



# Town of Johnstown

## TOWN COUNCIL WORKSESSION COMMUNICATION

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**AGENDA DATE:** August 29, 2022

**SUBJECT:** Water Treatment Plant Design and Construction Project

**ATTACHMENTS:** 1. Water Treatment Plant Project Update Presentation

**PRESENTED BY:** Matt LeCerf, Town Manager

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### WORKSESSION ITEM DESCRIPTION:

As directed by the Town Council, Town Staff has been working in coordination with Burns and McDonnell, the Town's Contract and Design Engineer, for design services related to a new Water Treatment Plant (WTP). The design is expected to culminate with the construction of a new WTP with a 12.5 million gallon per day capacity. Also assisting these efforts is BlueWater Engineering, Ltd. who is acting as the Town's Owner Representative (OR) for this project.

One of the more critical items that was expressed by the Town Council specifically on this project has been the desire to address historical taste and odor issues in the water. Taste and odor issues are the result of an increased level of geosmin and MiB in the water. These elements may commonly just be referred to as algae blooms. Ultimately, increased levels impact the taste and odor of the water and historical have resulted in complaints received by residents based on water quality. This was a primary concern of the Town Council to be addressed and mitigated in construction of a new water treatment plant. The other issue necessitating the need for a new WTP has been the demand on the water system. This situation relates to the Town's current demand, which is currently at or near capacity based on the seasonal variances that occur; especially during summer irrigation season. In order to meet this current demand and the future demand, an increase in the WTP capacity is necessary to meet these demands but it will also facilitate future demands as well.

Town staff has requested the assistance of Burns and McDonnell to provide a presentation that assesses and provides clarity on the selection process. Three options are being presented tonight in terms of treatment processes:

- An Ozone Bio-Activated Filtration (BAF) System.

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- A Granular Activated Carbon (GAC) Filtration System with planned ozone installation in the future; or
- A Membrane Filtration and GAC Contactors.

The additional reasoning in the presentation is due to the fluctuations in costs, additional learned information regarding technology processes and their reliability, and to keep the Council apprised of the process in this project. While staff does have a recommendation on the treatment process, we also feel that is imperative to gain feedback and support from Town Council as we continue to progress forward in this design. Staff looks forward to a productive dialogue following the presentation by Burns and McDonnell.

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*Reviewed and Approved for Presentation,*



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Town Manager

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