

**COMMISSION FILE NO:** 21-124-9 **DATE INTRODUCED:** September 13, 2021

**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:** Authorization of Contract M03111P02 with the University of Wisconsin-Milwaukee School of Freshwater Sciences for Lab Support for the Corridor Study Phase VI

**SUMMARY:**

The Commission is requested to authorize and to direct the Executive Director to execute on behalf of the District Contract M03111P02 with the University of Wisconsin-Milwaukee School of Freshwater Sciences to provide lab support for the Corridor Study Phase VI (Corridor Study) in an amount not to exceed \$193,440. The contract will terminate on December 29, 2023.

The objectives of this contract are to provide funding for the University of Wisconsin-Milwaukee School of Freshwater Sciences, McLellan Laboratory, for microbiological analysis of human-associated and fecal indicator bacteria markers for 744 discrete water samples for Corridor Study subproject Basin-wide Microbial Investigations and Sewage Loading to the Estuary. This analysis will assist the United States Geological Survey in studying sewage contamination in Milwaukee area waterways for the Corridor Study. The microbial analysis of 744 discrete water samples will be used to calibrate models for the continuous estimation of sewage contamination within Milwaukee waterways.

**ATTACHMENTS:** **BACKGROUND** ☒ **KEY ISSUES** ☐ **RESOLUTION** ☒  
**FISCAL NOTE** ☒ **S/W/MBE** ☐ **OTHER** ☐ \_\_\_\_\_

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**COMMITTEE ACTION:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**COMMISSION ACTION:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

## **BACKGROUND**

Authorization of Contract M03111P02 with the University of Wisconsin-Milwaukee  
School of Freshwater Sciences for Lab Support for the Corridor Study Phase VI

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The optical properties associated with dissolved organic matter provide an avenue for investigating contamination sources in aquatic systems. A fraction of organic compounds interact with light; the extent to which light of a particular wavelength interacts with the organic material is reflective of the chemical composition of that organic material and thereby provides information about its source of the organic matter and the source of the water carrying it. Optical measurements are rapid, inexpensive, reliable, and can be made in the laboratory or field. The practicality of using in situ optical measurements as tools for continuous real-time assessment of human wastewater contamination in the Menomonee River watershed was evaluated in the Corridor Study Phase V, and results will be used to improve and extend this effort to the Milwaukee River, Kinnickinnic River, Menomonee River, and the mouth of the Milwaukee River estuary in the Corridor Study Phase VI.

## RESOLUTION

Authorization of Contract M03111P02 with the University of Wisconsin-Milwaukee  
School of Freshwater Sciences for Lab Support for the Corridor Study Phase VI

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**RESOLVED**, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized and directed to execute on behalf of the District Contract M03111P02 with the University of Wisconsin-Milwaukee School of Freshwater Sciences to provide lab support for the Milwaukee Metropolitan Sewerage District Corridor Study Phase VI in an amount not to exceed \$193,440.