

6 Northlake 2021 MJ-HMP Jurisdictional Annual Report

Primary Point of Contact

Norman Nissen, Jr., Chief of Police
55 E. North Ave.
Northlake, IL 60164
Telephone: 708-531-5755
Email Address: nnissen@northlakecity.com

Alternate Point of Contact

Jeffrey Sherwin, Mayor
55 E. North Ave.
Northlake, IL 60164
Telephone: 708-343-8700
Email Address: northlakemayor@comcast.net

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.

Dam/Levee Failure: All roadways and schools near Addison Creek Retention Pond - "Northlake Reservoir" near West Leyden within the City are vulnerable to dam/levee failure.

Flood: Within the City, all roadways near viaducts - those are. US Rt 64, US Rt 20, I-294 (viaduct), US Rt 45 at US Rt 64, Grand Ave viaduct - are susceptible to flooding.

Lightning: The City, does not have generators for power outages in the event of severe lightning.

High Winds: The City requires a substantial tree removal program following high wind events. In 2007, powerful and damaging thunderstorms moved across northern Illinois producing widespread wind damage. The most intense wind damage occurred along a path which began in far western Dupage County near the intersection of Roosevelt Road and Washington Street in West Chicago and continued east through the northern portions Lombard and Glen Ellyn, into Northlake, then across the north side of Chicago to the Lake Michigan Shore near Montrose Harbor.

Earthquake: The City would require bridge/roadway improvements following earthquakes.

Snow: In the event of snow events, the Village requires warming shelters support.

Blizzards: In the event of blizzards, the Village requires warming shelters support.

Extreme Cold: In the event of extreme cold events, the Village requires warming shelter support.

Tornado: The Village would benefit from cleaning support following tornadoes.

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)
Action N5.1 —Consider participation in the Community Rating System.								
Status Description:								
O	O	O	Flood	3, 4, 5, 6, 7, 9, 10, 11, 13	Building	Low	General revenue	Long-term
Action N5.2 —Remove Addison Creek dam at Grant Park.								
Status Description:								
R	C	C	Dam Failure, Flood	1, 9, 13	Building	High	Bonds, General Revenue, CIP, Grants	Completed
Action N5.3 —Support County/Statewide/Federal all hazard initiatives.								
Status Description:								
O	O	O	All Hazards	1, 8	Police, Planning	Low	City	Long-term
Action N5.4 —Where appropriate, support retrofitting, purchase, or relocating of structures located in hazard prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority.								
Status Description:								
O Purchased and removed 2 properties from flood plan	O	O	Flood	7, 13	Building, Planning, PW	High	FEMA Hazard Mitigation Grants, Local Funds	Long-term
Action N5.5 —Maintain good standing under the National Flood Insurance Program by implementing programs that meet or exceed the minimum NFIP requirements. Such programs include enforcing an adopted flood damage prevention ordinance, participating in floodplain mapping updates, and providing public assistance and information on floodplain requirements and impacts.								
Status Description:								
C	C	C	Flood	4, 6, 9	Building	Low	General revenue	Completed
Action N5.6 —Implement recommendations identified in the City of Northlake Comprehensive plan of 2013 and other comprehensive flood hazard management plans.								
Status Description:								
O	O	O	All	3, 4, 6, 10, 13	PW/Building	High	General revenue	Ongoing
Action N5.7 —Inform and educate the public on hazard mitigation preparedness via local newspapers and envelope stuffers.								
Status Description:								
O	C	C	All Natural Hazards	6, 8	City	Low	City	Completed
Action N5.8 —Install all Tornado warning system on northwestern boundaries of city.								
Status Description:								
O	O	O	Tornado	1, 5	City	Med	Grant	Long-term
Action N5.9 —Continue to participate in general mutual-aid agreements with adjoining jurisdictions for cooperative response to all hazard and disasters.								
Status Description:								

O	C	C	All Natural Hazards	1, 8	Police Dept., Fire Dept.	Low	General revenue	Completed
Action N5.10 —Replace existing failed drainage systems with adequately sized drainage systems.								
Status Description:								
O	O	C	Flood	1, 2, 9	Building, MWRD	High	Grants, MWRD Phase-II, Bonds, CIP	Completed
Study being conducted in 2021								
Action N5.11 —Identify and Replace/Retrofit vulnerable bridges and roadways within municipality.								
Status Description:								
O	O	O	Flood	1, 2	Police, Planning	High	Local Funds, Grants	Long-term
Complete upgrad of Roy Ave. bridge. Parkview bridge in progress								
Action N5.12 —Where appropriate, provide soil stabilizations for existing wetlands or flood prone properties								
Status Description:								
O	O	C	Flood	1, 9, 13	Building, Planning, PW	High	Grant	Completed
Installation of a Bioswale to mitigate storm runoff.								
Action N5.13 —Develop department continuity of operations plans for all city departments.								
Status Description:								
O	O	O	All Natural Hazards	1, 8	PW	Low.	City	Long-term
Action N5.14 —Seek land acquisition opportunities for open space use and preservation in areas of high vulnerability due to multiple risk exposure.								
Status Description:								
O	O	O	All Natural Hazards	1, 7, 13	Planning	High	Grant	Long-term
Purchased and removed 3 properties from flood plan. 307 and 309 S. 46th. Also purchased 128 Diversey. 1 Property pending purchase at 10104 Derrough Ave								
Action N5.15 —Develop program of overhead check valve/overhead sewer system to mediate basement flooding								
Status Description:								
O	O	O	Flood	1, 7	PW	Med		Completed
Action N5.16 —Continue to support the countywide actions identified in this plan.								
Status Description:								
O	O	O	All	All	City	Low	General Fund	Short- and long-term
Action N5.17 —Actively participate in the plan maintenance strategy identified in this plan.								
Status Description:								

O	O	O	All	3, 4, 6	DHSEM, City	Low	General Fund	Long-term
Action N5.18 —Decrease flooding at railroad viaducts in Northlake.								
Status Description:								
O	O	New	Flood	2, 3, 13	City of Northlake	High	Federal, State and County Grants	2022
New tollway and county project taking place.								
Action N5.19 —#1 - Roadway flash flooding at viaducts (runoff from train tracks); #2 - Green infrastructures were needed along railroad tracks or other project areas - Green Alley Program.								
Status Description:								
O	O	New	Flood, Hazardous Materials Incident	2, 3, 13	Clooney/ MWRDGC/ IDOT/ Railroad	High	Clooney/ MWRDGC/ IDOT/ Railroad	2022
New tollway and county project taking place.								
Action N5.20 —Addison Creek Wetland Restoration Project								
Status Description:								
R	C	C	Flood	2, 3, 13	MWRD	\$4,544,450; High	Local/MWRD	Completed
Action N5.21 —Northlake Flood-Prone Property Acquisition								
Status Description:								
O	O	O	Flood	2, 3, 13	MWRD	\$1,184,018; High	Local/MWRD	Completed
Action N5.22 —Implement the Streambank Stabilization along Addison Creek - Phase I								
Status Description:								
O	O	New	Flood	2, 3, 13	MWRD	\$998,696; High	Unknown	Completed 2020
Action N5.23 —Implement the Addison Creek Channel Improvements								
Status Description:								
O	O	New	Flood	2, 3, 13	MWRD	\$43,400,000; High	Unknown	Completed 2020
Action N5.24 —Covid-19 Vaccine Distribution Site								
Status Description:								
R	Complete	N/A	Epidemic or Pandemic		Northlake Police Department	\$25,000; High	State and Federal Sources	2021
(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.

The city received a private grant from Microsoft for the installation of a Bioswale to mitigate storm runoff from a large city owned parking lot into Addison Creek.

Future Needs: Receiving training to better understand the mitigation grant application process, funding for studies that may be needed to better understand flood hazards/risks etc.

6.1 Action N5.24

Mitigation Action	Covid-19 Vaccine Distribution Site
Year Initiated	2020
Applicable Jurisdiction	Northlake Police Department
Lead Agency/Organization	Northlake Police Department
Supporting Agencies/Organizations	Northlake Police Department
Applicable Goal	<ul style="list-style-type: none"> • Develop and implement sustainable, cost-effective, and environmentally sound risk-reduction (mitigation) projects. • Protect the lives, health, safety, and property of the citizens of Cook County from the impacts of natural hazards. • Protect public services and critical facilities, including infrastructure, from loss of use during natural hazard events. • Involve stakeholders to enhance the local capacity to mitigate, prepare for, and respond to the impacts of natural hazards. • Develop, promote, and integrate mitigation action plans. • Promote public understanding of and support for hazard mitigation.
Potential Funding Source	State and Federal
Estimated Cost	\$25,000
Benefits (loss avoided)	Unknown
Projected Completion Date	2021
Priority and Level of Importance (Low, Medium, High)	High Priority
Benefit Analysis (Low, Medium, High)	High—Project will provide an immediate reduction of risk exposure for life and property.
Cost Analysis (Low, Medium, High)	High—Existing funding will not cover the cost of the project; implementation would require new revenue through an alternative source (for example, bonds, grants, and fee increases).
Actual Completion Date	

Recommended Mitigation Action/Implementation Plan and Project Description

Action/Implementation Plan and Project Description:	Planning, staffing and operation of a multi-jurisdictional covid-19 vaccine distribution site. We can provide partnership with site management, security and traffic flow. We need the medical staff to administer the vaccine.
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Mitigation Action and Project Maintenance

Year	Status	Comments
2019		
2020	New	
2021		Covid-19 Vaccine Distribution Site West Leyden Windstorms during summer
2022		
2023		

Mitigated Hazards

All Hazards	
	Dam/Levee Failure
	Drought
	Earthquake
	Flood
	Extreme Heat
	Lightning
	Hail
	Fog
X	High Wind
	Snow
	Blizzard
	Extreme Cold
	Ice Storms
	Tornado
X	Epidemic or pandemic
	Nuclear Power Plant Incident
	Widespread Power Outage
	Coastal Erosion
	Secondary Impacts from Mass Influx of Evacuees
	Hazardous Materials Incident

6.2 Action N5.25

Mitigation Action	The city installed a Bioswale to mitigate storm runoff into Addison Creek.
Year Initiated	2021
Applicable Jurisdiction	City of Northlake
Lead Agency/Organization	City of Northlake
Supporting Agencies/Organizations	-
Applicable Goal	<ul style="list-style-type: none"> • Develop and implement sustainable, cost-effective, and environmentally sound risk-reduction (mitigation) projects. • Protect the lives, health, safety, and property of the citizens of Cook County from the impacts of natural hazards. • Protect public services and critical facilities, including infrastructure, from loss of use during natural hazard events. • Develop, promote, and integrate mitigation action plans. • Promote public understanding of and support for hazard mitigation.
Potential Funding Source	Grants
Estimated Cost	\$50,000
Benefits (loss avoided)	The city installed a Bioswale to mitigate storm runoff into Addison Creek.
Projected Completion Date	June 2021
Priority and Level of Importance (Low, Medium, High)	Medium Priority
Benefit Analysis (Low, Medium, High)	Medium—Project will have a long-term impact on the reduction of risk exposure for life and property, or project will provide an immediate reduction in the risk exposure for property.
Cost Analysis (Low, Medium, High)	Medium—The project could be implemented with existing funding but would require a re-apportionment of the budget or a budget amendment, or the cost of the project would have to be spread over multiple years.
Actual Completion Date	-

Recommended Mitigation Action/Implementation Plan and Project Description

Action/Implementation Plan and Project Description:	The city received private grant funding for the installation of a Bioswale to mitigate storm runoff from a large city owned parking lot into Addison Creek.
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Mitigation Action and Project Maintenance

Year	Status	Comments
2019		
2020		
2021	New	
2022		
2023		

Mitigated Hazards

All Hazards	
	Dam/Levee Failure
	Drought
	Earthquake
X	Flood
	Extreme Heat
	Lightning
	Hail
	Fog
	High Wind
	Snow
	Blizzard
	Extreme Cold
	Ice Storms
	Tornado
	Epidemic or pandemic
	Nuclear Power Plant Incident
	Widespread Power Outage
	Coastal Erosion
	Secondary Impacts from Mass Influx of Evacuees
	Hazardous Materials Incident