



# Volcano Community Services District | MINUTES

**March 20, 2023 | 7:00 pm | Armory Hall, Volcano CA**

Meeting called by N. Bailey, President

Acting Secretary: R. Korematsu

Directors Present:

N. Bailey, C. Corral, R. Korematsu, M. Sorenson  
J. Norcross

## SPECIAL MEETING AGENDA

### 1. Discussion of the possible rehabilitation of the redwood tank for water storage.

The District Engineer (DE) opened the discussion asking if the Sika-flex holds the floor as tight as possible? Sika-flex is a 1-A construction adhesive and needs a 10-day dry time. The contractor offered the MSDS paperwork to the Board and the Board agreed.

On the second page of the proposal, the DE pointed out that element of one repair is included, but there are unknowns. The contractor could not tell the condition of the floor joists and the thicker floor looked good. Since the tank has been empty for a length of time, there may be unknowns that the contractor cannot account for. This process leads to a tank replacement in the future. The tank does look solid and the contractor walked around inside of the tank. The tree/shrubbery overgrowth has been maintained and there does not seem to be any bug damage. A liner might cost \$38,000-42,000 if the tank does not seal up. The tank must get wet and stay wet in order to swell up and seal.

M. Sorenson asked if we fill it one quarter of the way full, will that give a decent water level to check and see if it can be filled in stages, then see if the floor will hold. There are diamond-patches for leaks in the floor. The floor itself is 2 to 3 pieces. The patches covered the seams.

The DE talked about the elevations of the tanks and the steel tank overflow needs to be adjusted. The ideal operational level is 6 inches to 1 foot. There is a new technology with urethane to repair holes and spot leaks. FEMA has grant money in California to replace the redwood tanks to replace the tanks, but can take 2 to 3 years to get. CCWD has a full-time person for grant writing. FEMA funds redwood tank mitigation grants. State of California also has a revolving state grant fund. We will need to start the process now to apply for the grants. AWA offered to help with a grant writer availability.

Mr. Ketron said this is a relatively short-term solution for the next 2 to 3 years. FEMA money is a little easier to get and the district should be trying to get a grant. Elevation is critical. Where the redwood tank is, the tanks will have to be at the same elevation. A plastic tank would require a higher elevation. There is a lot of complications and would not get to 70,000 gallons. The tunnel is overflowing 30 gallons a minute even during the summer.

The DE said the redwood tank was put in in the 1980s, new steel tank was put in the 1990s. The DE suggested that the District replace all tanks with a large tank. The valves to the redwood tank have some corrosion, but the valves need to be loosened slowly. If the contractor does the work, his entire crew dives the tank and will seal inside and outside so anything that is leaking will pull the epoxy to the outside of the tank. He can also take down and sell the tank when the tank gets replaced. The contractor was requested to look at the other old redwood tank and see whether it has any value.

The contractor explained that the tank is probably going to come together well, but there are gaps between all the boards including the floor due to the tank being dry. Swelling has to occur in order to identify any leak detection.

The sawdust is going to be pulled into the wall cracks and the seams in order to seal the wood until the wood can swell. Once the tank has been filled with water, you can drain it and clean it. The diamond patches would be covered with the Sika-Flex.

Fee for additional insured: There is no fee, the contractor's insurance covers more than the District's requirement.

The benefit to the town is that the town will have 70,000 gallons more of storage. The work could begin in 10 days from the Board's decision, once the deposit is received and the contract signed. Weed eating maintenance and copper spray would be a necessary part of the ongoing maintenance. The contractor also requested to have the weeds and brush removed around the tank.

The operator said there is no permit needed when a tank is being repaired. Only the DE and District Directors will be allowed on the active worksite. It would take about a couple of weeks for the repair.

**Meeting was adjourned at 8:07 pm.**

**NEXT REGULAR MEETING: April 6, 2023 AT 7:00 PM**

Submitted by:   
Rebecca Korematsu, Secretary (A)



**Volcano Community Services District**  
P.O. Box 72  
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**BOARD OF DIRECTORS**

NANCY BAILEY, Chair (209) 296-4899  
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REBECCA KOREMATSU (209)296-1995  
JANE NORCROSS (209) 296-4959  
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**AGENDA**  
**SPECIAL MEETING**

*Monday, March 20, 2023 Armory Hall, Volcano*  
**7:00 P.M.**

In compliance with the Americans with Disabilities Act, if you are a disabled person and you need a disability related modification or accommodation to participate in this meeting, then please contact Nancy Bailey at 209/296-4899 Requests must be made as early as possible and at least one-full business day before the start of the meeting.  
Floor discussion at board discretion will be limited to 5 minutes per subject per individual.

**AGENDA**

Discussion of the possible rehabilitation of the redwood tank for water storage.