

ALPOA presentation

# Kokopelli Racetrack Property Plans

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Alto Lakes Water &  
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# We will cover

- The water resource benefits of the water treatment project that will use the property.
- The potential recreational uses that may share the property.
- Where we are now and what is planned.



The land was acquired to improve our water quality and conserve water.

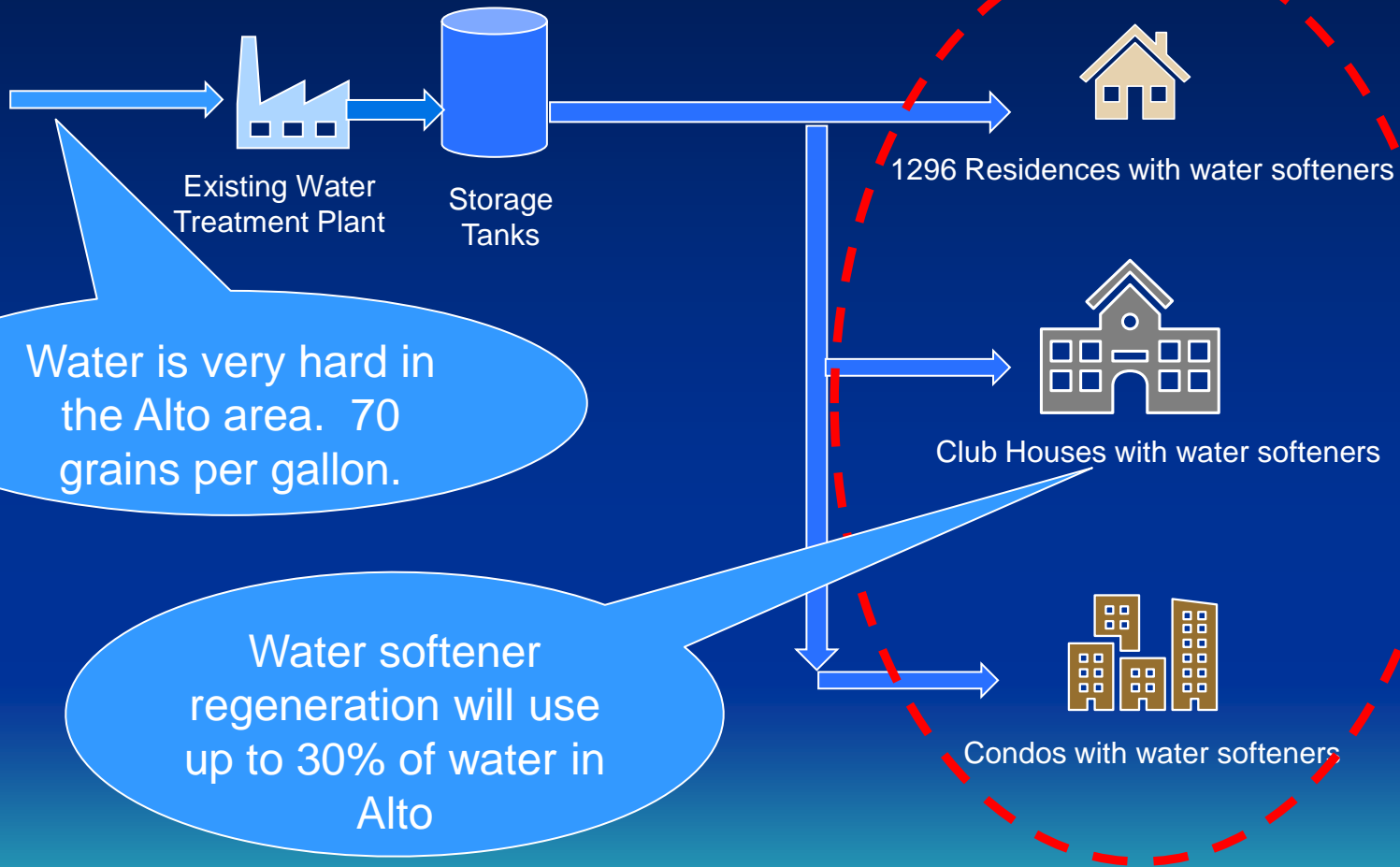
- Ground water in the Alto area is very high in dissolved solids (salts).
- The only way to significantly improve the water quality is by desalting water.
- The desalting process creates a small stream of high salinity brine which must be further concentrated in evaporation ponds.



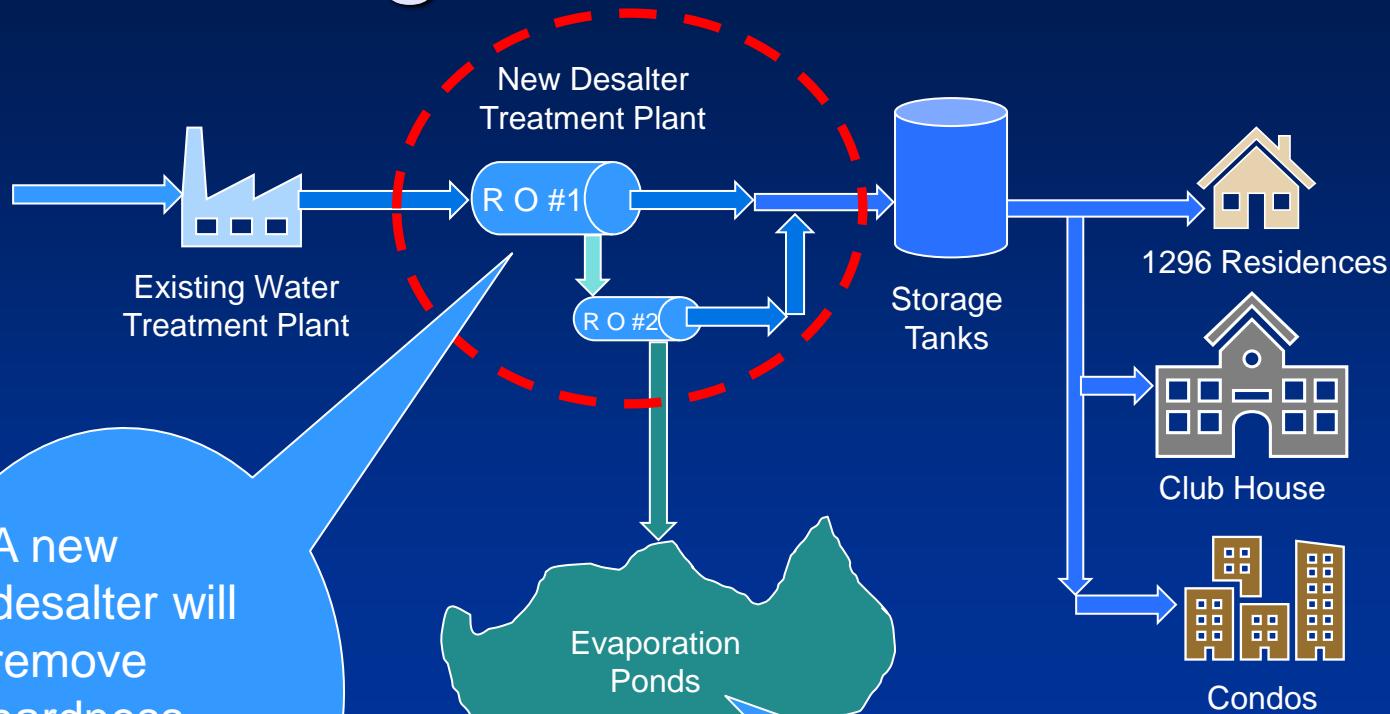
# Water Resource Benefits are:

- Providing a high quality, soft water to customers.
- Eliminating softener salt expenses
- Eliminating discharges of salt water to the septic drain fields.
- Extending the life of your water heaters and plumbing fixtures as well as the life of the District's distribution piping.
- Reducing the total ground water pumped.

# Existing Water Treatment Plant



# Desalting Water Treatment Plant



A new desalter will remove hardness and other mineral salts

Evaporation ponds are required to concentrate the salts removed

Saves 20% of water

# Desalting can cost less

- Desalting treatment plant will save typical residence about \$25 per month by reducing softener salt cost.
- Total water purchased will be reduced by 15 to 20% since softener regeneration water will be minimized.
- There will be some offset in savings due to the increased cost of water due to desalting.



# Desalting Reduces Groundwater Pumping

- Eliminating the need for water softeners will save about 25% of potable water consumption
- Desalting process will consume from 5 to 10% of water treated
- Net savings is 15 to 20%



# Recreational and Community Enhancement Possibilities

- It is the intent that the evaporation ponds be constructed in a park-like configuration.
- Features around the pond may include:
  - Walking trails.
  - Pavilion for group gatherings.
  - Dog park.
  - Storage buildings for golf course equipment.
  - Other community uses that may be identified.



# Conceptual Plan from 2018

## High Mesa Drive Property Concept Plan

Zoom in (Ctrl+Plus)



Alto, NM December 2018

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# Current status of planning

- The District has awarded a contract for the Preliminary Engineering Plan and is now negotiating the scope of the project.
- It is anticipated that the planning will take 6 to 9 months.
- During this time representatives from ALPOA, ALGCC and others will be requested to assist with non-treatment aspects of the land planning.



# When will the project be complete?

- After the Preliminary Engineering Plan (PER) is complete, funding for the project will need to be arranged. The timing on the funding is very difficult to predict and will include grants, loans and contributions from many programs/sources.
- Design, Construction and Startup can be done in about 2 years.
- The PER will recommend several other projects to replace old and undersized distribution piping that will be done over the next 5 to 10 years.