

## Bedford Park

### Hazard Mitigation Plan Point of Contact

| Primary Point of Contact  | Alternate Point of Contact   |
|---|--|
| Tom Hansen, Police Chief<br>6701 South Archer Road<br>Bedford Park, IL 60501<br>Telephone: 708-563-4506<br>Email Address: thansen@bedfordparkpd.com | Dan Johnson, Fire Chief<br>6820 South Archer Road<br>Bedford Park, IL 60501<br>Telephone: 708-563-4510 Ext. 103<br>Email Address: djohnson@bedfordparkfd.org |

### Jurisdiction Profile

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

**Date of Incorporation:** 1940

**Current Population:** The 2022 U.S. Census estimate indicated the population was 586. ([Source: City-Data](#))

**Population Growth:** The overall population has increased .69 percent between 2016 and 2022.

**Location and Description:** The Village of Bedford Park is a suburb of Chicago, located on the southwest side of the city only two blocks from Midway Airport. The eastern border of the Village is on Cicero Avenue (IL Rt. 50) and runs west for about five miles to the Des Plaines River. The village borders the City of Chicago and the Village of Summit on the north and the Villages of Justice and Bridgeview and the City of Burbank on the south.

**Brief History:** The Village of Bedford Park was incorporated in 1940. However, settlement of both businesses and residents predates the incorporation date. The Corn Products Refining Company moved to the area in 1907. Also during the early 1900s, a railroad yard was built that brought in business to the east side of what is now Bedford Park. These two developments, still in Bedford Park today, drove the development of the Village.

**Climate:** The climate of Chicago 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 Bedford Park is governed by a Village President and six trustees, all elected at large for four year terms. This body will assume the responsibility for the adoption and implementation of this plan. There are four (4) departments providing services: Fire, Police, Water, and Public Works. There are also several community based committees established

under the charter that report to the Village President. Bedford Park is in Illinois' 3rd congressional district.

**Development Trends:** The Village of Bedford Park is land locked on all sides by other established communities. There is not an opportunity to annex land unless another town was to de-annex an area. The current zoning has changed little in over 20 years and most of the property in the village has been developed.

**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            | IBC-2021 (w/Amendments)<br>Title VII - Bedford Park Village Code               |
| Zonings                                     | Yes             | No                            | No                             | Yes            | Title VI- Bedford Park Village Code. Ord. 37, 9-11-41 (amended several times). |
| Subdivisions                                | Yes             | No                            | No                             | No             | Title VI - Bedford Park Village Code   |
| Stormwater Management                       | Yes             | No                            | Yes                            | No             | Title VII - Bedford Park Village Code (Chapter 7)                              |
| Post Disaster Recovery                      | Yes             | No                            | No                             | No             | Title II Chap 2. Bedford Park Village Code. Ord. 86-777. 1986                  |
| Real Estate Disclosure                      | No              | No                            | Yes                            | Yes            | (765 ILCS 77/) Residential Real  |

|                               |     |    |    |    |   |
|-------------------------------|-----|----|----|----|---|
|                               |     |    |    |    | Property Disclosure Act.  |
| Growth Management             | No  | No | No | No | Title II - Bedford Park Village Code (Chapter 6)  |
| Site Plan Review              | Yes | No | No | No | Title VII - Bedford Park Village Code (Chapter 5)   |
| Public Health and Safety      | No  | No | No | No | Cook County Department of Health<br>Stickney Township Public Health<br>Department Title IV - Bedford Park Village Code  |
| Environmental Protection      | No  | No | No | No | Air Pollution control. Title IV, Chap 3. Bedford Park Village Code. Ord. 522, 5-1-1967.   |
| <b>Planning Documents</b>     |     |    |    |    |   |
| General or Comprehensive Plan | No  | No | No | No | Title II - Bedford Park Village Code (Chapter 3)<br>- To prepare and recommend to the board of trustees a comprehensive plan of public improvements looking to the present and future development of the village, which plan shall be known as the official plan of the village. Such plan shall include reasonable requirements in reference to streets, alleys and public grounds in unsubdivided |

|   |     |    |     |     |  |
|---|-----|----|-----|-----|--|
|   |     |    |     |     | lands within the corporate limits and in contiguous territory outside of and distant not more than one and one-half (1 1/2) miles from such limits, and not included in any municipality. Such requirements to be effective whenever such lands shall be subdivided after the adoption of such plan. Currently, no comprehensive plan. |
| <i>Is the plan equipped to provide integration to this mitigation plan?</i> |     |    |     |     | N/A  |
| Floodplain or Basin Plan  | No  | No | No  | No  | Title XIII - Bedford Park Village Code   |
| Stormwater Plan   | No  | No | No  | No  | Title VII - Bedford Park Village Code (Chapter 7)  |
| Capital Improvement Plan  | Yes | No | No  | No  | Title I - Bedford Park Village Code (Chapter 15)   |
| <i>What types of capital facilities does the plan address?</i>              |     |    |     |     | Municipal buildings, streets, water mains, sewers, retention basins  |
| <i>How often is the plan revised/updated?</i>                               |     |    |     |     | 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  |  |
| <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  | Homeland Security Emergency Management (HSEM)                        |
| Terrorism Plan                                       | No  | No | Yes | Yes | Department of Homeland Security (DHS)                                |
| Post-Disaster Recovery Plan                          | No  | No | No  | No  | Federal Emergency Management Agency (FEMA)                           |
| Continuity of Operations Plan                        | Yes | No | Yes | No  | Federal Emergency Management Agency (FEMA)                           |
| 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                 | 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            | No                                    |
| Withhold Public Expenditures in Hazard-Prone Areas   | Yes                                   |
| State Sponsored Grant Programs                       | Yes                                   |
| Development Impact Fees for Homebuyers or Developers | Yes                                   |
| Other  | N/A                                   |

| <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 | Building/Village Engineer                          |
| Engineers or professionals trained in building or infrastructure construction practices | Yes | Building/Village Engineer                          |
| Planners or engineers with an understanding of natural hazards                          | Yes | Building/Village Engineer                          |
| Staff with training in benefit/cost analysis  | Yes | Chief Administrative Finance Officer               |
| Surveyors   | Yes | Village contractor/engineering firm                |
| 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 | Emergency Services and Disaster Agency coordinator |
| Grant writers   | Yes | Fire Dept.   |

| <b>TABLE: NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE</b>   |  |
|---|--|
| What department is responsible for floodplain management in your jurisdiction?  | Village Engineer   |
| Who is your jurisdiction's floodplain administrator? (department/position)  | Village Engineer   |
| Are any certified floodplain managers on staff in your jurisdiction?  | 12-21-2000   |
| What is the date of adoption of your flood damage prevention ordinance?   | Unknown  |
| When was the most recent Community Assistance Visit or Community Assistance Contact?  | No   |
| Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? If so, please state what they are.  | No. We have issues with urban runoff not associated with flood plain maps. |
| Do your flood hazard maps adequately address the flood risk within your jurisdiction? (If no, please state why)   | Urban runoff   |
| 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? | Village Engineer   |

### **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:*

[https://codelibrary.amlegal.com/codes/bedfordparkil/latest/bedfordpark\\_il/0-0-0-6550](https://codelibrary.amlegal.com/codes/bedfordparkil/latest/bedfordpark_il/0-0-0-6550)

**13-1-2 Definitions**

**SUBSTANTIAL DAMAGE:** A building is considered substantially damaged when it sustains damage from any cause (fire, flood, earthquake, etc.), whereby the cost of fully restoring the structure would equal or exceed fifty percent (50%) of the predamage market value of the structure, regardless of the actual repair work performed.

**SUBSTANTIAL IMPROVEMENT:** (A) Any repair, 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.

**13-1-4 Duties of the Enforcement Official**

The village engineer or other village representative as appointed by the president shall be responsible for the general administration and enforcement of this chapter which shall include the following:

**(A) Determining The Floodplain Designation:**

1. Check all new development sites to determine whether they are in a special flood hazard area (SFHA).
2. If they are in an SFHA, determine whether they are in a floodway, flood fringe or in a floodplain for which a detailed study has not been conducted and which drains more than one square mile.

**(B) Professional Engineer Review:**

1. If the development site is within a floodway or in a floodplain for which a detailed study has not been conducted and which drains more than one square mile, the permit shall be referred to a registered professional engineer under the employ or contract of the village for review to ensure that the development meets section 13-1-7 or 13-1-8 of this chapter.
2. In the case of an appropriate use, the PE shall state in writing that the development meets the requirements of section 13-1-7 of this chapter.

**13-1-9 Permitting Requirements Applicable to all Floodplain Areas and Protection of Buildings**

In addition to the requirements found in sections 13-1-6, 13-1-7 and 13-1-8 of this chapter for development in flood fringes, designated floodways, and SFHA or floodplains where no floodways have been identified (zones A, AO, AH, AE, A1-A30, A99, VO, V1-30, VE, V, M, E, D, or X), the following requirements shall be met:

**(C) Protecting Buildings:**

1. All buildings located within a 100-year floodplain also known as an SFHA, shall be protected from flood damage below the flood protection elevation. This building protection criteria applies to the following situations:

- (a) Construction or placement of a new building;
- (b) "Substantial improvement" to an existing building as defined in section 13-1-2 of this chapter;
- (c) "Substantial damage" to an existing building as defined in section 13-1-2 of this chapter;
- (d) Installing a manufactured home on a new site or a new manufactured home on an existing site. This building protection requirements does not apply to returning a mobile home to the same site it lawfully occupied before it was removed to avoid flood damage; and
- (e) Installing a travel trailer on a site for more than one hundred eighty (180) days.

2. This building protection requirement may be met by one of the following methods. A residential or nonresidential building, when allowed, may be constructed on permanent land fill in accordance with the following:

- (a) Lowest Floor: The lowest floor (including basement) shall be at or above the flood protection elevation.
- (b) Fill Requirements:
  - (1) The fill shall be placed in layers no greater than one foot (1') deep before compaction and should extend at least ten feet (10') beyond the foundation of the building before sloping below the flood protection elevation.
  - (2) The top of the fill shall be above the flood protection elevation. However, the ten foot (10') minimum may be waived if a structural engineer certifies an alternative method to protect the building from damages due to hydrostatic pressures.
  - (3) The fill shall be protected against erosion and scour.
  - (4) The fill shall not adversely affect the flow or surface drainage from or onto neighboring properties.

3. A residential or nonresidential building may be elevated in accordance with the following:

- (a) The building or improvements shall be elevated on crawl space, stilts, piles, walls, or other foundation that is permanently open to floodwaters and not subject to damage by hydrostatic pressures of the base flood or 100-year frequency flood. The permanent openings shall be no more than one foot (1') above existing grade, and consists of a minimum of two (2) openings. The openings must have a total net area of not less than one square inch for every one square foot of enclosed area subject to flooding below the base flood elevation.
- (b) The foundation and supporting members shall be anchored and aligned in relation to flood flows and adjoining structures so as to minimize exposure to known hydrodynamic forces such as current, waves, ice and floating debris.
- (c) All areas below the flood protection elevation shall be constructed of materials resistant to flood damage.
  - (1) The lowest floor (including basement) and all electrical, heating, ventilating, plumbing, and air conditioning equipment and utility meters shall be located at or above the flood protection elevation.



(2) Water and sewer pipes, electrical and telephone lines, submersible pumps, and other waterproofed service facilities may be located below the flood protection elevation.

(d) The areas below the flood protection elevation may only be used for the parking of vehicles, building access or storage in an area other than a basement.

(e) Manufactured homes, and travel trailers to be installed on a site for more than one hundred eighty (180) days, shall be elevated to or above the flood protection elevation; and, shall be anchored to resist flotation, collapse, or lateral movement by being tied down in accordance with the rules and regulations for the Illinois mobile home tie-down act issued pursuant to 77 Illinois administrative code part 870. In addition, all manufactured homes shall meet the following elevation requirements:

(1) In the case of manufactured homes placed or substantially improved: a) outside of a manufactured home park or subdivision, b) in a new manufactured home park or subdivision, c) in an expansion to an existing manufactured home park or subdivision, or d) in an existing manufactured home park or subdivision on which a manufactured home has incurred substantial damage from a flood, the top of the lowest floor shall be elevated to or above the flood protection elevation.

(2) In the case of manufactured homes placed or substantially improved in an existing manufactured home park or subdivision, the manufactured home shall be elevated so that either the top of the lowest floor is above the base flood elevation or the chassis is at least thirty six inches (36") in height above grade and supported by reinforced piers or other foundations of equivalent strength, whichever is less.

(f) Recreational vehicles or travel trailers shall be required to meet the elevation and anchoring requirements of subsection (C)3(e) of this section unless:

(1) They are on site for fewer than one hundred eighty (180) consecutive days; and

(2) They are fully licensed and ready for highway use. A recreational vehicle is ready for highway use if it is on its wheels or jacking system, is attached to the site only by quick disconnect type utility and service devices, and has no permanently attached additions.

4. Only a nonresidential building may be structurally dry floodproofed (in lieu of elevation) provided that:

(a) A registered professional engineer shall certify that the building has been structurally dry floodproofed below the flood protection elevation, the structure and attendant utility facilities are watertight and capable of resisting the effects of the base flood or 100-year frequency flood.

(b) The building design shall take into account flood velocities, duration, rate of rise, hydrostatic and hydrodynamic forces, the effects of buoyancy, and impacts from debris or ice.

(c) Floodproofing measures shall be operable without human intervention and without an outside source of electricity (levees, berms, floodwalls and similar works are not considered floodproofing for the purpose of this subsection).

5. Existing buildings located within a designated floodway shall also meet the more restrictive appropriate use standards included in section 13-1-7 of this chapter. Nonconforming structures

located in a designated floodway may remain in use and may only be enlarged, replaced or structurally altered in accordance with subsection 13-1-7(B) of this chapter. A nonconforming structure damaged by flood, fire, wind or other natural or manmade disaster may be restored unless the damage exceeds fifty percent (50%) of its market value before it was damaged, in which case it shall conform to this chapter. (Ord. 00-1075, 12-21-2000)

| <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<br>Grading Schedule | Yes                   | Unknown               | N/A                    |
| Public Protection/ISO                           | Yes                   | Class 1               | 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:

- Codes and ordinances related to hazard mitigation within the community.
- Identify and train Village personnel to utilize GIS applications.
- Partner with area scientists who can conduct surveys to identify local hazards within the community as well as the effects those hazards may pose on the community.

### **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 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 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                          |

### State Disaster Declarations

| Date Declared   | Event  |
|---|--|
| 7/26/2010   | Severe Storms, High Winds, Torrential Rain                   |
| 1/31/2011   | Winter Weather   |
| 4/25/2011<br>5/25/2011  | High Wind, Tornadoes, Torrential Rain                        |
| 4/18/2013<br>4/20/2013<br>4/21/2013<br>4/25/2013<br>4/30/2013 | Severe Storms, Heavy Rainfall, Flooding, Straight-line Winds |
| 1/6/2014  | Heavy Snowfall, Frigid Temperatures                          |
| 7/12/2017<br>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<br>(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 |
| Extreme Cold/Snow            | -                                    | 1/6/2014   | -  |
| Severe Storms/Wind/Flooding  | DR-4116                              | 4/26/2013  | -  |
| Winter Storm/Snow            | DR-1960                              | 1/30/2013  | -  |
| Winter Storm/Snow            | DR-1960                              | 1/31/2011  | -  |
| Storms/Flooding              | DR-1935                              | 7/19/2010  | -  |
| Storms/Flooding              | DR-1800                              | 9/13/2008  | -  |
| Storms/Flooding              | DR-1729                              | 8/20/2007  | -  |
| Winter Storm                 | EM-3161                              | 12/11/2000 | -  |
| Winter Storm                 | EM-3124                              | 1/1/1999   | -  |
| Floods                       | DR-1188                              | 8/16/1997  | -  |
| Floods                       | 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.

**Thunderstorm/Wind:** Bedford Park has experienced numerous thunderstorm wind events throughout the village. Impacts have included damage to property (particularly in the industrial areas of the village), trees, and power lines.

**Earthquake:** The Village of Bedford Park includes a large industrial park with numerous manufacturing facilities, chemical facilities, and a large railroad yard. A study of potential risks to the community of these facilities as the result of an earthquake should be initiated.

**Flood:** Urban flooding incidences have occurred frequently within Bedford Park. Bedford Park is located within a very high urban flooding susceptibility zone, so mitigation actions for this hazard are of high priority to the Village.

**Drought:** Drought is a hazard that impacts the entire region, and even though a significant drought has not been experienced in Bedford Park within the last decade, the effects of climate change make this more of a risk worth mitigating going forward.

**Tornado:** The Village of Bedford Park includes a large industrial park with numerous manufacturing facilities, chemical facilities, and a large railroad yard. A study of potential risks to the community of these facilities as the result of a tornado should be initiated.

| Indicator                | Number | Percent |
|--------------------------|--------|---------|
| Families in poverty      | 586    | 9.5%    |
| People with disabilities | 2,684  | 11%     |
| People over 65 years     | 4,053  | 16.3%   |
| People under 5 years     | 1,606  | 6.5%    |
| People of color          | 10,862 | 43.7%   |
| Black                    | 1,134  | 4.6%    |
| Native American          | 282    | 1.1%    |
| Hispanic                 | 8,970  | 36.1%   |
| Difficulty with English  | 2,259  | 9.7%    |
| Households with no car   | 735    | 8.6%    |
| Mobile homes             | 739    | 8.6%    |

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

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

| Hazard                      | Vulnerability |
|-----------------------------|---------------|
| <b>Future Vulnerability</b> |               |

|   |                          |
|---|--------------------------|
| Dam and Levee Failure   | Not Applicable           |
| 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 |

Our community does not anticipate future major assets may be exposed or vulnerable to any of the natural hazards identified in this Hazard Mitigation Plan. Any new assets (e.g., new construction in hazard prone areas) will be constructed to adhere to the latest building codes and standards, and mitigation to protect them from identified and anticipated hazards, especially those that are expected to increase due to climate change.

Although the community does not anticipate future major assets to be uniquely vulnerable or impacted by hazards, Bedford Park is located within a very high urban flooding susceptibility zone, and as such, future climate change impacts may exacerbate this hazard. This trend will be assessed over the next five years. The Village is also aware that drought impacts may increase due to climate change and should be monitored closely.

## 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 Winter Weather |
| 2                          | Severe 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 - 4.19

| Mitigation Action #B - 4.19: Update all Village of Bedford Park Codes/Ordinances to reflect and adopt the 2021 International Building Code (IBC-2021). |   |                               |  |   |  |
|--|---|-------------------------------|--|---|--|
| <b>Lead Agency/Department Organization:</b><br>Building/Village Engineer   | <b>Supporting Agencies/Organizations:</b> | <b>Estimated Cost:</b><br>Low | <b>Potential Funding Source:</b><br>General Fund | <b>Estimated Projected Completion Date:</b><br>Short-term | <b>Hazard(s) Mitigated:</b><br>Earthquake<br>Severe Weather<br>(Extreme Heat, Lightning, Hail, Fog, High Winds)<br>Severe Winter Weather (Ice Storm, Heavy Snow, Blizzards, Extreme Cold)<br>Tornado |
| <b>Year Initiated</b>  |   | 2025                          |  |   |  |
| <b>Applicable Jurisdiction</b>   |   | Village of Bedford Park       |  |   |  |
| <b>Applicable Goal</b>   |   | 1,2,3                         |  |   |  |
| <b>Applicable Objective</b>  |   | 2,7,10                        |  |   |  |
| <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 (Loss Avoided or Issue Being Mitigated)</b>  |   | High                          |  |   |  |



|  |   |
|--|---|
| <b>Action/Implementation Plan and Project Description:</b>   | Update all Village of Bedford Park Codes/Ordinances to reflect and adopt the 2021 International Building Code (IBC-2021). |
| <b>Actual Completion Date or Ongoing Indefinite</b>  |   |
| <b>Project Status &amp; Changes in Priority</b><br><b>Completion status legend:</b><br><b>N</b> = New; <b>I</b> = In Progress Toward Completion;<br><b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed;<br><b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed | N   |

**Action B - 4.20**

| <b>Mitigation Action #B - 4.20: Update all Village of Bedford Park fire codes and ordinances to reflect and adopt the 2021 International Fire Code (IFC-2021) and the National Fire Protection Agency (NFPA 101 Life Safety Code, 2024 Edition).</b> |  |                               |  |   |  |
|--|--|-------------------------------|--|---|--|
| <b>Lead Agency/Department Organization:</b><br>Bedford Park Fire Department  | <b>Supporting Agencies/Organizations:</b><br>Building/Village Engineer | <b>Estimated Cost:</b><br>Low | <b>Potential Funding Source:</b><br>General Fund | <b>Estimated Projected Completion Date:</b><br>Short-term | <b>Hazard(s) Mitigated:</b><br>Earthquake<br>Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds)<br>Wildfire |
| <b>Year Initiated</b>  | 2025   |                               |  |   |  |
| <b>Applicable Jurisdiction</b>   | Village of Bedford Park  |                               |  |   |  |
| <b>Applicable Goal</b>   | 1,2,3  |                               |  |   |  |
| <b>Applicable Objective</b>  | 2,7,10   |                               |  |   |  |
| <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 (Loss Avoided or Issue Being Mitigated)</b>  | High   |                               |  |   |  |

|  |  |
|--|--|
| <b>Action/Implementation Plan and Project Description:</b>   | Update all Village of Bedford Park fire codes and ordinances to reflect and adopt the 2021 International Fire Code (IFC-2021) and the National Fire Protection Agency (NFPA 101 Life Safety Code, 2024 Edition). |
| <b>Actual Completion Date or Ongoing Indefinite</b>  |  |
| <b>Project Status &amp; Changes in Priority</b><br><b>Completion status legend:</b><br><b>N</b> = New; <b>I</b> = In Progress Toward Completion;<br><b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed;<br><b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed | N  |

**Action B - 4.21**

| <b>Mitigation Action #B - 4.21: Conduct an engineering study/survey to determine the risk and vulnerability that tornados may have on existing manufacturing, industrial, and chemical facilities within the Village of Bedford Park.</b> |   |                                  |  |  |  |
|---|---|----------------------------------|--|--|--|
| <b>Lead Agency/Department Organization:</b><br>Building/Village Engineer  | <b>Supporting Agencies/ Organizations:</b>  | <b>Estimated Cost:</b><br>Medium | <b>Potential Funding Source:</b><br>General Fund | <b>Estimated Projected Completion Date:</b><br>Long-term | <b>Hazard(s) Mitigated:</b><br>Tornado |
| <b>Year Initiated</b>   | 2029  |                                  |  |  |  |
| <b>Applicable Jurisdiction</b>  | Village of Bedford Park   |                                  |  |  |  |
| <b>Applicable Goal</b>  | 1,2,3,4,5   |                                  |  |  |  |
| <b>Applicable Objective</b>   | 2,3,4,7   |                                  |  |  |  |
| <b>Cost Analysis (Low, Medium, High)</b>  | Medium  |                                  |  |  |  |
| <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>  | Conduct an engineering study/survey to determine the risk and vulnerability that tornados may have on existing manufacturing, industrial, and chemical facilities within the Village of Bedford Park. |                                  |  |  |  |
| <b>Actual Completion Date or Ongoing Indefinite</b>   |   |                                  |  |  |  |

|   |   |
|---|---|
| <b>Project Status &amp; Changes in Priority</b><br><b>Completion status legend:</b><br><b>N</b> = New; <b>I</b> = In Progress Toward Completion;<br><b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed;<br><b>R</b> = Want Removed from Annex; <b>X</b> = No Action<br>Taken/Delayed | N |
|---|---|

**Action B - 4.22**

| Mitigation Action #B - 4.22: Conduct an engineering study/survey to determine the risk and vulnerability that earthquakes may have on existing manufacturing, industrial, and chemical facilities within the Village of Bedford Park. |  |                                  |  |  |   |
|---|--|----------------------------------|--|--|---|
| <b>Lead Agency/Department Organization:</b><br>Building/Village Engineer  | <b>Supporting Agencies/ Organizations:</b>   | <b>Estimated Cost:</b><br>Medium | <b>Potential Funding Source:</b><br>General Fund | <b>Estimated Projected Completion Date:</b><br>Long-term | <b>Hazard(s) Mitigated:</b><br>Earthquake |
| <b>Year Initiated</b>   | 2029   |                                  |  |  |   |
| <b>Applicable Jurisdiction</b>  | Village of Bedford Park  |                                  |  |  |   |
| <b>Applicable Goal</b>  | 1,2,3,4,5  |                                  |  |  |   |
| <b>Applicable Objective</b>   | 3,4,7  |                                  |  |  |   |
| <b>Cost Analysis (Low, Medium, High)</b>  | Medium   |                                  |  |  |   |
| <b>Priority and Level of Importance (Low, Medium, High)</b>   | High   |                                  |  |  |   |
| <b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)   | High   |                                  |  |  |   |
| <b>Action/Implementation Plan and Project Description:</b>  | Conduct an engineering study/survey to determine the risk and vulnerability that earthquakes may have on existing manufacturing, industrial, and chemical facilities within the Village of Bedford Park. |                                  |  |  |   |
| <b>Actual Completion Date or Ongoing Indefinite</b>   |  |                                  |  |  |   |
| <b>Project Status &amp; Changes in Priority</b><br><b>Completion status legend:</b><br><b>N</b> = New; <b>I</b> = In Progress Toward Completion;<br><b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed;                    | N  |                                  |  |  |   |

|  |  |
|--|--|
| <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed |  |
|--|--|

## Ongoing Mitigation Actions

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

### Action B - 4.2

| Mitigation Action #B - 4.2: Assist vulnerable populations by providing temporary shelter locations.  |  |  |  |   |                                    |
|--|--|--|--|---|------------------------------------|
| <b>Lead Agency/Department Organization:</b><br>Emergency Management/Park District  | <b>Supporting Agencies/ Organizations:</b> | <b>Estimated Cost:</b><br>\$1,000  | <b>Potential Funding Source:</b><br>General fund | <b>Estimated Projected Completion Date:</b><br>Short-term | <b>Hazard(s) Mitigated:</b><br>All |
| <b>Year Initiated</b>  |  | 2014   |  |   |                                    |
| <b>Applicable Jurisdiction</b>   |  | Bedford Park   |  |   |                                    |
| <b>Applicable Goal</b>   |  | 2  |  |   |                                    |
| <b>Applicable Objective</b>  |  | 1, 8, 12   |  |   |                                    |
| <b>Cost Analysis (Low, Medium, High)</b>   |  | Low  |  |   |                                    |
| <b>Priority and Level of Importance (Low, Medium, High)</b>  |  |  |  |   |                                    |
| <b>Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)</b>  |  |  |  |   |                                    |
| <b>Action/Implementation Plan and Project Description:</b>   |  | Working with park district (short term) and local hotels (long term) to provide shelter. |  |   |                                    |
| <b>Actual Completion Date or Ongoing Indefinite</b>  |  |  |  |   |                                    |
| <b>Project Status &amp; Changes in Priority Completion status legend:</b><br><b>N</b> = New; <b>I</b> = In Progress Toward Completion;<br><b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed;<br><b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed |  | <b>O</b>   |  |   |                                    |

## Action B - 4.5

| Mitigation Action #B - 4.5: Conduct tornado awareness activities   |  |                                 |  |  |  |
|--|--|---------------------------------|--|--|--|
| <b>Lead Agency/Department Organization:</b><br>Emergency Management  | <b>Supporting Agencies/ Organizations:</b> | <b>Estimated Cost:</b><br>\$500 | <b>Potential Funding Source:</b><br>EM budget;<br>General Fund | <b>Estimated Projected Completion Date:</b><br>Ongoing | <b>Hazard(s) Mitigated:</b><br>Tornado |
| <b>Year Initiated</b>  |  | 2014                            |  |  |  |
| <b>Applicable Jurisdiction</b>   |  | Bedford Park                    |  |  |  |
| <b>Applicable Goal</b>   |  | 2, 6                            |  |  |  |
| <b>Applicable Objective</b>  |  | 6, 8, 10                        |  |  |  |
| <b>Cost Analysis (Low, Medium, High)</b>   |  | Low                             |  |  |  |
| <b>Priority and Level of Importance (Low, Medium, High)</b>  |  |                                 |  |  |  |
| <b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)  |  |                                 |  |  |  |
| <b>Action/Implementation Plan and Project Description:</b>   |  | Education program ongoing.      |  |  |  |
| <b>Actual Completion Date or Ongoing Indefinite</b>  |  |                                 |  |  |  |
| <b>Project Status &amp; Changes in Priority</b><br><b>Completion status legend:</b><br><b>N</b> = New; <b>I</b> = In Progress Toward Completion;<br><b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed;<br><b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed |  | O                               |  |  |  |

## Action B - 4.7

| Mitigation Action #B - 4.7: Increase earthquake risk awareness.  |  |   |   |   |   |
|--|--|---|---|---|---|
| <b>Lead Agency/Department Organization:</b><br>Emergency Management  | <b>Supporting Agencies/ Organizations:</b> | <b>Estimated Cost:</b><br>Low   | <b>Potential Funding Source:</b><br>Emergency Management Budget | <b>Estimated Projected Completion Date:</b><br>Short-term | <b>Hazard(s) Mitigated:</b><br>Earthquake |
| <b>Year Initiated</b>  |  | 2014  |   |   |   |
| <b>Applicable Jurisdiction</b>   |  | Bedford Park  |   |   |   |
| <b>Applicable Goal</b>   |  | 2   |   |   |   |
| <b>Applicable Objective</b>  |  | 6   |   |   |   |
| <b>Cost Analysis (Low, Medium, High)</b>   |  | Low   |   |   |   |
| <b>Priority and Level of Importance (Low, Medium, High)</b>  |  |   |   |   |   |
| <b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)  |  |   |   |   |   |
| <b>Action/Implementation Plan and Project Description:</b>   |  | Continue to publicize earthquake awareness. Include earthquake awareness literature |   |   |   |
| <b>Actual Completion Date or Ongoing Indefinite</b>  |  |   |   |   |   |
| <b>Project Status &amp; Changes in Priority</b><br><b>Completion status legend:</b><br><b>N</b> = New; <b>I</b> = In Progress Toward Completion;<br><b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed;<br><b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed |  | O   |   |   |   |

## Action B - 4.9

| Mitigation Action #B - 4.9: 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.  |   |   |  |  |                                    |
|--|---|---|--|--|------------------------------------|
| <b>Lead Agency/Department Organization:</b><br>Bedford Park/Public Works   | <b>Supporting Agencies/Organizations:</b> | <b>Estimated Cost:</b><br>High  | <b>Potential Funding Source:</b><br>HMGP, BRIC | <b>Estimated Projected Completion Date:</b><br>Long-term<br>(depending on funding) | <b>Hazard(s) Mitigated:</b><br>All |
| <b>Year Initiated</b>  |   | 2014  |  |  |                                    |
| <b>Applicable Jurisdiction</b>   |   | Bedford Park  |  |  |                                    |
| <b>Applicable Goal</b>   |   | 2, 3  |  |  |                                    |
| <b>Applicable Objective</b>  |   | 7, 13   |  |  |                                    |
| <b>Cost Analysis (Low, Medium, High)</b>   |   | High  |  |  |                                    |
| <b>Priority and Level of Importance (Low, Medium, High)</b>  |   |   |  |  |                                    |
| <b>Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)</b>  |   |   |  |  |                                    |
| <b>Action/Implementation Plan and Project Description:</b>   |   | 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. Properties have been identified and are on "watch" list. |  |  |                                    |
| <b>Actual Completion Date or Ongoing Indefinite</b>  |   |   |  |  |                                    |
| <b>Project Status &amp; Changes in Priority Completion status legend:</b><br><b>N</b> = New; <b>I</b> = In Progress Toward Completion;<br><b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed;<br><b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed |   | <b>O</b>  |  |  |                                    |

## Action B - 4.10

| Mitigation Action #B - 4.10: Continue to support the countywide actions identified in this plan.   |  |   |  |   |                                    |
|--|--|---|--|---|------------------------------------|
| <b>Lead Agency/Department Organization:</b><br>Bedford Park Administration   | <b>Supporting Agencies/ Organizations:</b> | <b>Estimated Cost:</b><br>Low                             | <b>Potential Funding Source:</b><br>General Fund | <b>Estimated Projected Completion Date:</b><br>Short- and long-term | <b>Hazard(s) Mitigated:</b><br>All |
| <b>Year Initiated</b>  |  | 2014  |  |   |                                    |
| <b>Applicable Jurisdiction</b>   |  | Bedford Park  |  |   |                                    |
| <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>  |  |   |  |   |                                    |
| <b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)  |  |   |  |   |                                    |
| <b>Action/Implementation Plan and Project Description:</b>   |  | Continue to support plan and move forward on action items |  |   |                                    |
| <b>Actual Completion Date or Ongoing Indefinite</b>  |  |   |  |   |                                    |
| <b>Project Status &amp; Changes in Priority</b><br><b>Completion status legend:</b><br><b>N</b> = New; <b>I</b> = In Progress Toward Completion;<br><b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed;<br><b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed |  | O   |  |   |                                    |



## Action B - 4.11

| Mitigation Action #B - 4.11: Actively participate in the plan maintenance strategy identified in this plan.  |  |  |  |   |                                    |
|--|--|--|--|---|------------------------------------|
| <b>Lead Agency/Department Organization:</b><br>EMRS/Bedford Park   | <b>Supporting Agencies/ Organizations:</b> | <b>Estimated Cost:</b><br>Low  | <b>Potential Funding Source:</b><br>General Fund | <b>Estimated Projected Completion Date:</b><br>Short-term | <b>Hazard(s) Mitigated:</b><br>All |
| <b>Year Initiated</b>  |  | 2014   |  |   |                                    |
| <b>Applicable Jurisdiction</b>   |  | Bedford Park   |  |   |                                    |
| <b>Applicable Goal</b>   |  | 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>  |  |  |  |   |                                    |
| <b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)  |  |  |  |   |                                    |
| <b>Action/Implementation Plan and Project Description:</b>   |  | Actively participate in the plan maintenance strategy identified in this plan..<br>Continue to participate in plan |  |   |                                    |
| <b>Actual Completion Date or Ongoing Indefinite</b>  |  |  |  |   |                                    |
| <b>Project Status &amp; Changes in Priority</b><br><b>Completion status legend:</b><br><b>N</b> = New; <b>I</b> = In Progress Toward Completion;<br><b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed;<br><b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed |  | <b>O</b>   |  |   |                                    |

## Action B - 4.12

| Mitigation Action #B - 4.12: Consider participation in incentive-based programs such as the Community Rating System, Tree City, and StormReady.  |  |   |  |  |                                    |
|--|--|---|--|--|------------------------------------|
| <b>Lead Agency/Department Organization:</b><br>Bedford Park/Public Works   | <b>Supporting Agencies/ Organizations:</b> | <b>Estimated Cost:</b><br>Low   | <b>Potential Funding Source:</b><br>General Fund | <b>Estimated Projected Completion Date:</b><br>Long-Term | <b>Hazard(s) Mitigated:</b><br>All |
| <b>Year Initiated</b>  |  | 2014  |  |  |                                    |
| <b>Applicable Jurisdiction</b>   |  | Bedford Park  |  |  |                                    |
| <b>Applicable Goal</b>   |  | 1, 2  |  |  |                                    |
| <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>  |  |   |  |  |                                    |
| <b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)  |  |   |  |  |                                    |
| <b>Action/Implementation Plan and Project Description:</b>   |  | Consider participation in incentive-based programs such as the Community Rating System, Tree City, and StormReady. Investigating storm ready and tree city. Participating in Community Rating System. |  |  |                                    |
| <b>Actual Completion Date or Ongoing Indefinite</b>  |  | Long-term   |  |  |                                    |
| <b>Project Status &amp; Changes in Priority Completion status legend:</b><br><b>N</b> = New; <b>I</b> = In Progress Toward Completion;<br><b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed;<br><b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed |  | <b>X</b>  |  |  |                                    |

## Action B - 4.13

| Mitigation Action #B - 4.13: Continue maintaining compliance and 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>Lead Agency/Department Organization:</b><br>Bedford Park Administration   | <b>Supporting Agencies/ Organizations:</b> | <b>Estimated Cost:</b><br>Low   | <b>Potential Funding Source:</b><br>General Fund | <b>Estimated Projected Completion Date:</b><br>Short-term and Ongoing | <b>Hazard(s) Mitigated:</b><br>Flooding |
| <b>Year Initiated</b>  |  | 2014  |  |   |   |
| <b>Applicable Jurisdiction</b>   |  | Bedford Park  |  |   |   |
| <b>Applicable Goal</b>   |  | 1, 2  |  |   |   |
| <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>  |  |   |  |   |   |
| <b>Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)</b>  |  |   |  |   |   |
| <b>Action/Implementation Plan and Project Description:</b>   |  | Continue to maintain compliance and 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>Actual Completion Date or Ongoing Indefinite</b>  |  |   |  |   |   |
| <b>Project Status &amp; Changes in Priority Completion status legend:</b><br><b>N</b> = New; <b>I</b> = In Progress Toward Completion;<br><b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed;<br><b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed   |  | O   |  |   |   |

## Action B - 4.16

| Mitigation Action #B - 4.16: Improve stormwater management planning.   |  |   |  |  |                                      |
|--|--|---|--|--|--------------------------------------|
| <b>Lead Agency/Department Organization:</b><br>Bedford Park Public Works Department  | <b>Supporting Agencies/Organizations:</b><br>Bedford Park FD | <b>Estimated Cost:</b><br>\$20,000  | <b>Potential Funding Source:</b><br>General Fund, BRIC, HMGP | <b>Estimated Projected Completion Date:</b><br>Long-term | <b>Hazard(s) Mitigated:</b><br>Flood |
| <b>Year Initiated</b>  |  | 2019  |  |  |                                      |
| <b>Applicable Jurisdiction</b>   |  | Bedford Park  |  |  |                                      |
| <b>Applicable Goal</b>   |  | 1, 2, 3, 5  |  |  |                                      |
| <b>Applicable Objective</b>  |  | 2, 3, 4, 9, 10  |  |  |                                      |
| <b>Cost Analysis (Low, Medium, High)</b>   |  | Medium-The project could be implemented with existing funding but would require a re-apportionment of the budget or a budget amendment, or the cost of the project would have to be spread over multiple years. |  |  |                                      |
| <b>Priority and Level of Importance (Low, Medium, High)</b>  |  | Medium Priority   |  |  |                                      |
| <b>Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)</b>  |  | Completing a storm water drainage study will help to plan for areas that need better retention  |  |  |                                      |
| <b>Action/Implementation Plan and Project Description:</b>   |  |   |  |  |                                      |
| <b>Actual Completion Date or Ongoing Indefinite</b>  |  | Improve stormwater management planning by updating the management plan with data from last few years. update ordinances to reflect new study.   |  |  |                                      |
| <b>Project Status &amp; Changes in Priority Completion status legend:</b><br><b>N</b> = New; <b>I</b> = In Progress Toward Completion;<br><b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed;<br><b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed |  | <b>O</b>  |  |  |                                      |

## Action B - 4.17

| Mitigation Action #B - 4.17: Educate residents on water saving techniques  |   |  |  |  |  |
|--|---|--|--|--|--|
| <b>Lead Agency/Department Organization:</b><br>Bedford Park Water Department   | <b>Supporting Agencies/ Organizations:</b><br>Bedford Park FD | <b>Estimated Cost:</b><br>\$1000   | <b>Potential Funding Source:</b><br>General Fund | <b>Estimated Projected Completion Date:</b><br>Long-term | <b>Hazard(s) Mitigated:</b><br>Drought |
| <b>Year Initiated</b>  |   | 2019   |  |  |  |
| <b>Applicable Jurisdiction</b>   |   | Bedford Park   |  |  |  |
| <b>Applicable Goal</b>   |   | 1, 6   |  |  |  |
| <b>Applicable Objective</b>  |   | 6  |  |  |  |
| <b>Cost Analysis (Low, Medium, High)</b>   |   | Low - The project could be funded under the existing budget. The project is part of or can be part of an ongoing existing program. |  |  |  |
| <b>Priority and Level of Importance (Low, Medium, High)</b>  |   | Medium Priority  |  |  |  |
| <b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)  |   | Water conservation, Low - Long-term benefits of the project are difficult to quantify in the short term.                           |  |  |  |
| <b>Action/Implementation Plan and Project Description:</b>   |   | Research and develop educational programs for the public on water saving measures.   |  |  |  |
| <b>Actual Completion Date or Ongoing Indefinite</b>  |   |  |  |  |  |
| <b>Project Status &amp; Changes in Priority</b><br><b>Completion status legend:</b><br><b>N</b> = New; <b>I</b> = In Progress Toward Completion;<br><b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed;<br><b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed |   | <b>O</b>   |  |  |  |

## Action B - 4.18

| Mitigation Action #B - 4.18: Require water conservation during drought conditions  |  |  |  |  |  |
|--|--|--|--|--|--|
| <b>Lead Agency/Department Organization:</b><br>Bedford Park Water Department   | <b>Supporting Agencies/Organizations:</b><br>Bedford Park FD | <b>Estimated Cost:</b><br>\$300; Low   | <b>Potential Funding Source:</b><br>General Fund | <b>Estimated Projected Completion Date:</b><br>Long-term | <b>Hazard(s) Mitigated:</b><br>Drought |
| <b>Year Initiated</b>  |  | 2019   |  |  |  |
| <b>Applicable Jurisdiction</b>   |  | Bedford Park FD  |  |  |  |
| <b>Applicable Goal</b>   |  | 1  |  |  |  |
| <b>Applicable Objective</b>  |  | 11   |  |  |  |
| <b>Cost Analysis (Low, Medium, High)</b>   |  | Low - The project could be funded under the existing budget. The project is part of or can be part of an ongoing existing program. |  |  |  |
| <b>Priority and Level of Importance (Low, Medium, High)</b>  |  | Medium Priority  |  |  |  |
| <b>Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)</b>  |  | Water conservation   |  |  |  |
| <b>Action/Implementation Plan and Project Description:</b>   |  | Research and develop new ordinances to manage water conservation such as "no watering/no car washing" during drought conditions.   |  |  |  |
| <b>Actual Completion Date or Ongoing Indefinite</b>  |  |  |  |  |  |
| <b>Project Status &amp; Changes in Priority</b><br><b>Completion status legend:</b><br><b>N</b> = New; <b>I</b> = In Progress Toward Completion;<br><b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed;<br><b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed |  | <b>O</b>   |  |  |  |

## Completed Actions

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

| Completed Action Items  |
|---|
| Upgrade emergency alert system  |
| Adopt policies to reduce storm water runoff - basin maintenance   |
| Educate property owners about flood insurance and mitigation techniques   |
| Adopt and enforce building codes  |
| Protect power lines (bury overhead lines)   |
| Integrate the hazard mitigation plan into other plans, programs, or resources that dictate land use or redevelopment. |

## Future Needs to Better Understand Risk/Vulnerability

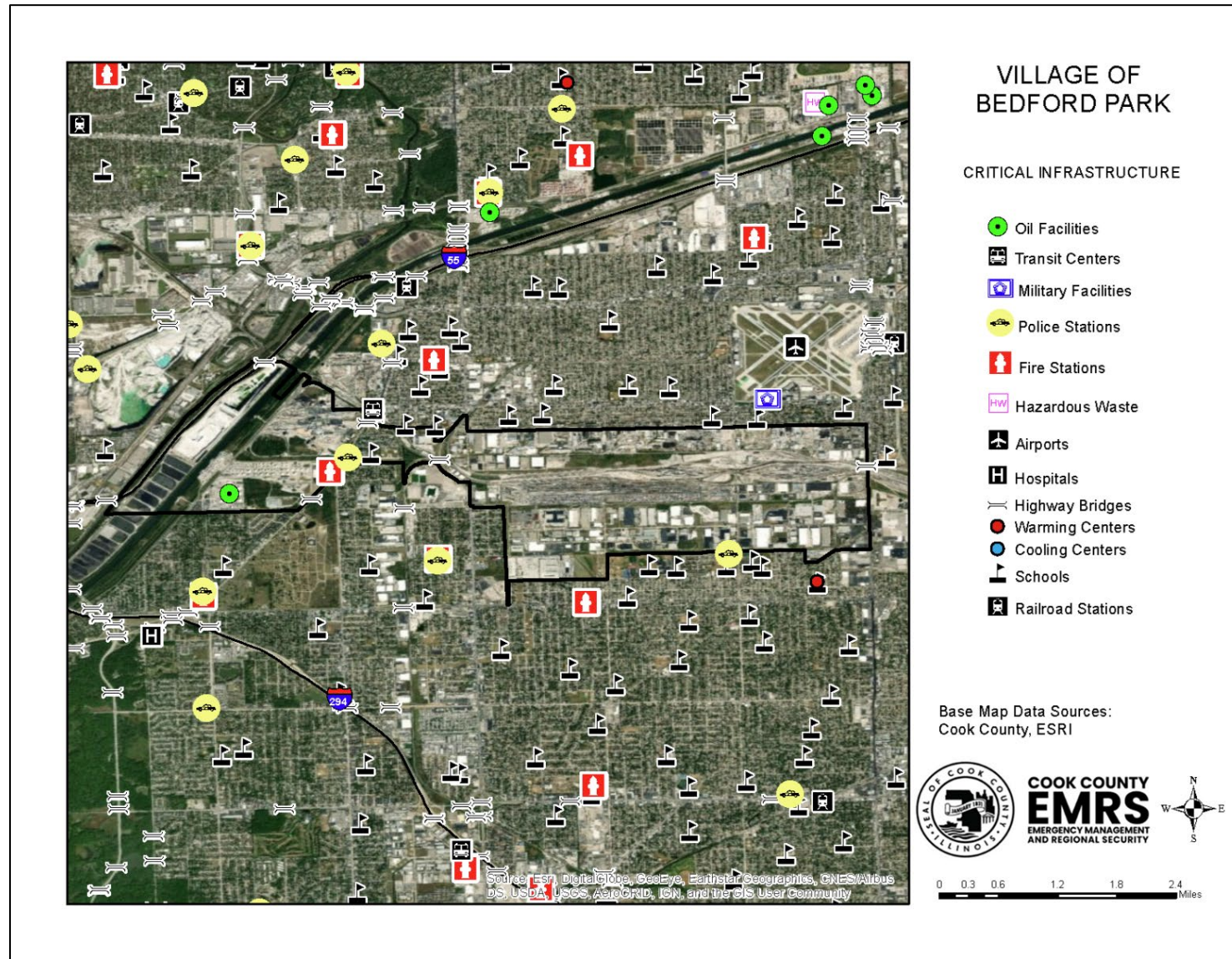
No future needs have been identified at this time.

## Additional Comments

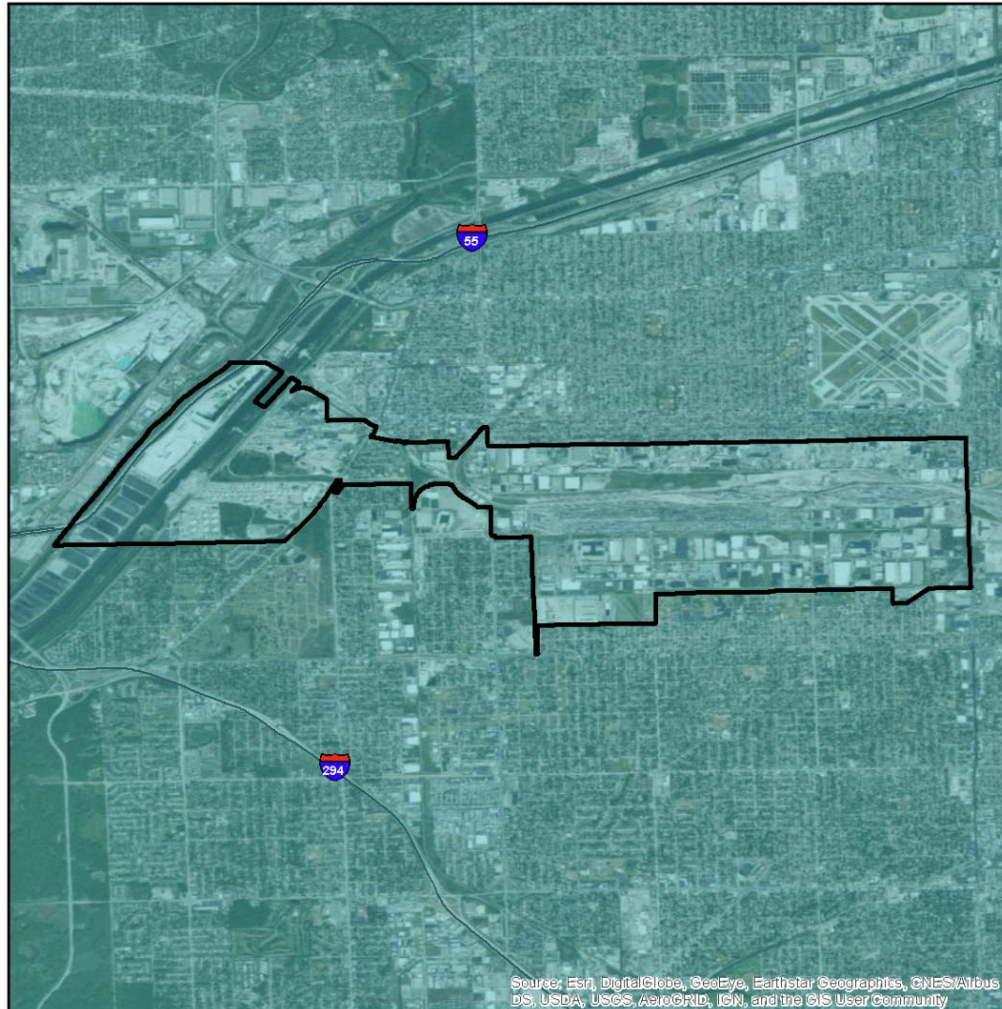
No additional comments at this time.



## Hazard Mapping







## VILLAGE OF BEDFORD PARK

### 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.

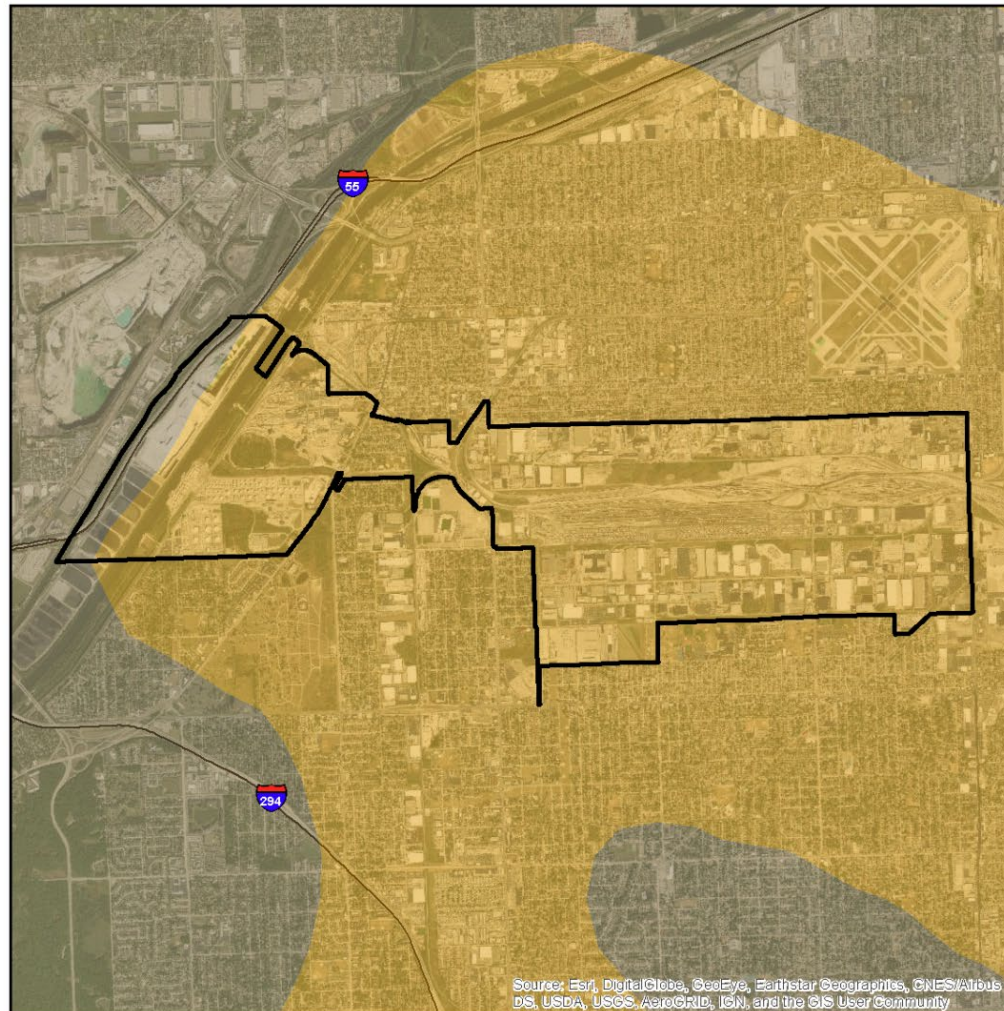
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EMERGENCY MANAGEMENT  
AND REGIONAL SECURITY



0 0.3 0.6 1.2 1.8 2.4 Miles



## VILLAGE OF BEDFORD PARK

### 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.

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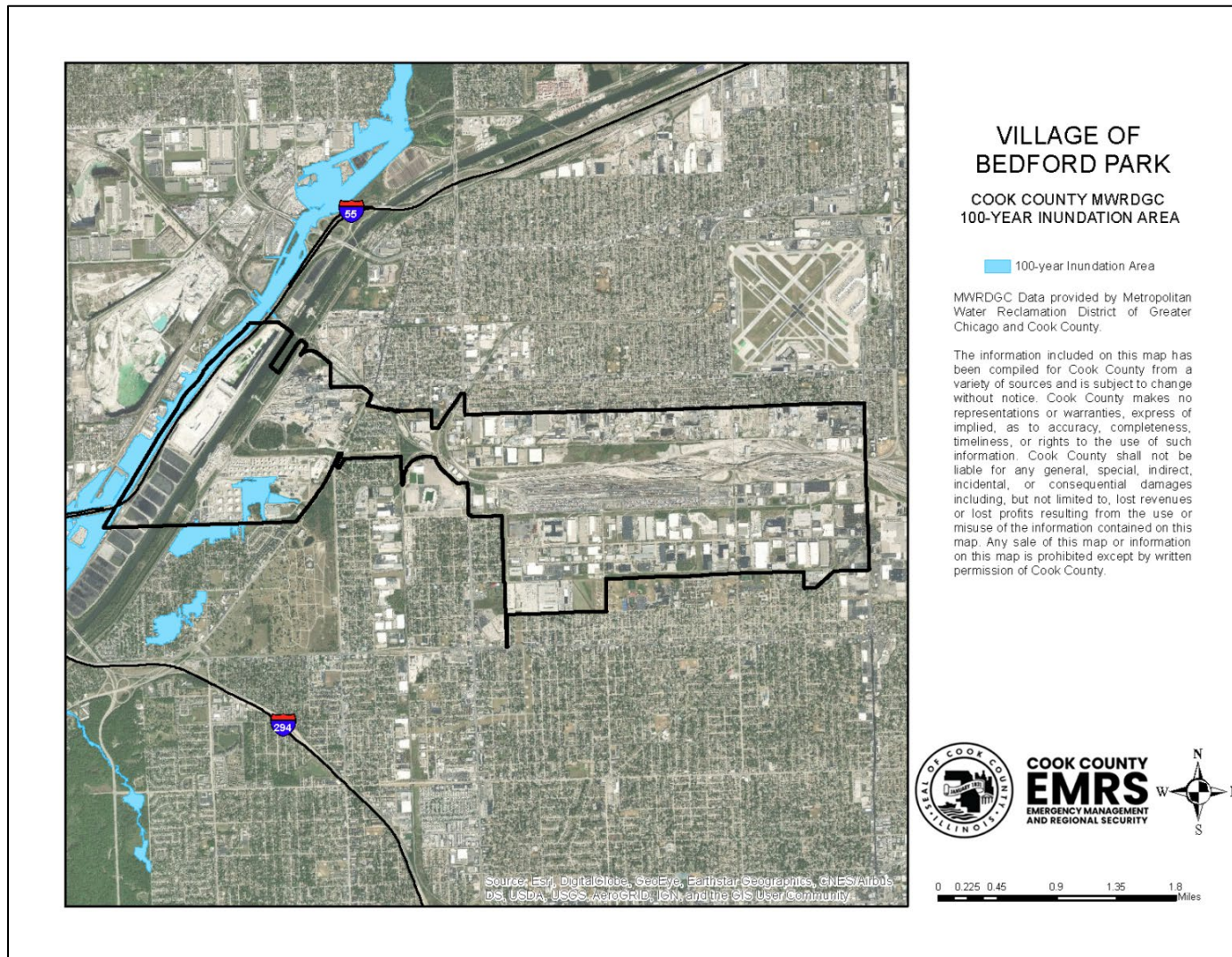
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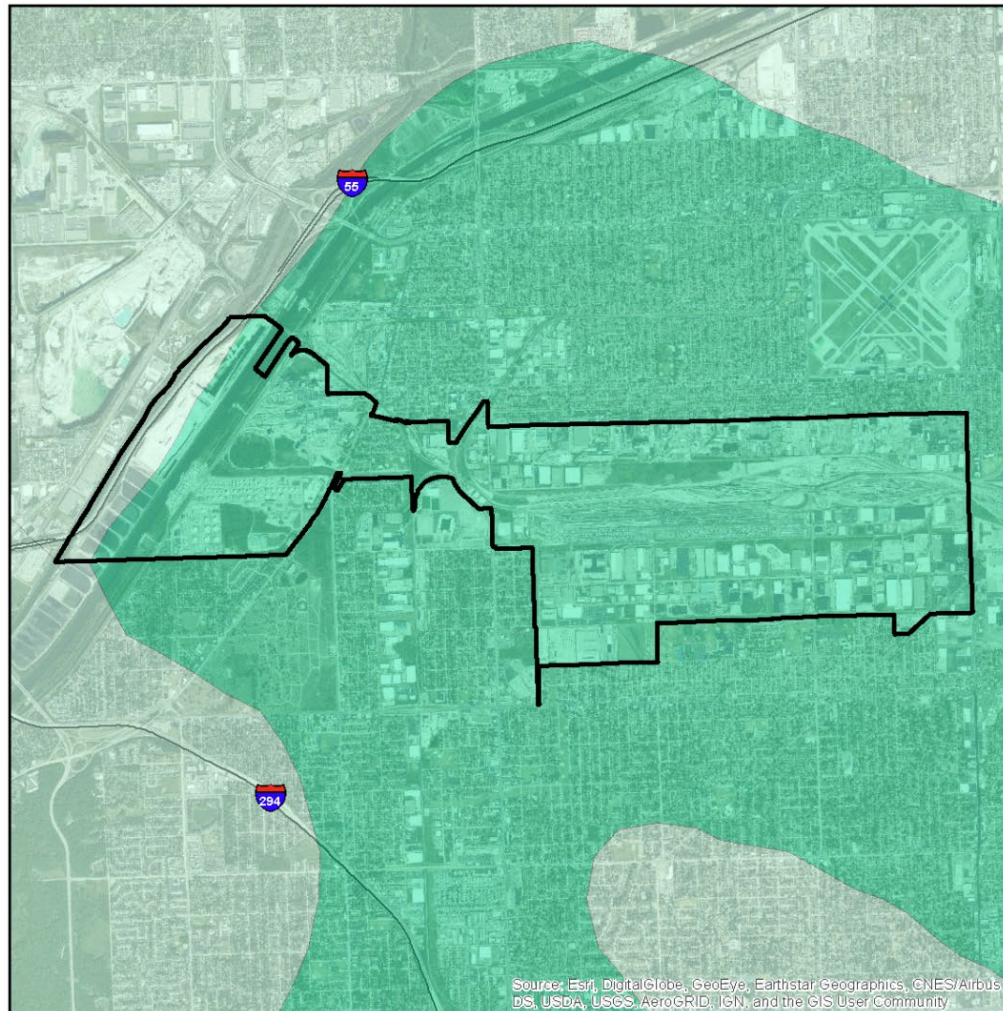
0 0.225 0.45 0.9 1.35 1.8 Miles



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 BEDFORD PARK

### 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 II 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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0 0.225 0.45 0.9 1.35 1.8 Miles



