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P.O. Box 61324  
Reno, NV 89506

Please enter my comment and these documents into the record pursuant to NRS 241.

My name is Scott Finley.

I am a resident of Washoe County and have a military background in the United States Air Force.

The Northern Nevada Public Health Board must reject the recommendation to approve a letter of support for the OneWater Nevada Advanced Purified Water Facility at American Flat.

None of the water produced at the Advanced Purified Water Facility should be injected into our local aquifer for storage. While underground aquifer storage has added benefits from reservoir storage in that it does not suffer from evaporation, this creates an inherent vulnerability.

In November of 2023, I voiced concerns at a OneWater Nevada meeting. If you look at the before and after diagrams, a new polishing step titled **PFAS Absorption** was added. If you talk to the scientists and engineers overseeing this project, they will tell you that known hazards to human health are constantly being monitored. How do you monitor for unknown hazards to human health? You can't. PFAS used to be an unknown hazard to human health, yet now we know it is highly hazardous. What future hazards to human health will we discover?

Even assuming that unknown hazards to human health are not present in the water being filtered, the active monitoring can still fail. If you again look at the before and after diagrams, the **Polishing Facility** has been removed. It can be safely assumed that the monitors actively measuring the purity of the water will be connected to the Internet for remote access and monitoring, which would mean that the Advanced Purified Water Facility, the Reno Stead Water Reclamation Facility, or even the Polishing Facility are vulnerable to being hacked by foreign adversaries.

If the Reno Stead Water Reclamation Facility were hacked and unfiltered bromide reached the Advanced Purified Water Facility, exposure to ozone would result in bromate, which is highly carcinogenic. If the Polishing Facility were hacked, critical monitoring for things like pharmaceuticals and PFAS could fail. What all these scenarios have in common is that when, not if, a failure occurs, then contaminants hazardous to human health will be injected into our local aquifer, effectively destroying it.

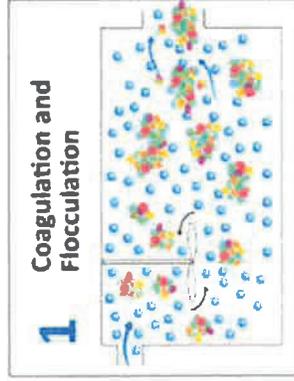
The modifications in these diagrams imply that there is a mentality of making it up as you go and fake it until you make it, which is woefully unacceptable. What else I find unacceptable is that roughly over 6 months ago, it was stated that this project will cost roughly 125 million dollars yet Slide 10 states that it will cost over 220 million dollars. At this rate, it will cost over a billion dollars by the time this project is finished.

Do not approve a letter of support for the OneWater Nevada Advanced Purified Water Facility at American Flat.

Thank you!

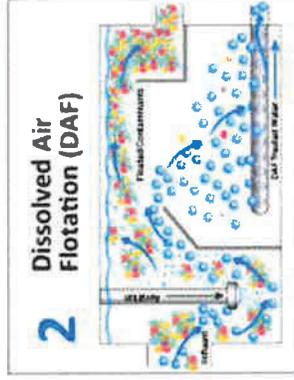
# A+ Advanced Purified Water Treatment Steps

## Reno Stead Enhancements



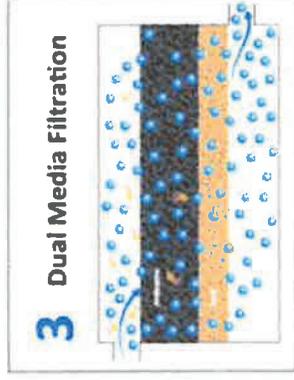
**1** Coagulation and Flocculation

Safe, chemical coagulants are added, causing particles to stick together (floc) and form larger particles, which are more easily removed by subsequent treatment steps.



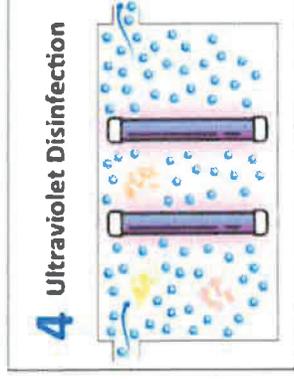
**2** Dissolved Air Flotation (DAF)

DAF systems introduce micron-sized bubbles that attach to the floc and rise to the surface. This floating bed of particles is removed by a skimmer.



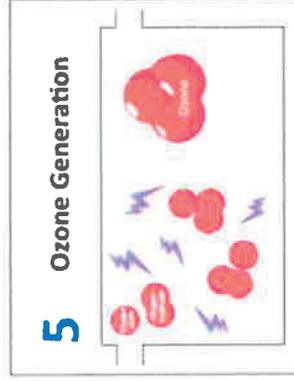
**3** Dual Media Filtration

Dual media filtration removes small solids and pathogens.



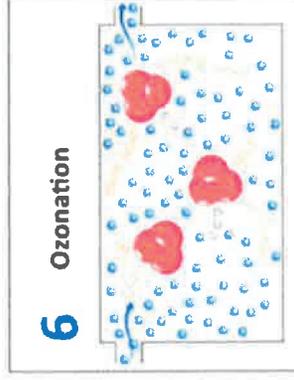
**4** Ultraviolet Disinfection

High-intensity ultraviolet light kills most pathogens and viruses.



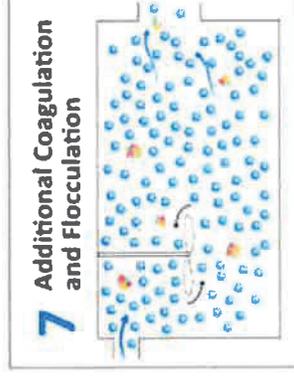
**5** Ozone Generation

Because of its short life, ozone is generated on-site. Oxygen atoms and molecules are bonded using an electric field to create ozone.



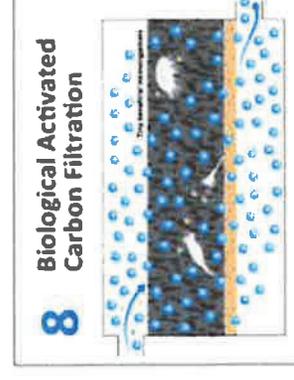
**6** Ozonation

Ozone is a powerful oxidant used to break down organic constituents into smaller, more readily biodegradable molecules.



**7** Additional Coagulation and Flocculation

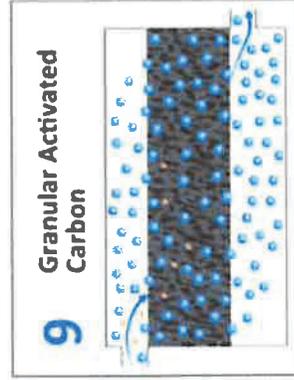
Coagulants are again added to the water, causing impurities to stick together for easier removal (see step 1).



**8** Biological Activated Carbon Filtration

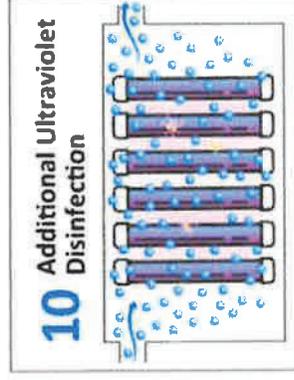
Microbiologic organisms and carbon adsorption aid in the biodegradation and removal of dissolved organic constituents.

## Polishing Steps Before Groundwater Injection



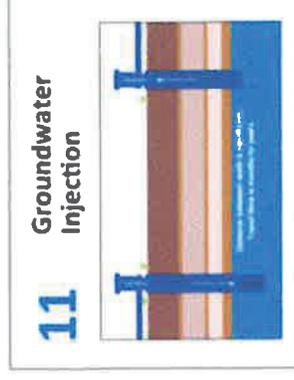
**9** Granular Activated Carbon

Polishing step for further removal of trace amounts of dissolved organic constituents, such as pharmaceuticals, PFAS, and disinfection byproducts.



**10** Additional Ultraviolet Disinfection

High-intensity ultraviolet light kills any remaining pathogens and viruses.

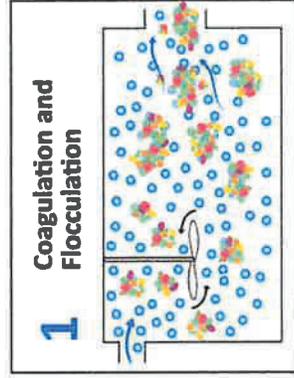


**11** Groundwater Injection

Finished, treated water is injected into the groundwater aquifer, where further natural treatment occurs before extraction.

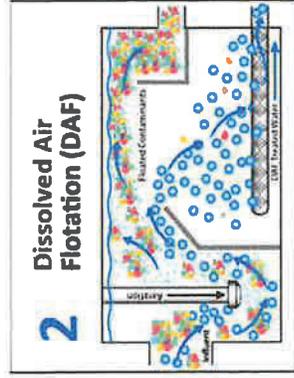
# A+ Advanced Purified Water Treatment Steps

## Reno-Stead Water Reclamation Facility Enhancements



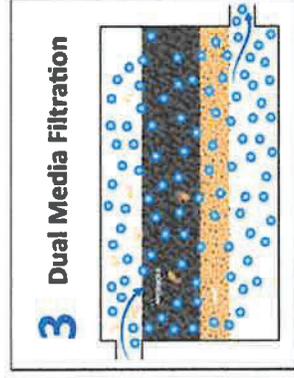
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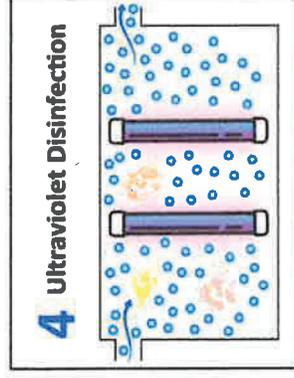
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**3** Dual Media Filtration

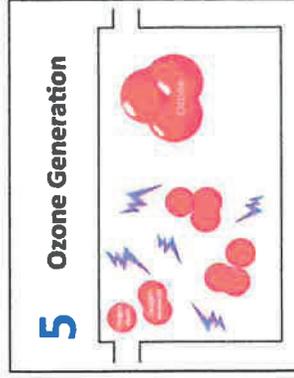
Dual media filtration removes small solids and pathogens.



**4** Ultraviolet Disinfection

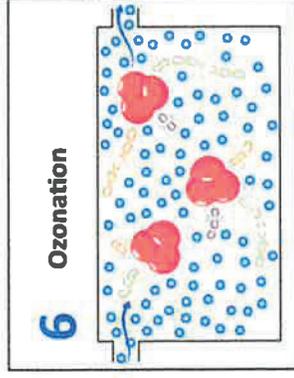
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## Advanced Purified Water Facility



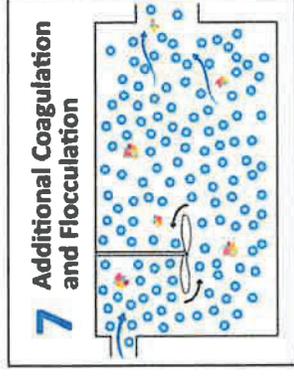
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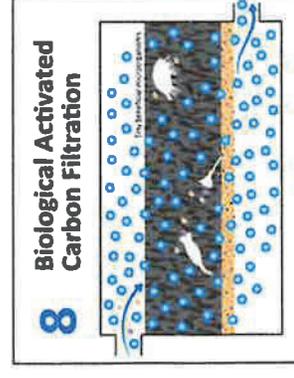
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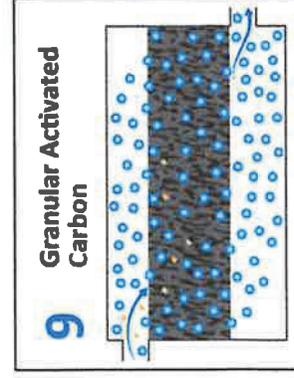
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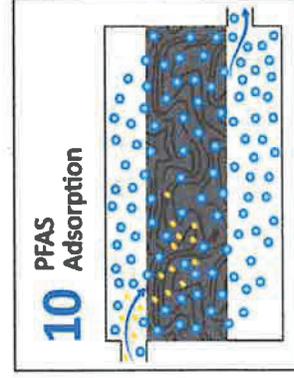
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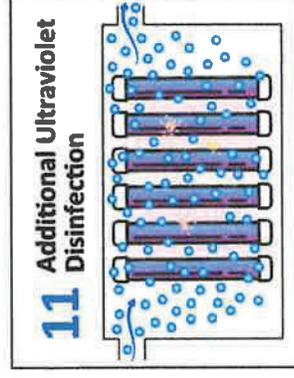
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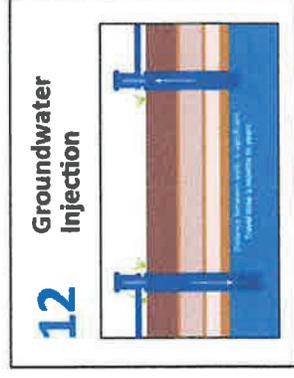
**10** PFAS Adsorption

Additional polishing step that targets per- and polyfluoroalkyl substances (PFAS) removal.



**11** Additional Ultraviolet Disinfection

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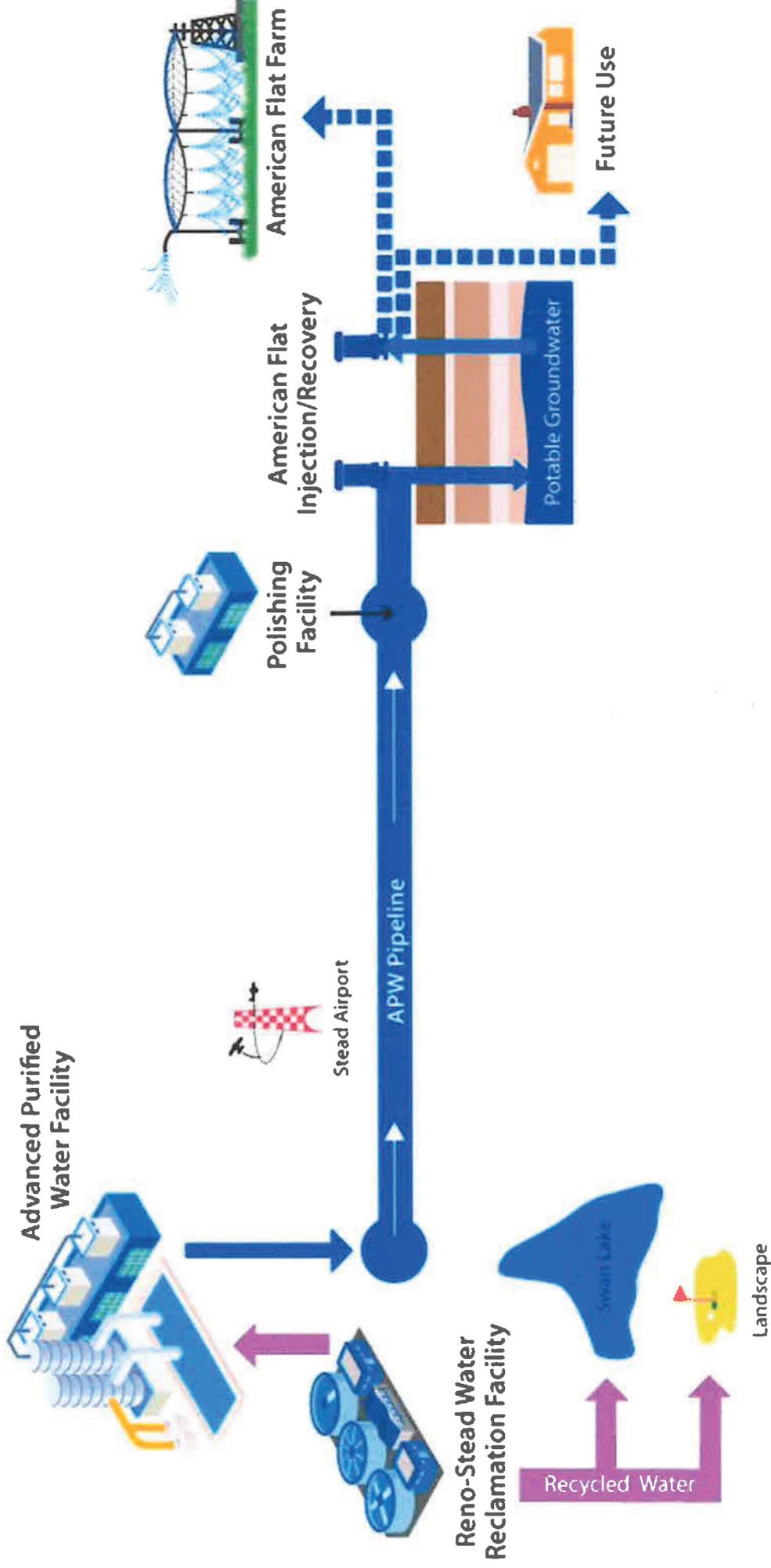


**12** Groundwater Injection

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## Polishing Steps Before Groundwater Injection

# How the Advanced Purified Water System Works



# How the Advanced Purified Water System Works

