

**SUMMARY NOTES OF THE FEBRUARY 20, 2024 VIRTUAL MEETING OF THE
MILWAUKEE COUNTY HAZARD MITIGATION PLAN UPDATE
LOCAL PLANNING TEAM**

INTRODUCTION

The February 20, 2024, meeting of the Milwaukee County Hazard Mitigation Plan Update (HMPU) for the Local Planning Team (LPT) was convened via Microsoft Teams ("Teams") online platform at 10:02 a.m. The meeting was called to order by Mr. Paul Riegel, Director for Milwaukee County's Emergency Management Division, Office of Emergency Management (OEM). Attendance was tracked using the online software.

In attendance at the meeting were the following individuals:

Local Planning Team Members

Jeffrey Bloor	Fire Chief, City of Cudahy
Susan Coyle	Senior Project Manager, Milwaukee Metropolitan Sewerage District
Natalie Czarkowski	Office of Emergency Management, Milwaukee County
Patrick Elliott	Senior Project Manager, Milwaukee Metropolitan Sewerage District
Mark Ferguson	Chief of Police, City of Glendale
Christopher Freedy	Chief of Police, Village of Fox Point
Laura Herrick	Chief Environmental Engineer, SEWRPC
Michael Kressuk	Fire Chief, City of Oak Creek
James Mayer	Fire Chief, City of Franklin
Natalie Meier	Milwaukee County
Barry Mitchell	Office of Emergency Management, Milwaukee County
Andy Pederson	Village Manager, Village of Bayside
Nicholas Poplar	Fire Chief, City of St. Francis Fire Department
Paul Riegel	Director, Milwaukee County Office of Emergency Management
Tim Salamon	Office of Emergency Management, Milwaukee County
Eduardo Santiago	Office of Emergency Management, Milwaukee County
Megan Shedivy, Secretary	Planner, SEWRPC
Ryan Zollicoffer	Director, City of Milwaukee Office of Emergency Management

Ms. Herrick began the meeting with a brief explanation of features on the Teams platform to submit questions or comments. She then handed the meeting over to Ms. Shedivy, who welcomed attendees and thanked them for their participation. She then briefly explained the meeting agenda and summary notes from the LPT kickoff meeting held on April 27, 2023. Ms. Shedivy pointed out that the kickoff meeting summary notes mention to follow up with Mr. Reigel regarding Mr. Shambarger's request on how to better take advantage of FEMA funding for community projects, such as a specific list of certain local staff deemed more knowledgeable for FEMA-related projects.

[Secretary's Note: After the meeting, Ms. Shedivy contacted Mr. Riegel requesting an email list of public works and planning staff in each community for future funding opportunities and additional input on potential FEMA funding projects.]

CHAPTER 1, "INTRODUCTION AND BACKGROUND"

Ms. Shedivy began her presentation with an overview of draft Chapter 1 of the Milwaukee County HMPU. She gave a brief description of the Plan background, study area (Milwaukee County), as well as the relationship of hazard mitigation planning to other County efforts. She noted that this Plan update is combining the County and City of Milwaukee hazard mitigation planning efforts. Ms. Shedivy then gave examples of community outreach and implementation activities related to hazard mitigation and highlighted notable MMSD flood mitigation projects listed in Table 1.5. She emphasized the importance of community participation during the preparation of this Plan update, as community participation is necessary in order to receive FEMA approval of the Plan. There were no questions or comments from the LPT on draft Chapter 1.

CHAPTER 2, "BASIC STUDY AREA INVENTORY AND ANALYSIS"

Ms. Shedivy continued with a short overview of the main components of draft Chapter 2 of the Milwaukee County HMPU. She briefly described the County inventory data collected and analyzed, including current and projected demographic trends, vulnerable populations, and current and planned land use characteristics. Ms. Shedivy emphasized that the background or inventory information for the County is an important element of the planning process.

While discussing critical community facilities, Mr. Kressuk noted that there are two additional fire stations that need to be included on Map 2.10 and Table 2.12 for the City of Oak Creek. Ms. Shedivy acknowledged Mr. Kressuk's comment and stated that she will correct Map 2.10 and Table 2.12 once the data is received.

Concluding Chapter 2, Ms. Shedivy gave a general overview on climate change and its relative importance for hazard mitigation planning. She also emphasized that FEMA considers this information essential and necessary for hazard mitigation. The source of climate change data and how it is presented throughout the Plan was explained to the LPT attendees. Ms. Shedivy stated that Figures 2.2 through 2.5 illustrate temperature and precipitation trends and projections for Wisconsin.

There were no further LPT questions or comments on draft Chapter 2.

CHAPTER 3, "ANALYSIS OF HAZARD CONDITIONS"

Ms. Shedivy began with a general overview of draft Chapter 3 of the Milwaukee County HMPU and its main components. She gave a brief discussion on the hazard identification and ranking process; the risk analysis portion; and how each hazard was profiled. Ms. Shedivy stated that as part of the hazard and vulnerability analysis, the results from the online survey helped to determine which natural hazards to continue to include in the Plan update. She then presented Tables 3.2 and 3.4 which provide a general summary and past impact results of the hazards considered for this Plan update.

With no questions or comments related to the layout and hazard identification process of draft Chapter 3, Ms. Shedivy continued on to discuss the profiled hazards. With respect to the allotted meeting time, Ms. Shedivy focused on three of the seven profiled hazards. The three higher risk hazards presented to the LPT attendees were flooding and stormwater drainage, extreme temperatures, and Lake Michigan coastal hazards.

Starting with flooding and stormwater drainage, Ms. Shedivy gave a brief review on the existing hydrological features within the County including the miles of major streams, the main watersheds, and the acreage of land considered to be within the 1-percent-annual-probability (100-year event) floodplain.

Ms. Shedivy then presented the different types of flooding concerns for Milwaukee County (i.e., riverine, stormwater, dam failure, ice jams, and flash floods) as well as recently reported flood events and the different County assets vulnerable to flooding impacts, including transportation and structural damages and vulnerable populations.

For structural impacts caused by flooding, Ms. Shedivy described the parcel-based loss analysis used to estimate potential damages caused by a 100-year flood event. Tables 3.8 and 3.9 as well as Map 3.2 were presented to illustrate and explain the results of the analysis. Municipalities and watersheds with a large number of structures estimated to be within the 100-year floodplain were noted along with the estimated direct and indirect structural flood damages. Ms. Shedivy added that four critical community facilities were determined to be impacted by the 100-year floodplain. Mr. Zollicoffer asked if there was a specific software program used for the parcel-based loss analysis, and Ms. Herrick replied that this analysis was done by hand using a combination of GIS, County provided parcel information, aerial photos, modeled floodplains, and digital contour data.

Ms. Shedivy noted that because transportation damages and/or roadway flooding (caused by stormwater flooding events) occur frequently and can impact a number of roadways across the County, a more detailed study would have to be done to determine and map locations known or potentially impacted by heavy rain events. She added that community provided information on certain roadway location(s) known to frequently flood and/or deemed hazardous due to heavy rain will be included into the Plan if sufficient data is provided.

With no further questions or comments related to the flooding and stormwater hazard analysis, Ms. Shedivy gave a brief overview of Lake Michigan coastal hazards. She explained the different types of coastal hazards; the impacts of lake level fluctuations; Milwaukee County bluff and shoreline conditions as provided by recent studies and the Wisconsin Shoreline and Oblique Photo Viewer mapping tool; coastal flooding impacts in the County; and recent coastal hazard events. Ms. Shedivy then briefly presented the vulnerabilities and community impact assessment which was derived from a combination of sources, including the Wisconsin Shoreline and Oblique Photo Viewer (Maps 3.6, 3.7, 3.9, and 3.11), SEWRPC's Parcel-Based Analysis for structures on the Lake Michigan coastline, WEM's Coastal Erosion Risk and Vulnerability Assessment, and the Milwaukee County Coastal Resources Inventory. No questions or comments were given by the LPT for the coastal hazards.

Ms. Shedivy continued with a brief overview of the impacts of extreme temperature events. She highlighted the impacts that these events (cold and hot temperatures) can have on certain individuals and communities. She noted the number of reported deaths in Milwaukee County associated with these events. Ms. Shedivy also presented Figure 3.4, "Milwaukee County Heat Vulnerability Index" to illustrate the impacts heat can have on vulnerable populations, which occur in high concentrations within the City of Milwaukee. There were no LPT questions or comments related to extreme temperatures.

Ms. Shedivy concluded the draft Chapter 3 review by listing the remaining profiled hazards that were not presented in detail during the meeting, along with a reminder of the Plan website which contains contact information, a place to leave comments, and the HMPU material as it evolves during the drafting phase.

Following the presentation, Ms. Herrick inquired about Table 3.6, "WDNR Dam Inventory for Milwaukee County: 2023" and asked MMSD staff to confirm if dams identified as, "1," "2," and "3" or, "Milwaukee General Hospital 1, 2, and 3" are mapped and labeled correctly per WDNR sources. Ms. Coyle responded that she is not sure as to why those dams are listed as being on Honey Creek knowing there are no dams within that portion of the stream.

Ms. Coyle added that she will look into this further after the meeting and provide any additional information found for the dams in question.

ADJOURNMENT

There being no further business, Ms. Shedivy thanked the participating LPT members for their attendance and noted any additional comments on draft Chapters 1-3 will be accepted through March 22, 2024.

The meeting was adjourned at 10:57 a.m.

EMAIL CORRESPONDANCE FOLLOWING THE MEETING

After the meeting on February 20, 2024, Mr. Kressuk emailed Ms. Shedivy the two additional fire stations to list and map for the City of Oak Creek. Ms. Shedivy updated Map 2.10 and Table 2.12 to reflect this information.

Additionally, Ms. Herrick and Ms. Shedivy received an email on February 20, 2024, from Ms. Coyle related to the dams listed on Honey Creek (near Froedtert Medical College Campus). As a result of Ms. Coyle's investigation, it is believed that these three dams are not on Honey Creek but are stormwater pond dams on a small tributary to Honey Creek just south of the Medical campus. As such, Ms. Shedivy updated Table 3.6 and Map 3.1 to reflect this updated information.

MILWAUKEE CO HMP MEETING SUMMARY NOTES 02/20/2024 (00272133).DOC
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