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To: Chairman Ken Staton & MVWD Board of Directors  
From: Joseph Davis, General Manager  
Date: October 18, 2017  
Subject: Arrow Canyon #2

### **Background**

Layne has supplied staff an estimate for the repair of Arrow Canyon #2 of \$88,705.85. The bowl assembly can be rebuilt but needs 2 new impellers. The majority of repair costs are due to problems with the column pipe, bearing retainers, shafting and couplings. The column pipe has heavy pitting and corrosion, and to complicate matters the bearing retainers have been spinning internally in-between the pipe faces, this has ruined the pipe couplings and the sealing faces of the pipe. The shafting is pitted and corroded due to the material being C1045 Carbon Steel with glued-on stainless steel sleeves. they recommend using 416 Stainless Steel shafting and couplings, the next time this pump is serviced the shafting can be "flipped" if needed and use opposite end for a new bearing surface.

### **Suggested Motion**

Move to authorize the repairs of the Arrow Canyon #2 pumping equipment by Laneye for a price not to exceed \$88,705.85.