

TOWN OF WINDSOR AGENDA REPORT

Joint Windsor Town Council, Windsor Redevelopment Successor Agency and Windsor Water District Meeting Date: July 19, 2023

To: Mayor and Town Council
From: Veronica Siwy, Deputy Director of Water & Environmental Management
Subject: Professional Services Agreement with Woodard & Curran

Recommendation to Council:

Authorize the Town Manager to execute a Professional Services Agreement Woodard & Curran for a Water System Corrosion Control Optimization Study for an amount not to exceed \$278,400 and authorize the Town Manager to execute said agreement and approve contract documentation and amendments up to the authorized budget and scope of work on behalf of the Town.

Strategic Plan Element:

The recommended action supports the goal of Infrastructure. Goal Statement: Through a lens of sustainability and innovation, invest in the Town's infrastructure and public facilities to meet the needs of future generations.

Background:

In August 2022, Woodard & Curran produced a Local Limits Revisions Technical Memorandum, evaluating copper loading to the Water Reclamation Facility (WRF), among other constituents. Under this evaluation it was determined that copper concentrations were significantly higher (62% increase) in wastewater sampling locations with potable water sourced by the Town's River Wells water compared to concentrations in wastewater sampling locations where potable water was purchased from Sonoma Water through the Santa Rosa Aquaduct. Sonoma Water and the Town utilize different corrosion control techniques. The Technical Memorandum concluded that the Town should re-evaluate its corrosion inhibition approach in order to reduce the copper loading to the WRF.

It is important to manage copper loading to the WRF for several reasons. There are copper limitations for biosolids which, depending on the copper concentration, may result in restrictions where biosolids can be land applied. While the Town has never exceeded this limitation, it is important for the Town to ensure they remain under this important threshold in order retain end-use options for biosolids disposal and maintain cost control. In addition, the North Coast Regional Water Quality Control Board has established Water Quality Objectives that the Town must meet for discharge to Mark West Creek, including copper. In the last discharge permit application, the Town determined that it did not have a reasonable potential to exceed the Water Quality Objective for copper, and therefore did not have a numerical discharge limit in its discharge permit. Reasonable potential analysis is conducted with each permit renewal. Should the Town's discharge be determined to have a reasonable potential for exceeding the copper Water Quality Objective, additional sampling and permit requirements will be required as a result, leading to increased discharge costs for the Town. The Town's next reasonable potential analysis will be submitted with the Waste Discharge Report required for permit renewal in October 2024.

The last Corrosion Control Study for the Town's water distribution system was conducted by RMC

Water and Environment and Trussell Technologies Inc. in 2006.

Discussion:

The Town's Water Division currently uses orthophosphate as a corrosion inhibitor within the drinking water distribution system. Woodard & Curran has proposed a 5-Phase, Water System Corrosion Control Optimization Study, which includes a desktop assessment to provide recommendations that will result in the reduction of copper levels currently being leached out of the plumbing from water system customers, and in turn reduce the copper loading to the WRF.

The final outcome of the Water System Corrosion Control Optimization Study will be to either optimize existing corrosion control methods or recommendation for pilot testing of a new system.

Fiscal Impact:

The total fiscal impact of the proposed Professional Services Agreement will allocate up to \$278,400 and is supported through sufficient appropriations within the Enterprise Funds in the Council approved fiscal budget for fiscal years 2023-2024 and 2024-2025. The requested amount includes a 20% contingency.

Environmental Review:

This action does not constitute approval of a "project" within the meaning of California Environmental Quality Act (CEQA) Guidelines Section 15378 because it does not have the potential to result in a direct or indirect physical change in the environment because it is a study. Therefore, no environmental review is required at this time. Future project-specific environmental review will be conducted prior to approval of any capital project."

Attachment(s):

[1. PSA - Woodard & Curran - Corrosion Report](#)

Prepared by:

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Reviewed by:

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Public Works Director

Reviewed by:

Jeneen Peterson
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Recommended by:

Jon Davis
Town Manager