



PARADISE IRRIGATION DISTRICT

"Paradise Irrigation District (PID) is dedicated to the business of producing and delivering a safe, dependable supply of quality water in an efficient, cost effective manner with service that meets or exceeds the expectation of our customers."

Please consider how this agenda item relates to our mission.

TO: Board of Directors
FROM: Kevin Phillips, Interim District Manager
Jim Passanisi, Treatment Superintendent
DATE: June 12, 2018 (Rescheduled Board of Directors Regular Meeting)
RE: Magalia Reservoir Bypass Diversion Structure
Purchase of Repair and Spare Screens

The Magalia Reservoir Diversion structure constructed in 2007 includes specialized screens that were vandalized. It appears that someone tossed many large boulders on top of the flat screens until they buckled. The concrete diversion structure is comprised of six screened segments (about 5' x 5' each), and two were damaged.

This critical infrastructure located between the Magalia Reservoir and Paradise Lake allows water from the lake to be diverted directly to the treatment plant, bypassing Magalia Reservoir. The "coanda" screen is engineered and fabricated so that water passes across and through the screen at varying velocities while sand, silt, and debris are diverted downstream of the structure. The cleaned water passing through the screen flows through an underground pipeline to the treatment plant.

Staff contacted the original supplier of the screens, Hydroscreen Co. LLC. There is another supplier of the "coanda" screen technology; however, there is a no competition agreement in California between the two suppliers. The supplier staff recommends purchasing the screen from, includes a picture of the District's diversion structure and an explanation of the benefits of the municipal water pretreatment screen technology on their website www.hydroscreen.com/products/municipal_water_treatment.

The Hydroscreen Company provided a quote of \$17,000, including shipping for four screens, and two acceleration and toe plates. The quantity of four screens includes two replacements and two spares.

The ACWA JPIA property insurance program includes the diversion structure's screens. The deductible is \$2,500. Appropriations for the District's expense are available in the treatment budget account Equipment Repairs 01-30-621000.

The following motion is recommended:

"Authorize the Interim District Manager to approve a purchase order in an amount not to exceed \$20,000 to purchase four screens, with two acceleration and toe plates from Hydroscreen Co. LLC.

Area of the Damaged Diversion Structure



The Damaged Screen Section is Supposed to be Flat



Temporary Repair – diversion is partially in service

