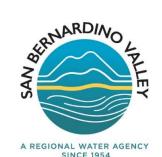
### Bunker Hill B Regional Recycled Water Salinity Management Feasibility Study

Basin Monitoring Program Task Force March 24, 2025















## Coalition Overview and Drivers



Trussell

MUSC

# Bunker Hill B Regional Recycled Water Coalition

- Began meeting in May 2022 to collaborate on salinity management for recycled water recharge
- ✓ In March 2023, Coalition executed MOU and Cost
  Share Agreement for planning phase
- ✓ In February 2025, the Coalition issued the draft Feasibility Study for review by local stakeholders



### **SNRC Permit and Coalition Commitments**



Sterling Natural Resource Center Waste Discharge Requirements

Agency: East Valley Water District

Consultant Support for Permitting: Rincon Consultants

Special Provision VIII (G): Mitigation to Prevent Cumulative Impacts to the Assimilative Capacity of Bunker Hill-B GMZ. Coalition shall:

- Feasibility Study scope by January 2024
- Feasibility Study by June 2025
- Salt Mitigation Implementation Plan by December 2025
- Initiate design of TDS strategy by December 2027
- Initiate construction of TDS strategy by December 2031

#### Bunker Hill Basin Regional Recycled Water Coalition

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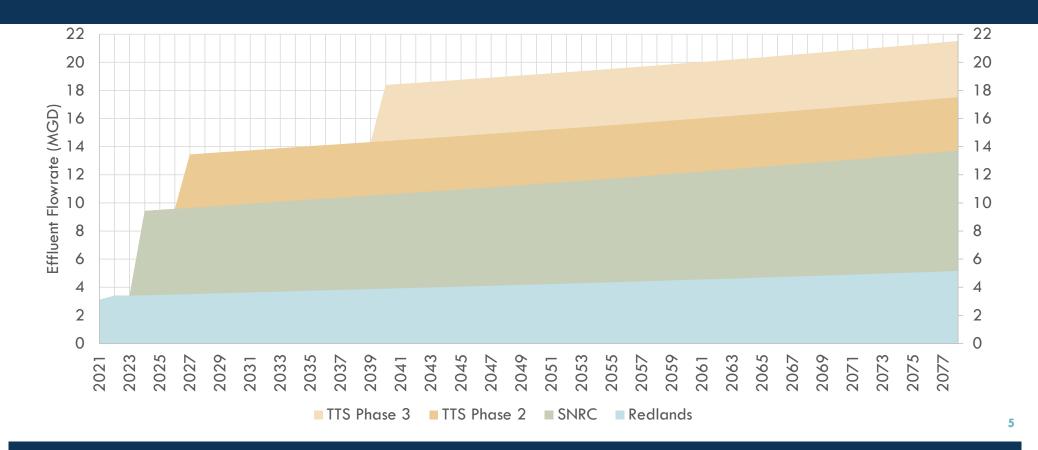
**Agencies:** San Bernardino Valley, East Valley Water District, City of Redlands, San Bernardino Municipal Water Department

Consultant Support for Program Management and Implementation Plan: Rincon Consultants

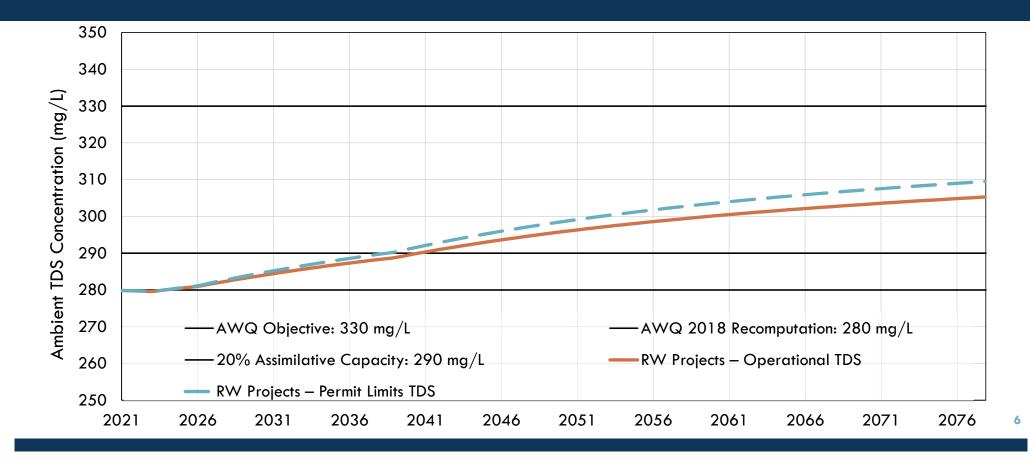
Consultant for Bunker Hill Basin Regional Recycled Water Salinity Management Feasibility Study: WSC, Trussell Technologies Alternatives process is considering:

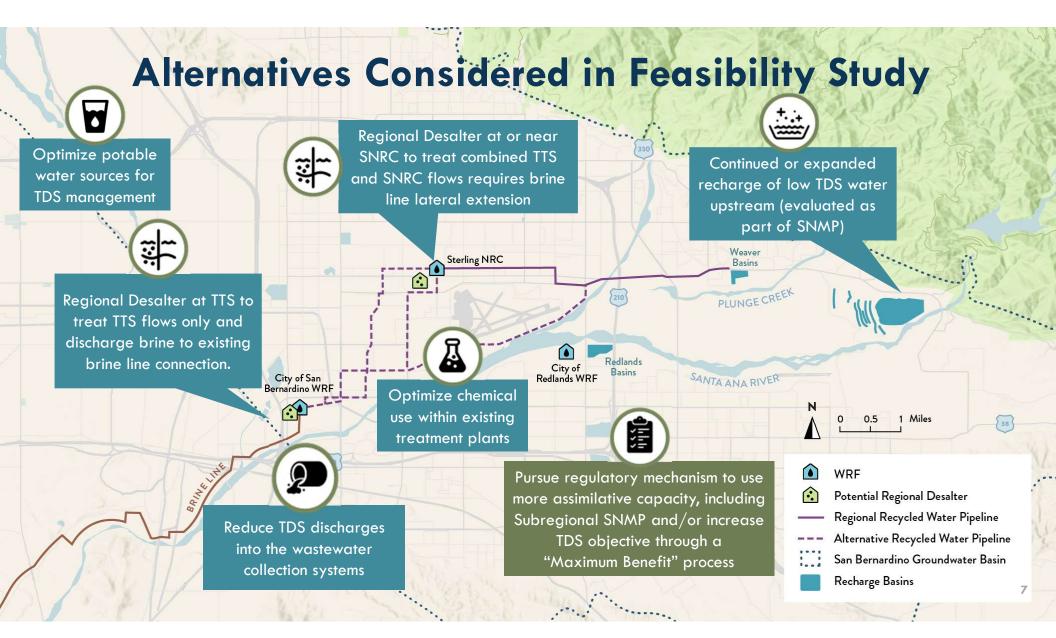
- 3 near-term regional desalter alternatives
- Subregional SNMP alternative (future desalter + near term commitments)

#### Total Projected Recycled Water Discharge to Bunker Hill B GMZ



### Projected Ambient Total Dissolved Solids (TDS) Concentration in Bunker Hill B GMZ







### Preferred Desalter Alternative (Report Section 6.1)



Desalter Scenario 2 SNRC Recharge Redlands Disposal SBMWD TTS Phase 2 Recharge

> Alternative 2B Desalter at TTS

- TTS was identified as the preferred location for a Regional Desalter
- Lower capital and unit cost relative to Regional Desalter at SNRC
- Existing brine line connection at SBWRP, does not require brine lateral
- Fewer community impacts
- Larger footprint available for construction and future expansion (if needed)
- Class 5 total capital cost: \$31,720,000







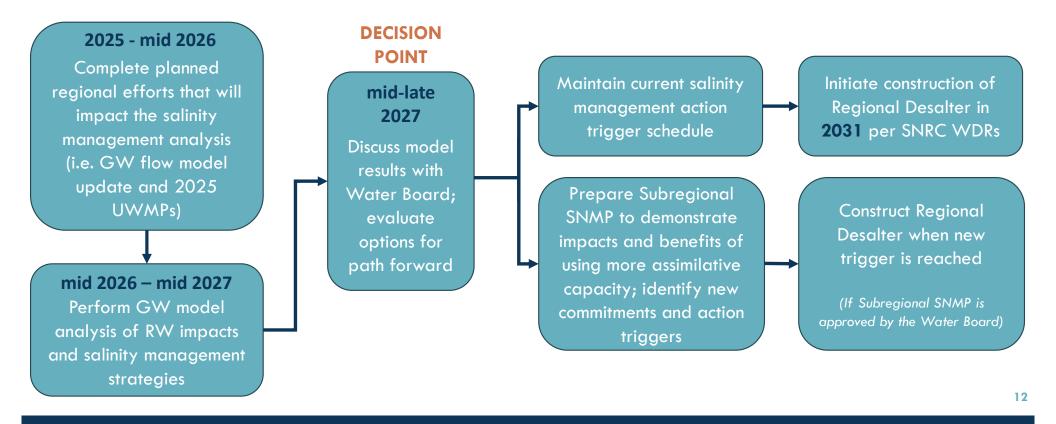
# **Proposed Path Forward**



### Background for Proposed Path Forward (Report Section 6.2)

- Cumulative Antidegradation Analysis spreadsheet tool was the basis for establishing the Coalition MOU and SNRC Permit commitments
- Since the Cumulative Antidegradation Analysis was developed, additional information has been or will soon be developed to inform salinity management strategies
- Recommend completing near-term activities on next slide to gather additional information, then updating the groundwater model analysis through the Upper Santa Ana SNMP Workgroup prior to implementing the selected salinity management strategies

### Proposed Path Forward (Report Section 6.2)



#### Anticipated Requirements to Support Additional Assimilative Capacity Request (Subject to WB Approval)

- 1. Protect beneficial uses of the receiving groundwater body.
- 2. Maintain water quality consistent with maximum benefit to the people of the State.
- 3. Consider need to use recycled water, economics, need to develop housing.
- 4. \*Implement projects to manage salinity ("commitments"), such as:
  - 1. Regional desalter
  - 2. Groundwater monitoring program expansion
  - 3. Low-TDS recharge program expansion

\*Access to additional assimilative capacity is withdrawn/lost if not implemented to WB's satisfaction

- 5. Document analysis in a Subregional SNMP
- 6. Possible Basin Plan Amendment to reflect the decision to grant additional assimilative capacity, if approved by the Water Board

#### Link to Draft Feasibility Study:

https://rinconconsultants.files.com/f/0ac5664ca6edfcd0

### Feasibility Study Review

Please send comments to

Rosalyn Prickett (rprickett@rinconconsultants.com)

by April 16, 2025.





EAS'



# Thank you!

