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To: Chairman Ken Staton and MVWD Board of Directors  
From: Kiley Bradshaw Operations Manager  
Date: January 28, 2020  
Subject: Purchase of Arsenic Media

### **Background**

In January of 2006, the US EPA lowered the MCL for arsenic from 50 ppb to 10 ppb. EPA *primary drinking water standards* apply to all public water systems, so in order for the District to remain in compliance with the new regulation it was necessary to construct two treatment facilities. The Arrow Canyon and Baldwin Springs treatment facilities were completed and brought online in the spring of 2009.

The District's arsenic treatment facilities use an adsorption process which consists of pressurized vessels filled with a proprietary granular iron media. Source waters are chlorinated and then pass through the vessels where the arsenic is absorbed by the media. When the media becomes saturated or spent it is removed from the vessels and disposed of.

De Nora Water Technologies is the manufacturer/distributor of the granular iron media known as Bayoxide 33. The District has been using Bayoxide 33 since the Treatment Facilities have been brought online. The required amount of Media is 2,548 cubic feet of Bayoxide which is delivered in 49 supersacks, at a price of \$459,404.00.

### **Suggested Motion**

Move to approve the purchase of Arsenic Media from De Nora Water Technologies in the amount of \$459,404.00.