

**Metropolitan Domestic Water Improvement District  
Board of Directors Meeting**

**July 11, 2022**

**Approval and Award for Water Treatment Media Regeneration  
Annual Quotes for the District's Arsenic Treatment Media**

**Synopsis**

The Board is being requested to approve the Water Treatment Media Regeneration annual quotes for the regeneration of the District's Arsenic treatment media and award the regeneration service to Purolite.

**Background**

The District operates and maintains four Arsenic treatment systems with all of them using the LayneRT regenerable media. The LayneRT media is an Iron Oxide adsorption media. As the water flows through the media the arsenic ions, along with other competing ions such as silica, phosphate, and vanadium, stick to the media. Regeneration is scheduled when there is no longer any room for additional ions to attach to the media. The regeneration process chemically strips the Arsenic and other ions from the media. The media is then cleaned and certified back to National Sanitation Foundation (NSF) 61 standards for drinking water and can be reinstalled in the treatment system. All drinking water components are required to meet the NSF 61 standard. The facility performing the regeneration process has to have the Water Quality Gold Seal Certificate for the product being regenerated to meet NSF 61.

**Issues**

District staff sent out requests for sealed bids for the annual quotes. Requests were sent to Purolite as the only known vendor with the Gold Seal Certification and who has the capability to perform this service for the LayneRT media. An advertisement was placed in the Daily Territorial on June 13, 2022 and ran for four consecutive days. All bids were requested to be sent by email with Water Treatment Media Quote in the subject line. Electronic bids were due by 2:00 p.m. on June 28, 2022. Emails were not opened until after 2:00 on the bid opening date. Staff set up a GoToMeeting session for the bid opening allowing remote attendance.

Purolite was the only respondent to the bid request and can meet the requirements of NSF 61 for the regenerated media. Purolite provided regeneration costs for varying quantities of media. The District has five vessels that contain 80 cubic feet of media. Using 80 cubic feet of media as an

example, the cost of regeneration, assuming the high range shipping costs, would be \$310 per cubic foot or \$24,800 per vessel. Applicable taxes are already included in the pricing. It is currently anticipated that two 80 cubic foot vessels, one 157 cubic foot vessel (Diablo Village), will need to be regenerated under this annual quote

The usage of this annual quote will be on an as needed basis when regeneration is required. Funding for the regenerations will be from the appropriate line item in the Fiscal Year 2023 Adopted Budget.

**Staff Recommendation**

It is recommended by staff that the Board approve the annual quote for Water Treatment Media Regeneration and award Purolite the regeneration of the District's Arsenic Treatment Media.

**Suggested Motion**

I move to approve the annual quote for Water Treatment Media Regeneration and award Purolite the regeneration of the District's Arsenic Treatment Media.

Respectfully submitted,

Steven D. Shepard  
Utility Superintendent

I concur with the above-noted recommendation.

Respectfully submitted,

Joseph Olsen, P.E.  
General Manager