

## Burnham

### Hazard Mitigation Plan Point of Contact

Primary Point of Contact	Alternate Point of Contact	Alternate Point of Contact
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### Jurisdiction Profile

The following is a summary of key information about the jurisdiction and its history:

**Date of Incorporation:** February 8, 1907

**Current Population:** The 2021 U.S. Census estimate indicated the population was 3,989. ([City-Data](#))

**Population Growth:** The overall population has decreased 3.16 percent between 2018 and 2021.

**Location and Description:** Burnham is bordered by Chicago to the north, Calumet City to the south and west, and Hammond, Indiana, to the east. The Village of Burnham links the southern suburbs to the neighboring State of Indiana and the City of Chicago. The Village is conveniently located next to large tracts of forest preserves and the Little Calumet River. There are two sections of Burnham. The westernmost section surrounds Torrence Avenue, a north-south street. Torrence Avenue leaves this part of Burnham via a bridge, with Chicago on the other side. The eastern section surrounds Burnham Avenue, another north-south street. This section of Burnham ends at Brainard Avenue, where the Hegewisch neighborhood of Chicago lies on the other side. Upon entering Chicago, Burnham Avenue becomes Avenue O. Burnham has a total land area of 1.87 square miles.

**Brief History:** In 1883 a group of investors including George Pullman hired Telford Burnham to develop a commercial and residential plan for the point where the branches of the Calumet River meet before flowing north to Lake Calumet and Lake Michigan. The investors were aware of the growing steel industries across the Calumet Region. The Hammond Lumber Company had just built 500 feet of dock for shipping. For 40 years, from 1908 to 1948, the history of Burnham was tied to the activities of its mayor, John Patton. When first elected, “Johnny” Patton was the youngest mayor in Illinois. Over the years, he developed the clout to bring Chicago water and sewer services into Burnham along with “pleasure-loving people.” Early in its development, the village of Burnham created a public golf course on its eastern edge as an added attraction for its amusement seekers.

This continues today as Burnham Woods, a public course owned and operated by the Forest Preserve District of Cook County.

**Climate:** The Village of Burnham gets 35 inches of rain and 26 inches of snow per year. The average US city gets 37 inches of rain and 25 inches of snow per year. The number of days with any measurable precipitation is 118 and there are 192 sunny days per year in Burnham, on average. The July high is around 84 degrees and the January low is 16. Our comfort index, which is based on humidity during the hot months, is a 46 out of 100, where higher is more comfortable. The US average on the comfort index is 44.

**Governing Body Format:** The Village of Burnham is governed by a Mayor/President, Village Clerk and 6 Trustees. This body will assume the responsibility for the adoption and implementation of this plan. The Village consists of a Clerks Office, Police Department, Fire Department, a Public Works Department, Water and Sewer Department, and Building Department.

**Development Trends:** Currently, the Village is almost equally divided between residential and industrial districts, whereby, commercial areas exist on Torrence Avenue, State Street, and Burnham Ave. One point six (1.6) miles are zoned industrial, while on point nine (1.9) miles of land are zoned as residential sites. Two areas make up the residential portions of Village – one on the east side of the Village, and one on the west. The older area is on the east side of the Village where the Village Hall was previously located. The newer homes are on the west side of the Village, which was built up considerably after World War II in the fifties and into the present time. This area is larger than the old section of the Village and this is where the new Village Hall/police facility is now located. This new Village Hall opened in 1985 and the new police station addition opened in 2007.

**Changes in Community Priorities:** There have been no significant changes in priority regarding the hazards that could potentially impact the community or changes in priority regarding resilience.

## Capability Assessment

The assessment of the jurisdiction's legal and regulatory capabilities is presented in the *Legal and Regulatory Capability Table* below. The assessment of the jurisdiction's fiscal capabilities is presented in the *Fiscal Capability Table* below. The assessment of the jurisdiction's administrative and technical capabilities is presented in *Administrative and Technical Capability Table* below. Information on the community's National Flood Insurance Program (NFIP) compliance is presented in the *National Flood Insurance Program Compliance Table* below. Classifications under various community mitigation programs are presented in the *Community Classifications Table* below.

TABLE: LEGAL AND REGULATORY CAPABILITY					
	Local Authority	State or Federal Prohibitions	Other Jurisdictional Authority	State Mandated	Comments
<b>Codes, Ordinances &amp; Requirements</b>					
Building Code	Yes	No	No	Yes	Ord. No. 76-O-005, art. I, § 101, 8-251976

Zonings	Yes	No	No	Yes	Ord. No. 80-O-009, § 1.C, 8-23-1980
Subdivisions	No	No	No	No	
Stormwater Management	Yes	No	Yes	Yes	State regulates industrial activity from Construction sites 1 acre or larger under section 402 CWA. Ord. No. 63-O-010, § 1
Post Disaster Recovery	No	No	No	No	
Real Estate Disclosure	No	No	Yes	Yes	(765 ILCS 77/) Residential Real Property Disclosure Act
Growth Management	No	No	No	No	
Site Plan Review	Yes	No	No	No	Ord. No. 94-O-004, § 1000, 8-23-1994
Public Health and Safety	No	No	Yes	Yes	Cook County Board of Health
Environmental Protection	No	No	No	No	
<b>Planning Documents</b>					
General or Comprehensive Plan	No	No	No	No	
<i>Is the plan equipped to provide integration to this mitigation plan?</i>					N/A
Floodplain or Basin Plan	No	No	No	No	
Stormwater Plan	No	No	Yes	No	MWRD Detailed Watershed Plan
Capital Improvement Plan	No	No	No	No	
<i>What types of capital facilities does the plan address?</i>					N/A
<i>How often is the plan revised/updated?</i>					N/A

Habitat Conservation Plan	No	No	No	No	
Economic Development Plan	No	No	Yes	Yes	The Economic Development Commission is charged with reviewing all economic development related programs and incentives including tax incentives offered through the Cook County 6b program.
Shoreline Management Plan	No	No	No	No	
<b>Response/Recovery Planning</b>					
Comprehensive Emergency Management Plan	No	No	Yes	Yes	Cook County EMRS
Threat and Hazard Identification and Risk Assessment	No	No	Yes	No	Cook County EMRS Preparing THIRA
Terrorism Plan	No	No	Yes	Yes	Cook County EMRS
Post-Disaster Recovery Plan	No	No	No	No	Cook County EMRS
Continuity of Operations Plan	No	No	Yes	No	Cook County EMRS
Public Health Plans	No	No	Yes	No	Cook County DPH

<b>TABLE: FISCAL CAPABILITY</b>	
<b>Financial Resources</b>	<b>Accessible or Eligible to Use?</b>
Community Development Block Grants	Yes
Capital Improvements Project Funding	No
Authority to Levy Taxes for Specific Purposes	Yes
User Fees for Water, Sewer, Gas or Electric Service	Yes

Incur Debt through General Obligation Bonds	Yes
Incur Debt through Special Tax Bonds	Yes
Incur Debt through Private Activity Bonds	Yes
Withhold Public Expenditures in Hazard-Prone Areas	Yes
State Sponsored Grant Programs	Yes
Development Impact Fees for Homebuyers or Developers	Yes
Other	Yes

<b>TABLE: ADMINISTRATIVE AND TECHNICAL CAPABILITY</b>		
<b>Staff/Personnel Resources</b>	<b>Available?</b>	<b>Department/Agency/Position</b>
Planners or engineers with knowledge of land development and land management practices	Yes	Engineering Consultant, Public Works, Department of Buildings
Engineers or professionals trained in building or infrastructure construction practices	Yes	Engineering Consultant, Public Works, Department of Buildings
Planners or engineers with an understanding of natural hazards	Yes	Engineering Consultant
Staff with training in benefit/cost analysis	Yes	Engineering Consultant
Surveyors	Yes	Engineering Consultant
Personnel skilled or trained in GIS applications	Yes	Engineering Consultant, All partners have access to Cook County GIS Consortium as a technical resource.
Scientist familiar with natural hazards in local area	No	
Emergency manager	Yes	Fire Chief
Grant writers	Yes	Engineering Consultant

<b>TABLE: NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE</b>	
What department is responsible for floodplain management in your jurisdiction?	Public Works
Who is your jurisdiction's floodplain administrator? (department/position)	Public Works
Are any certified floodplain managers on staff in your jurisdiction?	Engineering Consultants
What is the date of adoption of your flood damage prevention ordinance?	N/A
When was the most recent Community Assistance Visit or Community Assistance Contact?	11/14/1996
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? If so, please state what they are.	No
Do your flood hazard maps adequately address the flood risk within your jurisdiction? (If no, please state why)	Yes
Does your floodplain management staff need any assistance or training to support its floodplain management program? If so, what type of assistance/training is needed?	Yes
Does your jurisdiction participate in the Community Rating System (CRS)? If so, is your jurisdiction seeking to improve its CRS Classification? If not, is your jurisdiction interested in joining the CRS program?	No, but would be interested in joining

### **NFIP Participation Activities**

Maintaining compliance under the NFIP is an important component of flood risk reduction. All planning partners that participate in the NFIP have identified actions to maintain their compliance and good standing. Cook County entered the NFIP on April 15, 1981. Structures permitted or built in the County before then are called “pre-FIRM” structures, and structures built afterwards are called “post-FIRM.” The insurance rate is different for the two types of structures. The effective date for the current countywide FIRM is August 19, 2008. This map is a DFIRM (digital flood insurance rate map). The communities in Cook County that participate in the NFIP are shown in **Table: NFIP Participating Communities in Cook County** in **Volume I** of the Cook County MJ-HMP.

The NFIP makes federally-backed flood insurance available to homeowners, renters, and business owners in participating communities. The communities in Cook County that participate in the NFIP and their "Policies in Force," "Total Coverage," and "Total Written Premiums" are shown in **Table: Cook County Flood Insurance Policies** in **Volume I** of the Cook County MJ-HMP.

### **Substantial Improvement Rule and the Substantial Damage Rule**

The IDNR/OWR has developed a model ordinance for floodplain management, which has been adopted by most communities in Illinois. The ordinance includes the minimum requirements an NFIP participating jurisdiction must adopt and enforce, as well as additional higher regulatory requirements. The optional, higher regulatory standards include a minimum one foot of freeboard above the base flood elevation and cumulative tracking of damage repairs and improvements to establish substantial damage and substantial improvement compliance. Some jurisdictions have chosen to exceed the requirements of the model ordinance and have adopted more restrictive ordinances. This is most common in the communities in northeastern Illinois.

#### *Existing Municipal Code:*

##### Sec. 42-32 Definitions

*Substantial improvement* means any repair, reconstruction rehabilitation, addition or improvement of a structure, the cost of which equals or exceeds 50 percent of the market value of the structure either before the improvement or repair is started, or if the structure has been damaged from any source, and is being restored, before the damage occurred. This term includes structures which were damaged whereby the cost of restoring the structure to its predamaged condition would equal or exceed 50 percent of the market value before the damage occurred, regardless of the actual repair work performed. For the purposes of this definition, "substantial improvement" is considered to occur when the first alteration of any wall, ceiling, floor, or other structural part of the building commences, whether or not that alteration affects the external dimensions of the structure. The term "substantial improvement" does not, however, include either:

- (1) Any project for improvement of a structure to comply with existing state or local health, sanitary, or safety code specifications which are solely necessary to ensure safe living conditions; or
- (2) Any alteration of a historic structure, provided that the alteration will not preclude the structure's continued designation as a historic structure.

Their ordinance did not include substantial improvement / substantial damage rule provisions; future updates will consider inclusion of these rules as applicable and as appropriate.

<b>TABLE: COMMUNITY CLASSIFICATIONS</b>			
	<b>Participating?</b>	<b>Classification</b>	<b>Date Classified</b>
Community Rating System	No	N/A	N/A
Building Code Effectiveness Grading Schedule	Yes	Unknown	Unknown
Public Protection/ISO	Yes	Unknown	Unknown
StormReady	Yes	Gold (Countywide)	2014
Tree City USA	No	N/A	N/A

### **Opportunities to Expand and Improve Capabilities**

Opportunities to expand and improve capabilities include;

- Grant writing.
- Ordinance updating.
- Assisting in funding for local match on grants.

### **Plan Integration**

The capability assessment describes opportunities to "link" or integrate the mitigation plan into other planning mechanisms. The process and mechanism to identify opportunities to integrate the Cook County MJ-HMP into other planning mechanisms will occur during the Annual Update Process and be reflected in the Jurisdictional Annual Report each year. Specific plan integration opportunities will include:

- The hazards, goals, and actions of the Hazard Mitigation Plan will be considered in the next update of the jurisdiction's land use plans, zoning, and subdivision codes.

### **Emergency Plan Integration:**

Cook County EMRS is supporting communities to develop and update their respective Emergency Operations Plans, Continuity of Operations Plan/Continuity of Government Plan, and Recovery Plan in 2024. This is an ongoing countywide initiative and is being implemented in all municipalities.

### **Emergency Operations Plan (EOP)**

An EOP template was created for all municipalities. The 2019 Cook County MJ-HMP and the hazards in the mitigation plan have been integrated into the Situation and Assumptions section of the EOP. Within that section, the natural hazards based on the 2019 MJ-HMP were added in the Initial Analysis and Assessment and Identification of Hazards section of the EOP. The hazards in the 2019 plan and the 2024 MJ-HMP did not change apart from adding wildfires for the Forest Preserve and unincorporated areas of the County. Future updates of the EOP will take into consideration any additional new natural hazards that are added to subsequent updates to the MJ-HMP.

### **Continuity of Operations Plan (COOP)**

The Continuity of Operations Plan (COOP) for the municipality includes a Situation section that is based on the 2019 Cook County MJ-HMP jurisdictional annex, and specifically the hazards identified

in the annex. The COOP-specific risk assessment is hazard-specific and based on likelihood of occurrence and severity of impact.

#### Recovery Plan

The goals of the Recovery Plan were developed to align with the 2019 Cook County MJ-HMP, and specifically prioritizes the responsibility of officials under this plan to save lives, protect property, relieve human suffering, sustain survivors, repair essential facilities, restore services, and protect the environment. The plan acknowledges that hazard mitigation is an important priority and consideration during the rebuilding process.

### **Jurisdiction-Specific Natural Hazard Event History**

The information provided below was solicited from the jurisdiction and supported by NOAA and other relevant data sources.

The *Natural Hazard Events Table* lists all past occurrences of natural hazards within the jurisdiction. Repetitive flood loss records are as follows:

- Number of FEMA-Identified Repetitive Loss Properties: 0
- Number of FEMA-Identified Severe Repetitive Loss Properties: 0
- Number of Repetitive Flood Loss/Severe Repetitive Loss Properties That Have Been Mitigated: 0

#### **Federal Disasters Declared**

Disaster Declaration Number	Date Declared	Event
DR-227	4/25/1967	Tornado
DR-351	9/4/1972	Flood
DR-373	4/26/1973	Flood
DR-509	6/18/1976	Severe Storm(s)
DR-643	6/30/1981	Severe Storm(s)
DR-776	10/7/1986	Flood
DR-798	8/21/1987	Flood
DR-997	7/9/1993	Flood
DR-1129	7/25/1996	Severe Storm(s)
DR-1188	9/17/1997	Severe Storm(s)
DR-1729	9/25/2007	Severe Storm(s)
DR-1800	10/3/2008	Severe Storm(s)
DR-1935	8/19/2010	Severe Storm(s)
DR-1960	3/17/2011	Snow
EM-3068	1/16/1979	Snow
EM-3134	1/8/1999	Snow
EM-3161	1/17/2001	Snow
EM-3230	9/7/2005	Hurricane – Katrina Evacuation
EM-3435	3/13/2020	Biological
DR-4116	5/10/2013	Flood
DR-4489	3/26/2020	Biological
DR-4728	8/15/2023	Severe Storm(s)



DR-4749	11/20/2023	Flood
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### State Disaster Declarations

Date Declared	Event
7/26/2010	Severe Storms, High Winds, Torrential Rain
1/31/2011	Winter Weather
4/25/2011 5/25/2011	High Wind, Tornadoes, Torrential Rain
4/18/2013 4/20/2013 4/21/2013 4/25/2013 4/30/2013	Severe Storms, Heavy Rainfall, Flooding, Straight-line Winds
1/6/2014	Heavy Snowfall, Frigid Temperatures
7/12/2017 7/14/2017	Thunderstorms, Heavy Rainfall, Flooding
1/29/2019	Winter Storm
2/6/2020	Severe Storms
3/12/2020 – present (reissued monthly)	COVID-19
2/16/2021	Winter Storms
2/1/2022	Winter Storms
8/1/2022 (reissued monthly through 10/28/2022)	Monkeypox

TABLE: NATURAL HAZARD EVENTS			
Type of Event	FEMA Disaster Number (if applicable)	Date	Preliminary Damage Assessment/ Event Narrative
Hail	-	7/13/2015	-
Hail	-	5/11/2014	-
Severe Storms, Straight-Line Winds, Flooding	DR-4116	4/26/2013	-
Severe Winter Snowstorm	DR-1960	1/31/2011	-
Severe Storms and Flooding	DR-1935	7/19/2010	-
Severe Storms and Flooding	DR-1800	9/13/2008	-
Severe Storms and Flooding	DR-1729	8/20/2007	-
Illinois Flooding	DR-1188	8/16/1997	-
Illinois Flooding	DR-1129	7/17/1996	-

### Jurisdiction-Specific Hazards: Vulnerabilities and Impacts

Hazards that represent a county-wide risk are addressed in the Risk Assessment section of the 2024 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.

**Drought:** Due to multiple forest preserves and wildland/brush fires over the years, drought elevates the risk for these hazards which creates hazardous conditions for our residents including those with pulmonary issues.

**Flooding:** Burnham is located within and nearby moderate and high urban flood susceptibility zones. Severe flooding within Burnham has often been linked to severe weather and remains a mitigation priority. The Village has seen an increase in flooding due to the proximity near the Calumet River, aging infrastructure, and heavy rains continuing in our area that our sewer system cannot keep up with.

**Severe Weather:** Half dollar to golf ball size hail has been reported at Sibley Boulevard and Burnham Avenue as well as 154th Place and Burnham Avenue. Severe storms occur often within Burnham.

**Tornado:** Although available data may not show any tornado events within Burbank specifically, these events have caused notable damage in nearby parts of Cook County. Burnham continues to prepare and mitigate against this hazard. The Village of Burnham has a gap in siren coverage due to the siren coming from an adjacent community. We also have a trailer park that is vulnerable with no safe space for the trailer park residents to go in case of a Tornado

**Earthquake:** Although earthquakes or their effects are not commonly felt in Burnham, earthquakes have happened on several occasions in Illinois over the last few decades. Burnham continues to prepare and mitigate against this hazard. Aging infrastructure including water lines and sewer lines. If any significant earthquake were to occur in our community residents would not be able to be provided with essential needs.

**Severe Weather:** We have a large Nursing home, trailer park, school district, rail, and water way that would be greatly affected by severe weather. Transportation issues, surge protection for the nursing home, and ability to get assistance to residents would be at issue with severe weather.

**Wildfire (Wildfire Smoke):** Due to multiple forest preserves, including the change in the Burnham golf course to a general public forest preserve use the chances of wildland fires, brush fires will greatly increase raising the possibility of health issues including breathable air for our residents and nursing home residents in the Village of Burnham.

Indicator	Number	Percent
Families in poverty	126	15.3%
People with disabilities	305	7.9%
People over 65 years	571	13.9%
People under 5 years	260	6.3%
People of color	3,560	86.4%
Black	2,646	64.2%
Native American	0	0%
Hispanic	910	22.1%
Difficulty with English	40	1%
Households with no car	148	9.2%
Mobile homes	39	2.4%

*Data are from the U.S. Census Bureau, American Community Survey. See methods for more information.*

The community evaluated whether vulnerability, and subsequently the potential impacts, in hazard-prone areas had increased, decreased, or remained the same for each natural hazard identified in this Hazard Mitigation Plan. Climate change, infrastructure expansion, and economic shifts that can affect vulnerability were considered. For example, if planned development is in an identified hazard area or is not built to the updated building codes, it may increase the community's vulnerability to

future hazards and disasters. On the other hand, if development occurred with mitigation practices in place, the vulnerability may have remained the same or decreased. Additionally, shifting demographics were taken into consideration when assessing development trends.

### **Jurisdiction-Specific Climate Change Vulnerability and Impacts**

The table below outlines if climate change, as assessed by the local planning team, has increased or decreased the municipality's vulnerability/exposure, and thereby the potential impacts, to each natural hazard over the past five (5) years (**Current Vulnerability**), and the effect of climate change in the future probability of occurrence and impacts (**Future Vulnerability**) from each natural hazard.

Future studies are needed to better understand the impact of climate change on the community's assets.

Hazard	Vulnerability
<b>Current Vulnerability</b>	
Dam and Levee Failure	Not Applicable
Drought	Increased
Earthquake	Remained the Same
Flood (Riverine, Urban, Shoreline)	Increased
Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds)	Increased
Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold)	Increased
Tornado	Increased
Wildfire (Wildfire Smoke)	Increased

Hazard	Vulnerability
<b>Future Vulnerability</b>	
Dam and Levee Failure	Not Applicable
Drought	Increase
Earthquake	Increase
Flood (Riverine, Urban, Shoreline)	Increase
Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds)	Increase
Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold)	Increase
Tornado	Increase
Wildfire (Wildfire Smoke)	Increase

### **Jurisdiction-Specific Changes (or Expected Changes) in Development Trends in Hazard-Prone Areas**

The table below outlines if development, as assessed by the local planning team, over the past five (5) years (**Current Vulnerability**) has increased or decreased the jurisdiction's vulnerability/exposure, and thereby the potential impacts, to these natural hazards, and the anticipated effects changes in development may have on the future probability of occurrence and impacts (**Future Vulnerability**) from these natural hazards.

Hazard	Vulnerability
<b>Current Vulnerability</b>	

Dam and Levee Failure	Not Applicable
Drought	Remained the Same
Earthquake	Remained the Same
Flood (Riverine, Urban, Shoreline)	Increased
Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds)	Increased
Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold)	Increased
Tornado	Remained the Same
Wildfire (Wildfire Smoke)	Increased

Hazard	Vulnerability
<b>Future Vulnerability</b>	
Dam and Levee Failure	Not Applicable
Drought	No Change is Anticipated
Earthquake	Increase
Flood (Riverine, Urban, Shoreline)	Increase
Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds)	Increase
Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold)	Increase
Tornado	No Change is Anticipated
Wildfire (Wildfire Smoke)	Increase

Our community anticipates that the following major assets may be exposed or vulnerable to any of the natural hazards identified in this Hazard Mitigation Plan:

- Multi-story units
- Multi-unit nursing home
- School districts
- Rail system
- Forest preserve

## Hazard Risk Ranking

The *Hazard Risk Ranking Table* below presents the ranking of the hazards of concern. Hazard area extent and location maps are included at the end of this chapter. These maps are based on the best available data at the time of the preparation of this plan, and are considered to be adequate for planning purposes.

<b>TABLE: HAZARD RISK RANKING</b>	
Rank	Hazard Type
1	Flood
2	Severe Weather
3	Severe Winter Weather
4	Tornado
5	Earthquake
6	Drought

7	Dam Failure
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## New Mitigation Actions

The following are new mitigation actions created during the 2024 update.

### Action B - 15.18

Mitigation Action #B - 15.18: Education and Awareness Programs for Extreme Temperatures					
<b>Lead Agency/Department Organization:</b> Village of Burnham Administration	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> Medium	<b>Potential Funding Source:</b> General Fund, Hazard Mitigation Grant Program (HMGP) FEMA Public Assistance (PA) Application of Grants and working into our Fiscal Year Budgets	<b>Estimated Projected Completion Date:</b> Short-term	<b>Hazard(s) Mitigated:</b> Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds) Severe Winter Weather (Ice Storm, Heavy Snow, Blizzards, Extreme Cold)
<b>Year Initiated</b>	2025				
<b>Applicable Jurisdiction</b>	Village of Burnham				
<b>Applicable Goal</b>	1,2,4,5,6				
<b>Applicable Objective</b>	3,6,8,11,12,13				
<b>Cost Analysis (Low, Medium, High)</b>	Medium				
<b>Priority and Level of Importance (Low, Medium, High)</b>	Medium				
<b>Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)</b>	Medium				

<b>Action/Implementation Plan and Project Description:</b>	Education and Awareness Programs for Extreme Temperatures: This includes Increasing awareness of extreme temperatures and assisting vulnerable populations within our community.
<b>Actual Completion Date or Ongoing Indefinite</b>	
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed	N

**Action B - 15.19**

<b>Mitigation Action #B - 15.19: Flood Mitigation</b>					
<b>Lead Agency/Department Organization:</b> Village of Burnham Administration	<b>Supporting Agencies/Organizations:</b> FEMA; Cook County	<b>Estimated Cost:</b> High	<b>Potential Funding Source:</b> General Fund, Hazard State Special Funds Hazard Mitigation Grant Program (HMGP) Flood Mitigation Assistance (FMA) Program FEMA Public Assistance	<b>Estimated Projected Completion Date:</b> Short-term	<b>Hazard(s) Mitigated:</b> Flood (Riverine, Urban, Coastal/Shoreline) Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds)

			(PA)		
<b>Year Initiated</b>	2025				
<b>Applicable Jurisdiction</b>	Village of Burnham				
<b>Applicable Goal</b>	1,2,3,4,5,6				
<b>Applicable Objective</b>	1,2,3,4,5,6,8,9,10,11,12,13				
<b>Cost Analysis (Low, Medium, High)</b>	High				
<b>Priority and Level of Importance (Low, Medium, High)</b>	High				
<b>Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)</b>	High				
<b>Action/Implementation Plan and Project Description:</b>	1. Improve Stormwater Management Planning 2. Improve Flood Risk Assessment 3. Improve Stormwater Drainage System Capacity 4. Increase awareness of Flood Risk and Safety 5. Educate Property Owners about Flood Mitigation Techniques				
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed	N				

**Action B - 15.20**

Mitigation Action #B - 15.20: Severe Winter Weather Mitigation					
<b>Lead Agency/Department Organization:</b> Village of Burnham Administration	<b>Supporting Agencies/ Organizations:</b> FEMA; Cook County	<b>Estimated Cost:</b> Medium	<b>Potential Funding Source:</b> General Fund, Hazard Mitigation Grant Program (HMGP) Building Resilient	<b>Estimated Projected Completion Date:</b> Long-term	<b>Hazard(s) Mitigated:</b> Severe Weather (Extreme Heat, Lightning.



			Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program FEMA Public Assistance (PA)		Hail, Fog, High Winds) Severe Winter Weather (Ice Storm, Heavy Snow, Blizzards, Extreme Cold)
<b>Year Initiated</b>		2025			
<b>Applicable Jurisdiction</b>		Village of Burnham			
<b>Applicable Goal</b>		1,2,4,5,6			
<b>Applicable Objective</b>		1,2,3,4,5,6,8,10,11,12,13			
<b>Cost Analysis (Low, Medium, High)</b>		Medium			
<b>Priority and Level of Importance (Low, Medium, High)</b>		Medium			
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)		Medium			
<b>Action/Implementation Plan and Project Description:</b>		We would like to conduct winter weather risk awareness activities and assist vulnerable populations within our community. Informing the public about severe winter weather impacts, encouraging families to install co detectors and alarms, educating families on specific risks. Organizing outreach to vulnerable populations including establishing and promoting accessible heating centers in the community.			
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed		N			

## Ongoing Mitigation Actions

During the 2024 update, these "ongoing" mitigation actions and projects were modified and/or amended, as needed.

### Action B - 15.1

Mitigation Action #B - 15.1: Increase drainage/absorption capabilities.					
<b>Lead Agency/Department Organization:</b> Village of Burnham, MWRD	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> High	<b>Potential Funding Source:</b> General Fund, Grants, MWRD-Phase II	<b>Estimated Projected Completion Date:</b> Long-term	<b>Hazard(s) Mitigated:</b> Flooding, Severe Weather
<b>Year Initiated</b>		2014			
<b>Applicable Jurisdiction</b>		Village of Burnham			
<b>Applicable Goal</b>		1, 2, 3			
<b>Applicable Objective</b>		1, 2, 3, 9, 12, 13			
<b>Cost Analysis (Low, Medium, High)</b>		High			
<b>Priority and Level of Importance (Low, Medium, High)</b>		Medium			
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)		High			
<b>Action/Implementation Plan and Project Description:</b>		Limited funding available.			
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed		<b>O</b>			

## Action B - 15.2

Mitigation Action #B - 15.2: Televis and repair all sanitary sewer lines and the rehabilitation/sealing of all clean structures throughout the village.					
<b>Lead Agency/Department Organization:</b> Village of Burnham Administration	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> High	<b>Potential Funding Source:</b> General Fund, Grant	<b>Estimated Projected Completion Date:</b> Long-term	<b>Hazard(s) Mitigated:</b> Flooding, Severe Weather
<b>Year Initiated</b>		2014			
<b>Applicable Jurisdiction</b>		Village of Burnham			
<b>Applicable Goal</b>		1, 2, 3, 5			
<b>Applicable Objective</b>		1, 2, 9			
<b>Cost Analysis (Low, Medium, High)</b>		High			
<b>Priority and Level of Importance (Low, Medium, High)</b>		Medium			
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)		High			
<b>Action/Implementation Plan and Project Description:</b>		Limited funding available			
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed		<b>O</b>			

## Action B - 15.3

Mitigation Action #B - 15.3: Develop a community warming/cooling center.					
<b>Lead Agency/Department Organization:</b>	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> Medium	<b>Potential Funding Source:</b>	<b>Estimated Projected</b>	<b>Hazard(s) Mitigated:</b>

Village of Burnham Administration			General Fund, BRIC, HMGP	<b>Completion Date:</b> Long-term	Severe Weather, Tornado
<b>Year Initiated</b>	2014				
<b>Applicable Jurisdiction</b>	Village of Burnham				
<b>Applicable Goal</b>	1, 2, 3				
<b>Applicable Objective</b>	5, 9				
<b>Cost Analysis (Low, Medium, High)</b>	Medium				
<b>Priority and Level of Importance (Low, Medium, High)</b>	Medium				
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	High				
<b>Action/Implementation Plan and Project Description:</b>	Received grant for back up generator. Project moving toward completion.				
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed	<b>O</b>				

**Action B - 15.4**

<b>Mitigation Action #B - 15.4: Participate in the Community Rating System (CRS).</b>					
<b>Lead Agency/Department Organization:</b> Village of Burnham Administration	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> Low	<b>Potential Funding Source:</b> General Fund	<b>Estimated Projected Completion Date:</b> Short-term	<b>Hazard(s) Mitigated:</b> Flooding
<b>Year Initiated</b>	2014				
<b>Applicable Jurisdiction</b>	Village of Burnham				
<b>Applicable Goal</b>	All				
<b>Applicable Objective</b>	3, 4, 5, 6, 7, 9, 10, 11, 13				

<b>Cost Analysis (Low, Medium, High)</b>	Low
<b>Priority and Level of Importance (Low, Medium, High)</b>	Medium
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	Low
<b>Action/Implementation Plan and Project Description:</b>	Have not commenced action as of yet, but actively investigating opportunities to proceed.
<b>Actual Completion Date or Ongoing Indefinite</b>	
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed	<b>O</b>

#### Action B - 15.5

<b>Mitigation Action #B - 15.5: Develop and maintain a GIS database to track community vulnerability and exposure to known hazardous areas.</b>					
<b>Lead Agency/Department Organization:</b> Village of Burnham Administration	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> High	<b>Potential Funding Source:</b> General Fund	<b>Estimated Projected Completion Date:</b> Short-term and ongoing	<b>Hazard(s) Mitigated:</b> Multi-hazard
<b>Year Initiated</b>	2014				
<b>Applicable Jurisdiction</b>	Village of Burnham				
<b>Applicable Goal</b>	1, 2, 3, 6				
<b>Applicable Objective</b>	1, 2, 5, 6				
<b>Cost Analysis (Low, Medium, High)</b>	High				
<b>Priority and Level of Importance (Low, Medium, High)</b>	Medium				
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	Medium				

<b>Action/Implementation Plan and Project Description:</b>	However, will work with engineering firm and SSMMA to accomplish activity
<b>Actual Completion Date or Ongoing Indefinite</b>	
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed	<b>O</b>

**Action B - 15.6**

<b>Mitigation Action #6: Developing and implementing a multi-hazard public awareness program.</b>					
<b>Lead Agency/Department Organization:</b> Village of Burnham Administration	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> Low	<b>Potential Funding Source:</b> General Fund, HMGP, BRIC	<b>Estimated Projected Completion Date:</b> Short-term and ongoing	<b>Hazard(s) Mitigated:</b> Multi-hazard
<b>Year Initiated</b>	2014				
<b>Applicable Jurisdiction</b>	Village of Burnham				
<b>Applicable Goal</b>	1, 5, 6				
<b>Applicable Objective</b>	6, 8				
<b>Cost Analysis (Low, Medium, High)</b>	Low				
<b>Priority and Level of Importance (Low, Medium, High)</b>	Medium				
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	High				
<b>Action/Implementation Plan and Project Description:</b>	Limited staffing and technology.				
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion;	<b>O</b>				

**O** = Ongoing Indefinitely; **C** = Project Completed; **R** =  
Want Removed from Annex; **X** = No Action  
Taken/Delayed

**Action B - 15.7**

<b>Mitigation Action #B - 15.7: Develop a plan to protect infrastructure and critical facilities from natural hazards.</b>					
<b>Lead Agency/Department Organization:</b> Village of Burnham Administration	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> Low	<b>Potential Funding Source:</b> General Fund, Grant, HMGP, BRIC	<b>Estimated Projected Completion Date:</b> Long-term	<b>Hazard(s) Mitigated:</b> Multi-hazard
<b>Year Initiated</b>		2014			
<b>Applicable Jurisdiction</b>		Village of Burnham			
<b>Applicable Goal</b>		1, 2, 3, 5			
<b>Applicable Objective</b>		1, 2, 5			
<b>Cost Analysis (Low, Medium, High)</b>		Low			
<b>Priority and Level of Importance (Low, Medium, High)</b>		Medium			
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)		Medium			
<b>Action/Implementation Plan and Project Description:</b>		Have not begun plan development yet. Seeking grant moneys for assistance.			
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed		<b>O</b>			

## Action B - 15.8

Mitigation Action #B - 15.8: Complete a stormwater drainage study for known problem areas.					
<b>Lead Agency/Department Organization:</b> Village of Burnham Public Works	<b>Supporting Agencies/Organizations:</b>	<b>Estimated Cost:</b> Medium	<b>Potential Funding Source:</b> General Fund, Grant	<b>Estimated Projected Completion Date:</b> Short-term	<b>Hazard(s) Mitigated:</b> Flooding, Severe Weather
<b>Year Initiated</b>		2014			
<b>Applicable Jurisdiction</b>		Village of Burnham			
<b>Applicable Goal</b>		1, 3, 5			
<b>Applicable Objective</b>		3, 13			
<b>Cost Analysis (Low, Medium, High)</b>		Medium			
<b>Priority and Level of Importance (Low, Medium, High)</b>		Medium			
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)		Medium			
<b>Action/Implementation Plan and Project Description:</b>		Limited funding available.			
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed		<b>O</b>			

## Action B - 15.9

Mitigation Action #B - 15.9: Support retrofitting, purchasing, or relocating structures in hazard-prone areas.					
<b>Lead Agency/Department Organization:</b> Village of Burnham Administration	<b>Supporting Agencies/Organizations:</b>	<b>Estimated Cost:</b> High	<b>Potential Funding Source:</b> HMGP, BRIC	<b>Estimated Projected Completion Date:</b>	<b>Hazard(s) Mitigated:</b> All



				Long-term (depending on funding)	
<b>Year Initiated</b>	2014				
<b>Applicable Jurisdiction</b>	Village of Burnham				
<b>Applicable Goal</b>	1, 5				
<b>Applicable Objective</b>	7, 13				
<b>Cost Analysis (Low, Medium, High)</b>	High				
<b>Priority and Level of Importance (Low, Medium, High)</b>	Medium				
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	High				
<b>Action/Implementation Plan and Project Description:</b>	Limited funding available.				
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed	<b>O</b>				

**Action B - 15.10**

<b>Mitigation Action #B - 15.10: Continue to support the countywide actions identified in this plan.</b>					
<b>Lead Agency/Department Organization:</b> Village of Burnham Administration	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> Low	<b>Potential Funding Source:</b> General Fund	<b>Estimated Projected Completion Date:</b> Short- and long-term	<b>Hazard(s) Mitigated:</b> All
<b>Year Initiated</b>	2014				
<b>Applicable Jurisdiction</b>	Village of Burnham				
<b>Applicable Goal</b>	All				

<b>Applicable Objective</b>	All
<b>Cost Analysis (Low, Medium, High)</b>	Low
<b>Priority and Level of Importance (Low, Medium, High)</b>	High
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	Medium
<b>Action/Implementation Plan and Project Description:</b>	Ongoing effort
<b>Actual Completion Date or Ongoing Indefinite</b>	
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed	<b>O</b>

**Action B - 15.11**

<b>Mitigation Action #B - 15.11: Actively participate in the plan maintenance strategy identified in this plan.</b>					
<b>Lead Agency/Department Organization:</b> EMRS (Village of Burnham)	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> Low	<b>Potential Funding Source:</b> General Fund	<b>Estimated Projected Completion Date:</b> Short-term	<b>Hazard(s) Mitigated:</b> All
<b>Year Initiated</b>	2014				
<b>Applicable Jurisdiction</b>	Village of Burnham				
<b>Applicable Goal</b>	1, 2, 3, 5, 6				
<b>Applicable Objective</b>	3, 4, 6				
<b>Cost Analysis (Low, Medium, High)</b>	Low				
<b>Priority and Level of Importance (Low, Medium, High)</b>	High				
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	Medium				

<b>Action/Implementation Plan and Project Description:</b>	Village staff and engineering staff will continue this effort within budgetary constraints. Village has limited funding.
<b>Actual Completion Date or Ongoing Indefinite</b>	
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed	<b>O</b>

**Action B - 15.12**

<b>Mitigation Action #B - 15.12: Consider participation in incentive-based programs such as Tree City and StormReady.</b>					
<b>Lead Agency/Department Organization:</b> Village of Burnham Administration	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> Low	<b>Potential Funding Source:</b> General Fund	<b>Estimated Projected Completion Date:</b> Short-term	<b>Hazard(s) Mitigated:</b> All
<b>Year Initiated</b>	2014				
<b>Applicable Jurisdiction</b>	Village of Burnham				
<b>Applicable Goal</b>	All				
<b>Applicable Objective</b>	3, 4, 5, 6, 7, 9, 10, 11, 13				
<b>Cost Analysis (Low, Medium, High)</b>	Low				
<b>Priority and Level of Importance (Low, Medium, High)</b>	Medium				
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	Medium				
<b>Action/Implementation Plan and Project Description:</b>	Ongoing considerations				
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> =	<b>O</b>				

Want Removed from Annex; <b>X</b> = No Action Taken/Delayed	
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**Action B - 15.13**

<b>Mitigation Action #B - 15.13: 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.</b>					
<b>Lead Agency/Department Organization:</b> Village of Burnham Administration	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> Low	<b>Potential Funding Source:</b> General Fund	<b>Estimated Projected Completion Date:</b> Short- and long-term	<b>Hazard(s) Mitigated:</b> Flooding
<b>Year Initiated</b>		2014			
<b>Applicable Jurisdiction</b>		Village of Burnham			
<b>Applicable Goal</b>		1, 2, 3, 6			
<b>Applicable Objective</b>		4, 6, 9			
<b>Cost Analysis (Low, Medium, High)</b>		Low			
<b>Priority and Level of Importance (Low, Medium, High)</b>		High			
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)		Medium			
<b>Action/Implementation Plan and Project Description:</b>		Ongoing effort when budget permits.			
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed		<b>O</b>			

## Action B - 15.14

Mitigation Action #B - 15.14: Where feasible, implement a program to record high water marks following high-water events.					
<b>Lead Agency/Department Organization:</b> Village of Burnham Administration	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> Medium	<b>Potential Funding Source:</b> General Fund; FEMA Public Assistance (PA)	<b>Estimated Projected Completion Date:</b> Long-term	<b>Hazard(s) Mitigated:</b> Flooding, Severe Weather
<b>Year Initiated</b>		2014			
<b>Applicable Jurisdiction</b>		Village of Burnham			
<b>Applicable Goal</b>		1, 2, 3, 6			
<b>Applicable Objective</b>		3, 6, 9			
<b>Cost Analysis (Low, Medium, High)</b>		Medium			
<b>Priority and Level of Importance (Low, Medium, High)</b>		Medium			
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)		Medium			
<b>Action/Implementation Plan and Project Description:</b>		Completed high-water marks on bridge of Grand Calumet River			
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed		O			

## Action B - 15.15

Mitigation Action #B - 15.15: Integrate the hazard mitigation plan into other plans, programs, or resources that dictate land use or redevelopment.					
<b>Lead Agency/Department Organization:</b> Engineering Consultant, Public Works, Department of Buildings	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> Low	<b>Potential Funding Source:</b> General Fund	<b>Estimated Projected Completion Date:</b> Short-term	<b>Hazard(s) Mitigated:</b> All
<b>Year Initiated</b>		2014			
<b>Applicable Jurisdiction</b>		Village of Burnham			
<b>Applicable Goal</b>		1, 2, 3, 6			
<b>Applicable Objective</b>		3, 4, 6, 10, 13			
<b>Cost Analysis (Low, Medium, High)</b>		Low			
<b>Priority and Level of Importance (Low, Medium, High)</b>		High			
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)		Medium			
<b>Action/Implementation Plan and Project Description:</b>		Limited funding. Seeking grants assistance to prepare other plans and programs			
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed		O			

## Action B - 15.16

Mitigation Action #B - 15.16: Consider developing and implementing a Capital Improvements Program (CIP) to increase the Village's regulatory, financial, and technical capability to implement mitigation actions.					
<b>Lead Agency/Department Organization:</b> Public Works	<b>Supporting Agencies/Organizations:</b>	<b>Estimated Cost:</b> High	<b>Potential Funding Source:</b> CIP component of the general fund (if implemented)	<b>Estimated Projected Completion Date:</b> Long-term	<b>Hazard(s) Mitigated:</b> All
<b>Year Initiated</b>		2014			
<b>Applicable Jurisdiction</b>		Village of Burnham			
<b>Applicable Goal</b>		1, 2, 3			
<b>Applicable Objective</b>		1, 2, 7			
<b>Cost Analysis (Low, Medium, High)</b>		High			
<b>Priority and Level of Importance (Low, Medium, High)</b>		Medium			
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)		High			
<b>Action/Implementation Plan and Project Description:</b>		Considerations ongoing. Limited funding. Seeking grants assistance to improve comprehensive planning.			
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed		<b>O</b>			

## Action B - 15.17

Mitigation Action #B - 15.17: Combination Sewer Pump Station Replacement					
<b>Lead Agency/Department Organization:</b>	<b>Supporting Agencies/Organizations:</b>	<b>Estimated Cost:</b>	<b>Potential Funding Source:</b>	<b>Estimated Projected</b>	<b>Hazard(s) Mitigated:</b>

Village of Burnham Administration		\$2,600,000; High	Sewer Revenues, BRIC, HMGP	<b>Completion Date:</b> 2025	Flooding, Widespread Power Outage
<b>Year Initiated</b>	2018/2019				
<b>Applicable Jurisdiction</b>	Village of Burnham				
<b>Applicable Goal</b>	1, 2, 3				
<b>Applicable Objective</b>	2, 9				
<b>Cost Analysis (Low, Medium, High)</b>	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).				
<b>Priority and Level of Importance (Low, Medium, High)</b>	High Priority				
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	Reduce neighborhood flooding. Prevent basement backups. Avoid catastrophic failure. Reduce maintenance costs. Reduce combination sewer overflows to Grand Calumet River. Project will provide an immediate reduction of risk exposure for life and property.				
<b>Action/Implementation Plan and Project Description:</b>	Removal and replacement of a 90-year-old combined sewer overflow pump station. The original aging concrete enclosure is structurally deficient. Mechanical and electrical components are nearing the end of their useful life.				
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed	<div>O</div>				



## Completed Actions

**Completed Mitigation Actions - An archive of all identified and completed projects, including completed actions since 2014.**

Completed Action Items
Develop a community warming/cooling center.

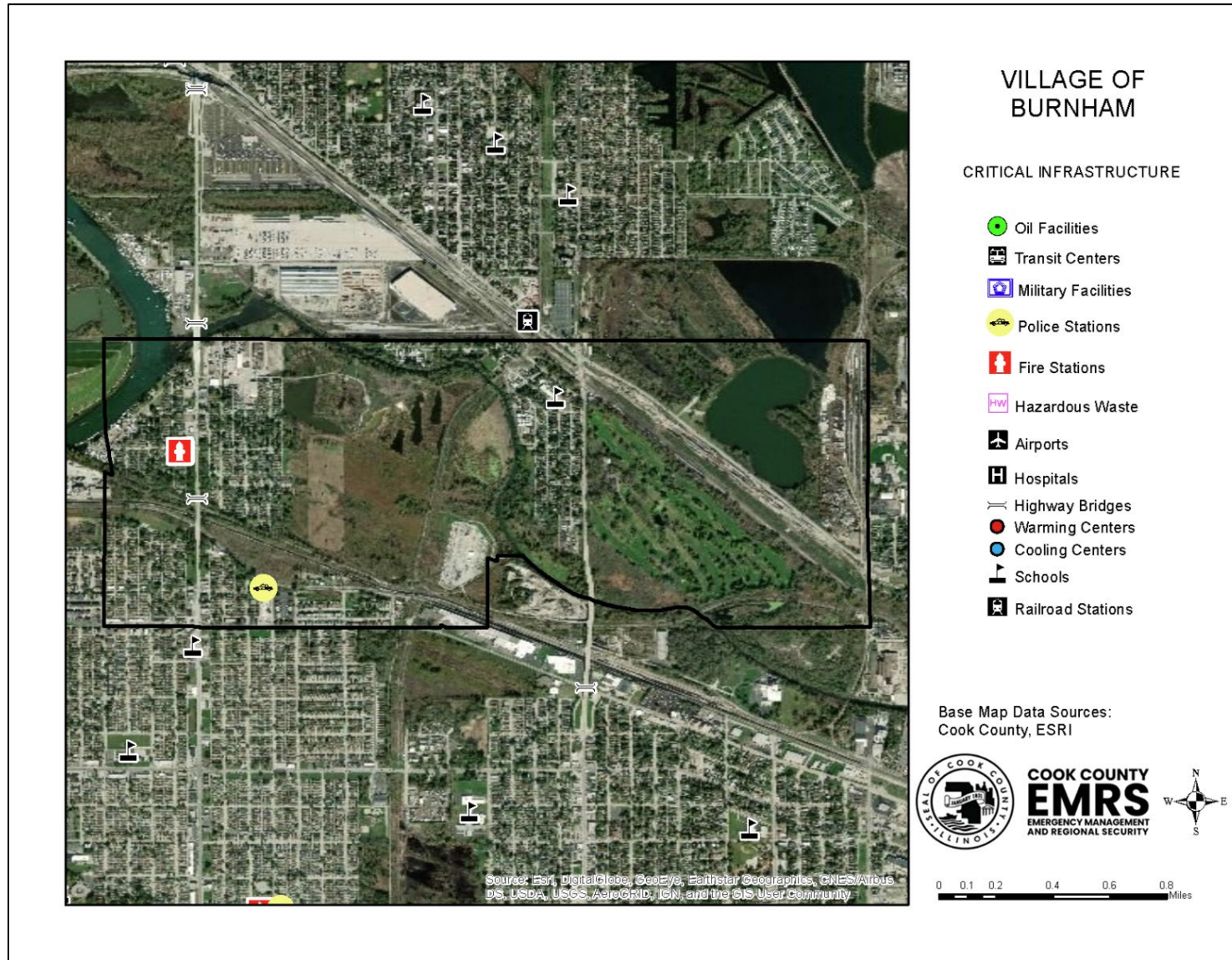
## Future Needs to Better Understand Risk/Vulnerability

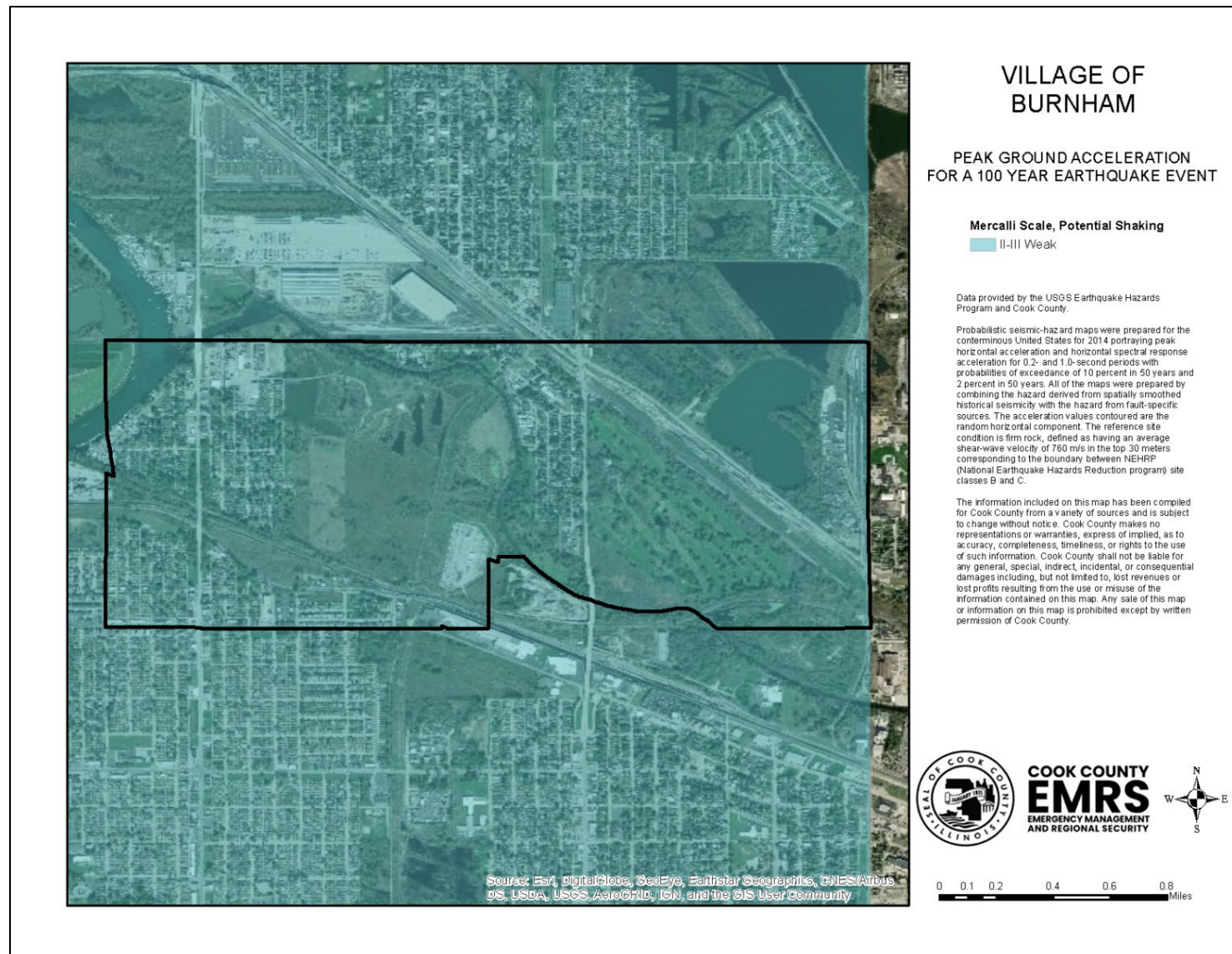
Working with the County to update our Hazard Mitigation Plan, Grant Training, and studies in our Village to reduce the chances of hazards affecting our residents.

## Additional Comments

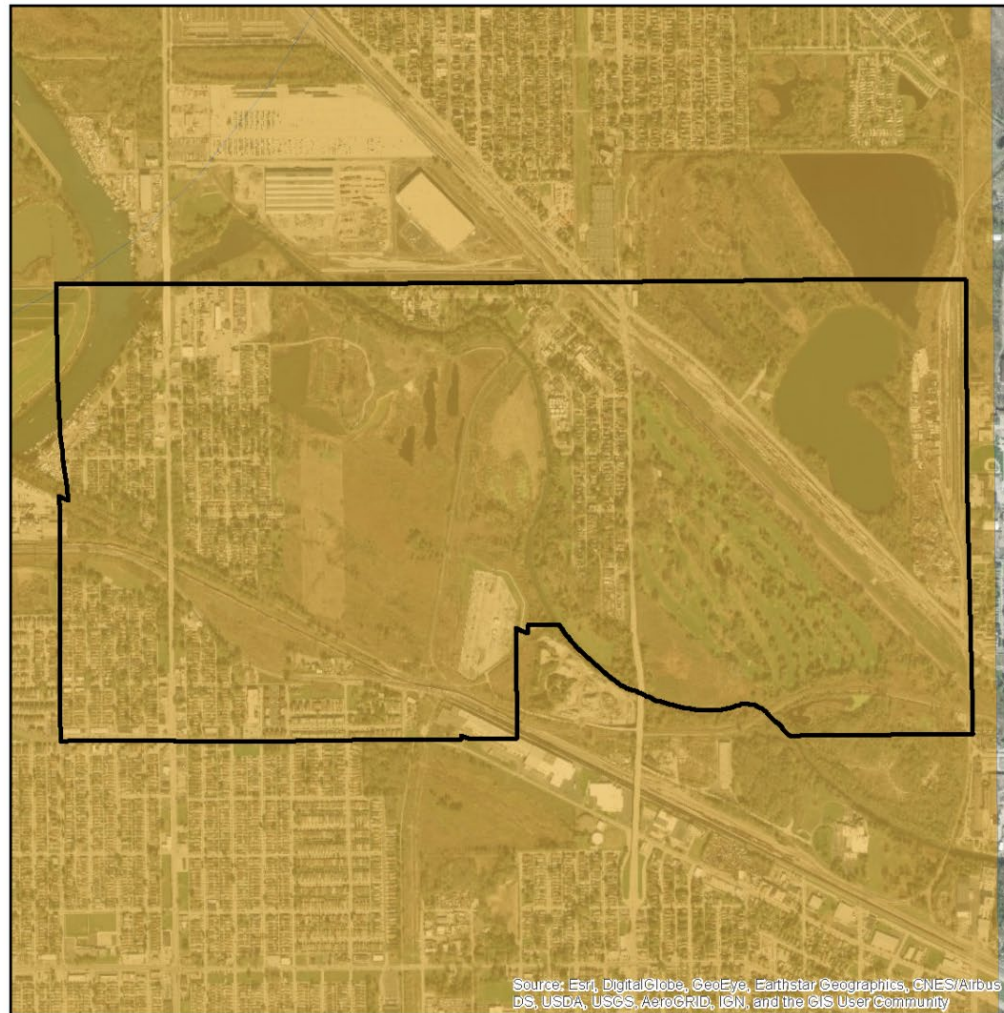
No additional comments at this time.

## Hazard Mapping









Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

## VILLAGE OF BURNHAM

### NATIONAL EARTHQUAKE HAZARD REDUCTION PROGRAM (NEHRP) SOIL CLASSIFICATION

#### TYPE

- C - Very Dense Soil, Soft Rock
- D - Stiff Soil
- F- Site Specific Evaluation

Data provided by the Illinois State Geological Survey and Cook County.

The Central United States Earthquake Consortium (CUSEC) State Geologists produced a regional Soil Site Class map (NEHRP Soil Profile Type Map), a Liquefaction Susceptibility Map and a Soil Response Map for the 8 states to be used in the FEMA New Madrid Catastrophic Planning Initiative Phase II work. The USGS Geologic Investigation Series I-2769 Map of Surficial Deposits and Materials in the Eastern and Central United States (East of 102 degrees West Longitude) by David S. Fullerton, Charles A. Bush and Jean N. Pennell (2003) was the base map used for this work. Each State Geological Survey produced its own state map version of the Soil Site Class and Liquefaction Susceptibility maps. The procedures outlined in the NEHRP provisions (Building Seismic Safety Council, 2004) and the 2003 International Building Codes (International Code Council, 2002) were followed to produce the soil site class maps. CUSEC State Geologists used the entire column of soils material down to bedrock and did not include any bedrock in the calculation of the average shear wave velocity for the column, since it is the soil column and the difference in shear wave velocity of the soils in comparison to the bedrock which influences much of the amplification.

The information included on this map has been compiled for Cook County from a variety of sources and is subject to change without notice. Cook County makes no representations or warranties, express or implied, as to accuracy, completeness, timeliness, or rights to the use of such information. Cook County shall not be liable for any general, special, indirect, incidental, or consequential damages including, but not limited to, lost revenues or lost profits resulting from the use or misuse of the information contained on this map. Any sale of this map or information on this map is prohibited except by written permission of Cook County.

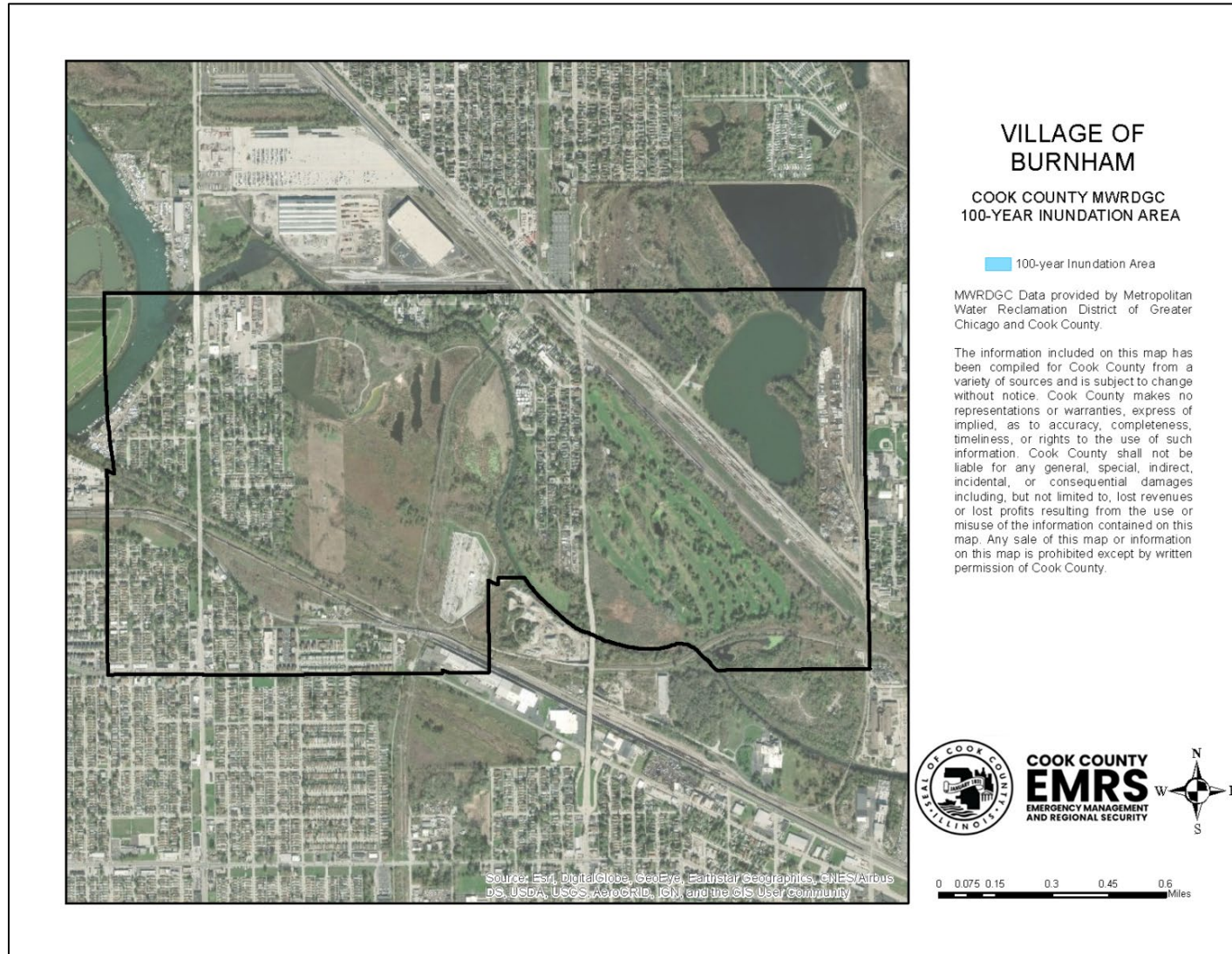


**COOK COUNTY**  
**EMRS**  
EMERGENCY MANAGEMENT  
AND REGIONAL SECURITY

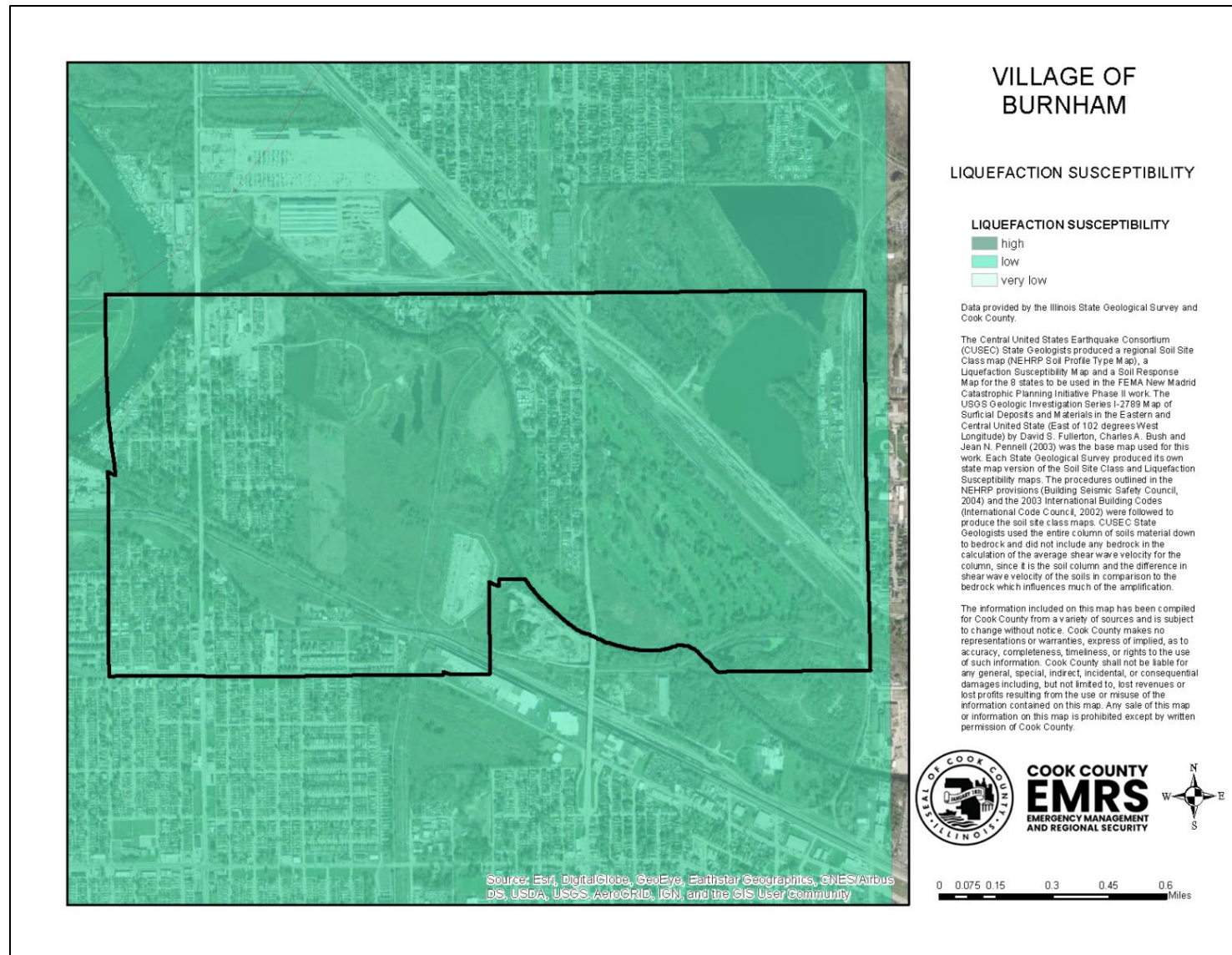


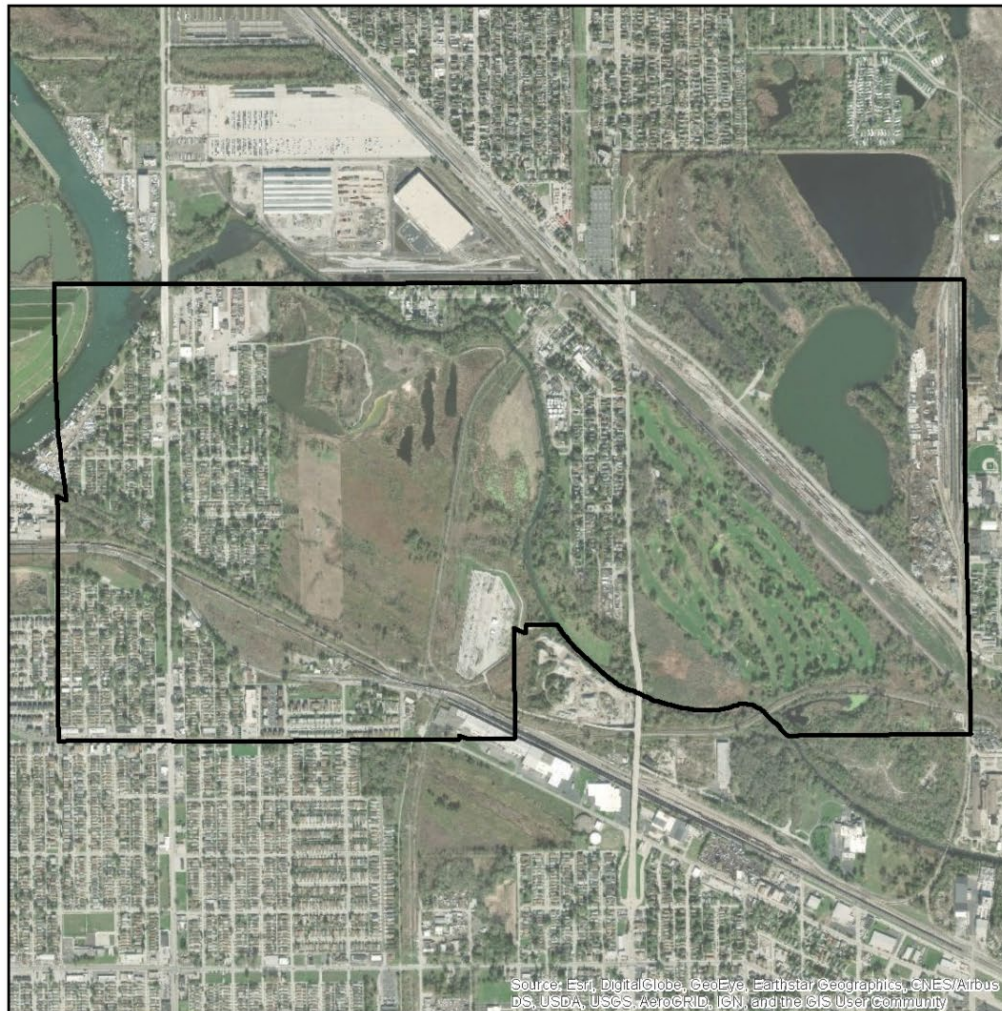
0 0.075 0.15 0.3 0.45 0.6 Miles

**DISCLAIMER:** The Cook County MWRDGC 100-year Inundation Map is provided to show general flood risk information regarding floodplains and inundation areas. This map is not regulatory. Official FEMA Flood Insurance Study information and regulatory maps can be obtained from <http://www.fema.gov>.









## VILLAGE OF BURNHAM

100- AND 500- YEAR  
TORNADO EVENTS

### Magnitude

- 4 (100 year event)
- 5 (500 year event)

Historic tornado data provided by NOAA/NWS showing the initial points and paths of all F4 and F5 events observed from 1950 to 2017.



**COOK COUNTY**  
**EMRS**  
EMERGENCY MANAGEMENT  
AND REGIONAL SECURITY



0 0.075 0.15 0.3 0.45 0.6 Miles

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community