

**MEMORANDUM**

**TO:** BILL MAWYER, EXECUTIVE DIRECTOR

**FROM:** DAVID TUNGATE, DIRECTOR OF OPERATIONS

**SUBJECT:** EMERGENCY PROCUREMENT  
PANTOPS WATER STORAGE TANK MIXER

**DATE:** MAY 9, 2023

*W. A. Mawyer Jr.*  
APPROVED

This memorandum serves as official notice of an Emergency Procurement as required by the Rivanna Water and Sewer Authority Procurement Manual and Section 2.2-4303 of the Virginia Public Procurement Act.

The existing mixing system in RWSA's Pantops Ground Storage Tank failed in September 2022. At that time, RWSA procured a replacement mixer, as well as the services of a diving company to install the mixer. Installation of the replacement mixer occurred in October 2022, however, the replacement mixer was found to be defective immediately after start-up. In addition, the crew sent by the diving company underperformed. Tank operations were able to continue throughout the Fall and Winter without any impacts to water quality. In addition, the work could not proceed during the Observatory WTP shutdown, which was restarted on April 24, 2023. As temperatures now begin to rise through the Spring and Summer months, the lack of a mixing system in this 5.0 MG storage tank has the potential to impact water quality. The lack of an operable mixing system will lead to water storage tank temperature stratification, increased water age, and decreasing free chlorine residuals. The ACSA also is dealing with water age issues in the Glenmore area of their distribution system. An operable mixer in the Pantops tank would help some of the water age issues in the Glenmore area of the ACSA water distribution system.

Staff recommends that this be declared an emergency condition so that Liquid Engineering Corporation (LEC) from Billings, MT can be hired to mobilize and install the mixer for a cost of approximately \$22,140. LEC is a full-service tank inspection consultant and contractor and specializes in manned entries. Staff has extensive experience with LEC, and LEC has successfully completed work in several RWSA facilities. Due to the distance between LEC and RWSA, a special mobilization by LEC is required for the mixer to be installed prior to the onset of the Summer and higher temperatures. LEC has indicated that they will not be available under a standard-mobilization scenario until late June/early July. LEC will provide expedited mobilization as well as all required labor to install the mixer, which will be furnished by RWSA and is currently available.