

Water Resources Management Strategy 2017 Update

ABCWUA BOARD MEETING MARCH 23, 2016

Purpose of this Presentation

- Review the 2007 WRMS
- Review the 2017 WRMS update process
- Review public input
- Evaluate current and projected supply and demand
- Identify potential future gaps in supply
- Show how those gaps can be filled
- Engage in dialogue with the Board about the recommended planning scenario



The 2007 WRMS





2015 actual demand ~95,000 ac-ft

2017 WRMS Update Process



2016



2015

Initial Public Feedback was Positive



The 2017 WRMS Builds Upon the 2007 Strategy



- 2007 Strategy policies implemented/projects complete
- New technical information is available the aquifer is rising, climate change, etc.
- Consider a 100-year planning horizon
- Strategy will be updated every 10 years if new information becomes available

Road Map for the Process Albuquerque Bernalillo County Water Utility Authority Framework for the Future Groundwater Demand Supply Reserve **Public Input** Portfolios Status Gaps **Alternatives Economics** Complete To Do New 2017 Board Policies Adoption Strategy

Range of Projected Demand





Range of Projected Supply





- Medium Projected Supply
 based on simulated central
 tendency climate change
 - Low Projected Supply based on simulated hot/dry climate change



Groundwater Reserve

 Manage the Groundwater
 Reserve around
 the Management
 Level





2007 WRMS "Triangle" Extended to 2120





Current Projected Supply Need

- Medium demand
- Medium supply (central tendency climate change)





Hydrologic Variability is Considered

- The "triangle" is a schematic representation of supply need
- We will use it for comparative purposes



Range of Projected Supply Need: Medium Demand





Range of Projected Supply Need: *High Demand*

	Supply			
1	High Low	High Medium	High High	
q	Medium Low	Medium Medium	Medium High	
Deman	Low Low	Low Medium	Low High	I



Range of Projected Supply Need: Low Demand

	Supply			
1	High Low	High Medium	High High	
T	Medium Low	Medium Medium	Medium High	
Deman	Low Low	Low Medium	Low High	



Range of Projected Supply Need

 Includes the entire range of demand and supply scenarios

	Supply		
Î	High	High	High
	Low	Medium	High
σ	Medium	Medium	Medium
	Low	Medium	High
Deman	Low	Low	Low
	Low	Medium	High



The Path Forward

- Based on the best available historical data, Medium Demand is reasonable
- Based on the best available science, Medium Supply is reasonable
- This is a balanced approach
- Our adaptive management process allows us to be flexible in the future



New 2017

Strategy

Policies

Board

Adoption

Demand

The Path Forward

- This approach manages risk, and is protective of the ratepayers
- It is consistent with existing permits and supplies
- Choosing other demand/supply scenarios has consequences
- We will continue to consider the whole range, and provide choices
- We have time for planning



	Supply		
Demand	High Low	High Medium	High High
	Medium Low	Medium Medium	Medium High
	Low Low	Low Medium	Low High

What's Next?

- Evaluate alternatives' ability to meet potential future supply gaps
- Economic analysis of alternatives
- Evaluate projects and infrastructure needed
- Four Customer Conversations in June
- Town Hall in July

