

MEMORANDUM

TO: Town Council

FROM: Bill Bruce

DATE: April 30, 2021

RE: Proposed Scope of Work-- Water for Fire Protection Study

One element of the Town's adopted Scope of Work for our \$1.1M state water grant is to:

"Explore the feasibility of a fire suppression system. The system may include land acquisition, well drilling/ wellhead construction, and engineering and construction of a storage facility for fire department access."

Over its past two meetings, the Oak Ridge Water Advisory Committee has met with Chief Gibson of ORFD to discuss a proposed scope of work to accomplish this goal. The Committee modeled the proposed scope after a similar study performed for the Town of Summerfield by the Wooten Company in 2016 (updated 2020). Staff has reached out to Summerfield and the Wooten Company for insight and guidance in this process. Please see below for the scope of work as endorsed by the Water Advisory Committee:

1. Review the following options for cost and effectiveness as a water supply for firefighting:
 - a. Use of multiple ground level (possibly buried) storage tanks and hydrants at strategic locations around Town. Locations determined in consultation with Oak Ridge Fire Department.
 - b. Installation of an elevated storage tank on Fire Department property with multiple hydrants at the base of the tank. Tank to meet Town design standards. Tank to be sized so as not to preclude potential future use as potable water supply.
 - c. Installation of an elevated tank and main lines along NC-150 and NC-68 and possibly other strategic corridors with fire hydrants.
2. Provide map of possible locations for each option.
3. Review possible water supply alternatives for each of the previously listed options
 - a. Wells
 - b. Purchased water from Winston-Salem along Haw River Rd. corridor or NC-150 corridor

Staff request: Approve proposed scope of work for a Water for Fire Protection Study

