



## INTERNAL OFFICE MEMORANDUM

**TO:** Robert Rivera  
**FROM:** Greg Wikholm  
**DATE:** 9/23/2021  
**RE:** Elevated Storage Tank Booster Pumps

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The City has a 500,000 gallon elevated storage tank located at the intersection of George Street and School Road. The Elevated Storage Tank is set up to “float” on the potable water distribution system in order to help keep pressure in the system when there is any disruption in flow coming from the water treatment plant. Unless the water in the tank is turned over on a regular basis it will stagnate and the disinfection residual in the water can decrease to a less than the desirable level. Currently the Elevated Storage Tank can only be drained by turning off the high service pumps or lowering the pressure of the pumps at the water treatment plant for an extended period of time. The City keeps the distribution system pressure at 70 psi and when the pressure is lowered too much below that setpoint it triggers low pressure complaints from our customers. As an alternative to lowering the system pressure adding booster pumps at the site would allow the water to be drained and turned over independent of the pressure at the water treatment plant. These booster pumps would also provide additional pressure in the distribution system in the event of a problem at the water plant that requires the shutting down of the high service pumps. The installation of these pumps will provide a much more desirable method of keeping the water in the Elevated Storage Tank fresh rather than shutting down or limiting the flow of water coming from the water treatment plant. These pressure interruptions inconvenience our customers and are not an optimal method of keeping the water in the Elevated Storage Tank fresh.