STAFF REPORT (Water Filtration Modules)

Meeting Date:	11/5/2025
Author:	Aaron Kunders
Department:	Public Works
Division:	Water Quality
Subject:	Module/Membrane Replacement
Type of Item:	Action
CC:	City Administrator John Walsh

Introduction: The Water Quality Department is preparing to replace a second rack of modules.

Background: The Water Filtration Facility is equipped with four racks, each containing 52 filtration modules, and one rack with 26 modules. These modules are original, with some having been in service for nearly 18 years. While the typical expected lifespan of such modules is 8 to 10 years, our specific system and water source conditions have allowed them to perform far beyond their expected duration.

To address the aging infrastructure, we began replacing the modules last year, implementing a strategic, phased approach to minimize budget impact. Rather than incurring a one-time expenditure of approximately $1.3 million, we are spreading the cost over five years. This is the second year of our planned replacement cycle. The modules installed last year have shown promising results, including enhanced energy efficiency compared to the older models.

Staff Analysis: Replacement is needed to ensure safe, clean drinking water can be delivered to citizens.

Budget Impact: This capital improvement initiative is part of a budgeted expenditure that has been thoroughly vetted and approved by the Budget Committee and City leadership. A five-year replacement and maintenance cycle aligns with best practices for water system management, ensuring the reliability and sustainability of our facilities for the long term. Proactively investing in these upgrades now is critical to maintaining the high standards of water quality and operational efficiency our community relies on.

Alternatives: None.

Requested Action: I recommend the City Council move to approve the purchase of the modules for the Water Filtration Facility from AriaFiltra, the same company we purchased the modules from last time, in the amount of $281,134.38.