakeholder and Public Participation

2 – Planning Process – Documentation of the Planning Process

3a – Risk Assessment – Identifying Hazards

3b – Risk Assessment – Profiling Hazard Events

3c – Risk Assessment – Assessing Vulnerability: Identifying Assets

3d – Risk Assessment – Assessing Vulnerability: Estimating Potential Losses

3e – Risk Assessment – Assessing Vulnerability: Analyzing Development Trends

4a – Mitigation Strategy – Local Hazard Mitigation Goals

4b – Mitigation Strategy – Identification and Analysis of Mitigation Measures

4c – Mitigation Strategy – Implementation of Mitigation Measures

5a – Plan Maintenance Procedures – Monitoring, Evaluating, and Updating the Plan

5b – Plan Maintenance Procedures – Implementation through Existing Programs

5c – Plan Maintenance Procedures – Continued Public Involvement



2.3 STAKEHOLDER OUTREACH AND INVOLVEMENT

Stakeholders are the individuals, agencies, and jurisdictions that have a vested interest in the recommendations of the hazard mitigation plan, including all planning partners.

Diligent efforts were made to assure broad regional, county and local representation in this planning process. To that end, a comprehensive list of stakeholders was developed with the support of the Steering and Planning Committees. Stakeholder outreach was performed early on, and continually throughout the planning process. This HMP update includes information and input provided by these stakeholders where appropriate, as identified in the references.

This subsection discusses the various stakeholders that were invited to participate in the development of this HMP update, and how these stakeholders participated and contributed. This summary listing cannot possibly represent the total of stakeholders that were aware of and/or contributed to this HMP update, as outreach efforts were being made, both formally and informally, throughout the process by the many planning partners involved in the effort, and documentation of all such efforts is impossible. Instead, this summary is intended to demonstrate the scope and breadth of the stakeholder outreach efforts made during the plan update process.

Stakeholder Engagement Sessions:

Utility, Transportation, Green Infrastructure/Climate Change

- Online survey distributed in advance to inform session
- Session Format:
 - Group discussion
 - Map Exercises
- Topics Covered
 - Vulnerabilities
 - Capabilities
 - Mitigation Strategy

2.3.1 Federal Agencies

FEMA Region II: Provided updated planning guidance through meeting(s) with the New Jersey Office of Emergency Management Mitigation Unit and communicated to Essex County; held the FEMA Risk MAP coastal restudy meeting; conducted plan review.

National Weather Service (NWS): Provided data and information, provided subject matter expert review of atmospheric/weather-related hazard profile.

Information regarding hazard identification and the risk assessment for this HMP update was requested and received or incorporated by reference from the following agencies and organizations:

- National Climatic Data Center (NCDC)
- National Hurricane Center (NHC)
- National Oceanic and Atmospheric Administration (NOAA)
- National Weather Service (NWS)
- Storm Prediction Center (SPC)
- U.S. Army Corps of Engineers (USACE)
- U.S. Census Bureau
- U.S. Department of Agriculture (USDA)
- U.S. Department of Health and Human Services
- U.S. Environmental Protection Agency (USEPA)
- U.S. Geological Survey (USGS)
- U.S. Fish and Wildlife Service



2.3.2 State Agencies

New Jersey Office of Emergency Management (NJOEM): Administered planning grant; provided updated planning guidance; attended the Kickoff meeting in July 2019; consulted with individual municipalities interested in applying for 2019 FEMA Hazard Mitigation Assistance grants; provided review of the draft HMP update.

New Jersey Transit: Attended the November 2019 stakeholder focus group session for the transportation sector.

The following State agencies were invited to attend the November 2019 stakeholder focus group session for their appropriate sector:

- New Jersey Department of Transportation
- New Jersey Board of Utilities
- Port Authority of New York and New Jersey

2.3.3 County and Regional Agencies AND Commissions

Several County departments were represented on the Steering Committee and involved in the HMP update planning process; refer to Table 2-2 for a complete list of County entities that participated in the planning process with departments and divisions listed below. As previously noted, Steering Committee members were invited to all meetings, were provided updates via email communication and invited to review the draft HMP.

- Essex County Executive
- Essex County Administrator
- Essex County Sheriff's Office
 - Sheriff
 - Undersheriff
 - Office of Emergency Management
 - Law Enforcement Services
 - Homeland Security
- Department of Public Works
 - Division of Planning
 - Division of Engineering
 - Division of Roads and Bridges
- Department of Parks, Recreation and Cultural Affairs
- Prosecutor's Office

The following highlights three County entities that led HMP update and contributed to the County annex.

Essex County Sheriff's Office: The Sheriff's Office, Office of Emergency Management (OEM), provided leadership of the planning process, acting as chair of the Steering Committee, providing data, and facilitating communication with plan participants as well as public outreach. Captain Edward Esposito was identified as the ongoing Essex County HMP Coordinator in Section 7 (Plan Maintenance) and served in this role throughout the planning process. In addition, the Sheriff's Office including OEM provided critical data, assisted with the update of the hazards of concern and ranking, updated the previous mitigation strategy, facilitated outreach to jurisdictions and stakeholders, contributed to the County's capability assessment and updated mitigation strategy, and reviewed draft sections of the HMP.



Exhibit 2-2. County Executive Social Media Posts about the HMP update



Essex County Department of Public Works, Division of Planning: The Division of Planning functions include responsibility for long-range planning relating to development and conservation of land and resources in the County. This includes studies pertaining to the census, safety, land use, traffic, storm water, and transportation facilities. The Division of Planning includes the operations of the Essex County Planning Board, Essex County Construction Board of Appeals, and the Essex County Transportation Advisory Board. The Division of Planning, led by David Antonio, served on the Steering Committee and attended meetings throughout the planning process. Mr. Antonio and his team provided updated information on legal/regulatory and planning capabilities in the County, updated the previous mitigation strategy, facilitated outreach to jurisdictions and stakeholders, contributed to the County's updated mitigation strategy and annex, and reviewed draft sections of the HMP.

Essex County Department of Public Works, Division of Engineering: The Division of Engineering provides professional engineering services which include design, construction, construction inspection, construction management, bridge inventory, and maintenance throughout Essex County. The Division of Engineering, led by Sanjeev Varghese, served on the Steering Committee and attended meetings throughout the planning process. Mr. Varghese and his team provided updated information on legal/regulatory and planning capabilities in the County, updated the previous mitigation strategy, facilitated outreach to jurisdictions and stakeholders, contributed to the County's updated mitigation strategy and annex, and reviewed draft sections of the HMP.

Regional and Local Stakeholders

Essex Regional Health: Member of the Steering Committee; attended meetings; assisted with public outreach including posting meetings and the citizen survey on social media (Exhibit 2-2).

Essex County Environmental Commission: Attended the November 2019 stakeholder focus group session for the climate change/green infrastructure sector.

Essex County Transportation Advisory Board: Attended the November 2019 Stakeholder Focus Group Session for the transportation sector.

Rutgers Cooperative Extension Water Resources Program: Attended the November 2019 stakeholder focus group session for the climate change/green infrastructure sector.

The following regional and local stakeholders were invited to attend the November 2019 stakeholder focus group session for the appropriate sector; participate in a stakeholder survey to provide input on vulnerable assets, capabilities, and current/potential future mitigation projects; and invited to provide input on the draft HMP.

- New Jersey Future
- NY/NJ Baykeeper
- Montclair Sustainability Officer
- Newark Sustainability Officer
- Sustainable Essex Alliance
- Sustainable Jersey
- Master Gardeners of Essex County
- Essex County Environmental Center
- Rahway River Watershed Association



Academia

The New Jersey Institute of Technology (City of Newark) was invited to the November 2019 stakeholder focus group transportation session. Essex County will send the draft plan to academic establishments in the County for review and comment.

Utilities

Utility providers in the County and regional stakeholders were invited to attend the November 2019 Stakeholder Focus Group session for the utility sector; participate in a utility sector stakeholder survey to provide input on vulnerable assets, capabilities, and current/potential future mitigation projects; and invited to provide input on the draft HMP. Areas of involvement in the planning process are noted below.

PSE&G: Attended the November 2019 Stakeholder Focus Group Session; Participated in the utility sector stakeholder survey

JCP&L: Attended the July 2019 HMP Kickoff meeting

In addition to PSE&G and JCP&L listed above, the following utility stakeholders were invited to attend the November 2019 stakeholder focus group session, participate in the utility survey and provide input on the draft HMP:

- Verizon
- New Jersey American Water
- Passaic Valley Sewerage Commission
- Passaic Valley Water Commission
- East Orange Water Commission
- Newark Water Utility
- Essex Fells Water Company
- Essex County Utilities Authority

Transportation

Transportation providers in the County and regional stakeholders were invited to attend the November 2019 Stakeholder Focus Group session for the transportation sector; participate in a transportation sector stakeholder survey to provide input on vulnerable assets, capabilities, and current/potential future mitigation projects; and invited to provide input on the draft HMP. Areas of involvement in the planning process are noted below.



Exhibit 2-3. Transportation Focus Group Session, November 14, 2019

North Jersey Transportation Planning Authority (NJTPA): Collaborated with the planning consultant and discussed the recently published Passaic River Basin Climate Resilience Planning Study; Shared the spatial data used to inform the Climate Resilience Plan

NJ Transit Police: Attended the November 2019 Stakeholder Focus Group Session

NJ Transit: Attended the November 2019 Stakeholder Focus Group Session

TRANSCOM: Attended the November 2019 Stakeholder Focus Group Session



Essex County Transportation Advisory Board: Attended the November 2019 Stakeholder Focus Group Session

In addition to stakeholders listed above, the following transportation stakeholders were invited to attend the November 2019 stakeholder focus group session, participate in the transportation survey and provide input on the draft HMP:

- Port Authority of New York and New Jersey
- Together North Jersey
- Essex County Special Transportation System
- Rutgers University Police Department
- New Jersey Institute of Technology Police

2.3.4 Neighboring Counties

Essex County has tried to keep surrounding and nearby counties and municipalities apprised of the project and allowed the opportunity to provide input to this planning process. Specifically, the following were invited to the Stakeholder Focus Group sessions in November 2019 and were contacted in December 2019 to inform them about the draft plan documents and to invite them to provide input.

- Hudson County, New Jersey
- Morris County, New Jersey
- Passaic County, New Jersey
- Union County, New Jersey
- Somerset County, New Jersey

2.3.5 Public Participation - Citizen Involvement

In order to facilitate better coordination and communication between the Planning Partnership and citizens and to involve the public in the planning process, it was determined that meeting dates/locations and draft documents will be made available to the public via the Essex County Sheriff's Office website dedicated to the HMP update. The participating partners also feel that community input on the HMP will increase the likelihood of hazard mitigation becoming one of the standard considerations in the evolution and growth of the County.

The Planning Partnership has made the following efforts toward public participation in the development and review of the HMP:

- The Sheriff's Office posted a news release on their website to announce the commencement of the HMP update; refer to Appendix D for the news release.
- A public project website was developed and is being maintained to facilitate communication between the Steering Committee, Planning Committee, public and stakeholders. The public website provides a project overview, access to the citizen's survey, multi-lingual brochures (English, Spanish and Portuguese) and various stakeholder surveys, and sections of the

O PLANO DE MITIGAÇÃO DE RISCOS DO CONDADO DE ESSEX

PROPÓSITO
O Departamento de Segurança Pública do Condado de Essex está liderando a atualização do HMP do condado. O plano descreve diversos perigos em potencial que podem afetar alguns ou todos os residentes. O plano também permitirá que o condado e os municípios participantes recebam subsídios da Agência Federal de Gestão de Emergências (FEMA) para fins de mitigação.

O objetivo do plano é identificar projetos capazes de reduzir os danos de futuros desastres. O plano incluirá uma avaliação de risco e uma estratégia de mitigação de riscos. Os principais riscos naturais que ameaçam o Condado de Essex incluem: Erosão Costeira e Aumento do Nível do Mar, Tempestades na Costa, Secas, Terremotos, Temperaturas Extremas, Inundações, Riscos Geológicos, Condições Climáticas Severas, Portos, Tempestades de Inverno e Queimadas. Os principais riscos não naturais no Condado de Essex incluem: Desastres Cíveis, Ataques Cibernéticos, Surto de Doenças, Colapso Econômico, Substâncias Perigosas, Falta de Energia Elétrica, Terrorismo e Falha no Setor de Transportes.

O estado está dedicado a construir o máximo possível: empreendimento, futuro, infraestrutura, instituições críticas que podem ser impactadas. Instituições críticas incluem, entre outras, prisões municipais e infraestrutura, como usinas de geração de energia, unidades de fornecimento de água, rodovias, ferrovias e sistemas de comunicação.

O QUE É UM PLANO DE MITIGAÇÃO DE RISCOS?

Um plano de mitigação de riscos (HMP) é "a representação do compromisso da jurisdição em reduzir riscos provenientes de desastres naturais, orientando os tomadores de decisão na alocação de recursos para redução dos efeitos dos desastres naturais" (44 CFR 201.6). Os HMPs determinam e mantêm a elegibilidade para o recebimento de subsídios. O processo de planejamento é tão importante quanto o próprio plano porque ele cria uma estrutura que permite que os governos reduzam os impactos negativos que desastres futuros podem causar nas pessoas, em bens materiais e na economia.

Planejar a mitigação de riscos pode reduzir significativamente as perdas físicas, financeiras e emocionais causadas pelos desastres. A Lei de Mitigação de Desastres de 2000 é uma lei federal que prevê um programa de mitigação de riscos pré-desastre e novas exigências para o Programa de Subsídios para Mitigação de Riscos (RMGP) pós-desastre, de âmbito nacional. Essa lei incentiva e recompensa atividades de planejamento pré-desastre locais e estaduais e promove a sustentabilidade. A elaboração de um HMP resultará em projetos de redução de risco mais efetivos e permitirá a alocação de recursos financeiros de forma mais ágil e eficiente.



Exhibit 2-4. 2020 HMP Multi-Lingual Brochure



HMP for public review and comment. Figure 2-1 provides a screenshot of the current website homepage. (<https://www.essexsheriff.com/oem-category/2020-mid-plan-update/>).

- An online natural hazards preparedness citizen survey was developed to gauge household preparedness relevant to hazards in Essex County and to assess the level of knowledge of tools and techniques to assist in reducing risk and loss of those hazards. The questionnaire asks quantifiable questions about citizen perception of risk, knowledge of mitigation, and support of community programs, as well as several demographic questions to help analyze trends. The questionnaire was posted on the County public website in August 2019 and was available for five months to facilitate public input garnering over 100 responses. The survey results were sorted by municipality and provided to the Steering Committee and Planning Partnership members to use to identify vulnerabilities and develop mitigation strategies. A summary of survey results is provided in Appendix D (Public and Stakeholder Outreach).
- A hazard mitigation planning brochure (see Appendix D) was developed to inform the public of the planning process, provide local contact information, and encourage the public to review the plan and provide input. This brochure was provided to all plan participants to distribute in their communities. It was also available for download on the hazard mitigation plan website. The brochure was made available in three languages: English, Spanish and Portuguese.
- All plan participants were encouraged to distribute the project brochure and post the links to the project webpage and citizen survey. In addition, all participating municipalities were requested to advertise the availability of the project website via local homepage links, and other available public announcement methods (e.g., Facebook, Twitter, email blasts). See Exhibit 2-5, Exhibit 2-6 and Appendix D for screenshots of the municipal outreach efforts.



Exhibit 2-5. Example Social Media Post



Exhibit 2-6. Public Outreach Example

- All hazard mitigation planning meetings that were open to the public were advertised on the Essex County website. One Essex County resident attended the September 2019 risk assessment meeting to learn more about the hazards of concern that the County faces.
- According to the American Community Survey, the two most frequently spoken languages in the County after English are Spanish and Portuguese. The County translated the news release, brochure and social media posts in an effort to reach a larger audience. In addition, a Spanish translator was present at the Senior Wellness Day, discussed below, to further engage with residents.



- Essex County Sheriff's Office and the planning consultant attended the public event, Senior Wellness Day, to share the update process with residents; survey attendees on their preferred mitigation projects in the County; distribution of materials including the citizen survey and multi-lingual brochure. Over 80 residents stopped by the mitigation table. As noted above, the translator attended as well. Refer to Appendix D for more information regarding this event including the sign-in sheet.

Additional examples of public outreach efforts are presented in Appendix D. The community residents had an opportunity to comment on the draft HMP before submittal to FEMA. The HMP was posted on the public website on December 20, 2019 for review. Public comments that have been received to date are documented in Appendix D and were distributed to the members of the Steering and Planning Committees for their consideration.



**Exhibit 2-7. Senior Wellness Event,
September 24, 2019**



Figure 2-1. Screenshot of the Essex County Sheriff Hazard Mitigation Website Home Page

HOME | LINKS | FAQ | EMPLOYMENT | FORMS | SAFETY TIPS | CONTACT US

Essex County Sheriff's Office

Sheriff Armando B Fontoura

SEARCH...

- > Sheriff
- > Executive Staff
- > Law Enforcement Services
- > Field Operations
- > Deputy Division
- > Office of Emergency Management (OEM)
- > Employee Awards & Recognition
- > Foreclosure Listings
- > Internal Affairs
- > Homeland Security
- > County Parks & Facilities
- > Crime-Stopppers
- > Most Wanted
- > Press Releases / Media Relation
- > Sheriff's Office Events

2020 Mitigation Plan Update

Essex County Website Update to Support 2020 HMP Update

Essex County is pleased to kick-off the 2020 Essex County All Hazard Mitigation Plan (HMP) update. The HMP is updated every five years, with the goal to save lives and property through the reduction of hazard vulnerability. During this planning project, the county, local leaders and the participating communities will work in tandem to identify risks, assess capabilities, and formulate a strategy to reduce disaster vulnerability in our communities. Please check this site regularly for updates on the planning process and ways to participate in this important effort.

[All Hazard Mitigation Plan Download 2015-2020](#)

If you would like more information regarding how to get involved in the project, please contact the Essex County Sheriff's Office at: 973-324-9750, essexoem@essexsheriff.com

Announcements

The HMP Risk Assessment meeting is Thursday, September 19, 2019 at 1000hrs; open to the public. Essex County OEM EOC, 560 Northfield Avenue, West Orange, NJ

The HMP Mitigation Strategy meeting is Thursday, October 24, 2019 at 1000hrs; open to the public. Essex County OEM EOC, 560 Northfield Avenue, West Orange, NJ

Citizen Survey - Public participation and feedback is a vital part of the hazard mitigation planning process. Essex County has developed a Citizen Preparedness Survey to assist in providing the public an outlet to contribute to the Essex County Hazard Mitigation Plan update. This survey is anonymous and will be used to develop portions of the plan. Please visit the survey at: <https://www.surveymonkey.com/r/essexhmp2020>

The Essex County Sheriff's Office Of Emergency Management will be holding the HMP kickoff meeting on Thursday July 18, 2019 at 0900.

Mitigation

Additional

- All Hazard Mitigation Plan Download 2015-2020
- HMP Informational Pamphlet – English
- HMP Informational Pamphlet – Portuguese
- HMP Informational Pamphlet – Spanish
- Essex News Release – English
- Essex News Release – Portuguese
- Essex News Release – Spanish

Source: <https://www.essexsheriff.com/oem-category/2020-mid-plan-update/>



2.4 INCORPORATION OF EXISTING PLANS, STUDIES, REPORTS AND TECHNICAL INFORMATION

The Essex County HMP update strives to use the best available technical information, plans, studies, and reports throughout the planning process to support hazard profiling; risk and vulnerability assessment; review and evaluation of mitigation capabilities; and the identification, development, and prioritization of county and local mitigation strategies.

The asset and inventory data used for the risk and vulnerability assessments are presented in the County Profile (Section 3). Details of the source of this data, along with technical information on how the data was used to develop the risk and vulnerability assessment, are presented in the Risk Assessment, specifically in Section 4.2 - Methodology and Tools, as well as throughout the hazard profiles in Section 4.4 (Hazard Profiles). Further, the source of technical data and information used can be found within Volume I under *References*.

Plans, reports, and other technical information were identified and provided directly by the County, participating jurisdictions, and numerous stakeholders involved in the planning effort, as well as through independent research by the planning consultant. The County and participating jurisdictions were tasked with updating the inventory of their Planning and Regulatory capabilities in Section 9 (Jurisdictional Annexes) and providing relevant planning and regulatory documents, as applicable. Relevant documents, including plans, reports, and ordinances were reviewed to identify the following:

- Existing County and municipal capabilities.
- Needs and opportunities to develop or enhance capabilities, which may be identified within the County or local mitigation strategies.
- Mitigation-related goals or objectives considered in the review and update of the overall Goals [and Objectives] in Section 6 (Mitigation Strategy).
- Proposed, in-progress, or potential mitigation projects, actions, and initiatives to be incorporated into the updated County and local mitigation strategies.

The following local regulations, codes, ordinances, and plans were reviewed during this process to develop mitigation planning goals, objectives, and strategies that are consistent across local and regional planning and regulatory mechanisms to accomplish complementary and mutually supportive strategies:

- Master Plans
- Building Codes
- Zoning and Subdivision Ordinances
- NFIP Flood Damage Prevention Ordinances
- Site Plan Requirements
- Stormwater Management Plans
- Emergency Management and Response Plans
- Land Use and Open Space Plans
- Capital Plans
- New Jersey State Hazard Mitigation Plan (2019)

A partial listing of the plans, reports, and technical documents reviewed in the preparation of this plan is included in Table 2-4. Refer to Section 9 (Jurisdictional Annexes) which outlines the updated programs, policies and plans that were researched and available for each jurisdiction.



Table 2-4. Record Review - Record of the review of existing plans and technical documents for participating jurisdictions

Existing plan, program or technical documents	Date	Jurisdictional Applicability
Comprehensive Energy Master Plan	2011	County and all municipalities
Essex County Comprehensive Transportation Plan	June 2013	County and all municipalities
Essex County Hazard Mitigation Plan	2007, 2015	County and all municipalities
Essex County Park System Park, Recreation and Open Space Master Plan	April 2003	County and all municipalities
Environmental Resource Inventory	2007	County and all municipalities
FEMA Essex County, NJ Coastal Hazard Analysis Flood Risk Review Meeting PowerPoint	October 2013	County and all municipalities
Park, Recreation, and Open Space Master Plan	April 2003	County and all municipalities
Saint Barnabas Medical Center Community Health Needs Assessment, 2016-2018	December 16, 2016	County and all municipalities
Newark Beth Israel Medical Center Community Health Needs Assessment, 2016-2018	November 18, 2016	County and all municipalities
Clara Maass Medical Center Community Health Needs Assessment, 2016-2018	November 28, 2016	County and all municipalities
Barnabas Health Behavioral Health Center Community Health Needs Assessment, 2016-2018	December 7, 2016	County and all municipalities
NJTPA Climate Resilience Study	2019	Passaic River Basin Communities
Township of Belleville Master Plan	January 10, 2019	Township of Belleville
Township of Bloomfield Master Plan	2012	Township of Bloomfield
Township of Bloomfield Emergency Operations Plan	2011	Township of Bloomfield
Master Plan Re-Examination Report	2017	Borough of Caldwell
Open Space Plan	2007	Borough of Caldwell
Caldwell Emergency Operations Plan	2018	Borough of Caldwell
Stormwater Pollution Prevention Plan	Nd	Borough of Caldwell
Municipal Stormwater Management Plan	February 2006	Township of Cedar Grove
Stormwater Pollution Prevention Plan	Nd	Township of Cedar Grove
Comprehensive / Master Plan	July 2006	Township of Cedar Grove
Comprehensive Emergency Management Plan (EOP)	April 2019	Township of Cedar Grove
Community Forest Management Plan	Nd	Township of Cedar Grove
Master Plan 2018: Borough of Essex Fells New Jersey	2018	Borough of Essex Fells
Emergency Operations Plan	February 2017	Township of Fairfield
Borough of Glen Ridge Master Plan	2010	Borough of Glen Ridge
Borough of Glen Ridge Stormwater Management Plan	Nd	Borough of Glen Ridge
Borough of Glen Ridge Stormwater Pollution Prevention Plan	January 15, 2018	Borough of Glen Ridge
Master Plan and Reexamination of Master Plan	2002 / 2009	Township of Irvington
Comprehensive Emergency Management Plan	Unknown	Township of Livingston
Municipal Stormwater Management Plan	2019	Township of Livingston
Stormwater Pollution Prevention Plan	December 2018	Township of Livingston
Township of Livingston Master Plan	April 2018	Township of Livingston
Capital Improvement Plan	Updated annually	Township of Livingston
Community Forestry Management Plan	Unknown	Township of Livingston



Existing plan, program or technical documents	Date	Jurisdictional Applicability
Master Plan Reexamination Report – Township of Maplewood	July 2011	Township of Maplewood
Capital Improvement Plan	Updated annually	Township of Maplewood
Stormwater Pollution Prevention Plan	2018	Township of Maplewood
Redevelopment Plan	Adopted April 3, 2012	Township of Maplewood
Stream Corridor Management Plan	2006	Township of Maplewood
Comprehensive Emergency Management Plan	2019	Township of Maplewood
Emergency Response Plan	2018	Township of Maplewood
Comprehensive Emergency Management Plan	2017	Township of Millburn
Post-Disaster Recovery Plan	2012	Township of Millburn
Environmental Resource Inventory Report	2014	Township of Millburn
Community Forestry Management Plan	Unknown	Township of Millburn
Capital Improvement Plan and South Mountain Drainage Engineering Project	2013-2020	Township of Millburn
Master Plan Updated and Adopted	December 2018	Township of Millburn
Environmental Resource Inventory	March 2014	Township of Millburn
Township of Montclair Master Plan Reexamination Report	2016	Township of Montclair
Stormwater Management Plan Element to Montclair Master Plan	2005	Township of Montclair
Conservation Element to Montclair Master Plan	2007	Township of Montclair
Unified Landuse and Circulation Element to Montclair Master Plan	2016	Township of Montclair
Township of Montclair Emergency Operations Plan	2018	Township of Montclair
Draft Sustainability Action Plan 2020	2019 (Draft)	City of Newark
Passaic River Tidal Protection Area, New Jersey Coastal Storm Risk Management Draft Integrated Hurricane Sandy General Reevaluation Report and Environmental Assessment	2018 (Draft)	City of Newark
Stormwater Management Plan	April 2019	Borough of North Caldwell
Stormwater Pollution Prevention Plan	Nd	Borough of North Caldwell
North Caldwell Redevelopment Plan	Nd	Borough of North Caldwell
North Caldwell Emergency Operations Plan	2018	Borough of North Caldwell
Borough of North Caldwell Master Plan Re-Examination Report	August 2019 (Pending Adoption)	Borough of North Caldwell
Township of Nutley Master Plan	December 2012	Township of Nutley
Township of Nutley Emergency Operations Plan	June 2016	Township of Nutley
Township of Nutley Stormwater Pollution Prevention Plan	March 31, 2005	Township of Nutley
City of Orange Township Master Plan	2018	City of Orange Township
Master Plan	November 2006. Currently in update.	Borough of Roseland
Capital Improvement Plan	Updated annually	Borough of Roseland
Stream Corridor Management Plan	02-2007	Borough of Roseland
Stormwater Management Plan	04-26-2007	Borough of Roseland
Stormwater Pollution Prevention Plan	01-26-2005	Borough of Roseland
Redevelopment Plan	11-2009	Township of South Orange Village
Master Plan	November 2006	Township of South Orange Village



Existing plan, program or technical documents	Date	Jurisdictional Applicability
Stream Corridor Management Plan	February 2007	Township of South Orange Village
Stormwater Management Plan	April 2018	Township of South Orange Village
Stormwater Pollution Prevention Plan	April 2018	Township of South Orange Village
Community Forestry Management Plan	December 2015	Township of South Orange Village
Vision Plan	October 2007	Township of South Orange Village
2009 Master Plan & Reexamination Report for Verona, New Jersey	2009	Township of Verona
Open Space Plan	2012	Township of Verona
Stormwater Pollution Prevention Plan	Nd	Township of Verona
Stormwater Management Plan	Nd	Township of Verona
Comprehensive Emergency Management Plan	August 2019	Township of Verona
Stream Corridor Management Plan	Nd	Township of Verona
Emergency Response Plan	2013	Township of Verona
Open Space Plan	1982	Township of West Caldwell
Comprehensive Plan / Master Plan/ General Plan	2007	Township of West Caldwell
Emergency Operations Plan	2017	Township of West Caldwell
Capital Improvements Plan	2010	Township of West Caldwell
Master Plan	2010	Township of West Orange
Capital Improvements Plan	Completed annually for a 5-year period	Township of West Orange
Pedestrian Safety Action Plan	2015	Township of West Orange
Open Space and Recreation Plan	Published 2010, Update March 12, 2019	Township of West Orange

Nd = No date

2.5 INTEGRATION WITH EXISTING PLANNING MECHANISMS AND PROGRAMS

Effective mitigation is achieved when hazard awareness and risk management approaches and strategies become an integral part of public activities and decision-making. Within Essex County, there are many existing plans and programs that support hazard risk management, and thus it is critical that this hazard mitigation plan integrate, coordinate with, and complement, those existing plans and programs.

Section 5 – Capability Assessment provides a summary and description of the existing plans, programs, and regulatory mechanisms at all levels of government (federal, state, county, and local) that support hazard mitigation within the county. Within each jurisdictional annex in Section 9, the County and each participating jurisdiction identified how they integrated hazard risk management into their existing planning, regulatory, and operational/administrative framework (*integration capabilities*) and how they intend to promote this integration (*integration actions*).

A further summary of these continued efforts to develop and promote a comprehensive and holistic approach to hazard risk management and mitigation is presented in Section 7 (Plan Maintenance).



2.6 CONTINUED PUBLIC INVOLVEMENT

Essex County and all municipalities are committed to the continued involvement of the public in the hazard mitigation process. This HMP update will be posted online at <https://www.essexsheriff.com/oem-category/2020-mid-plan-update/> and municipalities will be encouraged to maintain links to the plan website. Further, the County will make hard copies of the HMP available for review at public locations as identified on the website.

A notice regarding annual updates of the plan and the location of plan copies will be publicized annually after the annual plan evaluation meeting (refer to Section 7 – Plan Maintenance) and posted on the public website at <https://www.essexsheriff.com/oem-category/2020-mid-plan-update/>.

The public will have an opportunity to comment on the HMP update as a part of the annual mitigation planning evaluation process and the next five-year mitigation plan update. The HMP Coordinator (currently Captain Edward Esposito, Office of Emergency Management) is responsible for coordinating the plan evaluation portion of the meeting, soliciting feedback, collecting and reviewing the comments, and ensuring their incorporation in the 5-year plan update as appropriate; however, members of the Steering and Planning Committees will assist the HMP Coordinator. Additional meetings may also be held as deemed necessary by the Planning Partnership. The purpose of these meetings would be to provide the public an opportunity to express concerns, opinions, and ideas about the HMP.

Further details regarding continued public involvement are provided in Section 7 (Plan Maintenance).

After completion of this plan update, implementation and ongoing maintenance will continue to be a function of the Planning Partnership. The Planning Partnership will review the plan and accept public comment as part of an annual review and as part of five-year mitigation plan updates.

A notice regarding annual updates of the plan will be publicized annually after the HMP Committee's annual evaluation and posted on the public web site.

Captain Edward Esposito of the Essex County OEM is identified as the ongoing County All Hazard Mitigation Plan Coordinator (see Section 7), and is responsible for receiving, tracking, and filing public comments regarding this plan. Contact information is:

Name: Captain Edward Esposito
Email Address: essexoem@essexsheriff.com