COOK COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN VOLUME 2 - Municipal Annexes

Burbank Annex

FINAL

July 2019

Prepared for:



Cook County
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Hazard Mitigation Point of Contact

Primary Point of Contact	Alternate Point of Contact
Dave Gilgenberg, Fire Chief 6530 West 79th Street	Martin W. Kreil Burbank Fire/ Battalion Chief
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Jurisdiction Profile

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

• Date of Incorporation: 1970

• **Current Population:** 28,534 as of the US Census 2018 population estimate.

• Population Growth: The population decreased slightly from 2010 to 2017 – about -0.5 percent.

- Location and Description: Burbank is a city located in Cook County at the southwest edge of the City of Chicago; the Chicago city limit is in common with Burbank's eastern city limit. The city has a total area of 4.2 square miles and shares a boundary with Oak Lawn to its South, Bridgeview to its West, and Bedford Park to its North.
- **Brief History:** The early history of Burbank features a series of false starts and frustrated plans. The Burbank area contained scattered farms when, in 1850, it became the southeastern portion of Lyons Township. One of the earliest roads to run through the area was the diagonal State Road that connected Ridgeland/Narragansett Avenues to Cicero Avenue. By 1871, State Road attracted the attention of a Pittsburgh investor who laid out a subdivision along this route that apparently never materialized. Instead German and Dutch truck farmers settled in the area. Railroad executive A. B. Stickney planned a massive freight railroad transfer center that included the northern part of Burbank, but the 1893 Depression curtailed his plans. In 1901, this area became the southern end of the newly formed Stickney Township, an 18 square mile tract split from the eastern side of Lyons Township. The subdivision boom of the 1920s spread to this area as real estate developers bought up farmland and plotted subdivisions. But the ongoing drainage problems, poor roads, and inadequate water and sewer systems, as well as the Great Depression, dampened the enthusiasm of many would-be buyers. The creation of the South Stickney Sanitary District in 1952 changed the course of Burbank's history. By 1959, the area known as South Stickney or Burbank Manor had a water and sewer system for the first time, and the flooding problems diminished. Roads were improved and streetlights installed. The area's population tripled during this decade, reaching an estimated 20,720 in 1960. Burbank was the last part of Stickney Township to incorporate. In 1970, to avoid annexation by Chicago, residents formed the City of Burbank. The name was taken from the local Luther Burbank Elementary School, named after the famous horticulturist. Six years later, in 1976, the city's population peaked at 29,448. By 1979, nearly all of the City's land was subdivided. Burbank's population declined to 27,902 in 2000. More than half of the City's revenue comes from retail sales taxes. Stores are concentrated along Harlem and Cicero Avenues, the City's main north-south thoroughfares, with some retail businesses also on 79th and 87th Streets. There is almost no manufacturing in Burbank.
- Climate: The climate of Burbank is classified as humid continental, with all four seasons distinctly represented: wet springs; hot and often humid summers; pleasant autumns; and cold winters. Annual precipitation is average, and reaches its lowest points in the months of January and February, and peaks in the months of May and June. The temperature tends to hover around 23.5 F in January, and 75.5 F in July. In addition, Burbank receives 38.35 inches of rain each year.

- Governing Body Format: The City of Burbank is governed by Mayor and a seven-member city council. This body will assume the responsibility for the adoption and implementation of this plan. The city consists of five departments: Finance, Building, Public Works, Police and Fire. In addition to police and fire services, the City of Burbank maintains an Emergency Services and Disaster Agency, which is an extension of the City of Burbank Fire Department. Its mission is to provide assistance to the fire and police departments and to the citizens of Burbank in times of critical need or disaster. This assistance comes in many requests. They can range from evacuation from flooding to general safety and preparedness training. Water and sanitary services are provided by South Stickney Sanitary District (Stickney Township) The South Stickney Sanitary District is a government agency responsible for the delivery of water and the maintenance of sewers for all the residents of the City of Burbank and the unincorporated area of Stickney Township known as Nottingham Park. The South Stickney Sanitary District handles approximately 9,300 individual residential customer and commercial customer water accounts. The South Stickney Sanitary District is also responsible for the construction, maintenance and repair of all of the sewer lines within the district that are not the property and responsibility of an individual property owner or the Metropolitan Water Reclamation District.
- **Development Trends:** Anticipated development trends for Burbank are moderate, consisting of primarily of residential development and citywide infrastructure. Burbank's development priority is the maintaining of a safe, wholesome, and residential community. Burbank is approximately 90% residential and the city's infrastructure is a high priority serving its residents. There is no major commercial development plans forecasted in the near future.

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 the *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					
	Comments				
Codes, Ordinances & Req	uirements				
Building Code	Yes	No	No	Yes	In accordance with Public Act 096- 0704, Illinois has adopted the IBC as its state Building Code 2018.
Zonings	Yes	No	No	Yes	(65 ILCS 5/) Illinois Municipal Code. 35-12-10 (2010)
Subdivisions	Yes	No	No	No	35-12-10 (2010)
Stormwater Management	No	No	Yes	Yes	State regulates industrial activity from Construction sites 1 acre or larger under section 402 CWA.
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	No	No	No	No	35-12-10 (2010)

Public Health and Safety	No	No	Yes	Yes	Stickney Public Health District. April 4, 1970
Environmental Protection	No	No	No	No	
Planning Documents					
General or Comprehensive Plan	No	No	No	No	
Is the p	olan equippe	ed to provide lin	kage to this miti	gation plan?	N/A
Floodplain or Basin Plan	No	No	No	No	
Stormwater Plan	No	No	MWRD	Yes	Regional storm water impacts are managed by MWRD. The Village lies within the Calumet Sag- Channel watershed planning area of MWRD's comprehensive Storm water Master Planning Program
Capital Improvement Plan	No	No	No	No	
	N/A				
		How often	is the plan revise	ed/updated?	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	
Response/Recovery Plann	ning				
Comprehensive Emergency Management Plan	No	No	No	No	Cook County DHSEM
Threat and Hazard Identification and Risk Assessment	No	No	No	No	Cook County DHSEM Preparing for THIRA
Terrorism Plan	No	No	No	No	Cook County DHSEM
Post-Disaster Recovery Plan	No	No	No	No	Cook County DHSEM
Continuity of Operations Plan	No	No	No	No	Cook County DHSEM
Public Health Plans	No	No	No	No	Stickney Public Health Distric

TABLE: FISCAL CAPABILITY				
Financial Resources	Accessible or Eligible to Use?			
Community Development Block Grants	Yes			
Capital Improvements Project Funding	Yes			
Authority to Levy Taxes for Specific Purposes	No			
User Fees for Water, Sewer, Gas or Electric Service	Yes			
Incur Debt through General Obligation Bonds	Yes			
Incur Debt through Special Tax Bonds	No			
Incur Debt through Private Activity Bonds	No			
Withhold Public Expenditures in Hazard-Prone Areas	No			
State Sponsored Grant Programs	Yes			
Development Impact Fees for Homebuyers or Developers	Yes			

TABLE: ADMINISTRATIVE AND TECHNICAL CAPABILITY				
Staff/Personnel Resources	Available?	Department/Agency/Position		
Planners or engineers with knowledge of land development and land management practices	Yes	Frank Novotny & Associates		
Engineers or professionals trained in building or infrastructure construction practices	Yes	Frank Novotny & Associates		
Planners or engineers with an understanding of natural hazards	Yes	Frank Novotny & Associates		
Staff with training in benefit/cost analysis		Burbank Police, Fire, Public Works: Department Heads		
Surveyors	Yes	Frank Novotny & Associates		
Personnel skilled or trained in GIS applications	Yes	Cook County GIS Consortium		
Scientist familiar with natural hazards in local area	No			
Emergency manager	Yes	Fire Chief		
Grant writers	Yes	Administration for Fire & Police		

TABLE: NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE				
What department is responsible for floodplain management in your jurisdiction?	Building Department			
Who is your jurisdiction's floodplain administrator? (department/position)	Building Department			
Are any certified floodplain managers on staff in your jurisdiction?	No			
What is the date of adoption of your flood damage prevention ordinance?	October 25, 2000			
When was the most recent Community Assistance Visit or Community Assistance Contact?	Has not received a Community Assistance Visit			
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? If so, please state what they are.	Not at this time			
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?	No			

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

TABLE: COMMUNITY CLASSIFICATIONS					
	Participating?	Classification	Date Classified		
Community Rating System	No	N/A	N/A		
Building Code Effectiveness Grading Schedule	Yes	Unknown	Unknown		
Public Protection/ISO	Yes	3	2012		
StormReady	Yes	Gold (Countywide)	2014		
Tree City USA	No	N/A	N/A		

Jurisdiction-Specific Natural Hazard Event

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: 2
- Number of FEMA-Identified Severe Repetitive Loss Properties: 0
- Number of Repetitive Flood Loss/Severe Repetitive Loss Properties That Have Been Mitigated: 0

TABLE: NATURAL HAZARD EVENTS					
Type of Event	FEMA Disaster Number (if applicable)	Date	Preliminary Damage Assessment		
Severe Weather	-	6/30/2014	-		
Flood	-	7/23/2013	\$30,790.27		
Snow Storm	FEMA -1960-031-09642-00	2/02/2011	\$47,864.50		
Flood	-	7/23/2010	-		
Snow Storm	EM-3161	12/11/2000	-		
Snow Storm	EM-3134	1/01/1999	-		
Snow Storm	EM-3068	1/16/1979	-		
Flood	DR-509	6/18/1976	-		

Jurisdiction-Specific Hazards and Impacts

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: Within the community, the 8600 Block of Rutherford cul-de-sac is prone to flooding. Additionally, Narrangansett Ave. (between 81st and 85th), Parkside (78th Street to 79th Street), 83rd street, and Mobile Ave are prone to flooding.

Earthquake: Although earthquakes or their effects are not commonly felt in Burbank, earthquakes have happened on several occasions in Illinois over the last few decades. Burbank continues to prepare and mitigate against this hazards.

Severe Weather: Severe thunderstorms, hail, and wind have impacted residences throughout Burbank. Trees, power lines, and even power poles have all been toppled on multiple occasions. Damage has also occurred to business on 95th street as a result of these events.

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. Burbank continues to prepare and mitigate against this hazard.

Severe Winter Weather: These events can threaten life, property, and major utilities. Burbank continues to pursue mitigation actions to ensure utility service cannot be as easily impacted by things like high winds and ice accumulation.

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.

TABLE: HAZARD RISK RANKING					
Rank	Hazard Type	Risk Rating Score (Probability x Impact)			
1	Severe Weather	54			
2	Severe Winter Weather	54			
3	Flood	54*			
4	Earthquake	32			
5	Tornado	27			
6	Drought	2			
7	Dam Failure	0			

^{*}Note: Flood risk ranking score was raised from 33 to 54 based on urban drainage issues experienced in the past.

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. In this section, mitigation actions/projects were updated/amended, identified, evaluated, and prioritized. This section is organized as follows:

- New Mitigation Actions New actions identified during this 2019 update process
- Ongoing Mitigation Actions Ongoing actions with no definitive end or that are still in progress.
 During the 2019 update, these "ongoing" mitigation actions and projects were modified and/or amended, as needed.
- Completed Mitigation Actions An archive of all identified and completed projects, including completed actions since 2014.

The *Hazard Mitigation Action Plan Matrix Table* below lists the actions that make up the jurisdiction's hazard mitigation plan. The *Mitigation Strategy Priority Schedule Table* identifies the priority for each action.

TABLE: HAZARD MITIGATION ACTION PLAN MATRIX						
Status	Hazards Mitigated	Objective s Met	Lead Agencies	Estimated Cost	Sources of Funding	Timeline/Projecte d Completion Date (a)
Action B14.	1—Perform a	study of the	urban drainag	e problem.		
Ongoing	Flood	6, 9	Burbank Building and Fire Department S	Low	Local/General Fund	Short-term
Action B14.2	2-—Pursue al	l opportuniti	es to put utiliti	es undergroun	d.	
Ongoing	Sever Weather, Sever Winter Weather, Tornado, Earthquak e	1, 2, 5	Burbank Building Department	High	Grants State/Federal Funding	Ongoing

Action B14.3 —Where appropriate, support retrofitting, purchase, or relocation of structures in hazard-prone areas to prevent future structure damage. Give priority to properties with exposure to repetitive losses.							
Ongoing			Burbank Building Department	High	Grants State/Federal Funding	Long-term (depending on funding)	
Action B14.4—Enhance the Severe Weather warning capability by joining the NOAA "Storm Ready" program.							
Completed	Tornado, Flood, Sever Weather, Severe Winter Weather	1, 2, 5, 6, 8, 11	Burbank Fire Department	Low	Local/General Fund	Completed	
Action B14.5	Update/E	nhance Floo	d Damage Prev	vention ordina	nce.		
Ongoing	Flood	2, 10	Burbank Building Department	Low	Local/General Fund	Short-term	
Action B14.6	—Continue t	o support th	ne countywide	actions identifi	ed in this plan.		
Ongoing	All	All	Burbank	Low	General Fund	Short- and long- term	
Action B14.	7 —Actively p	articipate in	the plan maint	tenance strate	gy identified in t	his plan.	
Ongoing	All	3, 4, 6	DHSEM (Burbank)	Low	General Fund	Short-term	
programs the	at meet or ex od damage pr	ceed the mi	nimum NFIP re dinance, partici	quirements. Supating in flood	_		
Ongoing	Flooding	4, 6, 9	Burbank	Low	General Fund	Short-term, Ongoing	
Action B14.9 events.	—Where fea	sible, implei	ment a progran	n to record hig	h water marks fo	ollowing high-water	
Ongoing	Flooding, Severe Weather	3, 6, 9	Burbank	Medium	General Fund; FEMA Grant Funds (Public Assistance)	Long-term	
	Action B14.10—Integrate the hazard mitigation plan into other plans, programs, or resources that dictate land use or redevelopment.						

Ongoing	All	3, 4, 6, 10, 13	Frank Novotny & Associates	Low	General Fund	Short-term		
	Action B14.11—Consider the development and implementation of a capital improvement program (CIP) to increase the Village's regulatory, financial and technical capability to implement mitigation actions.							
Ongoing All 1, 2, 7 Public Works High CIP component of general fund (if implemented)					Long-term			
			awareness and ort flood and/o		. Specifically imp	prove local web site		
New	All	6, 8	Fire	\$50,000; Medium	Grant and Corporate Funding	2021		
Action B14.13—Melvina Ditch Reservoir Improvements.								
New	Flood	9	MWRD	\$14,245,000 ; High	Unknown	No		
	(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.							

	TABLE: MITIGATION STRATEGY PRIORITY SCHEDULE							
Action Number	Number of Objectives Met	Benefits	Costs	Do Benefits Equal or Exceed Costs?	Is Project Grant- Eligible?	Can Project Be Funded Under Existing Programs/Budgets?	Priority (a)	
1	2	Medium	Low	Yes	No	Yes	High	
2	3	High	High	Yes	Yes	Yes	High	
3	2	High	High	Yes	Yes	No	Medium	
4	6	Low	Low	Yes	No	Yes	High	
5	2	Medium	Low	Yes	No	Yes	High	
6	13	Medium	Low	Yes	No	Yes	High	
7	3	Low	Low	Yes	Yes	Yes	High	

8	3	Medium	Low	Yes	No	Yes	High
9	3	Medium	Medium	Yes	No	No	Medium
10	5	Medium	Low	Yes	No	Yes	High
11	3	High	High	Yes	No	No	Medium
12	2	High	Medium	Yes	Yes	No	High
13	1	Unknown	High	Unknown	Unknown	Unknown	Unknown

⁽a) See Chapter 1 for explanation of priorities.

New Mitigation Actions

The following are new mitigation actions created during the 2019 update.

Mitigation Action	Improve community awareness and preparedness. Specifically, improve local web site to include interactive sections to report flood and/or damage.
Year Initiated	2019
Applicable Jurisdiction	City of Burbank
Lead Agency/Organization	Fire
Supporting Agencies/Organizations	Police, Public Works
Applicable Goal	 Involve stakeholders to enhance the local capacity to mitigate, prepare for, and respond to the impacts of natural hazards. Promote public understanding of and support for hazard mitigation.
Applicable Objective	 Use the best available data, science and technologies to educate the public and to improve understanding of the location and potential impacts of natural hazards, the vulnerability of building types and community development patterns, and the measures needed to protect life safety. Establish partnerships among all levels of local government, the private sector, and/or nongovernmental organizations to improve and implement methods to protect people and property.
Potential Funding Source	Grant and Corporate Funding
Estimated Cost	\$50,000 (???)
Benefits (loss avoided)	 Help people prepare for and minimize person and property loss. Instructions on how to help during emergencies
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)	Medium - The project could be implemented with existing funding but would require a re-apportionment of the budget or a budget amendment, of 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:

	Mitigation Action and Project Maintenance					
Year	Status	Comments				
2019	New					
2020						
2021						
2022						
2023						

	Mitigated Hazards
Х	All Hazards
	Dam/Levee Failure
	Drought
	Earthquake
	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

Mitigation Action	Melvina Ditch Reservoir Improvements		
Year Initiated	2019		
Applicable Jurisdiction	Burbank		
Lead Agency/Organization	MWRD		
Supporting Agencies/Organizations	 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 and potential damage from such activities. 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. 		
Applicable Goal	 Provide or improve flood protection on a watershed basis with flood control structures and drainage maintenance plans. 		
Applicable Objective	Unknown		
Potential Funding Source	Unknown		
Estimated Cost	\$14,245,000		
Benefits (loss avoided)	Unknown		
Projected Completion Date	Unknown		
Priority and Level of Importance (Low, Medium, High)	Unknown		
Benefit Analysis (Low, Medium, High)	Unknown		
Cost Analysis (Low, Medium, High)	High		
Actual Completion Date	Unknown		

Recommended Mitigation Action/Implementation Plan and Project Description						
Action/Implementation Plan and Project Description:	ID: MD Rsvr Exp Contract: 14-263-3F Watershed: Cal-Sag Channel Location: Burbank, IL Expands the existing Melvina Ditch Reservoir by up to 195 acre-feet to increase its storage capacity (up to a 118 percent increase), modifying the pumping station to accommodate the reservoir expansion, and installing a new emergency overflow weir to reduce the likelihood of reservoir overtopping.					

Mitigation Action and Project Maintenance					
Year	Status	Comments			
2019	New	Project under construction			
2020					
2021					
2022	_				
2023					

	Mitigated Hazards
	All Hazards
	Dam/Levee Failure
	Drought
	Earthquake
Х	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

Ongoing Mitigation Actions

The following are ongoing actions with no definitive end or that are still in progress. During the 2019 update, these "ongoing" mitigation actions and projects were modified and/or amended, as needed.

	TABLE: ACTION PLAN MATRIX					
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)				
# B—14.1	Perform a study of the urban drainage problem					
Status Description: No		Х				
C =	Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken					

TABLE: ACTION PLAN MATRIX				
Action Number Action Taken Y/N		Status (X, O, C, R, N)		
# B—14.2	—14.2 Pursue all opportunities to put utilities underground.			
Status Description: No			Х	
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken				

TABLE: ACTION PLAN MATRIX			
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)	
# B—14.3	Where appropriate, support retrofitting, purchase, or relocation of structures in hazard-prone areas to prevent future structure damage. Give priority to properties with exposure to repetitive losses.		
Status Description: No		Х	
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken			

TABLE: ACTION PLAN MATRIX					
Action Number Action Taken Y/N		Action Item Description	Status (X, O, C, R, N)		
# B—14.5	B—14.5 Update/Enhance Flood Damage Prevention ordinance.				
Status Description: No			Х		
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken					

TABLE: ACTION PLAN MATRIX					
Action Number Action Taken Y/N		Status (X, O, C, R, N)			
# B—14.6	# B—14.6 Continue to support the countrywide actions identified in this plan.				
Status Description: No			0		
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken					

TABLE: ACTION PLAN MATRIX				
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)		
# B—14.7	# B—14.7 Activly participate in the plan maintenance strategy identified in this plan.			
Status Description: No		Х		
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken				

TABLE: ACTION PLAN MATRIX				
Action Number Action Taken Y/N	Action Item Description			
# B—14.8	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: No		0		
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken				

TABLE: ACTION PLAN MATRIX				
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)		
# B—14.9	# B—14.9 Where feasible, implement a program to record high water marks following high-water events.			
Status Description: No	Description:			
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken				

TABLE: ACTION PLAN MATRIX				
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)		
# B—14.10	Integrate the hazard mitigation plan into other plans, programs, or resources that dictate land use or redevelopment.			
Status Description: No		0		
C =	Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken			

TABLE: ACTION PLAN MATRIX				
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)		
# B—14.11	Consider the development and implementation of a capital improvement program (CIP) to increase the Village's regulatory, financial and technical capability to implement mitigation actions.			
Status Description: No		0		
С	Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken			

Completed Mitigation Actions

The following section represents completed mitigation actions, and serves as an archive of identified and completed projects.

TABLE: ACTION PLAN MATRIX				
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)		
# B—14.4	# B—14.4 Enhance the Severe Weather warning capability by joining the NOAA "Storm Ready" program.			
Status Description: Action Taken?	We are already classified as Storm Ready, As a municipality within Cook			
C =	Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken			

Future Needs to Better Understand Risk/Vulnerability

No needs have been identified at this time.

Additional Comments

No additional comments at this time

HAZUS-MH Risk Assessment Results

BURBANK EXISTING CONDITIONS			
2010 Population	28,925		
Total Assessed Value of Structures and Contents	\$6,843,467,168		
Area in 100-Year Floodplain	0.00 acres		
Area in 500-Year Floodplain	0.00 acres		
Number of Critical Facilities	31		

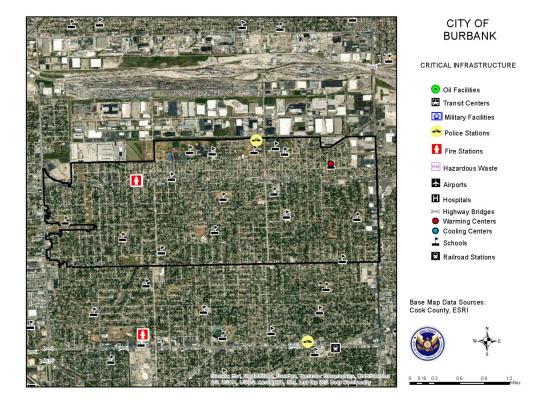
HAZARD EXPOSURE IN BURBANK							
	Number Exposed Value Exposed to Hazard				% of Total		
	Population	Buildings	Structure	Contents	Total	Assessed Value Exposed	
Dam Failure							
Buffalo Creek	0	0	\$0	\$0	\$0	0.00%	
U. Salt Cr. #2	0	0	\$0	\$0	\$0	0.00%	
Touhy	0	0	\$0	\$0	\$0	0.00%	
U. Salt Cr. #3	0	0	\$0	\$0	\$0	0.00%	
U. Salt Cr. #4	0	0	\$0	\$0	\$0	0.00%	
Flood							
100-Year	0	0	\$0	\$0	\$0	0.0%	

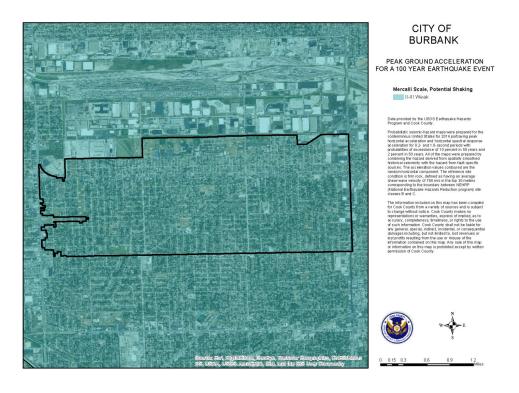
500-Year	0	0	\$0	\$0	\$0	0.0%		
Tornado								
100-Year	_	_	\$889,527,767	\$695,305,970	\$1,584,833,737	23.16%		
500-Year			\$1,541,421,062	\$1,102,029,591	\$2,643,450,654	38.63%		

ESTIMATED PROPERTY DAMAGE VALUES IN BURBANK									
	Esti	rith Hazard	% of Total Assessed						
	Building	Contents	Total	Value Damaged					
Dam Failure									
Buffalo Creek	\$0	\$0	\$0	0.00%					
U. Salt Cr. #2	\$0	\$0	\$0	0.00%					
Touhy	\$0	\$0	\$0	0.00%					
U. Salt Cr. #3	\$0	\$0	\$0	0.00%					
U. Salt Cr. #4	\$0	\$0	\$0	0.00%					
Earthquake									
1909 Historical Event	\$75,584,129	\$24,488,205	\$100,072,334	1.46%					
Flood									
10-Year	\$0	\$0	\$0	0.00%					
100-Year	\$0	\$0	\$0	0.00%					
500-Year	\$0	\$0	\$0	0.00%					

Tornado								
100-Year	\$88,952,777	\$69,530,597	\$158,483,374	2.32%				
500-Year	\$225,047,475	\$160,896,320	\$385,943,795	5.64%				

Hazard Mapping







CITY OF BURBANK

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.

Coald Coultry.

The Careful Vision of States Extracular Conception.

(C.UECS) State developing smokered a regional Soil State

Leverlation States Continued to the Conception.

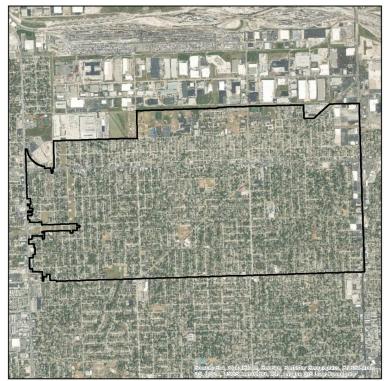
(C.UECS) State developing smokered a regional Soil State

Leverlation States principle May and a Soil Response.

Leverlation States and the Conception of th







CITY OF BURBANK

COOK COUNTY MWRDGC 100-YEAR INUNDATION AREA

100-year Inundation Area

MWRDGC Data provided by Metropolitan Water Reclamation District of Greater Chicago and Cook County.

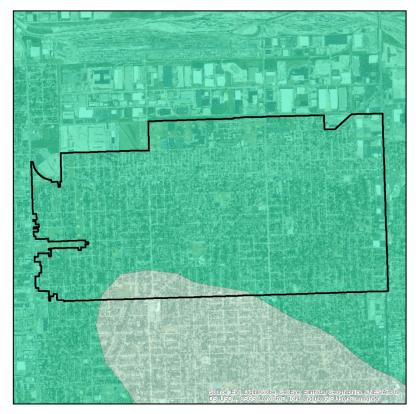
Chicago and Cook County

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 shall not be representations or vicinities express or rights for 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 insusse of the information continuation on this map is prohibited except by written permission of Cook County.

DISCLAIMER: The Cook County MWRDGC 100-year hundation Map is provided to show general flood risk information 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.







CITY OF BURBANK

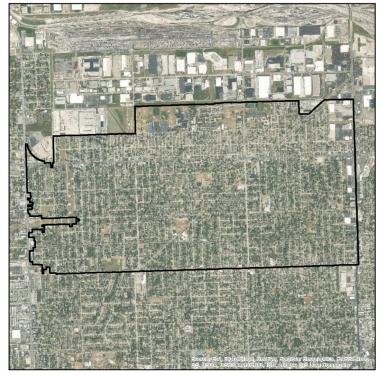
LIQUEFACTION SUSCEPTIBILITY

LIQUEFACTION SUSCEPTIBILITY

high low very low







CITY OF BURBANK

100- AND 500- YEAR TORNADO EVENTS

Magnitude

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

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



