

# Binkley Associates, Inc.

CONSULTING ENGINEERS

HYDRAULICS · WATER RESOURCES · WATER AND SEWAGE FACILITIES

MEMO

October 20, 2016

TO: Board of Directors, Lake Don Pedro Community Services District  
c/o Syndie Marchesiello, Syndie@ldpcsd.org

FROM: Elizabeth Binkley, Binkley Associates, District Engineer



RE: Failure of Water Treatment Filter #1

We've received verbal reports on the condition of filter vessel #1 from Randy Gilgo and Rick Langlois of ERS, and received a forwarded copy of the ERS proposal for repairs from Pete Kampa. The filter is in poor condition and needs repair immediately. This is an emergency situation. We recommend that you authorize the repair work as proposed by ERS in their \$99,226.05 proposal.

Bear in mind that filter vessel #2 must remain in service while they work on #1, so they have not yet opened #2 to estimate cost of repairs needed (if any). It is likely that it will be in a similar condition as #1, so we expect additional expense.

The granular media inside the filters does require periodic replacement. The filters were last cleaned out, repaired and the media replaced sometime between 1998 and 2003. After that they were on a maintenance schedule. Every two years ERS would come and do extensive testing and inspection, and make recommendations. We have on file ERS reports from 2005, 2007, and 2009. I spoke with Rick at ERS about this, and he said that none of the repairs they recommended 2009 were done, and the manager at that time also canceled the routine inspection program. To our knowledge, no inspection or maintenance has been done on the filters since 2009. However, it should be noted that we were not always kept informed during the period of 2008 onward. We believe that if the filters had been properly maintained during that time, you would not be in a position of an emergency repair now. Repairs would have been necessary but would have been caught earlier, allowing more time for engineering and obtaining bids, and not putting the community at risk.

We strongly advise that a routine be reinstated to help prevent a future emergency and maintain the water quality. At a minimum, the filters should be inspected every two years by an outside filtration company, but we would prefer these inspections to be annual. In addition, staff should inspect the visible portion of the interior and surface wash system monthly or at an interval to be determined.

cc: Pete Kampa, pete@kampacs.com