

Berkeley

Hazard Mitigation Plan 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: 1924

Current Population: The 2020 U.S. Census population was 5,344. The 2022 U.S. Census estimate indicated the population was 5,145.

Population Growth: The overall population has decreased .06% between 2016 and 2022.

Location and Description: The Village of Berkeley is a suburb of Chicago in Cook County located 15 miles west of downtown Chicago. The neighboring towns that border Berkeley include: Northlake to the north, Hillside to the south, Bellwood to the east, and Elmhurst to the west. Located just one-half block from both the Tri-State and Eisenhower expressways, Berkeley is easily accessible to neighboring towns and connecting interstate highways. The Village of Berkeley is located on Cook County's western border. With Interstates 290 and 294 forming its western and part of its southern boundary, and the Union Pacific Railroad and the large Proviso classification yard to the north. Berkeley is also located just seven miles from Chicago's O'Hare International Airport and is the home to major corporations including World Dryer, Vanee Foods, and Preferred Meals. Berkeley is also adjacent to the Union Pacific Proviso Rail yard (Global II), which is one of the world's largest intermodal transportation facilities. The Village of Berkeley has a total land area of 1.40 square miles.

Brief History: Berkeley has ready access to the metropolitan region. Yet the transportation corridors that make Berkeley accessible to distant places also serve to separate the Village from its nearest neighbors (Elmhurst, Bellwood and Hillside) creating a small-town atmosphere. The 1902 completion of the Chicago, Aurora & Elgin Railroad (interurban) gave the area its first passenger rail service at a stop called Berkeley. Subdivision in 1908 and again in 1914–1915 brought residential construction and new residents, many of whom were English, to the area. At the initiative of these newcomers, the Village of Berkeley was incorporated in 1924. Although Berkeley is abundant with various types of business and industries, it continues to remain a predominantly residential community. Berkeley holds onto the small town feel of community, rich with diversity, history, and tradition.

Climate: Berkeley's climate is similar to that of the City of Chicago. As such, the climate 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.

Governing Body Format: The Village of Berkeley has the strong Village President form of Government retaining the Trustee-Village Form with the election of a Village President (Mayor) and six Trustees, all of whom are elected on an at-large basis (not representing specific wards or districts) for four-year terms. This body will assume the responsibility for the adoption and implementation of this plan. The Village operates 5 departments including: Administration, Building & Code Enforcement, Fire Department, Police Department, and Public Works.

Development Trends: Berkeley is an almost entirely built out community with minimal residential and commercial redevelopment occurring on an annual basis.

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
Codes, Ordinances & Requirements					
Building Code	Yes	No	No	Yes	Municipal Code 05-52 adopted: 2005
Zonings	Yes	No	No	Yes	(65 ILCS 5/) Illinois Municipal Code. Municipal Code 08-15 adopted: 2008
Subdivisions	Yes	No	No	No	Chapter 16 Village of Berkeley (VOB) 1960
Stormwater Management	No	No	Yes	Yes	State regulates industrial activity from Construction

					sites 1 acre or larger under section 402 CWA. MS4. MWRD
Post Disaster Recovery	No	No	No	No	
Real Estate Disclosure	Yes	No	Yes	Yes	(765 ILCS 77/) Residential Real Property Disclosure Act. Municipal Code 12-0, Adopted: 2012
Growth Management	Yes	No	No	No	February 2010 Comprehensive Plan
Site Plan Review	Yes	No	No	No	Municipal Code 05-52 adopted: 2005
Public Health and Safety	No	No	Yes	Yes	Cook County Board of Health. Municipal Code 08-15 adopted: 2008
Environmental Protection	Yes	No	No	No	NPDES
Planning Documents					
General or Comprehensive Plan	Yes	No	No	No	February 2010 Comprehensive Plan
<i>Is the plan equipped to provide integration to this mitigation plan?</i>					Plan includes land use and sustainable development elements
Floodplain or Basin Plan	Yes	No	Yes	No	MWRD
Stormwater Plan	No	No	Yes	No	MWRD-Lower Des Plains River Detailed Watershed Plan
Capital Improvement Plan	Yes	No	No	No	
<i>What types of capital facilities does the plan address?</i>					Projects Infrastructure
<i>How often is the plan revised/updated?</i>					6-year CIP, reviewed and

					updated annually
Habitat Conservation Plan	No	No	No	No	
Economic Development Plan	Yes	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 Planning					
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	
Continuity of Operations Plan	No	No	Yes	No	Cook County EMRS
Public Health Plans	No	No	Yes	No	Cook County DPH

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	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	Home Rule

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	Civil Tech
Engineers or professionals trained in building or infrastructure construction practices	Yes	Civil Tech
Planners or engineers with an understanding of natural hazards	Yes	Don Morris, Civil Tech, Baxter & Woodman
Staff with training in benefit/cost analysis	Yes	Finance, Public Works, Police Dept., Fire Dept., Building Dept.
Surveyors	Yes	Civil Tech
Personnel skilled or trained in GIS applications	Yes	Cook County GIS Consortium
Scientist familiar with natural hazards in local area	No	N/A
Emergency manager	Yes	Fire Chief
Grant writers	Yes	Contract for service

TABLE: NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE	
What department is responsible for floodplain management in your jurisdiction?	Admin, Public Works
Who is your jurisdiction's floodplain administrator? (department/position)	Admin
Are any certified floodplain managers on staff in your jurisdiction?	No
What is the date of adoption of your flood damage prevention ordinance?	NSFHA
When was the most recent Community Assistance Visit or Community Assistance Contact?	Unknown
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?	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

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:

Section 14.3.2 Definitions

SUBSTANTIAL DAMAGE: Damage of any origin sustained by a structure whereby the cumulative percentage of damage during the life of the building equals or exceeds fifty percent (50%) of the market value of the structure before the damage occurred regardless of actual repair work performed. Volunteer labor and materials must be included in this determination. The term includes repetitive loss buildings.

SUBSTANTIAL IMPROVEMENT: A. Any repairs, reconstruction or improvement of a structure, the cost of which equals or exceeds fifty percent (50%) of the market value of the structure either:

1. Before the improvement or repair is started; or
2. If the structure has been damaged and is being restored, before the damage occurred.

B. 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.

C. The term does not, however, include either:

1. Any project for the improvement of a structure to comply with existing state or local health, sanitary or safety code specifications which are solely necessary to assure safe living conditions; or
2. Any alteration of a structure listed on the national register of historic places or a state inventory of historic places.

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

TABLE: COMMUNITY CLASSIFICATIONS			
	Participating?	Classification	Date Classified
Community Rating System	No	--	--

Building Code Effectiveness Grading Schedule	Yes	Unknown	--
Public Protection/ISO	Yes	Unknown	--
StormReady	Yes	Gold (Countywide)	2014
Tree City USA	Yes	VOB	--

Opportunities to Expand and Improve Capabilities

At this time, the municipality did not include or identify any opportunities to expand and improve capabilities. Plans will be updated in the future should this change.

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 goals and actions of the Hazard Mitigation Plan will be considered in the next capital improvement planning process.
- The hazards, goals, and actions of the Hazard Mitigation Plan will be considered in the next update of the Comprehensive Plan.
- 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: N/A

Federal Disasters Declared

Disaster Number	Declaration	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

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
Flash Flood	-	8/4/2014	150,000 property damage.
Flood	DR-4116	4/26/2013	Flooding to town.
Snow Storm	-	2/01/2011	Deep amounts of snow.
Flood	DR-1800	9/13/2008	Flooding to town.

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.

Earthquake: The Village Hall/Police/Fire Department facility is dated and vulnerable to earthquake damage. A re-design and structural reinforcing is being considered as a future need in order to mitigate risk of collapse during seismic events.

Flood: In 2014, due to flash/urban flooding interstate 290 was closed between Harlem Avenue and Mannheim Road with portions of the interstate covered with up to four feet of water. Multiple cars were stranded in the water before it closed. A portion of the far-right eastbound lane buckled from the high water.

Tornado: The Village Hall/Police/Fire Department facility is dated and lacks sufficient protections against high-powered storms (Tornado events). The implementation of reinforced windows, a saferoom/shelter and new backup generator would help mitigate the threats posed by tornadoes.

June 15, 2022: High wind events with substantial damages were experienced, but no formal emergency declarations were made—a power outage for several days.

Indicator	Number	Percent
Families in poverty	7	0.5%
People with disabilities	770	14.8%
People over 65 years	960	18.4%
People under 5 years	400	7.7%
People of color	3,643	69.9%
Black	1,331	25.5%
Native American	20	0.4%
Hispanic	2,056	39.5%
Difficulty with English	391	8.1%
Households with no car	171	8.9%
Mobile homes	31	1.6%

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.

Hazard	Vulnerability
Current Vulnerability	
Dam and Levee Failure	Remained the Same
Drought	Remained the Same
Earthquake	Increased
Flood (Riverine, Urban, Shoreline)	Remained the Same
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)	Remained the Same

Hazard	Vulnerability
Future Vulnerability	

Dam and Levee Failure	No Change is Anticipated
Drought	No Change is Anticipated
Earthquake	Increase
Flood (Riverine, Urban, Shoreline)	No Change is Anticipated
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)	No Change is Anticipated

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
Current Vulnerability	
Dam and Levee Failure	Remained the Same
Drought	Remained the Same
Earthquake	Increased
Flood (Riverine, Urban, Shoreline)	Remained the Same
Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds)	Decreased
Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold)	Decreased
Tornado	Increased
Wildfire (Wildfire Smoke)	Remained the Same

Hazard	Vulnerability
Future Vulnerability	
Dam and Levee Failure	No Change is Anticipated
Drought	No Change is Anticipated
Earthquake	No Change is Anticipated
Flood (Riverine, Urban, Shoreline)	No Change is Anticipated
Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds)	No Change is Anticipated
Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold)	No Change is Anticipated
Tornado	No Change is Anticipated
Wildfire (Wildfire Smoke)	No Change is Anticipated

New and planned developments along the St. Charles Road corridor (5000-6000 block) will need to be designed in a way to mitigate the potential damage associated with flooding, earthquakes, tornadoes and other severe weather.

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
1	Severe Weather
2	Severe Winter Weather
3	Flood
4	Tornado
5	Earthquake
6	Drought
7	Dam Failure

New Mitigation Actions

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

Action B-7.14

Mitigation Action #B - 7.14: Village Hall Complex Project - Seismic Activity Mitigation					
Lead Agency/Department Organization: Public Safety Director- Police and Fire	Supporting Agencies/ Organizations: Village Administration	Estimated Cost: High	Potential Funding Source: General Fund Local or State Special Taxes Hazard Mitigation Grant Program (HMGP) FEMA Public Assistance (PA) Future Project-Funding will be sourced through local bonds and levees	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: Earthquake Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds) Severe Winter Weather (Ice Storm, Heavy Snow, Blizzards, Extreme Cold) Tornado
Year Initiated		2028			
Applicable Jurisdiction		Village of Berkeley			
Applicable Goal		1,2,3,4,5,6			
Applicable Objective		1,2,3,4,5,6,7,8			
Cost Analysis (Low, Medium, High)		Low - The project could be funded under the existing budget. The project is part of or can be part of an ongoing existing program.			
Priority and Level of Importance (Low, Medium, High)		Medium			
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)		High			
Action/Implementation Plan and Project Description:		The Village Hall Complex- Admin/Police/Fire, needs complete re-design/re-engineering to minimize the potential impact of future seismic events. The Village			

	Hall Complex as currently situated is an aging facility that is susceptible to catastrophic collapse in the event of a localized earthquake.
Actual Completion Date or Ongoing Indefinite	
Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed	N

Action B-7.15

Mitigation Action #B - 7.15: Village Hall Complex Project -Tornado Mitigation					
Lead Agency/Department Organization: Public Safety Director- Police and Fire	Supporting Agencies/ Organizations: Village Administration	Estimated Cost: High	Potential Funding Source: General Fund Local or State Special Taxes Hazard Mitigation Grant Program (HMGP) FEMA Public Assistance (PA) Future Project-Funding will be sourced through local bonds and levees	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: All
Year Initiated	2028				
Applicable Jurisdiction	Village of Berkeley				
Applicable Goal	1,2,3,4,5,6				
Applicable Objective	1,2,3,4,5,6,7,8,12				
Cost Analysis (Low, Medium, High)	High				
Priority and Level of Importance (Low, Medium, High)	Medium				
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)	High				

Action/Implementation Plan and Project Description:	The Village Hall Complex- Admin/Police/Fire, needs re-design/re-engineering to minimize the potential impact of future severe storms/tornado events. The Village Hall Complex, as currently situated, is an aging facility that is susceptible to catastrophic damage in the event of a localized tornado. Re-design should include new shutters, laminated glass in window panes, hail resistant roof covering and the implementation of a safe-room/shelter for employees and residents to utilize as cover.
Actual Completion Date or Ongoing Indefinite	
Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = 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-7.1

Mitigation Action #B - 7.1: Where appropriate, support retrofitting, purchasing, or relocating structures in hazard-prone areas to prevent future damage. Give priority to properties with exposure to repetitive losses.					
Lead Agency/Department Organization: Village of Berkeley Public Works	Supporting Agencies/Organizations:	Estimated Cost: High	Potential Funding Source: BRIC, HMGP	Estimated Projected Completion Date: Long-term (depending on funding)	Hazard(s) Mitigated: All
Year Initiated		2014			
Applicable Jurisdiction		Village of Berkeley			
Applicable Goal		2, 3			
Applicable Objective		7, 13			
Cost Analysis (Low, Medium, High)		Low			
Priority and Level of Importance (Low, Medium, High)		Medium			
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)		High			

Action/Implementation Plan and Project Description:	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.
Actual Completion Date or Ongoing Indefinite	
Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed	O

Action B-7.2

Mitigation Action #B - 7.2: Continue to support the countywide actions identified in this plan.					
Lead Agency/Department Organization: Village of Berkeley Administration	Supporting Agencies/ Organizations:	Estimated Cost: Low	Potential Funding Source: General Fund	Estimated Projected Completion Date: Short- and long-term	Hazard(s) Mitigated: All
Year Initiated	2014				
Applicable Jurisdiction	Village of Berkeley				
Applicable Goal	All				
Applicable Objective	All				
Cost Analysis (Low, Medium, High)	Low				
Priority and Level of Importance (Low, Medium, High)	High				
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)	Medium				
Action/Implementation Plan and Project Description:	We continue with our support for county-wide action.				
Actual Completion Date or Ongoing Indefinite					
Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed	O				

Action B-7.3

Mitigation Action #B - 7.3: Actively participate in the plan maintenance strategy identified in this plan.					
Lead Agency/Department Organization: EMRS, Village of Berkeley Administration	Supporting Agencies/ Organizations:	Estimated Cost: Low	Potential Funding Source: General Fund	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: All
Year Initiated		2014			
Applicable Jurisdiction		Village of Berkeley			
Applicable Goal		1, 2, 3			
Applicable Objective		3, 4, 6			
Cost Analysis (Low, Medium, High)		Low			
Priority and Level of Importance (Low, Medium, High)		High			
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)		Medium			
Action/Implementation Plan and Project Description:		We participate when possible or funds can be allocated.			
Actual Completion Date or Ongoing Indefinite					
Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed		O			

Action B-7.4

Mitigation Action #B - 7.4: Consider participation in incentive-based programs such as Tree City and StormReady.					
Lead Agency/Department Organization: Village of Berkeley Administration	Supporting Agencies/ Organizations:	Estimated Cost: Low	Potential Funding Source: General Fund	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: All
Year Initiated		2014			
Applicable Jurisdiction		Village of Berkeley			
Applicable Goal		1, 2, 5, 6			
Applicable Objective		3, 4, 5, 6, 7, 9, 10, 11, 13			
Cost Analysis (Low, Medium, High)		Low			
Priority and Level of Importance (Low, Medium, High)		Medium			

Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)	Medium
Action/Implementation Plan and Project Description:	We still consider this.
Actual Completion Date or Ongoing Indefinite	
Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed	O

Action B-7.5

Mitigation Action #B - 7.5: Maintain good standing under the National Flood Insurance Program by implementing programs that meet or exceed the minimum NFIP requirements. Such programs include enforcing an adopted flood damage prevention ordinance, participating in floodplain mapping updates, and providing public assistance and information on floodplain requirements and impacts.					
Lead Agency/Department Organization: Village of Berkeley Administration	Supporting Agencies/ Organizations:	Estimated Cost: Low	Potential Funding Source: General Fund	Estimated Projected Completion Date: Short- and long-term	Hazard(s) Mitigated: Flooding
Year Initiated	2014				
Applicable Jurisdiction	Village of Berkeley				
Applicable Goal	1, 2, 3, 6				
Applicable Objective	4, 6, 9				
Cost Analysis (Low, Medium, High)	Low				
Priority and Level of Importance (Low, Medium, High)	High				
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)	Medium				
Action/Implementation Plan and Project Description:	We do all possible to address our flooding issues				
Actual Completion Date or Ongoing Indefinite					
Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed	O				

Action B-7.6

Mitigation Action #B - 7.6: Where feasible, implement a program to record high water marks following high water events.					
Lead Agency/Department Organization: Village of Berkeley Public Works	Supporting Agencies/ Organizations:	Estimated Cost: Medium	Potential Funding Source: General Fund, FEMA Public Assistance (PA)	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: Flooding, Severe Weather
Year Initiated		2014			
Applicable Jurisdiction		Village of Berkeley			
Applicable Goal		1, 2, 3			
Applicable Objective		3, 6, 9			
Cost Analysis (Low, Medium, High)		Medium			
Priority and Level of Importance (Low, Medium, High)		Medium			
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)		Medium			
Action/Implementation Plan and Project Description:					
Actual Completion Date or Ongoing Indefinite					
Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed		O			

Action B-7.7

Mitigation Action #B - 7.7: Integrate the hazard mitigation plan into other plans, programs, or resources that dictate land use or redevelopment.					
Lead Agency/Department Organization: Civil Tech	Supporting Agencies/ Organizations:	Estimated Cost: Low	Potential Funding Source: General Fund	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: All
Year Initiated		2014			
Applicable Jurisdiction		Village of Berkeley			
Applicable Goal		1, 2, 3			
Applicable Objective		3, 4, 6, 10, 13			

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

Action B-7.8

Mitigation Action #B - 7.8: Meeting with MWRD regarding preventative measures regarding flooding during severe weather periods.					
Lead Agency/Department Organization: MWRD, Village of Berkeley	Supporting Agencies/ Organizations:	Estimated Cost: High	Potential Funding Source: MWRD-Phase II, Bonds, HMGP, BRIC	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: Flood, Severe Weather
Year Initiated	2014				
Applicable Jurisdiction	Village of Berkeley				
Applicable Goal	1, 2, 3, 4, 5				
Applicable Objective	1, 2, 7, 8, 9, 10				
Cost Analysis (Low, Medium, High)	High				
Priority and Level of Importance (Low, Medium, High)	Medium				
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)	High				
Action/Implementation Plan and Project Description:					
Actual Completion Date or Ongoing Indefinite					
Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed	O				

Action B-7.11

Mitigation Action #B - 7.11: Continue participating in mutual aid agreements and agreements with adjoining jurisdictions for cooperative response to all hazards and disasters.					
Lead Agency/Department Organization: Village of Berkeley Administration	Supporting Agencies/ Organizations:	Estimated Cost: Low	Potential Funding Source: General Fund	Estimated Projected Completion Date: Short-term and Ongoing	Hazard(s) Mitigated: All
Year Initiated		2014			
Applicable Jurisdiction		Village of Berkeley			
Applicable Goal		1, 2, 3			
Applicable Objective		2, 4			
Cost Analysis (Low, Medium, High)		Low			
Priority and Level of Importance (Low, Medium, High)		High			
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)		High			
Action/Implementation Plan and Project Description:		Will continue and enter into any new agreements as required			
Actual Completion Date or Ongoing Indefinite					
Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed		O			

Action B-7.12

Mitigation Action #B - 7.12: Utilize footage from newly installed camera to identify and fix storm and sanitary sewers that have blockage(s) or breach(es).					
Lead Agency/Department Organization: Village of Berkeley Public Works	Supporting Agencies/ Organizations:	Estimated Cost: \$50,000	Potential Funding Source: General Fund	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: Flood
Year Initiated		2019			
Applicable Jurisdiction		Village of Berkeley			
Applicable Goal		1, 5, 6			
Applicable Objective		6, 9			

Cost Analysis (Low, Medium, High)	Low - The project could be funded under the existing budget. The project is part of or can be part of an ongoing existing program.
Priority and Level of Importance (Low, Medium, High)	High Priority
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)	Will identify sewers that need repair or remediation, project will have a long-term impact on the reduction of risk exposure for life and property, or project will provide an immediate reduction in the risk exposure for property.
Action/Implementation Plan and Project Description:	Camera has been purchased and televising has started
Actual Completion Date or Ongoing Indefinite	
Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed	O

Completed Actions

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

Completed Action Items
Improvement to Emergency warning sirens by adding more to system so they can be heard in the entire Village
McDermott Drive/Morris Avenue Storm Sewer Improvements

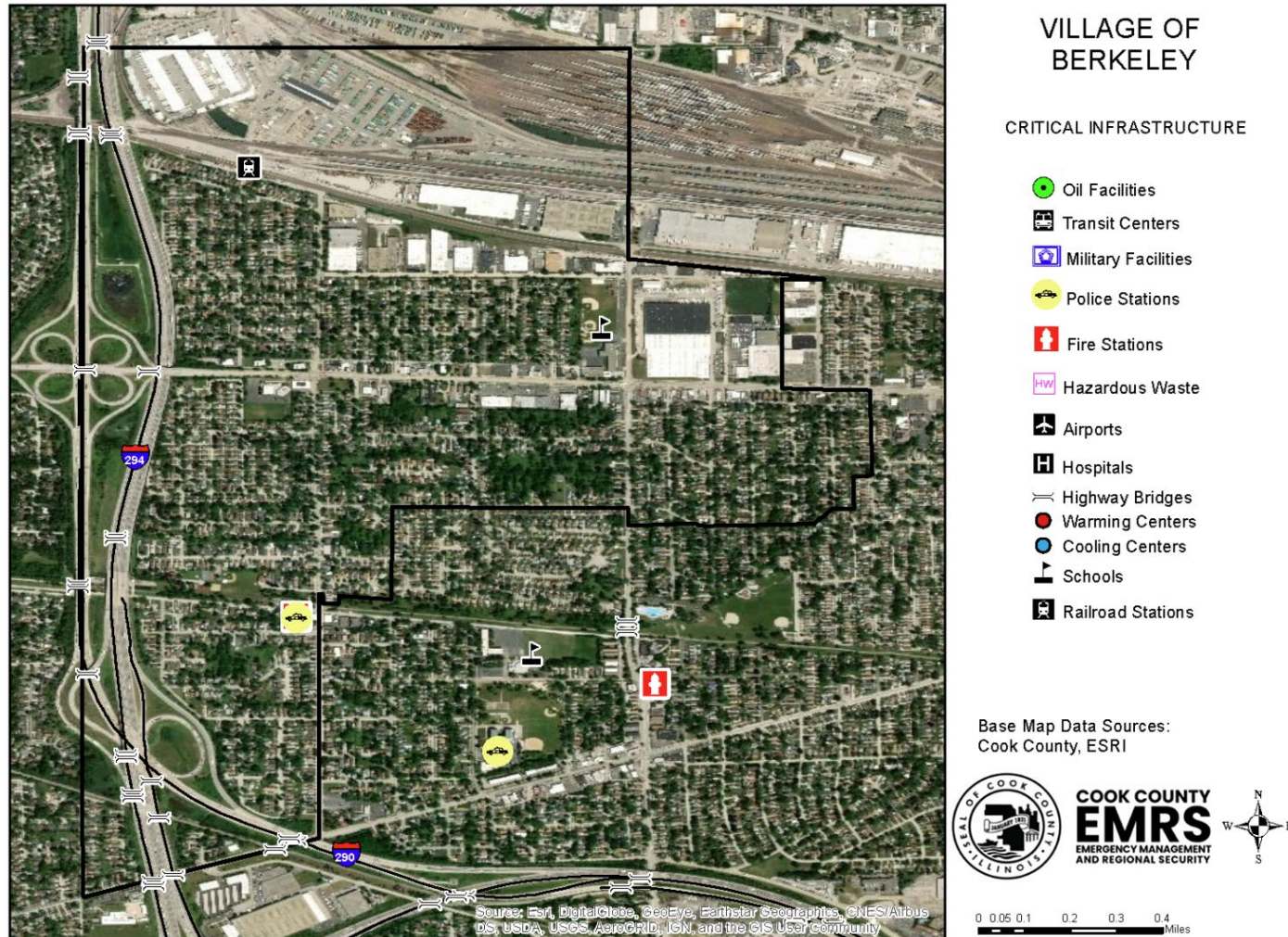
Future Needs to Better Understand Risk/Vulnerability

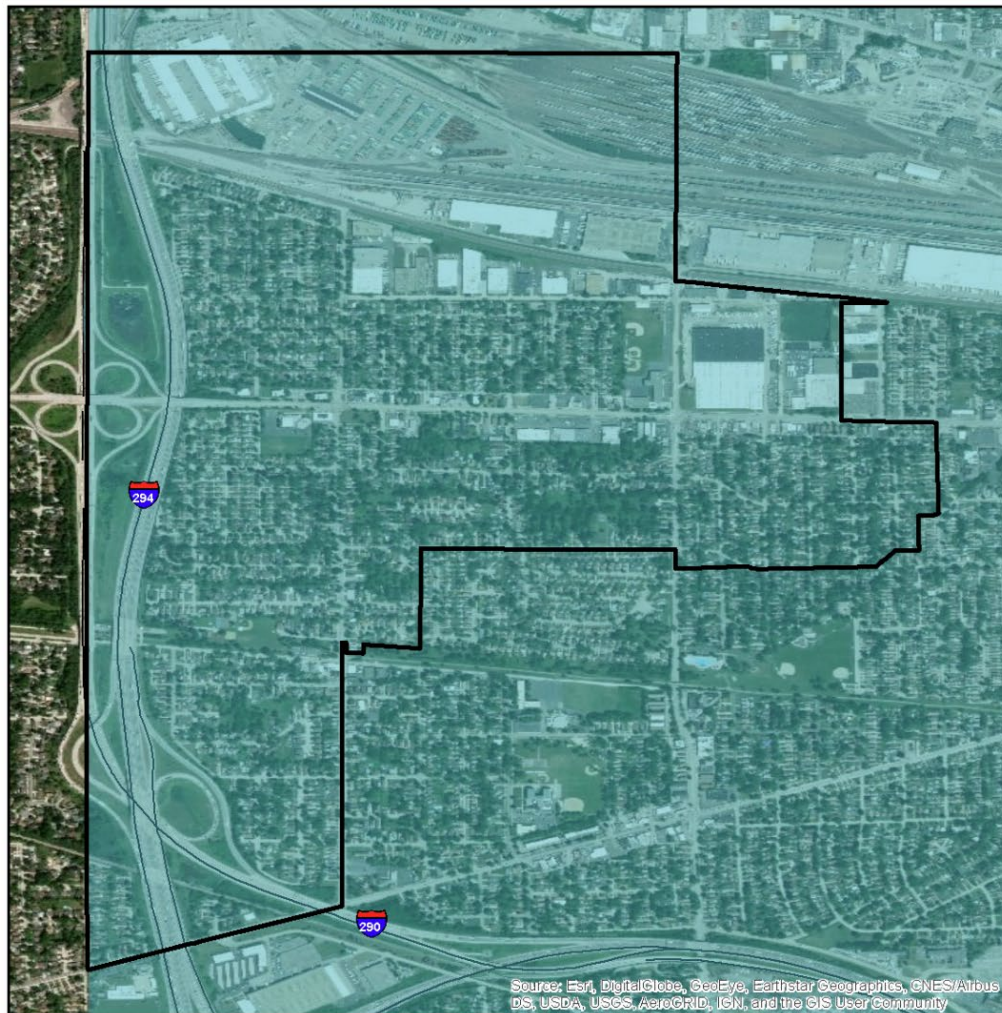
Future needs, as determined by the 2024 Mitigation Assessment includes: Redesign of Village Hall Complex- Admin/Police/Fire to increase resiliency towards tornados, severe weather events and potential earthquakes. This has been determined to be a long-term, medium priority goal that will not be reviewed as part of the Village's next long-term strategic goals workshop.

Additional Comments

No additional comments have been identified 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 BERKELEY

PEAK GROUND ACCELERATION FOR A 100 YEAR EARTHQUAKE EVENT

Mercalli Scale, Potential Shaking

II-III Weak

Data provided by the USGS Earthquake Hazards Program and Cook County.

Probabilistic seismic-hazard maps were prepared for the conterminous United States for 2014 portraying peak horizontal acceleration and horizontal spectral response acceleration for 0.2- and 1.0-second periods with probabilities of exceedance of 10 percent in 50 years and 2 percent in 50 years. All of the maps were prepared by combining the hazard derived from spatially smoothed historical seismicity with the hazard from fault-specific sources. The acceleration values contoured are the random horizontal component. The reference site condition is firm rock, defined as having an average shear-wave velocity of 760 m/s in the top 30 meters corresponding to the boundary between NEHRP (National Earthquake Hazards Reduction Program) site classes B and C.

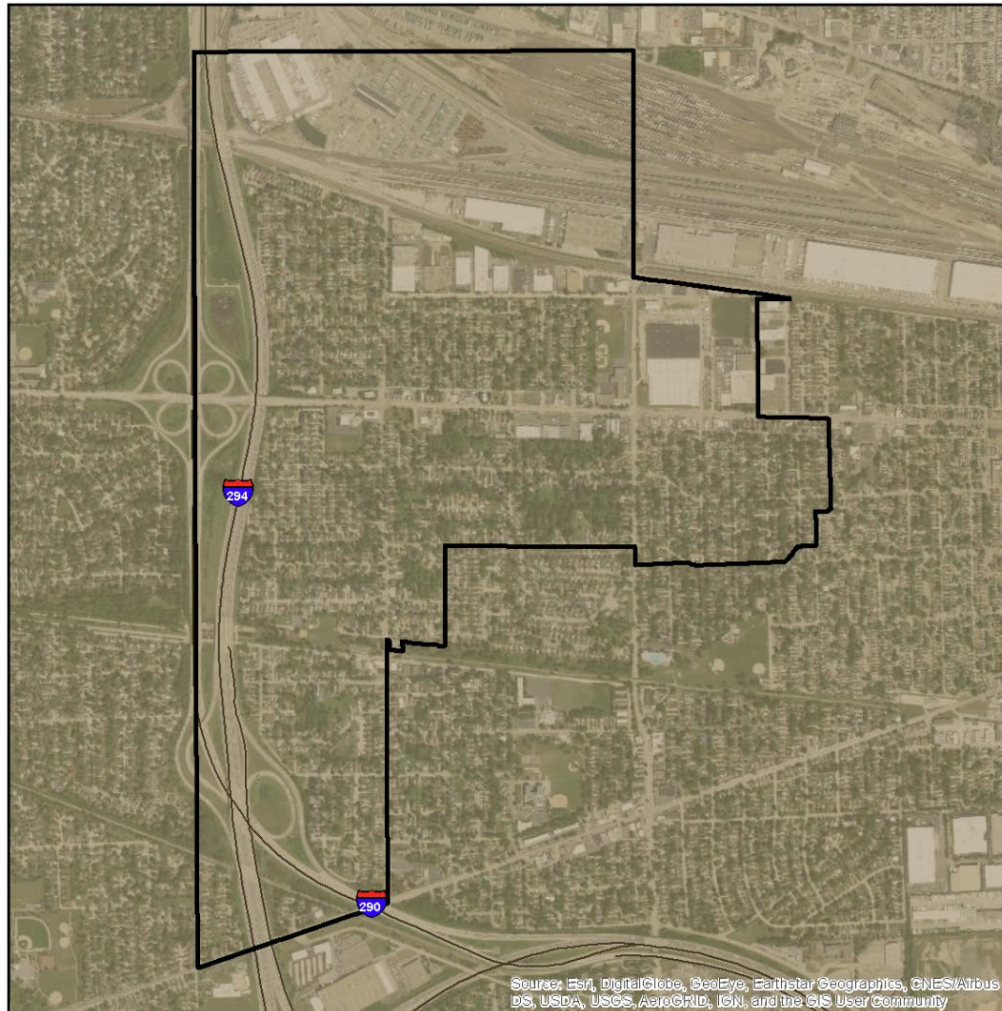
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Miles



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

VILLAGE OF BERKELEY

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 I work. The USGS Geologic Investigation Series I-2789 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.

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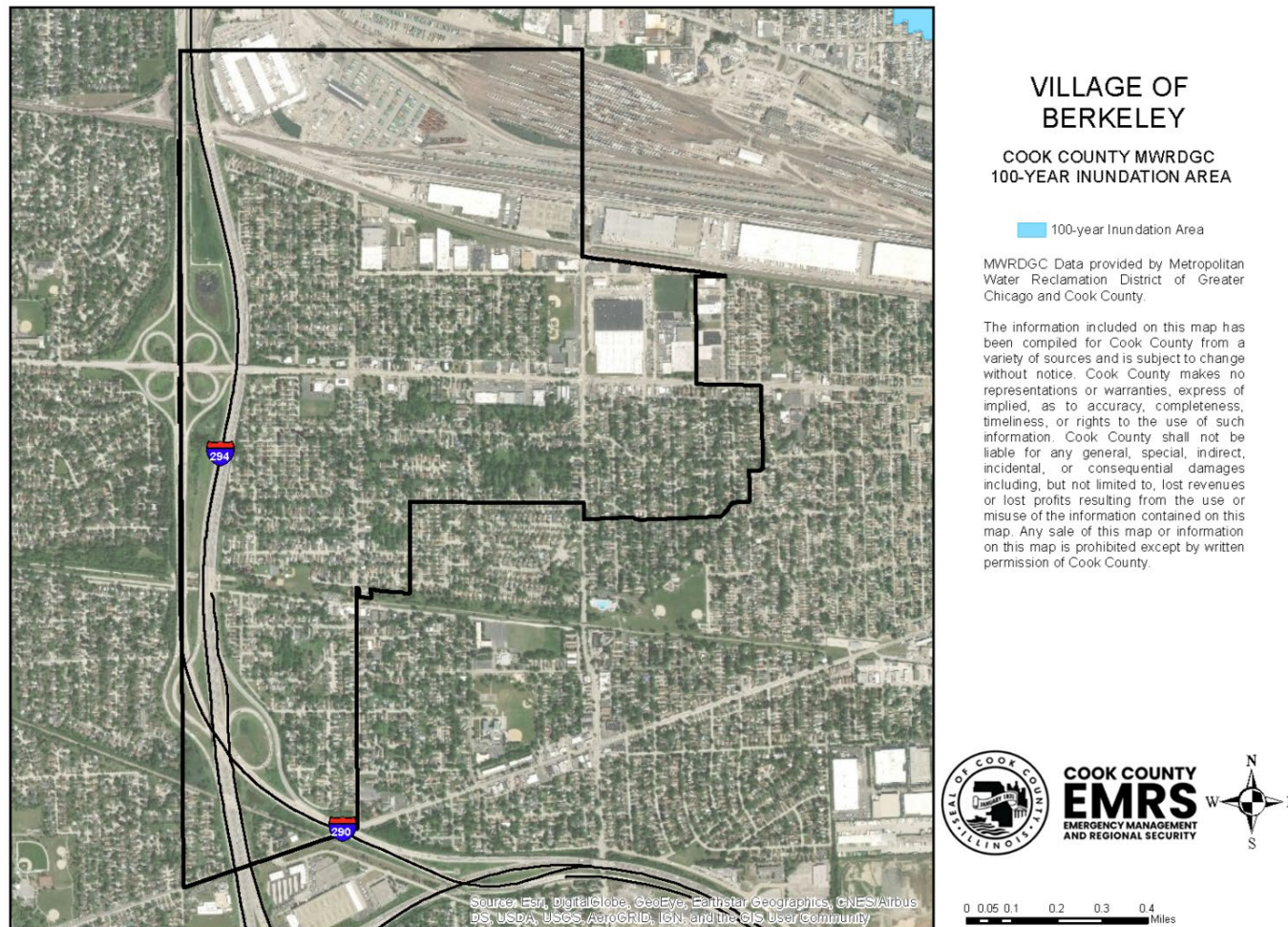


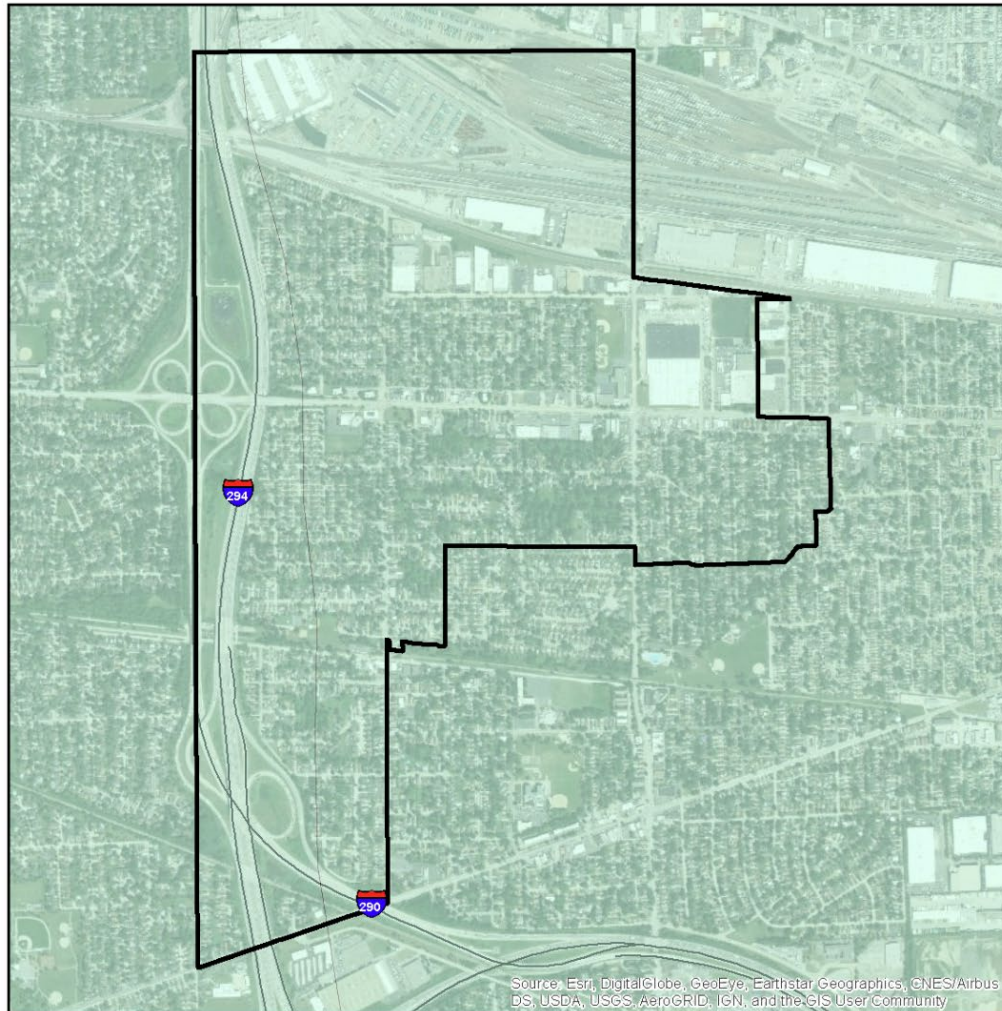
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DISCLAIMER: The Cook County MWRDGC 100-year Inundation Map is provided to show general flood risk information regarding floodplains and inundation areas. This map is not regulatory. Official FEMA Flood Insurance Study information and regulatory maps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





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

VILLAGE OF BERKELEY

LIQUEFACTION SUSCEPTIBILITY

LIQUEFACTION SUSCEPTIBILITY

- high
- low
- very low

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 I work. The USGS Geologic Investigation Series I-2789 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.

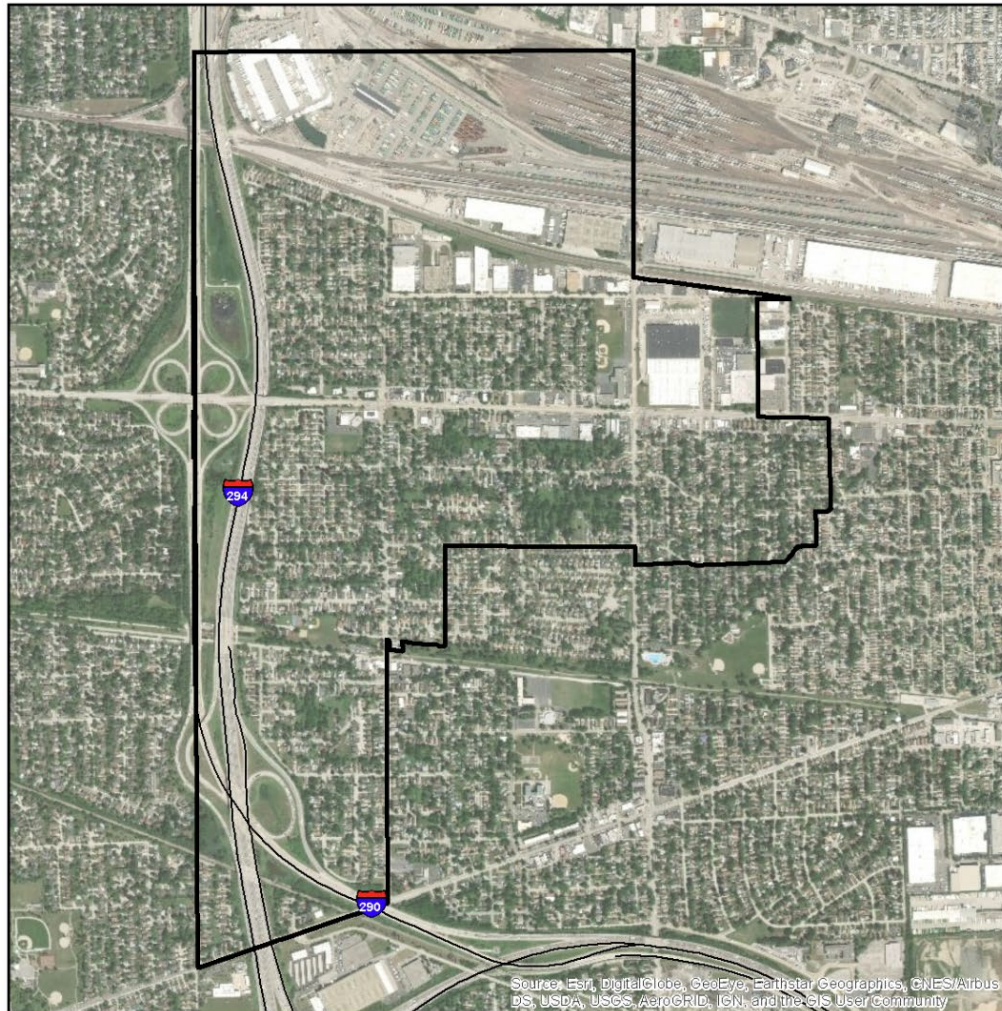
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Miles



VILLAGE OF BERKELEY

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.



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