

City of Washington ARPA Funds Memo

Mach 11, 2022

The City of Washington needs to spend approximately **\$1.0 million** of the \$1.248 million it received from the American Rescue Plan on improvements at its water treatment plants. These proposed improvements are necessary to ensure that the City can reliably supply the 1 MGD demand expected from Project Sunshine, which will create approximately 1,000 jobs in the City of Washington. Some of these improvements are also necessary to meet permit requirements to avoid notices of violation and fines from EPD. Implementation will also improve resiliency and reliability at the City's water treatment plant. We recommend proceeding with the following two (2) projects:

1. Dechlorination System at Skull Shoals and Aonia Water Treatment Plants

As part of the City's treatment permit, EPD requires dechlorinating effluent water from backwashes at both water treatment plants beginning of 2022. The project will include a concrete slab, prefabricated metal building, chemical feed, electrical, HVAC, etc. at each treatment plant.

Est. Construction Costs - \$380,000

Contingencies - \$38,000

Engineering - \$60,500

Total Project Costs - \$478,500

Currently, operators are having to use dechlorination tablets at the water treatment plants to dechlorinate on a temporary basis and this does not work well because the tablets dissolve quickly. Operators have to replace tablets approximately every two hours during backwashes or risk a notice of violation from EPD. The cost of purchasing tablets to dechlorinate is approximately \$49,000 per month or \$588,000 per year, which exceeds the cost of installing a permanent solution. This cost does not include labor to replenish tablets every two hours during backwashes. This project is a requirement on the City's EPD permit and must be done.

2. Aonia Water Treatment Plant Improvements

The Aonia Water Treatment Plant Improvements include installing high service pumps, check valves, surge relief valves, pneumatic valves, and filter consoles. These improvements are necessary to guarantee that the Aonia Water Treatment Plant can produce its permitted flow rate of 2 MGD. An increase in permitted capacity is not required at this time.

Est. Construction Costs - \$1,520,000

Engineering & Contingencies - \$380,000

Total Project Costs - \$1,900,000

While the total cost of these two projects exceeds the \$1 million from the American Rescue Plan, we can tailor the proposed improvements in item #2 to meet the \$1 million budget. It is important to understand that your infrastructure needs are important in order to remain competitive for economic development projects and that their costs exceed current budgets.