

# 6 Markham 2021 MJ-HMP Jurisdictional Annual Report

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**Annual Reporting Year:** 2021

**Background:** Cook County and participating municipalities in the county developed a hazard mitigation plan to reduce risk from all hazards by identifying resources, information, and strategies for risk reduction. The federal Disaster Mitigation Act of 2000 requires state and local governments to develop hazard mitigation plans as a condition for federal disaster grant assistance. To prepare the plan, the participating partners organized resources, assessed risks from natural hazards within the county, developed planning goals and objectives, reviewed mitigation alternatives, and developed an action plan to address probable impacts from natural hazards. By completing this process, these jurisdictions maintained compliance with the Disaster Mitigation Act, achieving eligibility for mitigation grant funding opportunities afforded under the Robert T. Stafford Act.

**Purpose:** The purpose of this report is to provide an annual update on the implementation of the action plan identified in the Cook County Multi-Jurisdictional Hazard Mitigation Plan. The objective is to ensure that there is a continuing and responsive planning process that will keep the Hazard Mitigation Plan dynamic and responsive to the needs and capabilities of the partner jurisdictions. This report discusses the following:

- Natural hazard events that have occurred within the last year
- Changes in risk exposure within the planning area (all of Cook County) Mitigation success stories
- Review of the action plan
- Changes in capabilities that could impact plan implementation
- Recommendations for changes/enhancement.

## Hazard Analysis

Hazards that represent a county-wide risk are addressed in the Risk Assessment section of the 2019 Cook County Multi-Jurisdictional Hazard Mitigation Plan Update. This section only addresses the hazards and their associated impacts that are **relevant** and **unique** to the municipality.

**Flood:** In the town of Wilmette the McKenzie Elementary School's entire first floor was flooded when 2.75 inches of rain fell in a very short time. School was canceled the next day due to cleanup. In Berwyn very heavy rains caused urban flooding throughout the community with all major intersections under water for nearly four hours.

**Severe Weather/Severe Winter Weather:** These storms moved east-northeast at 40 to 45 MPH, with several communities reporting heavy rains, dangerous lightning, strong winds and widespread hail.

**Widespread Power Outage:** September 11, 2000 - The strong winds tore down many trees and power lines across northern Illinois during the afternoon, and by 5:00 PM the Winnebago County Authorities reported that nearly 35,000 ComEd customers were without power, with some not being restored until the following morning.

## Natural Hazard Events in 2021

**Instructions:** Please use the **Edit** Tool to describe new hazard occurrences/incidents from the past year that have impacted your jurisdiction and had a measurable impact on people or property. (Example: A tornado occurred on [Date] and impacted [insert area] and caused damage to [insert damages]). You may also use the Edit Tool to suggest any modifications/improvements to the hazards unique to your community, as described below from the 2019 plan.

Describe 2021 Natural Hazard Events Here: [Type Here]

## Mitigation Strategies and Actions

The heart of the mitigation plan is the mitigation strategy, which serves as the long-term blueprint for reducing the potential losses identified in the risk assessment. The mitigation strategy describes how the community will accomplish the overall purpose, or mission, of the planning process.

## New Mitigation Actions

Please submit [here](#)

## Ongoing Mitigation Actions

The following are ongoing actions. During the 2019 update, these "ongoing" mitigation actions and projects were modified and/or amended, as needed. Reviewers of this report should refer to the Hazard Mitigation Plan for more detailed descriptions of each action and the prioritization process. Address the following for each mitigation action:

- Was any element of the action carried out during the reporting period?
- If no action was completed, why?
- Is the timeline for implementation or the action still appropriate?
- If the action was completed, does it need to be changed or removed from the action plan?

**TABLE: HAZARD MITIGATION ACTION PLAN MATRIX**

Completion status legend: N = New      O = Action Ongoing toward Completion C = Project Completed      R = Want Removed from Annex      X = No Action Taken								
2021 Status	2020 Status	2019 Status	Hazards Mitigated	Objectives Met	Lead Agencies	Estimated Cost	Sources of Funding	Timeline/Projected Completion Date (a)
<b>Action M1.1</b> —Form partnership between local, state, tollway, and regional entities to help expand resources and improve floodplain management coordination by developing a stormwater committee that meets regularly to discuss issues and recommend projects.								
<b>Status Description:</b>								
O		Ongoing	Flood, Severe Weather	1, 3, 8	City of Markham	Low	General Fund	Ongoing
<b>Action M1.2</b> —Develop and maintain a database to track community vulnerabilities/exposure to known hazard areas.								
<b>Status Description:</b>								
O		Ongoing	All	1, 5, 6	City of Markham	High	General Revenue	Short-term
<b>Action M1.3</b> —Incorporate a GIS system								
<b>Status Description:</b>								
O		Ongoing	All	3, 4,10	City of Markham	Medium	General Revenue, Grants	Short-term
<b>Action M1.4</b> —Improve sewer capacity for stormwater.								
<b>Status Description:</b>								
O		Ongoing	Flood, Severe Weather	1, 2, 9, 13	City of Markham	\$1,500,000; Medium	Grant, General Revenue	Short-term
<b>Action M1.5</b> —Improve sewer capacity								
<b>Status Description:</b>								
O		Ongoing	Flood, Severe Weather, Severe Winter Weather	1, 2, 9, 13	City of Markham	\$10,000,000; Medium	IEPA Grants	Ongoing
<b>Action M1.6</b> —Increase the capacity of existing stormwater detention								
<b>Status Description:</b>								
O		Ongoing	Flood, Severe Weather, Severe Winter Weather	1, 2, 9, 13	City of Markham	High	Grants	Ongoing and Long-term
<b>Action M1.7</b> —Complete Stormwater drainage study.								
<b>Status Description:</b>								
X		Ongoing	Flood, Severe Weather, Severe Winter Weather	1, 3, 10	City of Markham	\$100,000; Low	Grant, General Revenue	Ongoing
<b>Action M1.8</b> —Emergency Preparedness Information.								
<b>Status Description:</b>								
O		Ongoing	Severe Winter Weather	1, 5, 8	City of Markham	\$25,000; Low	General Revenue	Ongoing
<b>Action M1.9</b> —Relocation of Structures in hazard-prone areas								
<b>Status Description:</b>								
O		Ongoing	All	7, 13	City of Markham	High	FEMA Hazard Mitigation Grants	Long-term (depending on funding)
<b>Action M1.10</b> —Comprehensive Plan - Hazardous Mitigation								
<b>Status Description:</b>								
O		Ongoing	All	All	City of Markham	Low	General Fund	Short-and long-term
<b>Action M1.11</b> —Plan Maintenance Strategy								
<b>Status Description:</b>								

O		Ongoing	All	3, 4, 6	DHSEM City of Markham	Low	General Fund	Short-term
<b>Action M1.12</b> —Community Rating System (CRS) participation.								
<b>Status Description:</b>								
O		Ongoing	All	3, 4, 5, 6, 7, 9, 10, 11, 13	City of Markham	Low	General Fund	Long-term
<b>Action M1.13</b> —NFIP - good standing								
<b>Status Description:</b>								
O		Ongoing	Flooding	4, 6, 9	City of Markham	Low	General Fund	Short-term and ongoing
<b>Action M1.14</b> —Record High Water Marks								
<b>Status Description:</b>								
O		Ongoing	Flooding, Severe Weather	3, 6, 9	City of Markham	Medium	General Fund, FEMA Grant Funds (Public Assistance)	Long-term
<b>Action M1.15</b> —Integrate the Hazard Mitigation Plan								
<b>Status Description:</b>								
O		Ongoing	All	3, 4, 6, 10, 13	City Engineer, Economic Development, Public Works	Low	General Fund	Short-term
<b>Action M1.16</b> —Capital Improvements Program (CIP)								
<b>Status Description:</b>								
O		Ongoing	All	1, 2, 7	Public Works	High	CIP component of general fund (if implemented)	Long term
<b>Action M1.17</b> —Provide onsite backup power sources for all Village lift stations								
<b>Status Description:</b>								
C		New	Flood, Widespread Power Outage, Secondary Impacts from Mass Influx of Evacuees	1, 2, 7	City of Markham	\$800,000; High	MWRD and Cook County grants	2021
<b>Action M1.18</b> —Streambank Stabilization along Calumet Union Drainage Ditch								
<b>Status Description:</b>								
C		New	Flood	2, 9, 12, 13	MWRD	\$2,109,036	MWRD	Long-term
(a) Ongoing indicates continuation of an action that is already in place. Short-term indicates implementation within five years. Long-term indicates implementation after five years.								

**Mitigation Success Stories:** Examples of mitigation success stories include, but are not limited to: received a Grant, completed a major mitigation project, etc. Completed the Streambank Stabilization along the Calumet Union Drainage Ditch in Q4 as well as the (2) two Village lift stations here in the City of Markham, IL.

**Future Needs:** Examples of future needs include, but are not limited to: receiving training to better understand the mitigation grant application process, studies that may be needed to better understand hazards/risks, etc. More training, technical asst etc.,