



AGENDA MEMORANDUM

CONTACT: CLIF CUSTER

SUBJECT: BWA WATER USAGE

SUMMARY:

I had a meeting with BRA General Manager and Superintendent. Richwood is currently averaging 78,000 gallons a month over our 235,000-gallon contractual Agreement. BWA wanted to increase the minimum daily usage agreement to match the current usage trend. It was agreed upon to wait until the North Water Plant was online so data could be collected on how two wells connected to Richwood's SCADA system impact Richwood's usage of BWA Water.

BACKGROUND INFORMATION:

In 2021 Richwood suffered a power outage that caused a malfunction in Richwood's SCADA system causing Richwood water pressures to drop dangerously low. After the power outage and pressure loss incident Mercer Controls was called to investigate fail-safe options to prevent this situation from happening again.

Upon researching the situation, it was determined that any fail-safe implement for water production needed to operate autonomously, without influence from the existing SCADA system. A pressure transmitter was installed on the discharge side of the South Water Plant booster pumps that will engage pumps when the sensor detects a given pressure. Since pressures are impacted in a negative way being so far from elevated storage on the south side of town, the current pressure sensor is causing excessive running of the booster pumps at the south water tank, in turn using excessive amounts of BWA water.

It is the ambition of Public Works to pull the pressure sensor from the South Water Plant once the North Water Plant is complete and make necessary adjustments to water levels in elevated storage towers to compensate for any pressure loss.

ISSUE:

The main issue is lack of resiliency within Richwood Scada system. This issue is being dealt with by the addition of generators at the main SCADA panel and at well 5. Once Richwood has backup generated power at key water producing sites, there should be no need for any other force on/force off control implements except for the SCADA systems normal functions.

FISCAL IMPACT:

No fiscal impact.

RECOMMENDATION:

No action necessary.