



Blue Diamond Water System

December 1, 2020

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OVERVIEW

- The LVVWD has been evaluating recent requests for water commitments within the Blue Diamond Water System
- Due to continued drought and climate change, water levels in Blue Diamond will not be able to sustain future water commitments
- Action is needed to be able to maintain reliable service for existing customers

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BACKGROUND

- Two wells (JHN and JHS) are owned by CertainTeed Gypsum Manufacturing, Inc. (CertainTeed) and supply both the mine and the village of Blue Diamond
- Wells are both maintained and operated by LVVWD and CertainTeed per an agreement signed in 1994
- The Blue Diamond Village is allocated 150 acre-feet per year (afy) of groundwater and utilizes approximately 110 afy
- CertainTeed owns 549 afy and utilizes between 166-267 afy

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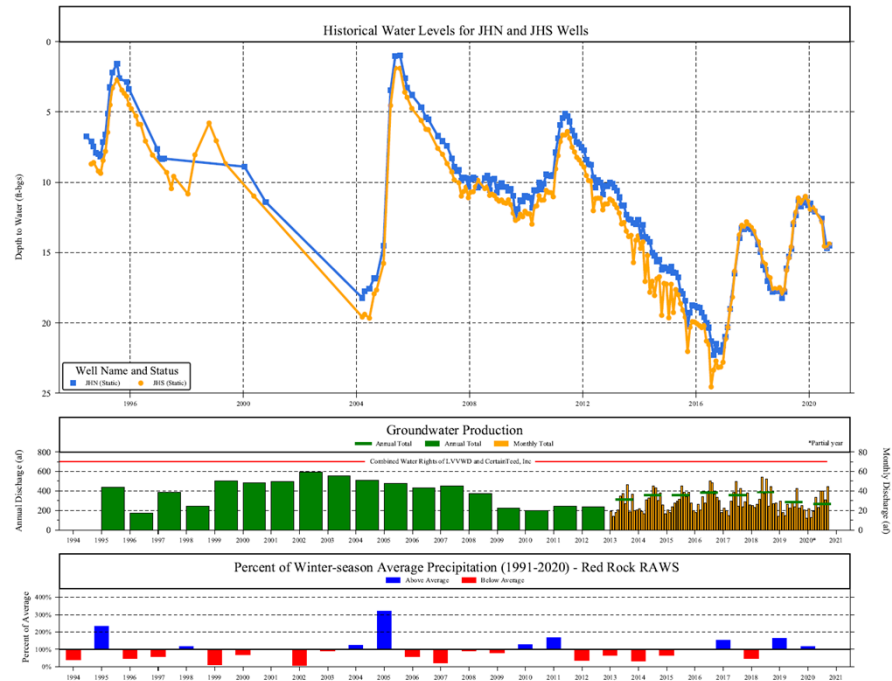
HYDROLOGY

- Blue Diamond's hydrologic conditions are influenced by precipitation in the Spring Mountains
- Water levels are extremely sensitive to drought and climate change which impact precipitation



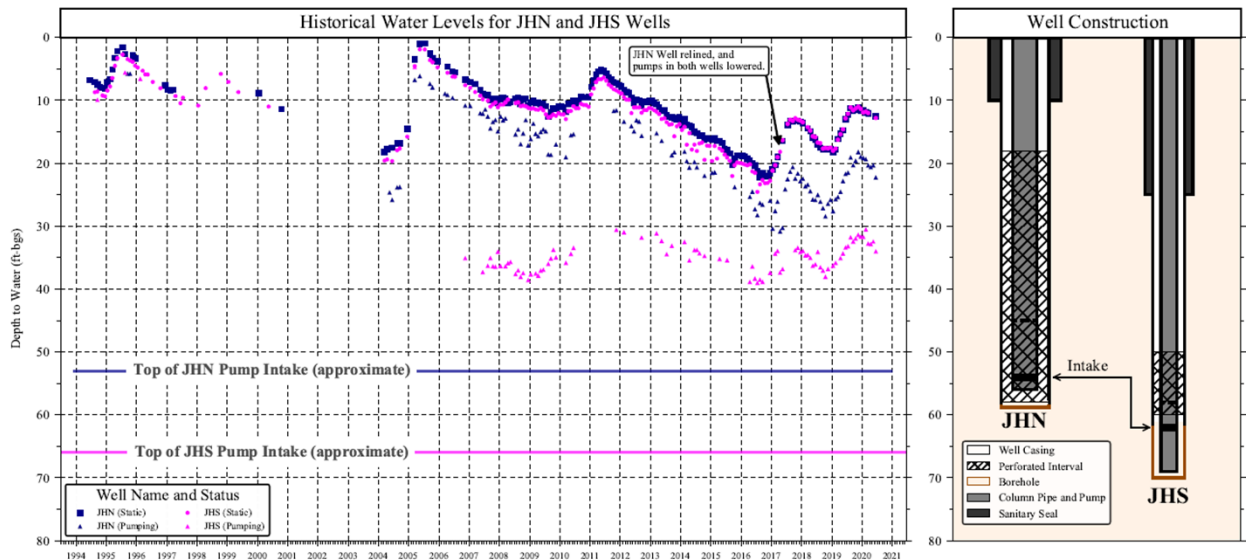
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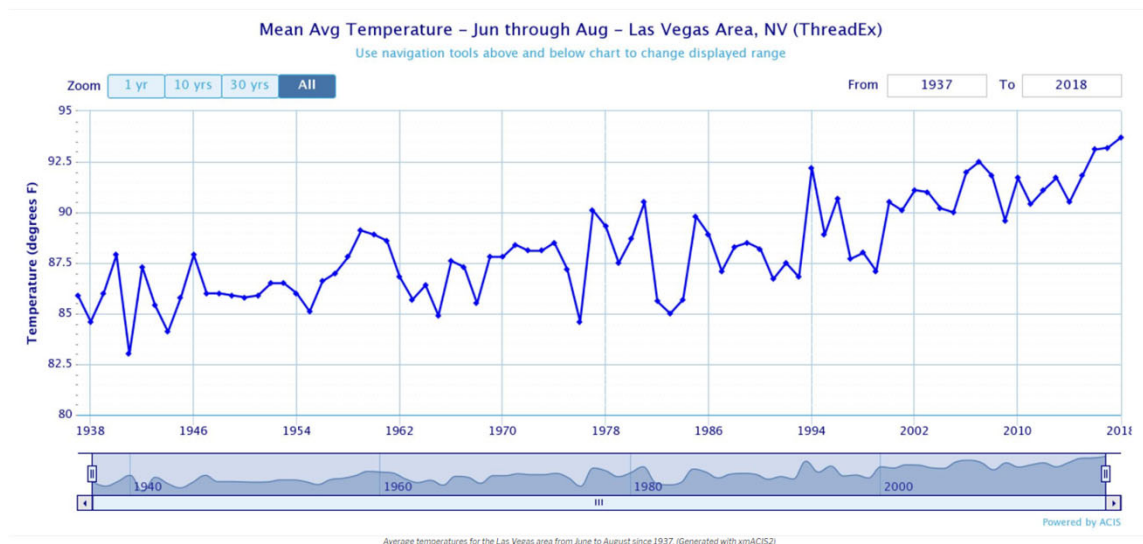
HYDROLOGY

Upgrades to the current wells or drilling a new well will not solve the problem.

- The LVVWD has evaluated the benefits of drilling another well in the area
- Exploratory program was implemented in the 1990s to evaluate groundwater conditions in the area and analyze the viability of drilling another well
- BD-1 was a well that was constructed but not equipped due to low yield and poor water quality
- Due to the physical limitations of the aquifer, the optimal location for a new well would be near the existing well site

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TEMPERATURE



Source: *The Nevada Independent*

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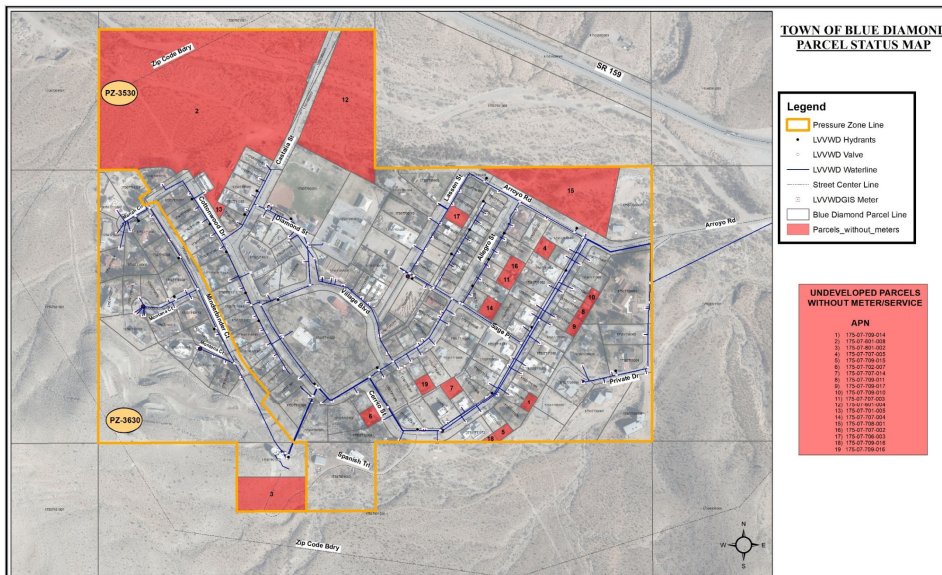
TEMPORARY MORATORIUM

Additional water commitments may impair the District's ability to maintain service.

- Will apply to parcels that are undeveloped without meter/service
- Will apply to existing services who request an increase in meter size
- Will apply to the use of construction water
- In effect until the system is no longer threatened by additional water commitments or an alternative supply of water is available
- Staff will continue to provide updates on water levels to the community on a regular basis

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TEMPORARY MORATORIUM



- Vacant parcels that would be impacted by the moratorium
- Parcels that would be impacted currently have no water commitments
- Additional parcels may be impacted if they request to increase the size of their existing meter

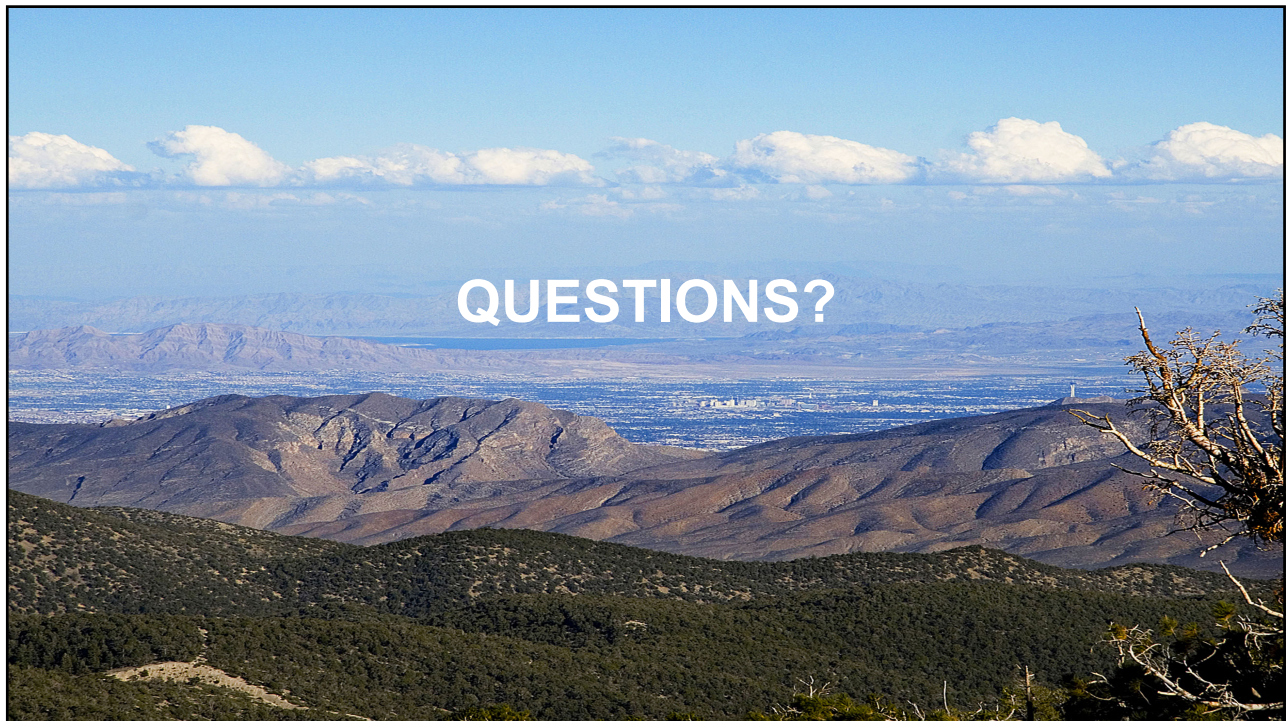
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FUTURE SYSTEM IMPROVEMENTS

- Spearheading infrastructure upgrades to existing system
- Critical upgrades include fire protection and emergency storage requirements
- Coordinating with federal and state agencies to receive grants
- Discussion on rates and conservation-based approaches will be discussed with the community



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