

COMMISSION FILE NO: 20-156-10 **DATE INTRODUCED:** October 12, 2020

INTRODUCED BY: Executive Director (Signature on File in the Office of the Commission)

REFERRED BY COMMISSION CHAIRPERSON TO: Policy, Finance, and Personnel Committee

RELATING TO: Update to the Menomonee River Watercourse Management Plan

SUMMARY:

The Commission is requested to approve an update to the Menomonee River Watercourse Management Plan (MRWMP) as described below.

According to Commission Policy 1-01.15, Flood Risk Reduction Policy, the District will develop watercourse management plans for watercourses within its jurisdiction. These plans will identify flood risks and the preferred alternatives to reduce flood risks. District staff will present watercourse management plans to the Commission for adoption. Further, in response to changed conditions or new information, District staff will propose updates to watercourse management plans.

The MRWMP currently identifies multiple projects throughout the entire Menomonee River watershed, along with 99 structures remaining in the floodplain. One element of the MRWMP is identified as the Western Milwaukee project. This project has several elements (Phases 1, 2A, and 2B) and is located along State Street west of the Hawley Road Bridge in the Cities of Milwaukee and Wauwatosa. The District has constructed Phases 1 and 2A.

Over the past several years, the District has been performing engineering work to advance Phase 2B. This work has identified new information and resulted in proposed changes to the MRWMP. These changes include identifying additional structures in the floodplain and modifications to key project elements. This Commission request presents and seeks approval of the update to the MRWMP.

ATTACHMENTS: **BACKGROUND** ☐ **KEY ISSUES** ☐ **RESOLUTION** ☒

FISCAL NOTE ☐ **S/W/MBE** ☐ **OTHER** ☒ Attachment A, Attachment B

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COMMISSION ACTION: _____ **DATE:** _____

SUMMARY (Cont'd)

Update to the Menomonee River Watercourse Management Plan

Western Milwaukee Key Elements

The existing MRWMP identified the need for a levee to provide flood protection in the Western Milwaukee segment. Since then, the District has evaluated multiple alternatives to achieve the necessary level of flood protection and recommends the following key project elements for Western Milwaukee Phase 2B:

- 1,700 feet of earthen levee, up to eight feet high.
- 1,200 feet of concrete floodwall, up to 20 feet high.
- 200 feet of combination floodwall on top of earthen levee, up to eight feet high.
- Four new storm sewer systems, ranging in diameter from 15 inches to 72 inches, totaling 5,100 feet in length.
- 360 feet of relocated combined sewer overflow rectangular pipe (10-foot by five-foot).
- 500 feet of excavation and bank restoration along the south bank.
- 1,000 feet of excavation and bank restoration along the north bank.
- Turf and native plantings throughout project area.

In addition to these improvements, the update also proposes voluntary floodproofing or voluntary property acquisition of three residential and six commercial buildings immediately downstream of these Western Milwaukee elements.

These elements are shown in Attachment A.

Additional Structures in Floodplain

As the engineering analysis has proceeded, nine additional structures in the floodplain have been identified. These structures are located immediately upstream of the Western Milwaukee project area and are in the City of Wauwatosa. (See Attachment B.) Reducing the flood risk associated with these structures will be addressed by future projects, including the District's Schoonmaker Creek project. The Schoonmaker Creek project will be developed in coordination with work being performed by the City of Wauwatosa in the Schoonmaker Creek watershed.

Below is a table with an updated accounting of the number of structures in the floodplain.

	Existing MRWMP	Updated MRWMP
Total # structures in the floodplain (without District improvements)	363	372
# structures no longer in the floodplain	264	264
# structures remaining in the floodplain	99	108

RESOLUTION

Update to the Menomonee River Watercourse Management Plan

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the updated Menomonee River Watercourse Management Plan is approved, and that the Executive Director is authorized to implement the updated plan, subject to Milwaukee Metropolitan Sewerage District Commission budget approval.