



Presentation and
Discussion Item 5

LOCAL GROUNDWATER SUPPLY IMPROVEMENT PROJECT UPDATE

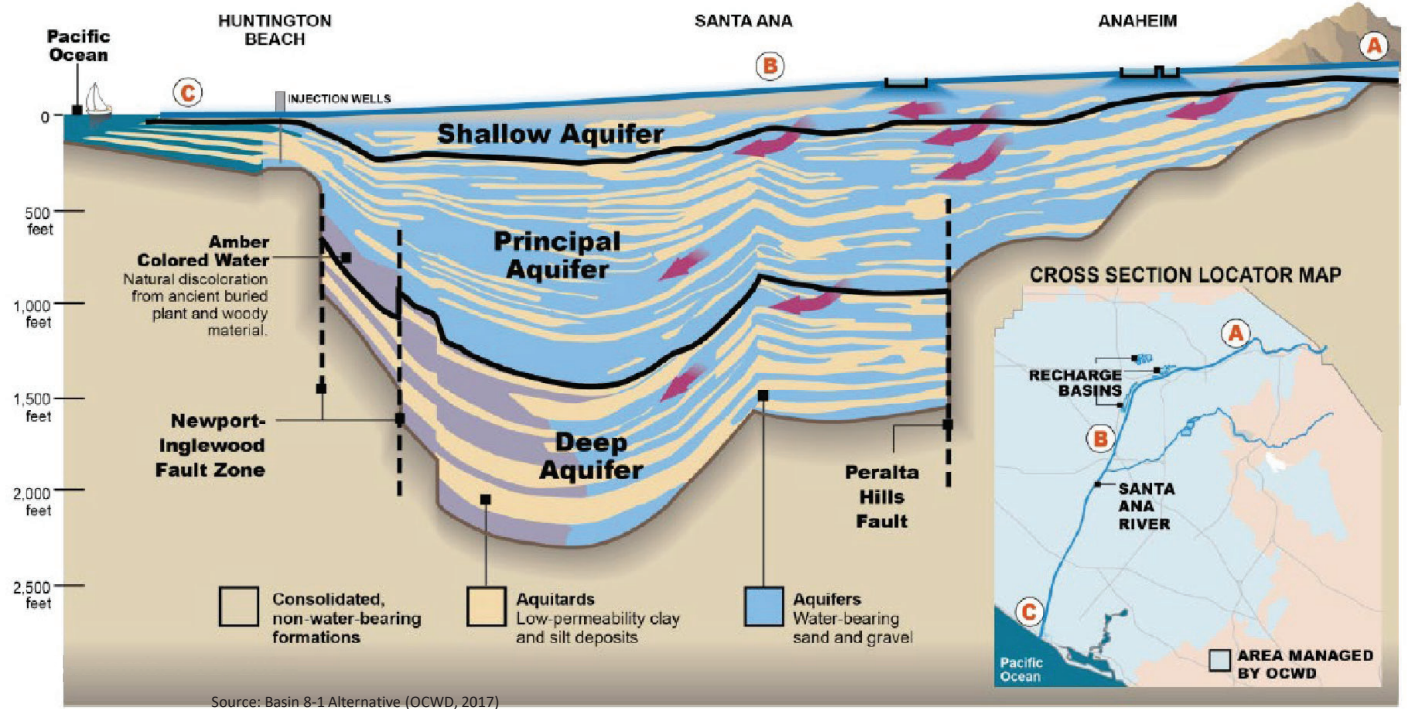


September 11, 2024

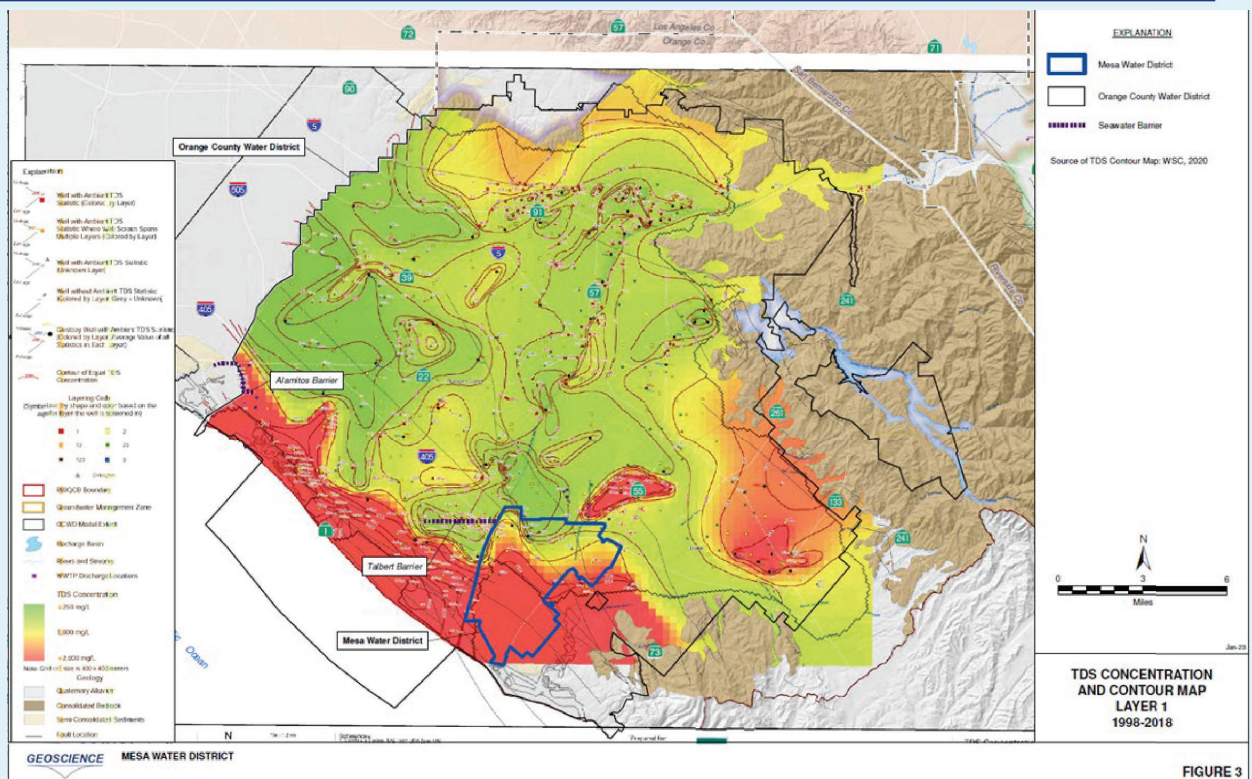
Potential Source Locations

- On the Mesa
- Newport Bay
- Ocean side of the Talbert Barrier

Santa Ana River Cross Section



TDS Contour Map - Layer 1



Grant Funding and Project Partners

- Participating Agencies



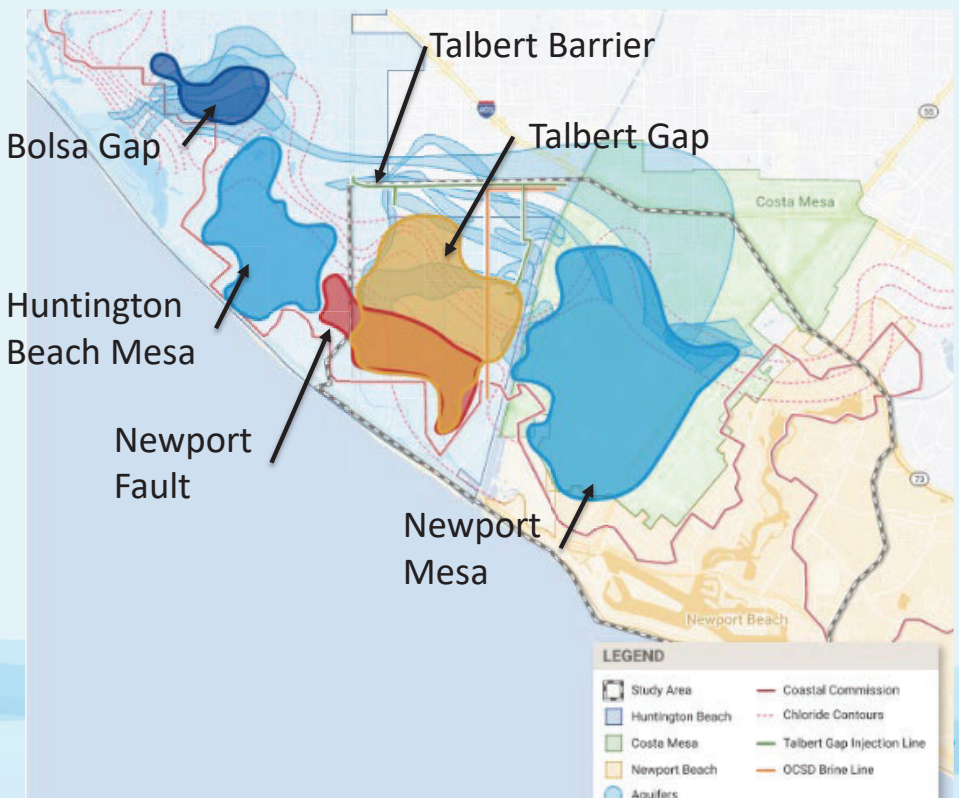
- U.S. Bureau of Reclamation (USBR) WaterSMART Grant

- Pre-Award Notice: September 2023

5 | September 11, 2024



Project Update



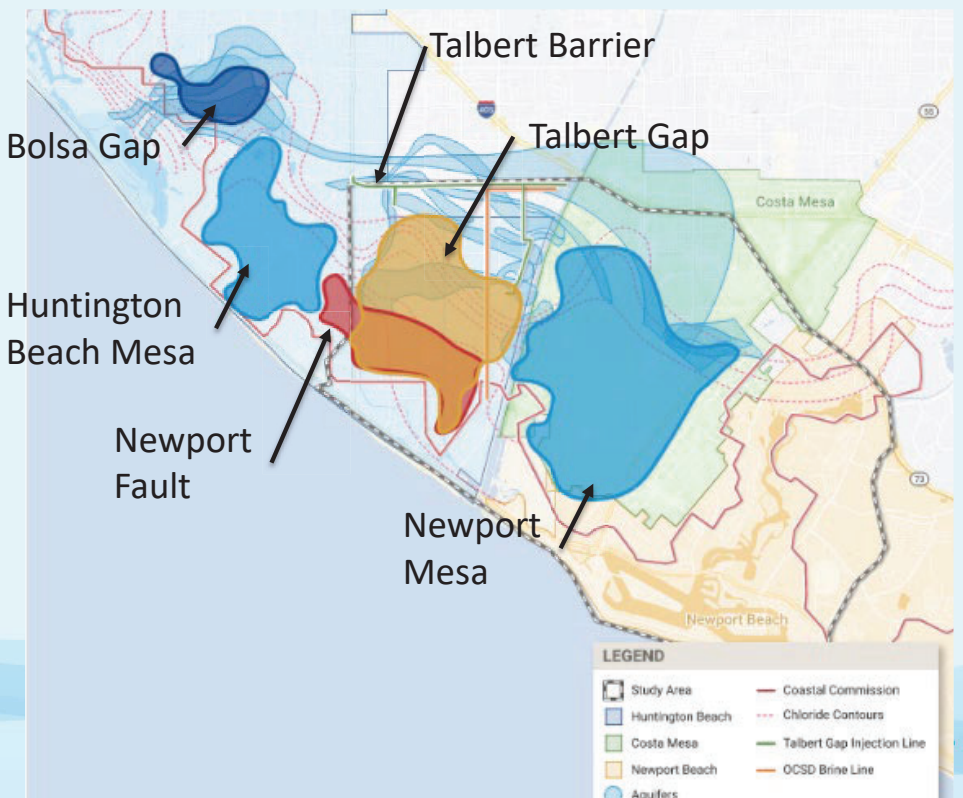
6 | September 11, 2024

Project Update

Area	Transmissive?	Source?	Impact to Talbert?	Chloride?	Good Location?	Model it?
Bolsa	Moderate	Poor	None	Low	No	No
Mesas	High	Fair	Moderate	Moderate	Maybe	Yes <input checked="" type="checkbox"/>
Talbert Gap (Inland)	High	Good	High	Moderate	No	No
Talbert Gap (Seaward)	High	Good	Moderate	High	Yes	Yes <input checked="" type="checkbox"/>
Newport Fault	Low	Poor	None	Very High	No	No



Project Update



Next Steps

- Prepare Modeling
 - Review model calibration
 - Add chloride transport function to model to represent seawater intrusion
- Begin Modeling Scenarios
 - Place wells in different locations at different depths

No.	Potential Meeting Topics
1	Groundwater Modeling Approach
2	Present Proposed Wellfield Locations
3	Modeling Task Update
4	Present Proposed Wellfield Location, Estimated Flow, and WQ
5	Present Treatment Alternatives
6	Present Alternatives
7	Present Proposed Alternative and Cost Evaluation
8	Present Economic Analysis
9	Present Proposed Project

QUESTIONS?