

Merrionette Park

Hazard Mitigation Plan Point of Contact

| Primary Point of Contact | Alternate Point of Contact |
|--|---|
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Jurisdiction Profile

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

Date of Incorporation: 1947

Current Population: The 2020 U.S. Census population was 1,969. The 2022 U.S. Census estimate indicated the population was 1,901.

Population Growth: The overall population has increased by 1.93% between 2018 and 2022.

Location and Description: The Village of Merrionette Park is a suburb of Chicago located in Cook County 18.6 miles south of the Chicago Loop. Merrionette Park is a small residential, industrial, and commercial community boarded by the City of Chicago to the north and east, Oak Lawn to the northwest, Blue Island to the south, and Alsip to the west. Merrionette Park has a rail line, which is on the east boarder of the village, and is within 4 miles from IL tollways and Interstate Highways as well as a major shipping canal. This stretch of expressways and canal has a large volume of commercial traffic with hazardous materials of all types. In addition, Merrionette Park is home to a large medical complex and a pesticide company. Population surges can double and at times triple our residential population resulting from a large shopping complex and a nightclub that has become a premiere nightspot and concert location in the south western Chicago suburbs with occupancy exceeding 5,000 for some events. According to the 2010 census, the village has a total area of 0.38 square miles.

Brief History: 1940-41 James Merrion built 125 Single family homes in unincorporated Cook County on property known as Van Latens Farm. The original Merrionette Park was bound by the Grand Truck railroad tracks on the east, and Troy and Kedzie on the west. The new residents formed a group called “The Merrionette Park Property Owners Assoc.”. In 1946 members of the association voted to name the village Merrionette Park. The village was officially incorporated on February 18, 1947. With Incorporation came annexation of the area. The new area covered from 115th Street to 119th street, from the Grand Truck Railroad to Central Park (on 119th St). In May, 1952, E.T. Mahoney developed

the property from 115th Street to Parklane Drive. This “Southside” subdivision was known as “Mahoney Estates” and consisted of 339 single family homes. The 1960s saw new development on 118th Street. Stone Brook Plaza at 115th and Kedzie came in the 1970s, along with the much needed Water Tower. Following was the Stone Brook Mall and its anchor store, Dominick’s and Handy Andy. The extra income the Village received from these malls was used to replace street lights, repave streets and purchase very much needed emergency equipment plus a much deserved pay increase to all Village employees. The 1990s found the development of 33 new homes on Merrion Lane, the updated retention pond on Homan and the completion of the then Meyer Medical Pavilion and the closing of Handy Andy. In the Mid 2000s the village saw the development the 115 Bourbon Street night club in the vacant Handy Andy building, the construction of the Everett College building and redevelopment of the vacant firestone dealership into a medical dialysis center.

Climate: Merrionette Park’s climate is typically continental that experiences 4 distinct seasons with cold winters, warm summers, and frequent short fluctuations in temperature, humidity, cloudiness, and wind direction. Many consider the more moderate temperatures of spring and fall to be the most pleasant. Lake Michigan provides a moderating influence on temperature while boosting the amount of rain and snowfall received in the city.

Governing Body Format: The Village of Merrionette Park operates under a Village President form of Government. 6 Trustees, the Board President, Village Clerk, and a Treasurer make up the Village Board. This body of Government will assume the responsibility for the adoption and implementation of this plan. Merrionette Park operates 5 departments including the Clerk’s Office, Building Department, Fire Department, Police Department, and Public Works Department.

Development Trend: Anticipated development trends are low. Over 90% of property in Merrionette Park is fully developed with residential, industrial, and commercial property. There is a low projected growth rate with no plans for annexing or rezoning.

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 | Chapter 161- Adopted 1993, last amended 2005 |
| Zonings | Yes | No | No | Yes | Chapter 159 - 1959, last amended 2001 |
| Subdivisions | Yes | No | No | No | Chapter 156- 1971, never amended |
| Stormwater Management | Yes | No | Yes | No | Chapter 152- 1979, last amended 2000 and Chapter 50- 1971, last amended 2013 |
| Post Disaster Recovery | Yes | No | No | No | Chapter 92 – 1968, last amended 1992 |
| Real Estate Disclosure | No | No | Yes | Yes | (765 ILCS 77/) Residential Real Property Disclosure Act. |
| Growth Management | No | No | No | No | |
| Site Plan Review | Yes | No | No | No | Chapter 150 – 1992, last amended 2002 Chapter 151 – 1973, last amended 1999 Chapter 153 – 1975, never amended Chapter 154 – 1974, last amended 2001 |
| Public Health and Safety | Yes | No | Yes | No | Cook County Board of Health. Chapter 93 – |

| | | | | | |
|---|----|----|------|-----|---|
| | | | | | 1971, last amended 2000 and 94 – 1971, last amended 2001 |
| Environmental Protection | No | No | No | No | |
| Planning Documents | | | | | |
| General or Comprehensive Plan | No | No | No | No | |
| <i>Is the plan equipped to provide integration to this mitigation plan?</i> | | | | | N/A |
| Floodplain or Basin Plan | No | No | | No | |
| Stormwater Plan | No | No | MWRD | No | |
| Capital Improvement Plan | No | No | No | No | |
| <i>What types of capital facilities does the plan address?</i> | | | | | N/A |
| <i>How often is the plan revised/updated?</i> | | | | | N/A |
| Habitat Conservation Plan | No | No | No | No | |
| Economic Development Plan | No | No | Yes | No | 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 | No | No | Yes | Yes | Cook County EMRS |

| | | | | | |
|--|----|----|-----|----|----------------------------------|
| Management Plan | | | | | |
| Threat and Hazard Identification and Risk Assessment | No | No | Yes | No | Cook County EMRS Preparing THIRA |
| Terrorism Plan | No | No | Yes | No | 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 | No | No | Cook County DPH |

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

| 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 | Consulting Engineering |
| Engineers or professionals trained in building or infrastructure construction practices | Yes | Public Works/Consulting Engineering |
| Planners or engineers with an understanding of natural hazards | Yes | Consulting Engineering |
| Staff with training in benefit/cost analysis | Yes | Finance |
| Surveyors | Yes | Consulting Services |
| Personnel skilled or trained in GIS applications | Yes | Consulting Engineering |
| Scientist familiar with natural hazards in local area | No | |
| Emergency manager | Yes | Cook County EMRS |
| Grant writers | Yes | Consulting Services |

| TABLE: NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE | |
|---|--|
| What department is responsible for floodplain management in your jurisdiction? | Public Works/Building Commissioner |
| Who is your jurisdiction's floodplain administrator? (department/position) | Building Commissioner |
| Are any certified floodplain managers on staff in your jurisdiction? | Consulting Engineering |
| What is the date of adoption of your flood damage prevention ordinance? | 11/16/79 |
| When was the most recent Community Assistance Visit or Community Assistance Contact? | Have not received a Community Assistance Visit |
| Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? If so, please state what they are. | No |
| Do your flood hazard maps adequately address the flood risk within your jurisdiction? (If no, please state why) | No, Local flooding caused by undersized sewers |
| Does your floodplain management staff need any assistance or training to support its floodplain management program? If so, what type of assistance/training is needed? | Yes, Technical training and equipment |
| 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? | Yes |

NFIP Participation Activities

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

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

Substantial Improvement Rule and the Substantial Damage Rule

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

Existing Municipal Code:

152.21 Definitions

(WW) *Substantial improvement*. Any repair, reconstruction or improvement of a structure, the cost of which equals or exceeds 50 percent of the market value of the structure either, before the improvement or repair is started, or if the structure has been *damaged*, and is being restored, before the *damage* occurred. For the purposes of this definition "*substantial* improvement" is considered to occur when the first alteration of any wall, ceiling, floor, or other structural part of the building commences, whether or not that alteration affects the external dimensions of the structure. The term does not, however, include either any project for improvement of a structure to comply with existing state or local health, sanitary, or safety code specifications which are solely necessary to assure safe living conditions or any alteration of a structure listed on the National Register of Historic Places or a State Inventory of Historic Places.

152.23 Duties of the Enforcement Official

The building commissioner shall be responsible for the general administration and enforcement of this subchapter which shall include the following:

(A) *Determining the flood plain designation*. Check all new development sites to determine whether they are in a Special Flood Hazard Area (SFHA). If they are in a SFHA, determine whether they are in a floodway, flood fringe or in a flood plain on which a detailed study has not been conducted which drains more than one square mile.

(B) *Professional engineer review*. If the development site is within a floodway or in a flood plain on which a detailed study has not been conducted which drains more than one square mile then the permit application shall be referred to a registered professional engineer (P.E.) under the employ or contract of the village for review to ensure that the development meets the requirements of § 152.26. In the case of an appropriate use, the P.E. shall state in writing that the development meets the requirements of § 152.26.

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 | N/A | N/A |
| Building Code Effectiveness Grading Schedule | Yes | Unknown | Unknown |
| Public Protection/ISO | Yes | ISO 4 | 2010 |
| StormReady | Yes | Gold (Countywide) | 2014 |
| Tree City USA | No | | |

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

Emergency Plan Integration:

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

Emergency Operations Plan (EOP)

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

Continuity of Operations Plan (COOP)

The Continuity of Operations Plan (COOP) for the municipality includes a Situation section that is based on the 2019 Cook County MJ-HMP jurisdictional annex, and specifically the hazards identified in the annex. The COOP-specific risk assessment is hazard-specific and based on likelihood of occurrence and severity of impact.

Recovery Plan

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

Jurisdiction-Specific Natural Hazard Event History

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

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

- Number of FEMA-Identified Repetitive Loss Properties: 0

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

Federal Disasters Declared

| Disaster Declaration Number | Date Declared | Event |
|-----------------------------|---------------|--------------------------------|
| DR-227 | 4/25/1967 | Tornado |
| DR-351 | 9/4/1972 | Flood |
| DR-373 | 4/26/1973 | Flood |
| DR-509 | 6/18/1976 | Severe Storm(s) |
| DR-643 | 6/30/1981 | Severe Storm(s) |
| DR-776 | 10/7/1986 | Flood |
| DR-798 | 8/21/1987 | Flood |
| DR-997 | 7/9/1993 | Flood |
| DR-1129 | 7/25/1996 | Severe Storm(s) |
| DR-1188 | 9/17/1997 | Severe Storm(s) |
| DR-1729 | 9/25/2007 | Severe Storm(s) |
| DR-1800 | 10/3/2008 | Severe Storm(s) |
| DR-1935 | 8/19/2010 | Severe Storm(s) |
| DR-1960 | 3/17/2011 | Snow |
| EM-3068 | 1/16/1979 | Snow |
| EM-3134 | 1/8/1999 | Snow |
| EM-3161 | 1/17/2001 | Snow |
| EM-3230 | 9/7/2005 | Hurricane – Katrina Evacuation |
| EM-3435 | 3/13/2020 | Biological |
| DR-4116 | 5/10/2013 | Flood |
| DR-4489 | 3/26/2020 | Biological |
| DR-4728 | 8/15/2023 | Severe Storm(s) |
| DR-4749 | 11/20/2023 | Flood |

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 |
| Severe Weather | DR-4116 | 2013 | - |
| Severe Winter Storms | DR-1960 | 2011 | - |
| Severe Storms/Flooding | DR-1953 | 2010 | - |
| Severe Storms/Flooding | DR-1800 | 2008 | - |
| Severe Storms/Flooding | DR-1729 | 2007 | - |
| Severe Winter Storm | EM-3161 | 2000 | - |
| Winter Snow Storm | EM-3134 | 1999 | - |
| Flooding | DR-1188 | 1997 | - |
| Flooding | DR-1129 | 1996 | - |
| Severe Storms/Flooding | DR-997 | 1993 | - |
| Severe Storms/Flooding | DR-798 | 1987 | - |
| Severe Storms/Flooding | DR-776 | 1986 | - |

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.

Flood: Flooding is possible throughout the Village, especially Sacramento Dr. on the left side of the street.

Extreme Heat: The Village would benefit from providing Cooling Centers, food, and water during an extreme heat event.

Lightning: The Village is vulnerable to possible fires and building damage from lightning.

Hail: The Village is vulnerable to glass breaking as a result of hail.

Fog: The community is susceptible to bodily harm and property damage caused by fog-related car accidents.

High Winds: The Village is vulnerable to damaged power lines and building damage during high wind events.

Snow: In the event of heavy snow, the Village is vulnerable to delayed operations. In addition, some residents, such as seniors, may require help.

Extreme Cold: Currently, the Village is vulnerable to extreme cold because there are residents without heat and the Village does not have a warming center.

Ice Storms: Ice storms expose the residents of the Village to potential car accidents and delayed emergency services.

Severe Weather/Winter Weather: Numerous trees, tree limbs and power lines were blown down across far southern parts of the City of Chicago. The Beverly Hills/Morgan Park area had extensive tree damage including damage to houses and cars.

Drought: The Village water main, valve, and fire hydrant are in need of replacement along Meadow Lane which is prone to breaks. This can lead to water loss.

| Indicator | Number | Percent |
|--------------------------|--------|---------|
| Families in poverty | 217 | 14.6% |
| People with disabilities | 617 | 9.7% |
| People over 65 years | 1,217 | 19.2% |
| People under 5 years | 384 | 6.1% |
| People of color | 3,188 | 50.2% |
| Black | 1,546 | 24.4% |
| Native American | 0 | 0% |
| Hispanic | 1,454 | 22.9% |
| Difficulty with English | 105 | 1.8% |
| Households with no car | 305 | 11.9% |
| Mobile homes | 235 | 9.1% |

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

The community evaluated whether vulnerability, and subsequently the potential impacts, in hazard-prone areas had increased, decreased, or remained the same for each natural hazard identified in this Hazard Mitigation Plan. Climate change, infrastructure expansion, and economic shifts that can affect vulnerability were considered. For example, if planned development is in an identified hazard area or is not built to the updated building codes, it may increase the community's vulnerability to future hazards and disasters. On the other hand, if development occurred with mitigation practices in place, the vulnerability may have remained the same or decreased. Additionally, shifting demographics were taken into consideration when assessing development trends.

Jurisdiction-Specific Climate Change Vulnerability and Impacts

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

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

| Hazard | Vulnerability |
|---|----------------|
| Current Vulnerability | |
| Dam and Levee Failure | |
| Drought | |
| Earthquake | Not Applicable |
| Flood (Riverine, Urban, Shoreline) | Increased |
| Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds) | Increased |

| | |
|---|-----------|
| Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold) | |
| Tornado | Increased |
| Wildfire (Wildfire Smoke) | Increased |

| Hazard | Vulnerability |
|---|----------------|
| Future Vulnerability | |
| Dam and Levee Failure | |
| 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) | |
| 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 |
|---|---------------|
| Current Vulnerability | |
| Dam and Levee Failure | |
| Drought | |
| Earthquake | |
| Flood (Riverine, Urban, Shoreline) | |
| Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds) | |
| Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold) | |
| Tornado | |
| Wildfire (Wildfire Smoke) | |

| Hazard | Vulnerability |
|---|---------------|
| Future Vulnerability | |
| Dam and Levee Failure | |
| Drought | |
| Earthquake | |
| Flood (Riverine, Urban, Shoreline) | |
| Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds) | |
| Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold) | |
| Tornado | |

| | |
|---------------------------|--|
| Wildfire (Wildfire Smoke) | |
|---------------------------|--|

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

New Mitigation Actions

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

Action M6.18

| Mitigation Action #18: Improve stormwater drainage systems, including the installation of additional drains and the expansion of existing drainage capacity to handle heavy rainfall. | | | | | |
|---|---|--------------------------------|---|---|---|
| Lead Agency/Department Organization: Administration | Supporting Agencies/Organizations: | Estimated Cost: High | Potential Funding Source: General Fund Local or State Special Taxes State Special Funds Flood Mitigation Assistance (FMA) Program Community Development Block Grant (CDBG) | Estimated Projected Completion Date: Short-term | Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline) |
| Year Initiated | | 2025 | | | |
| Applicable Jurisdiction | | Village of Merrionette Park | | | |
| Applicable Goal | | 1,2,3 | | | |
| Applicable Objective | | 2,3,9,12 | | | |
| 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) | | Medium | | | |

| | |
|---|--|
| Action/Implementation Plan and Project Description: | Improve stormwater drainage systems, including the installation of additional drains and the expansion of existing drainage capacity to handle heavy rainfall. |
| 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 M6.3

| Mitigation Action #3: Storm sewer replacement/upsizing on 115th Street, prone to flooding. | | | | | |
|--|---|---|---|---|---|
| Lead Agency/Department Organization: Public Works, MWRD | Supporting Agencies/Organizations: | Estimated Cost: \$250,000; High | Potential Funding Source: Bond, General Fund, MWRD-Phase II | Estimated Projected Completion Date: Long-term Depending upon Funding | Hazard(s) Mitigated: Flooding |
| Year Initiated | 2014 | | | | |
| Applicable Jurisdiction | Village of Merrionette Park | | | | |
| Applicable Goal | 2,3 | | | | |
| Applicable Objective | 7, 9 | | | | |
| Cost Analysis (Low, Medium, High) | High | | | | |
| 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: | No funding |
| 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 | X |

Action M6.4

| Mitigation Action #4: Retrofit Water Supply Systems to prevent water loss. | | | | | |
|---|--|----------------------------------|--|--|--|
| Lead Agency/Department Organization: Public Works | Supporting Agencies/ Organizations: | Estimated Cost: Medium | Potential Funding Source: BRIC, HMGP | Estimated Projected Completion Date: Long-Term | Hazard(s) Mitigated: Drought, Severe Weather, Tornado, Earthquake |
| Year Initiated | 2014 | | | | |
| Applicable Jurisdiction | Village of Merrionette Park | | | | |
| Applicable Goal | 3 | | | | |
| Applicable Objective | 2, 7 | | | | |
| 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) | High | | | | |
| Action/Implementation Plan and Project Description: | No funding | | | | |

| | |
|---|---|
| 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 | X |

Action M6.5

| Mitigation Action #5: Adopt the MWRD Watershed Management Ordinance | | | | | |
|---|--|-------------------------------|--|---|---|
| Lead Agency/Department Organization: Village Board | Supporting Agencies/ Organizations: | Estimated Cost: Low | Potential Funding Source: General Fund | Estimated Projected Completion Date: Short-term ongoing | Hazard(s) Mitigated: Flooding, Severe Weather |
| Year Initiated | 2014 | | | | |
| Applicable Jurisdiction | Village of Merrionette Park | | | | |
| Applicable Goal | 2,4 | | | | |
| Applicable Objective | 3, 9, 10 | | | | |
| 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: | | | | | |
| Actual Completion Date or Ongoing Indefinite | | | | | |
| Project Status & Changes in Priority | X | | | | |

| | |
|--|--|
| 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 | |
|--|--|

Action M6.6

| Mitigation Action #6: Install/Upgrade Generators at water plant and lift stations | | | | | |
|---|--|----------------------------------|---|--|--|
| Lead Agency/Department Organization: Public Works | Supporting Agencies/ Organizations: | Estimated Cost: Medium | Potential Funding Source: General Fund, Bonds, HMGP, BRIC | Estimated Projected Completion Date: Long-term | Hazard(s) Mitigated: Flooding, Drought, Severe Weather |
| Year Initiated | 2014 | | | | |
| Applicable Jurisdiction | Village of Merrionette Park | | | | |
| Applicable Goal | 1 | | | | |
| Applicable Objective | 2, 7 | | | | |
| 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) | High | | | | |
| Action/Implementation Plan and Project Description: | No funding | | | | |
| 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 | X | | | | |

| | |
|---|--|
| Completed; R = Want Removed from Annex; X = No Action Taken/Delayed | |
|---|--|

Action M6.7

| Mitigation Action #7: Expand/Improve Public Works Facility | | | | | |
|---|--|----------------------------------|---|--|--|
| Lead Agency/Department Organization: Building Dept./Public Works | Supporting Agencies/ Organizations: | Estimated Cost: Medium | Potential Funding Source: General Fund, Bonds | Estimated Projected Completion Date: Long-term | Hazard(s) Mitigated: All Hazards |
| Year Initiated | | 2014 | | | |
| Applicable Jurisdiction | | Village of Merrionette Park | | | |
| Applicable Goal | | 3 | | | |
| Applicable Objective | | 2, 7 | | | |
| 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) | | High | | | |
| Action/Implementation Plan and Project Description: | | No funding | | | |
| 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 | | X | | | |

Action M6.8

| Mitigation Action #8: 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: Public Works | Supporting Agencies/ Organizations: | Estimated Cost: High | Potential Funding Source: BRIC, FMA, HMGP | Estimated Projected Completion Date: Long-term (depending on funding) | Hazard(s) Mitigated: Flooding |
| Year Initiated | | 2014 | | | |
| Applicable Jurisdiction | | Village of Merrionette Park | | | |
| Applicable Goal | | 3 | | | |
| Applicable Objective | | 7, 13 | | | |
| 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: | | No funding | | | |
| 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 | | X | | | |

Action M6.9

| Mitigation Action #9: Continue to support the countywide actions identified in this plan. | | | | | |
|---|--|-------------------------------|--|---|--|
| Lead Agency/Department Organization: Admin. | Supporting Agencies/ Organizations: | Estimated Cost: Low | Potential Funding Source: General Fund | Estimated Projected Completion Date: Short-term and Long-term | Hazard(s) Mitigated: All Hazards |
| Year Initiated | | 2014 | | | |
| Applicable Jurisdiction | | Village of Merrionette Park | | | |
| Applicable Goal | | 1,2,3,4,5,6 | | | |
| 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: | | | | | |
| 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 M6.10

| |
|--|
| Mitigation Action #10: Actively participate in the plan maintenance strategy identified in this plan. |
|--|

| | | | | | |
|---|--|-------------------------------|--|---|--|
| Lead Agency/Department Organization: EMRS Admin. | Supporting Agencies/ Organizations: | Estimated Cost: Low | Potential Funding Source: General Fund | Estimated Projected Completion Date: Short-term | Hazard(s) Mitigated: All Hazards |
| Year Initiated | 2014 | | | | |
| Applicable Jurisdiction | Village of Merrionette Park | | | | |
| Applicable Goal | 2 | | | | |
| 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: | | | | | |
| 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 M6.11

| Mitigation Action #11: Consider participation in incentive-based programs such as the Community Rating System, Tree City, and StormReady. | | | | | |
|--|--|-------------------------------|----------------------------------|---|--|
| Lead Agency/Department Organization: Admin. | Supporting Agencies/ Organizations: | Estimated Cost: Low | Potential Funding Source: | Estimated Projected Completion Date: | Hazard(s) Mitigated: All Hazards |

| | | | | | |
|---|------------------------------|--|--------------|-----------|--|
| | | | General Fund | Long-term | |
| Year Initiated | 2014 | | | | |
| Applicable Jurisdiction | Village of Merrionette Park | | | | |
| Applicable Goal | 1,2,4 | | | | |
| 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: | No funding | | | | |
| 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 | X | | | | |

Action M6.12

| | | | | | |
|--|--|-------------------------------|--|---|---|
| Mitigation Action #12: 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: Admin. | Supporting Agencies/ Organizations: | Estimated Cost: Low | Potential Funding Source: General Fund | Estimated Projected Completion Date: Short-term and ongoing | Hazard(s) Mitigated: Flooding |

| | |
|---|-----------------------------|
| Year Initiated | 2014 |
| Applicable Jurisdiction | Village of Merrionette Park |
| Applicable Goal | 2,3 |
| Applicable Objective | 4, 6, 9 |
| 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: | |
| 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 M6.13

| Mitigation Action #13: Where feasible, implement a program to record high water marks following high-water events. | | | | | |
|---|--|----------------------------------|---|--|---|
| Lead Agency/Department Organization: Admin. | 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 Merrionette Park | | | | |
| Applicable Goal | 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: | Programs not needed at this time |
| 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 | X |

Action M6.14

| Mitigation Action #14: Consider developing and implementing a Capital Improvements Program (CIP) to increase the Village's regulatory, financial, and technical capability to implement mitigation actions. | | | | | |
|--|--|--------------------------------|---|--|--|
| Lead Agency/Department Organization: Public Works | Supporting Agencies/ Organizations: | Estimated Cost: High | Potential Funding Source: CIP components of the general fund (if implemented) | Estimated Projected Completion Date: Long-term | Hazard(s) Mitigated: All Hazards |
| Year Initiated | 2014 | | | | |
| Applicable Jurisdiction | Village of Merrionette Park | | | | |
| Applicable Goal | 1,3 | | | | |
| Applicable Objective | 1, 2, 7 | | | | |
| 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: | No funding |
| 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 | X |

Action M6.17

| Mitigation Action #17: Continuous maintenance of all detention ponds | | | | | |
|---|--|-------------------------------|--|--|---|
| Lead Agency/Department Organization: Public Works | Supporting Agencies/ Organizations: | Estimated Cost: Low | Potential Funding Source: BRIC, HMGP | Estimated Projected Completion Date: Ongoing | Hazard(s) Mitigated: Flooding |
| Year Initiated | 2021 | | | | |
| Applicable Jurisdiction | Village of Merrionette Park | | | | |
| Applicable Goal | 2,3 | | | | |
| Applicable Objective | 13 | | | | |
| 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) | Medium—Project will have a long-term impact on the reduction of risk exposure for life and property, or project will provide an immediate reduction in the risk exposure for property. Improve stormwater collection and flood control. | | | | |
| Action/Implementation Plan and Project Description: | An ongoing maintenance plan for all Village-owned detention ponds will be implemented and enforced by the new Public Works Director. | | | | |

| | |
|---|---|
| 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 |
|---|
| Water main, valve, and fire hydrant replacement along 118th Street which is prone to breaks |
| Construct a Salt Storage Facility |
| Water main, valve, and fire hydrant replacement along Meadow Lane which is prone to breaks |

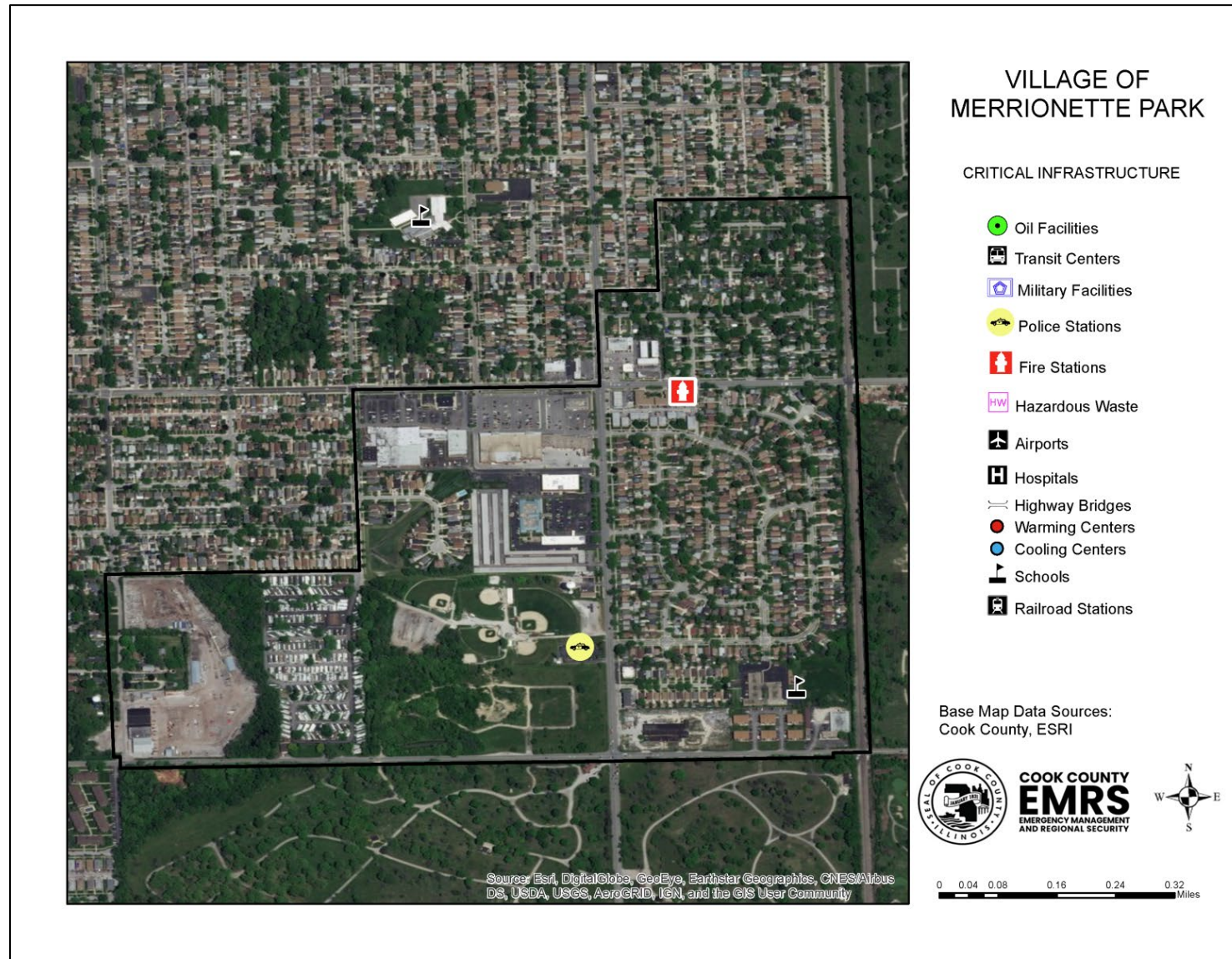
Future Needs to Better Understand Risk/Vulnerability

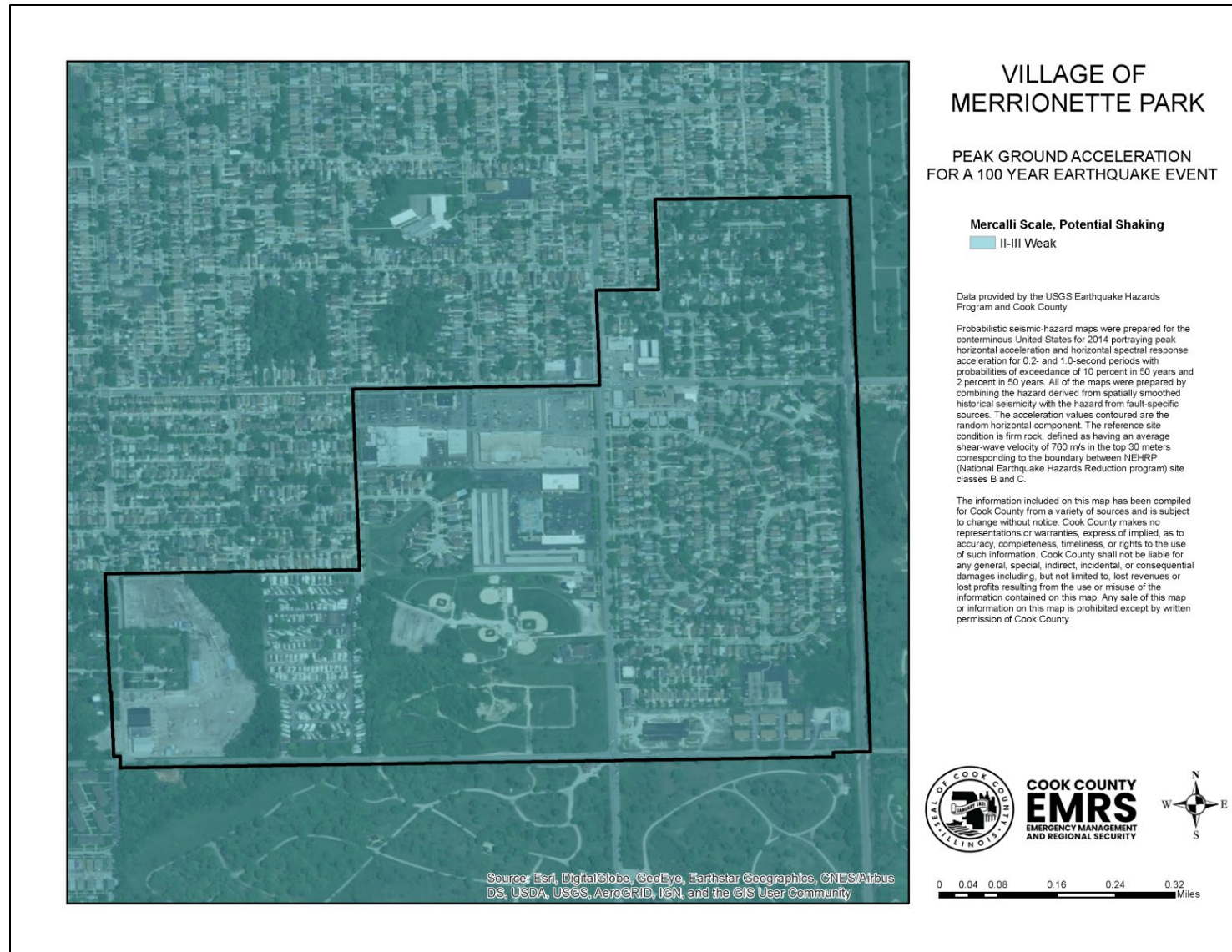
Examples of future needs include, but are not limited to, receiving training to understand the mitigation grant application process better, studies that may be needed to realize hazards/risks better, etc.

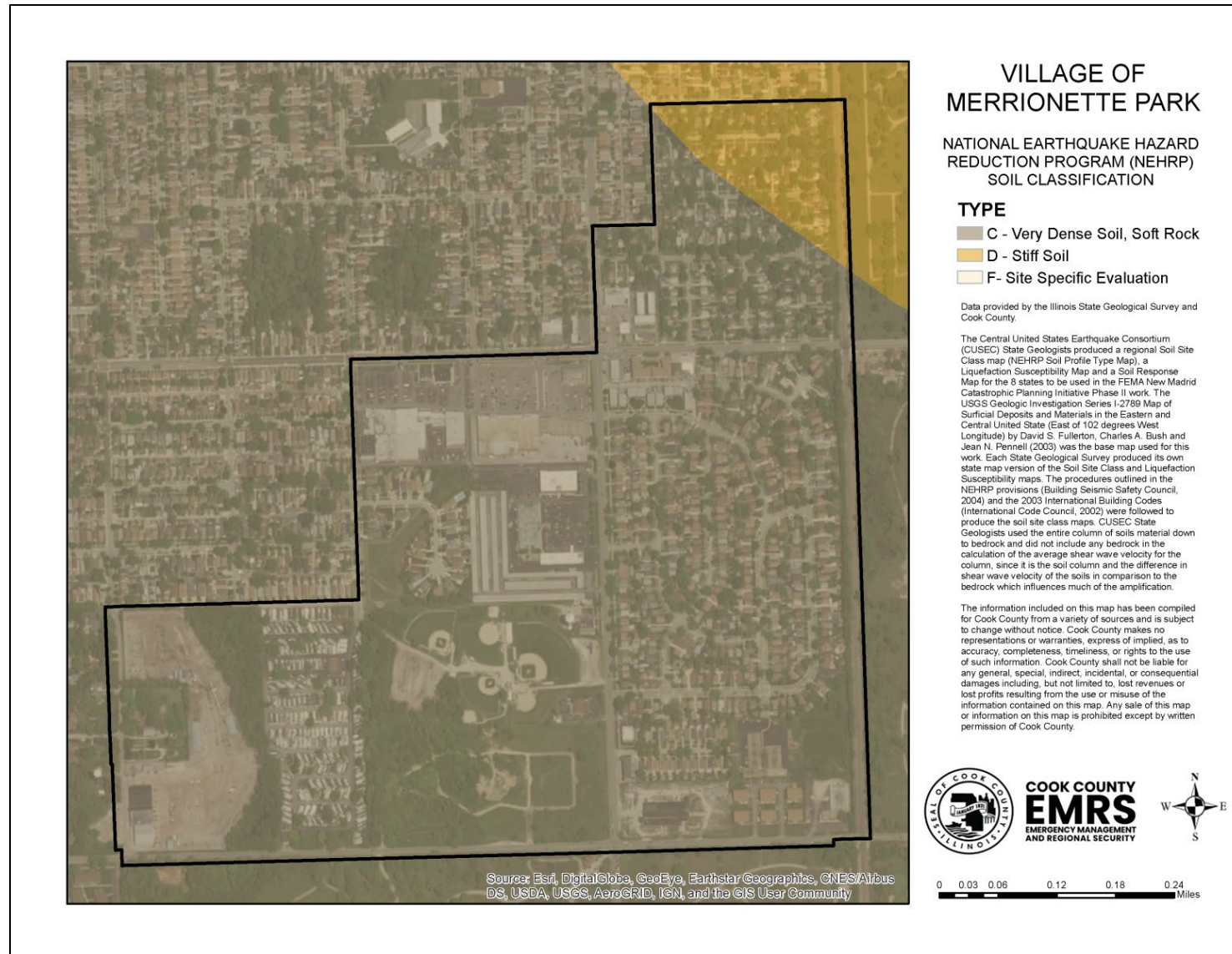
Additional Comments

None at this time.

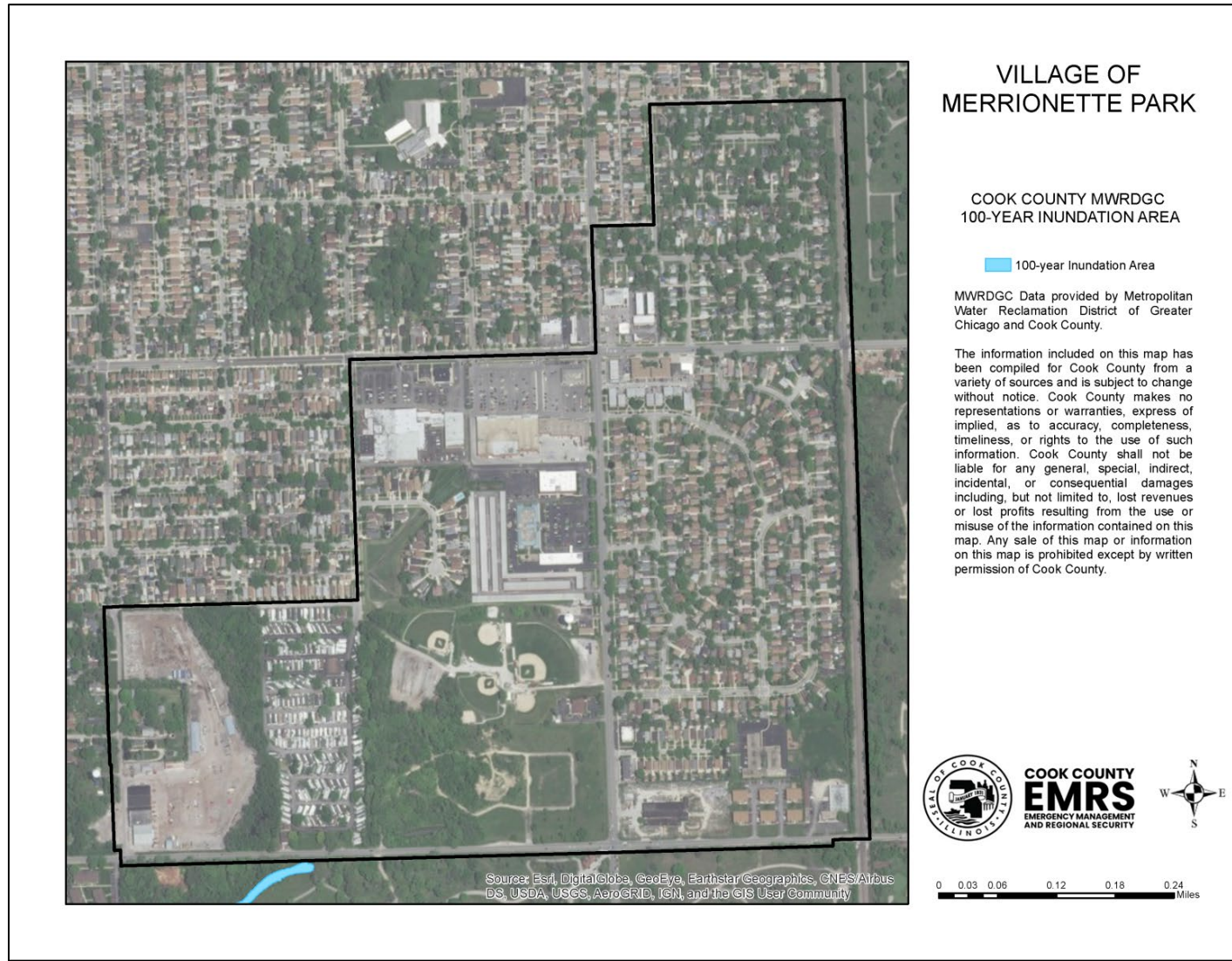
Hazard Mapping

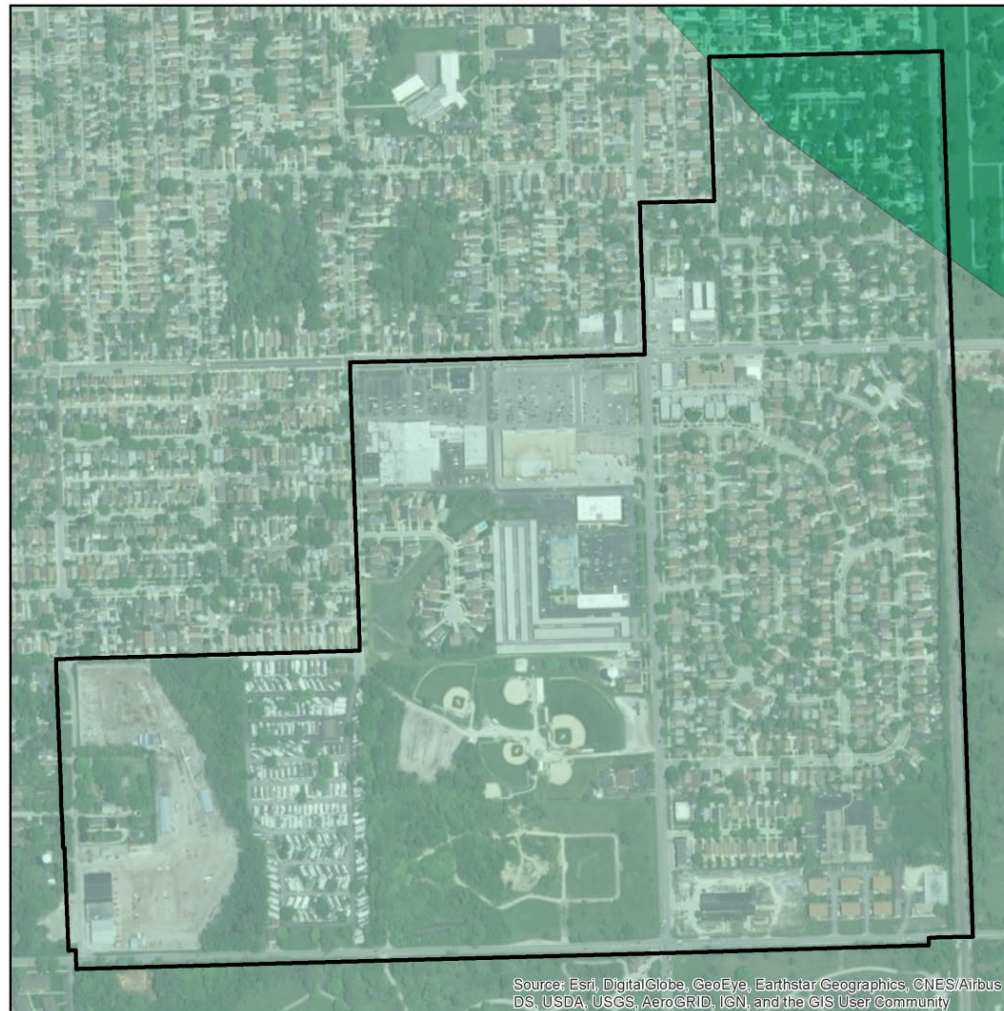






DISCLAIMER: The Cook County MWRDGC 100-year Inundation Map is provided to show general flood risk information regarding floodplains and inundation areas. This map is not regulatory. Official FEMA Flood Insurance Study information and regulatory maps can be obtained from <http://www.fema.gov>.





VILLAGE OF MERRIONETTE 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-2769 Map of Surficial Deposits and Materials in the Eastern and Central United State (East of 102 degrees West Longitude) by David S. Fullerton, Charles A. Bush and Jean N. Pennell (2003) was the base map used for this work. Each State Geological Survey produced its own state map version of the Soil Site Class and Liquefaction Susceptibility maps. The procedures outlined in the NEHRP provisions (Building Seismic Safety Council, 2004) and the 2003 International Building Codes (International Code Council, 2002) were followed to produce the soil site class maps. CUSEC State Geologists used the entire column of soils material down to bedrock and did not include any bedrock in the calculation of the average shear wave velocity for the column, since it is the soil column and the difference in shear wave velocity of the soils in comparison to the bedrock which influences much of the amplification.

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



COOK COUNTY
EMRS
EMERGENCY MANAGEMENT
AND REGIONAL SECURITY



0 0.03 0.06 0.12 0.18 0.24 Miles

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

