



CITY OF WASHINGTON, ILLINOIS
Committee of the Whole Agenda Communication

Meeting Date: May 10, 2021

Prepared By: Dennis Carr, P.E. – City Engineer

Agenda Item: Water Quality Study

Explanation: The City of Washington currently operates two (2) water treatment plants. Water Treatment Plant No.1 produces a chloramine (Chlorine + Ammonia) as the disinfection method for the distribution system (low pressure zone). Water Treatment Plant 2 produces a free chlorine as the disinfection method for the distribution system (high pressure zone). The two-different disinfection methods mix at three connection points between the two zones. This mix of the two disinfection methods create a potential for unstable chlorine residual. Unstable residual may not provide for enough disinfection and may also be a reason for potential taste complaints.

The Illinois Administrative Code requires that any community water supply distributing water without a free chlorine residual must create a Nitrification Action Plan.

This study would look at the water system as a whole as well as each plant individually. The consultant would look at the possibility of adjusting each plant to match the disinfection process of the other plant as well as reviewing the chlorine residuals around the entire system to develop a strategy to meet the minimum residual requirements put forth by the state.

Crawford, Murpy, and Tilly (CMT) has been the consultant overseeing the updates at our Water Treatment Plants and throughout our system for years now. Their familiarity with staff and the system makes them the ideal candidate for this study.

Fiscal Impact: Staff budgeted \$85,000 in Acct number 500-000-800-3100 to perform this study.

Recommendation Summary: Staff would like to forgo other consultant interviews and place an Engineering Services Agreement on the next scheduled council meeting for approval.,

Action Requested: Discussion