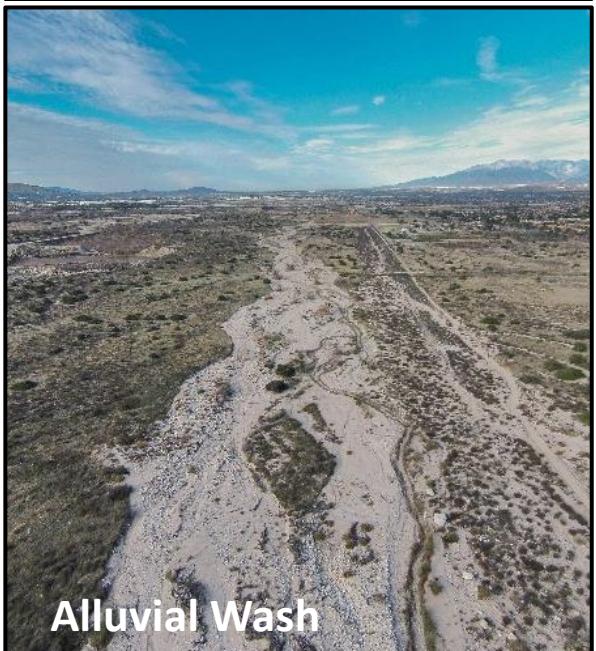
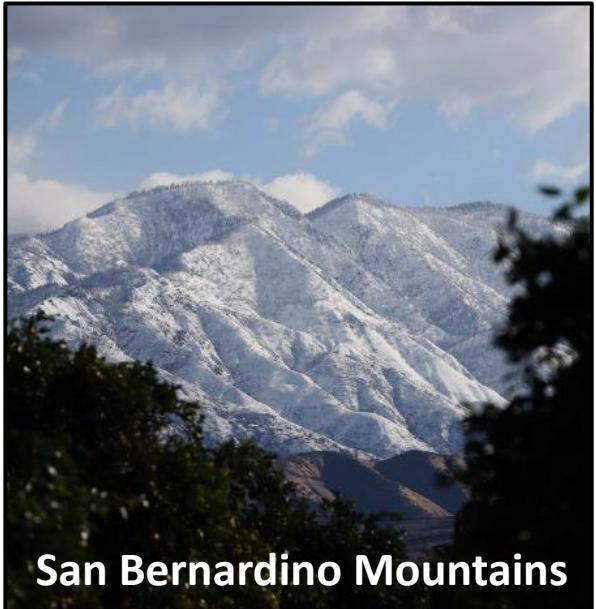
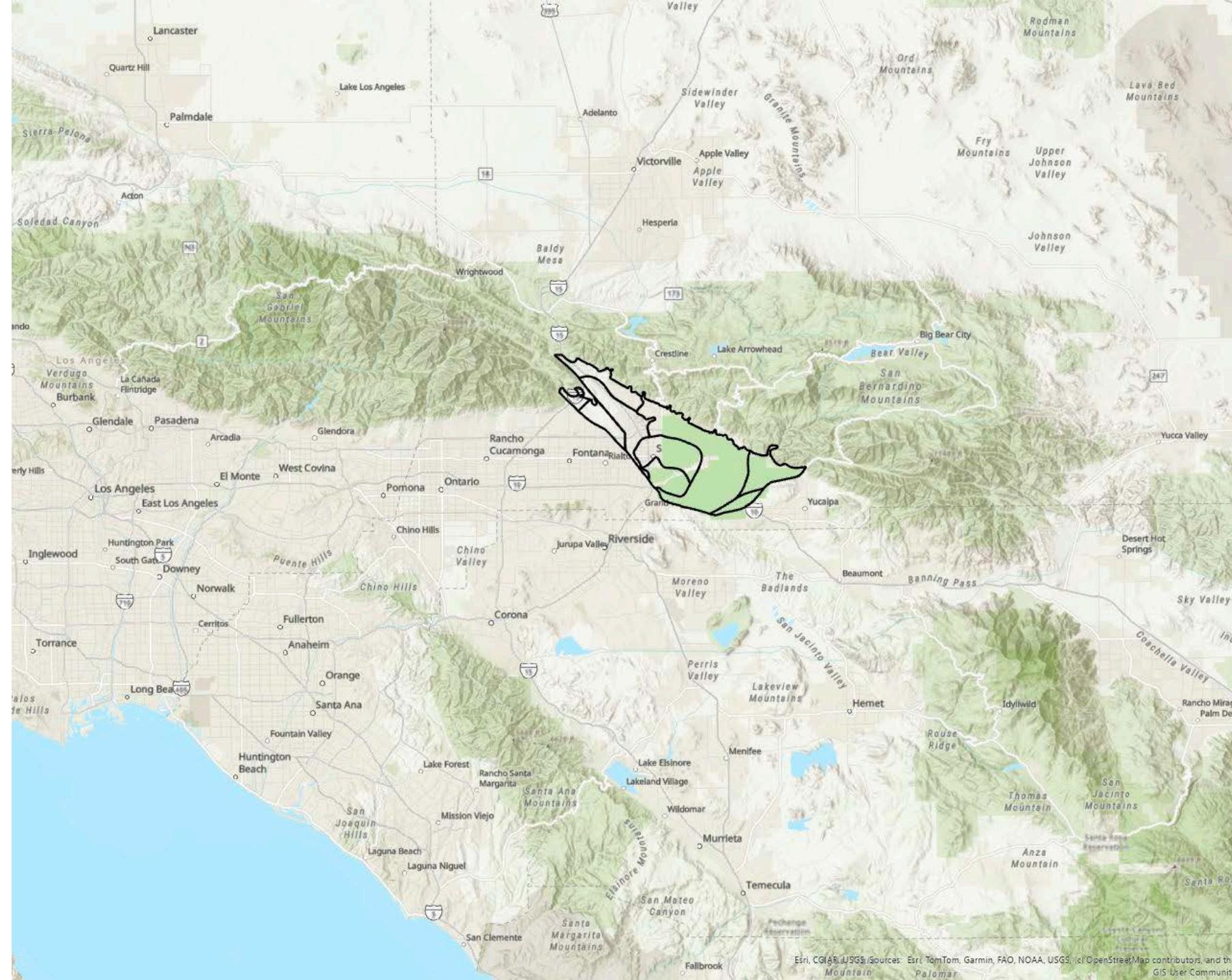


BUNKER HILL GROUNDWATER BASIN: A CENTURY OF STEWARDSHIP

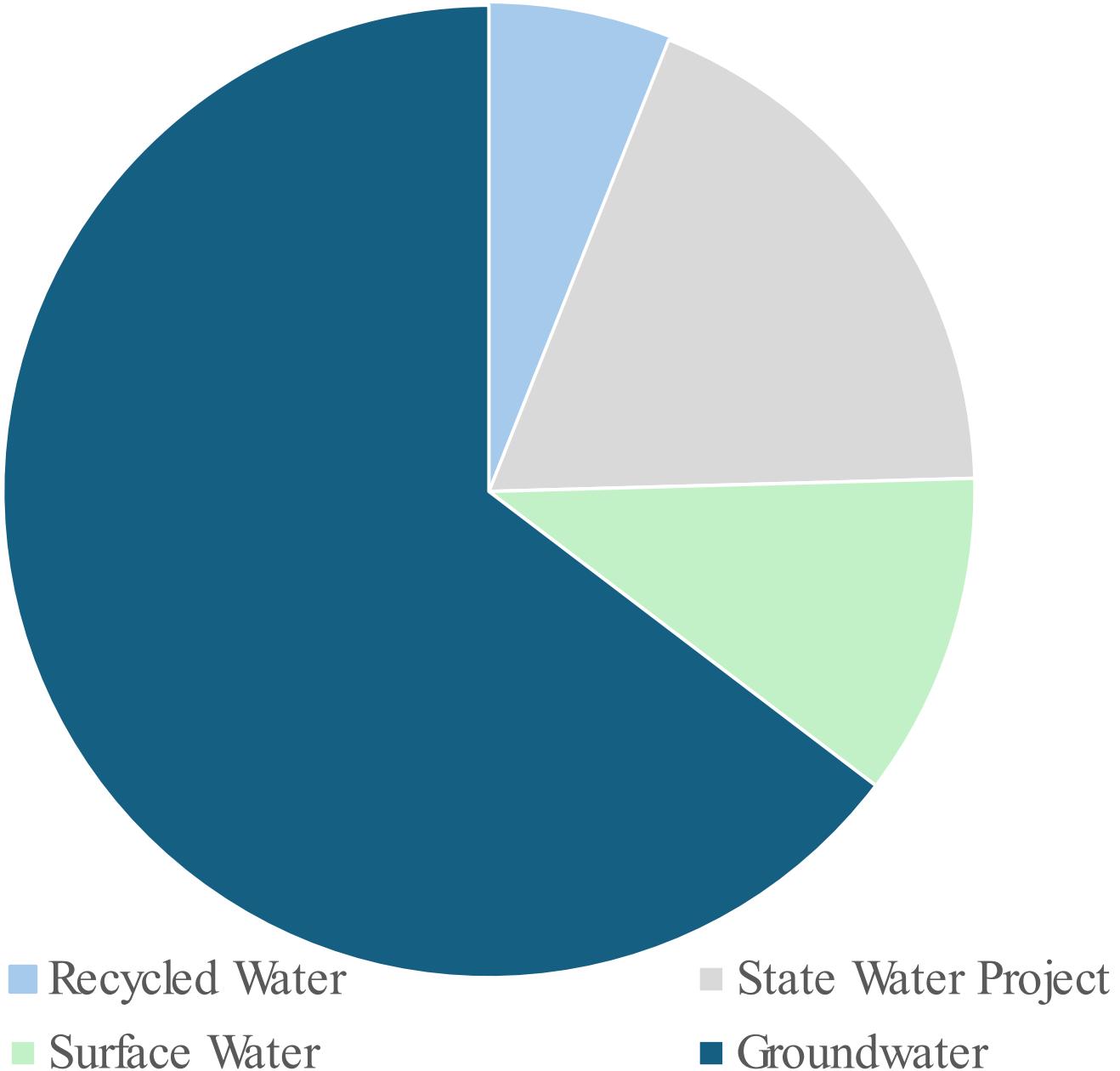
SOUTHERN CALIFORNIA WATER DIALOGUE
MAY 28, 2025



**San Bernardino Valley
Water Conservation District**
Helping Nature Store Our Water



Water Supply Portfolio





Watermasters



Design and Construction



Groundwater Recharge

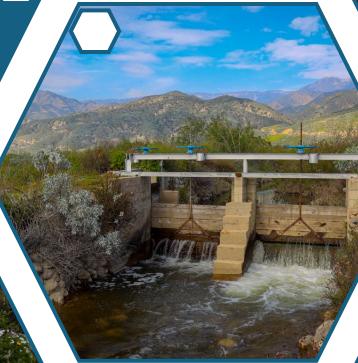
Forecast-Informed Reservoir Operations



State Water Project Contractor



Recycled Water



Streamlined Permits



Headwaters Resilience

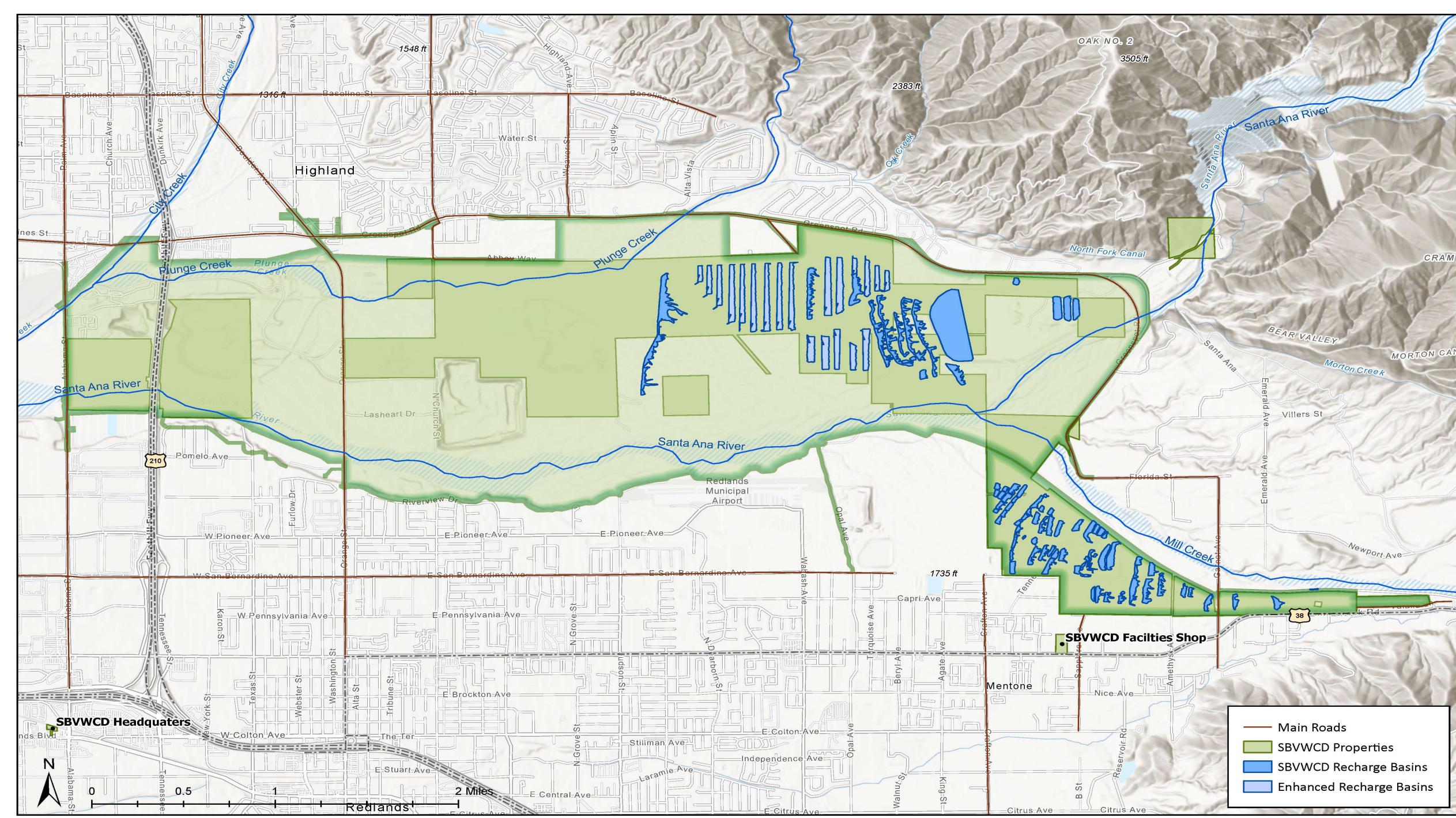


Our Mission

As one of California's first **sustainable groundwater replenishment** agencies, the District proactively recharges water, improving supply for the benefit of water users, local businesses, and native flora and fauna in a financially responsible way.

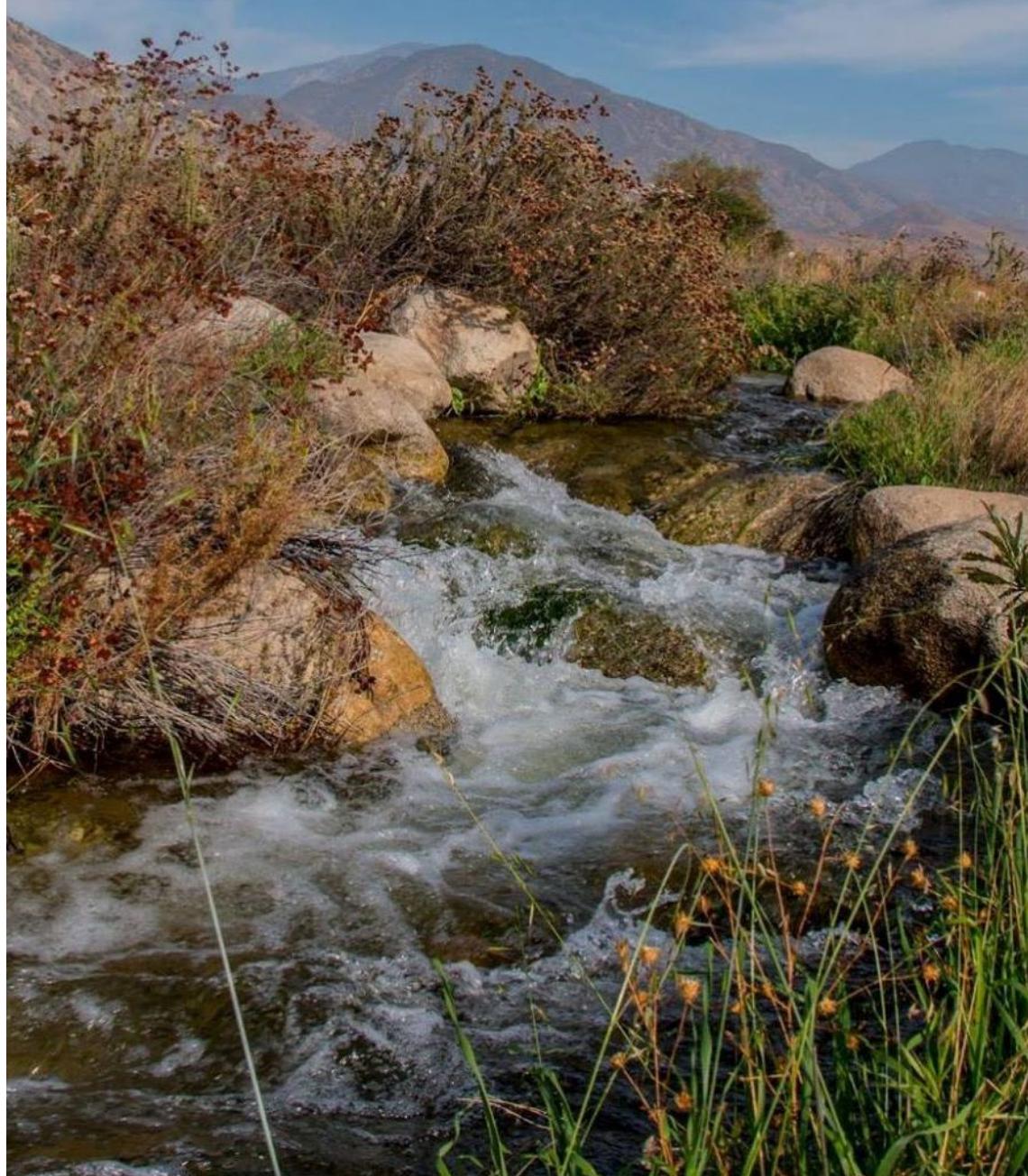
The District leverages our unparalleled expertise as stewards of the water and land, responsibly **innovating in water and habitat conservation**, harmonizing and enhancing **working landscapes**, and enriching **open space as a community asset**.



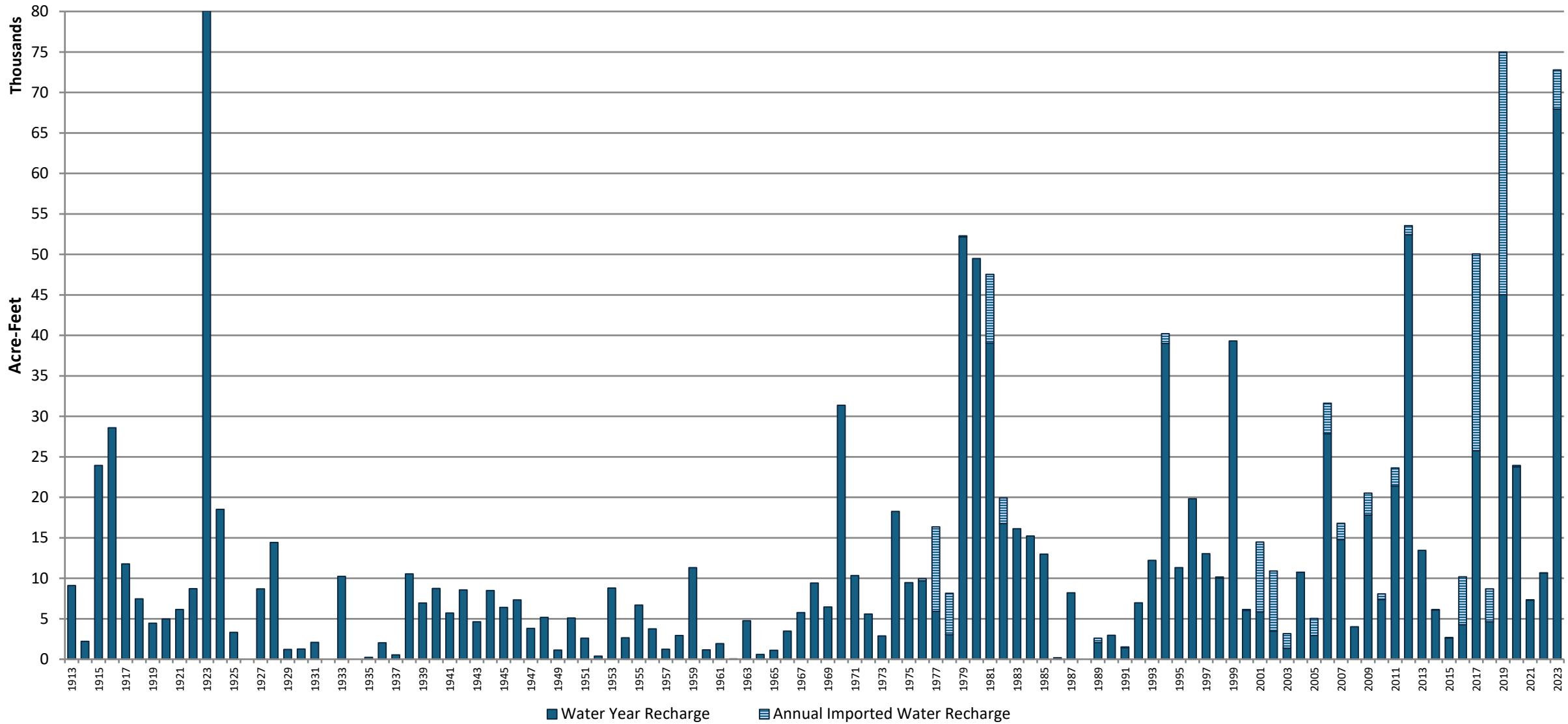


Recharge

- 1.49 MAF since 1912
 - 1.32M AF from water rights on local streams and rivers
 - 166K AF from State Water Project since 1976
 - River channel recharge

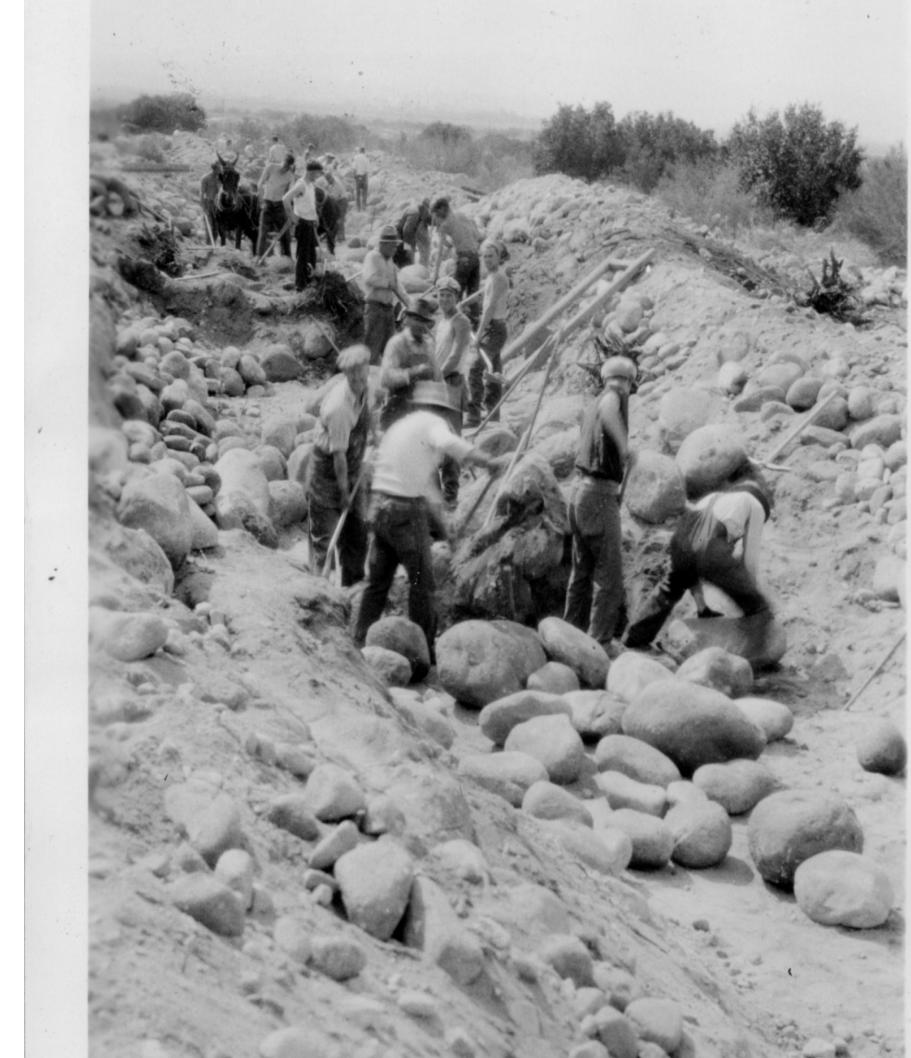


Annual Aquifer Recharge to the Bunker Hill Basin in Acre Feet



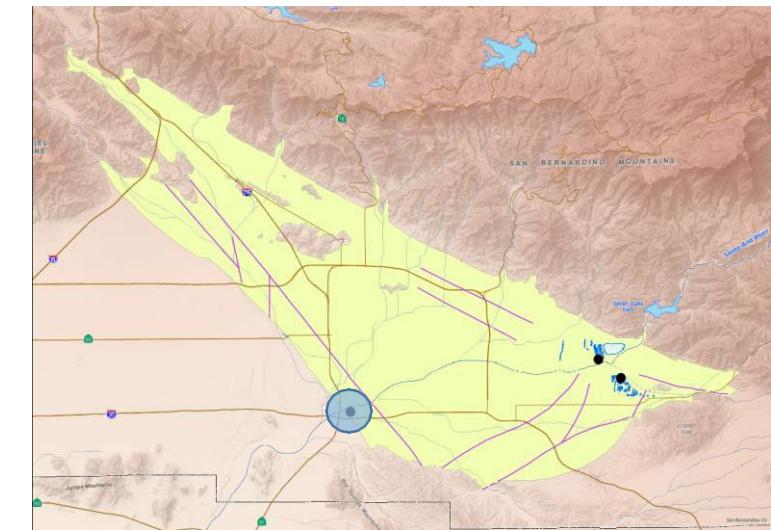
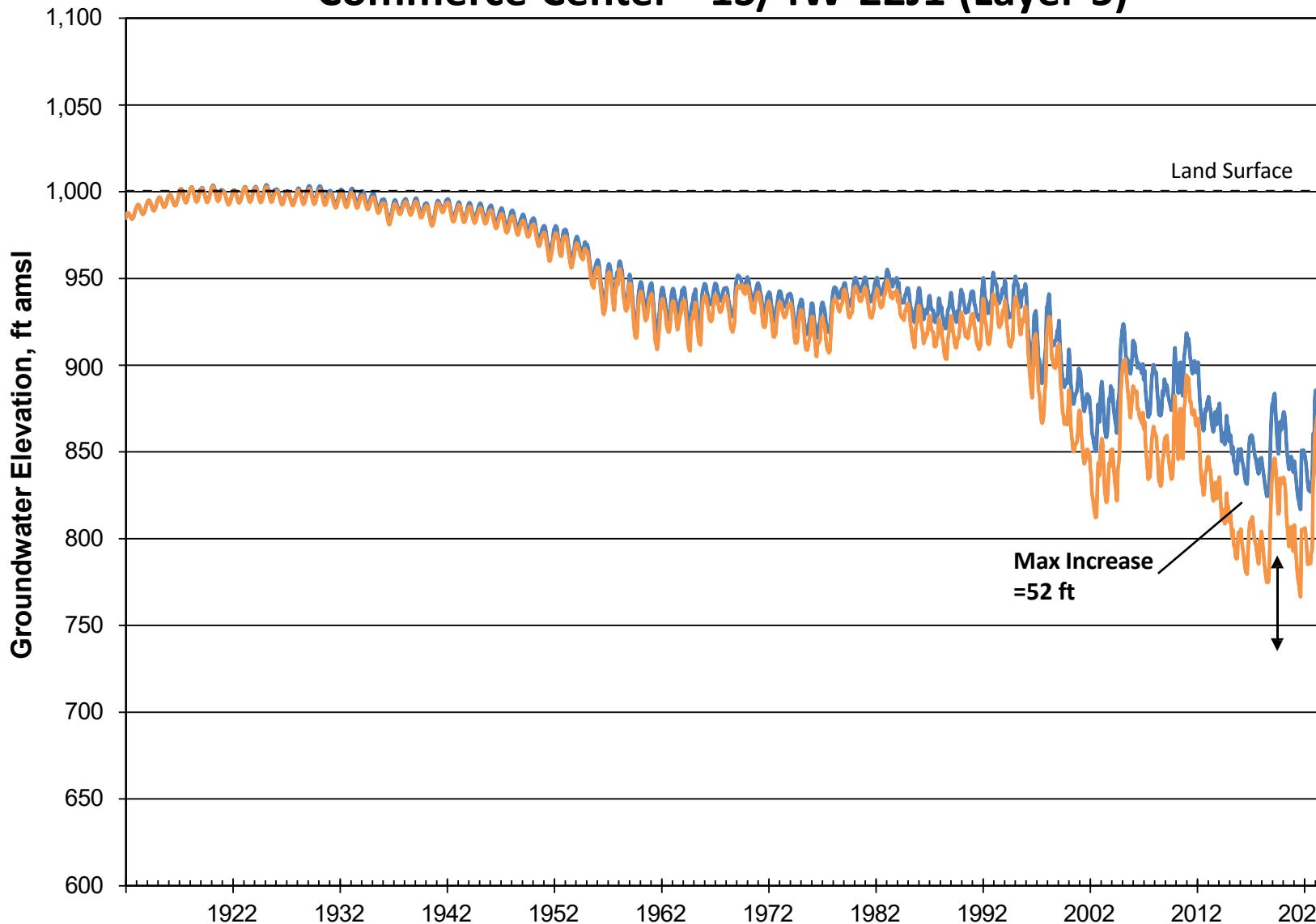
Results

- Water levels increased by >25 feet over 75 square miles
- Maintained production in 22% (188) of the aquifer's wells
- Minor groundwater benefits in adjacent basins



DIGGING WATER SPREADING
DITCH - STATE CAMP
WATER CONSERVATION ASS'N
2/33

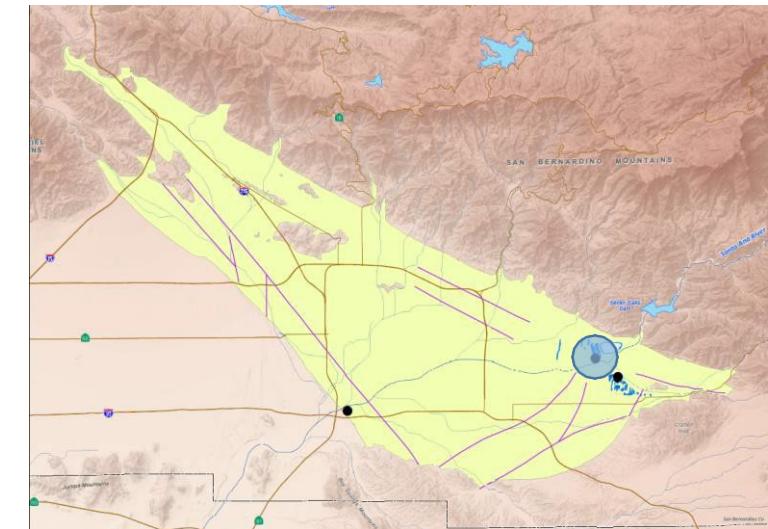
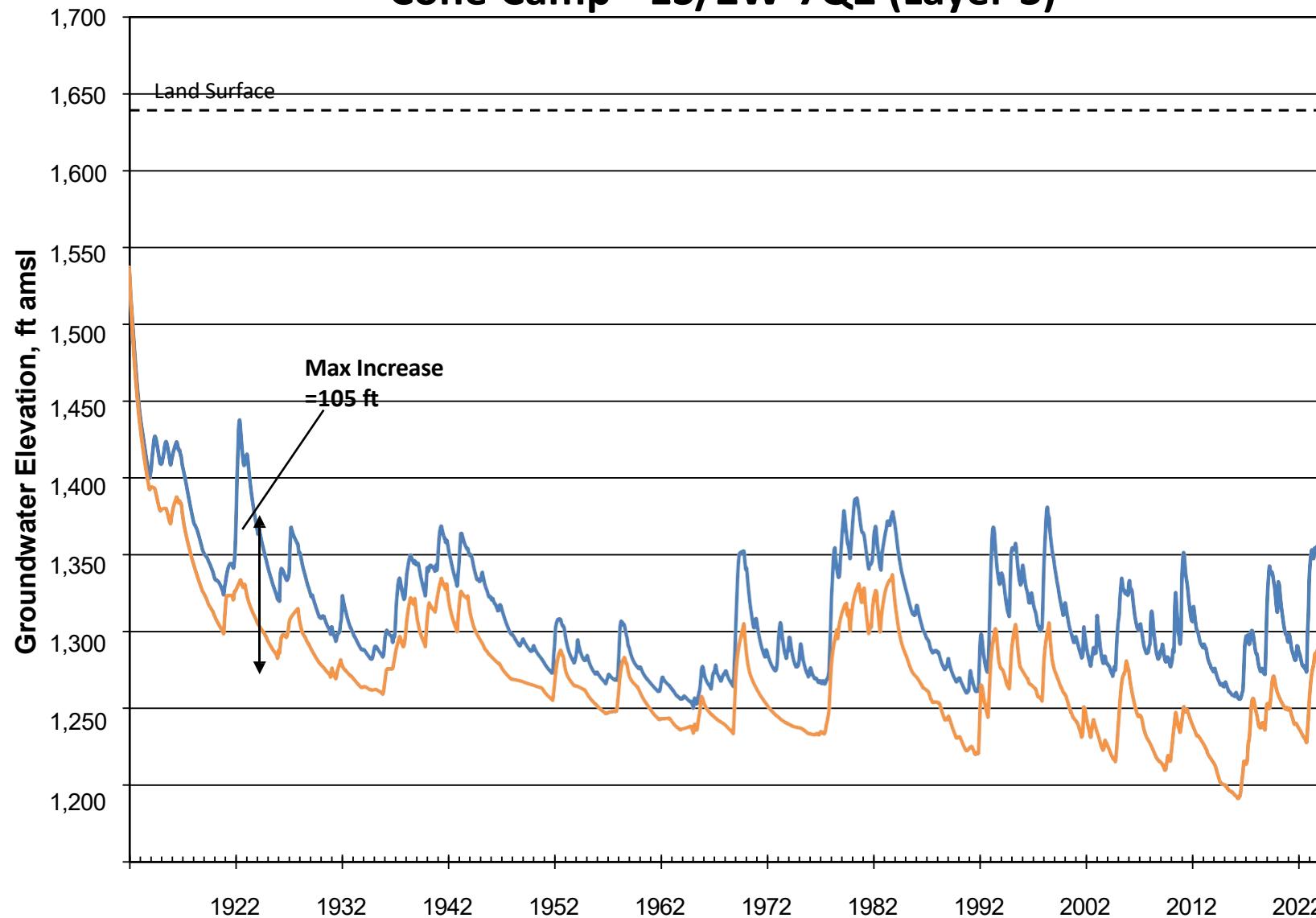
Commerce Center - 1S/4W-22J1 (Layer 5)



Model-Calculated
(with Conservation
District diversions)

Model-Calculated
(without Conservation
District diversions)

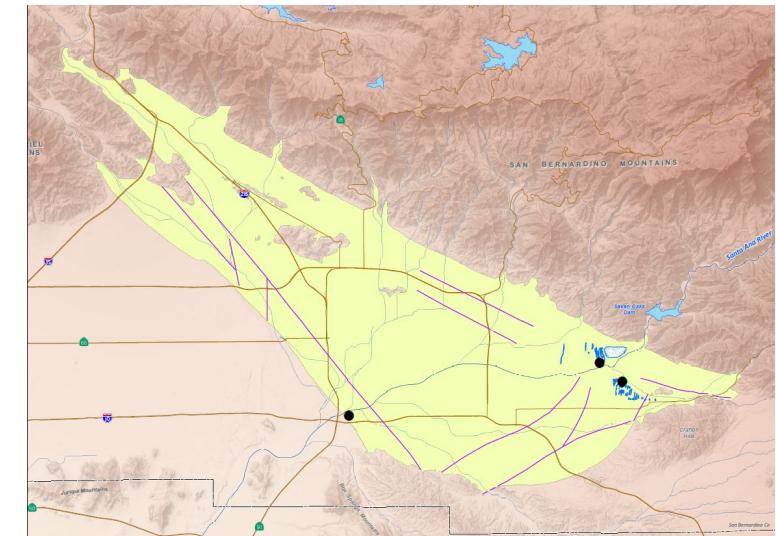
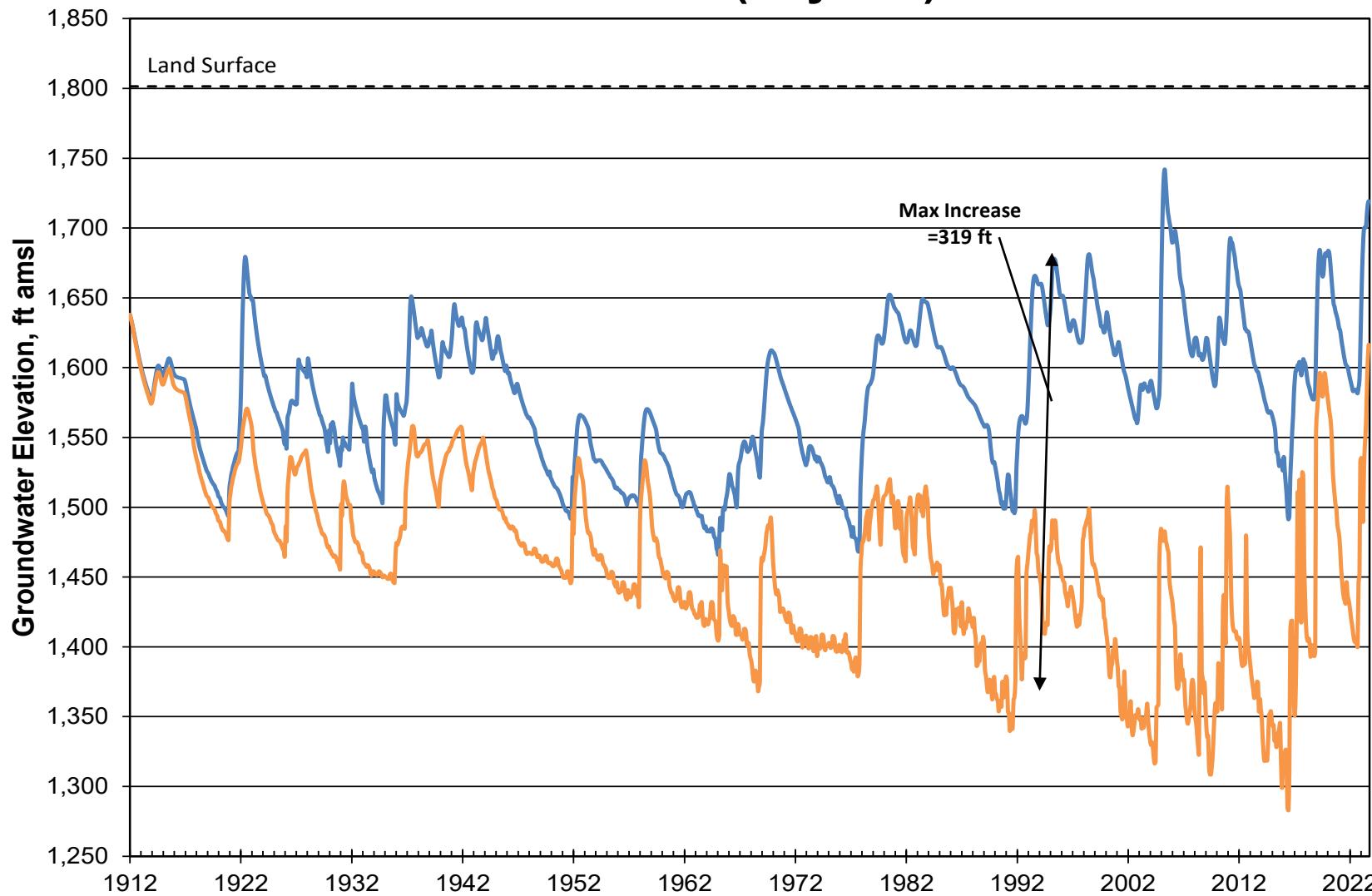
Cone Camp - 1S/2W-7Q2 (Layer 3)



Model-Calculated
(with Conservation
District diversions)

Model-Calculated
(without Conservation
District diversions)

MC2 (Layer 2)

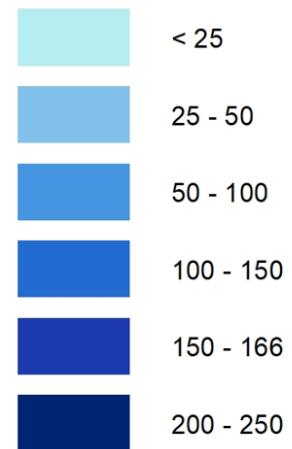


Model-Calculated
(with Conservation
District diversions)

Model-Calculated
(without Conservation
District diversions)

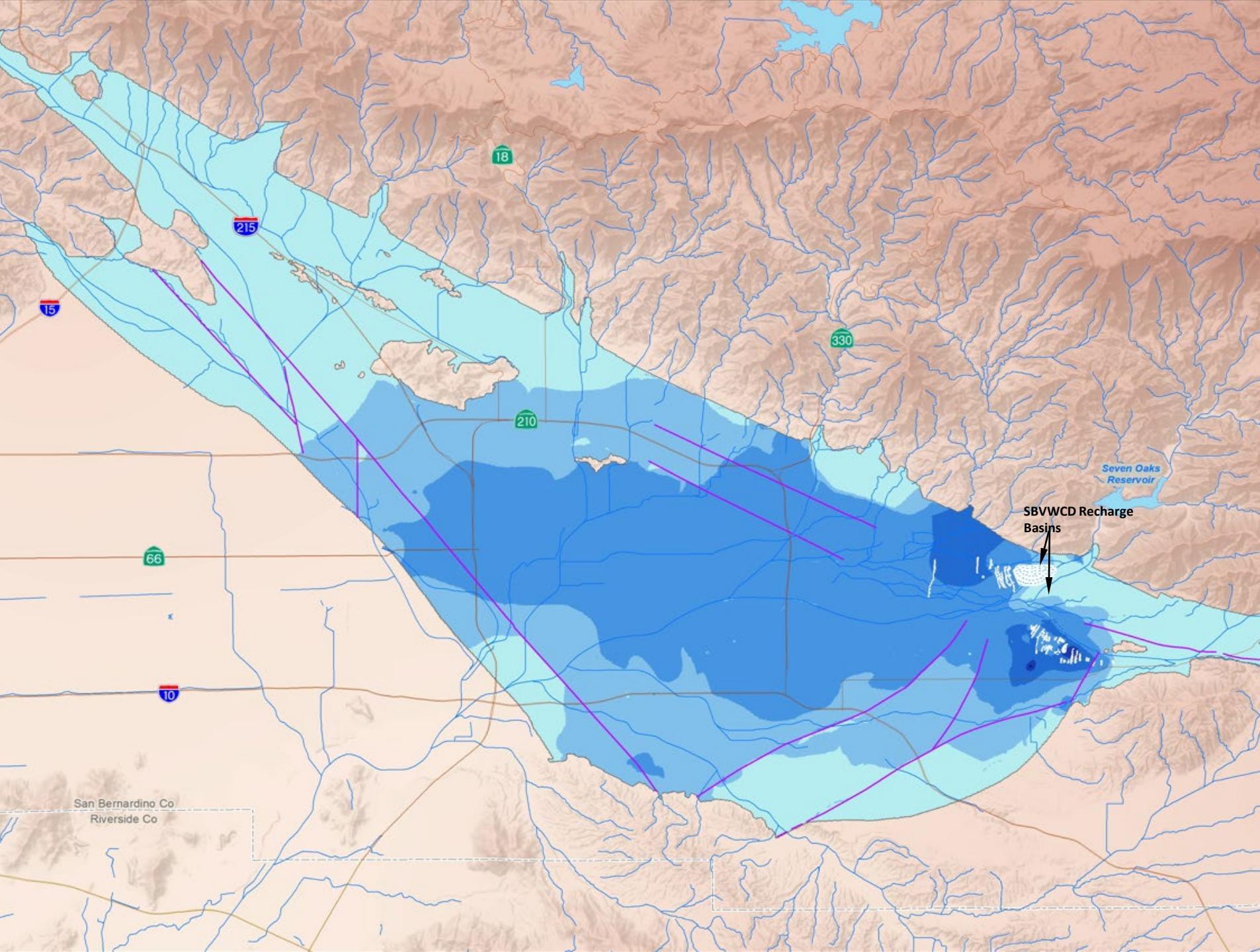
2023 Change in Groundwater Elevation after 112 Years

Change in Groundwater Elevation (ft)



Groundwater Flow Barrier

Recharge Basin



Partners for Stewardship

- Design and Construction
 - **Plunge Creek Conservation Project**
 - Enhanced Recharge Project
 - Program for Expansion of Recharge Capacity (PERC)
- Streamlined Permitting
 - Upper Santa Ana River Wash Habitat Conservation Plan
- Water Supply
 - Forecast-Informed Reservoir Operations



Pilot channel
constructed
to
re-braid
streambed

Existing,
incised
channel

Splitter mound to
divert water into pilot
channel



Habitat refreshed
in sand deposition
areas



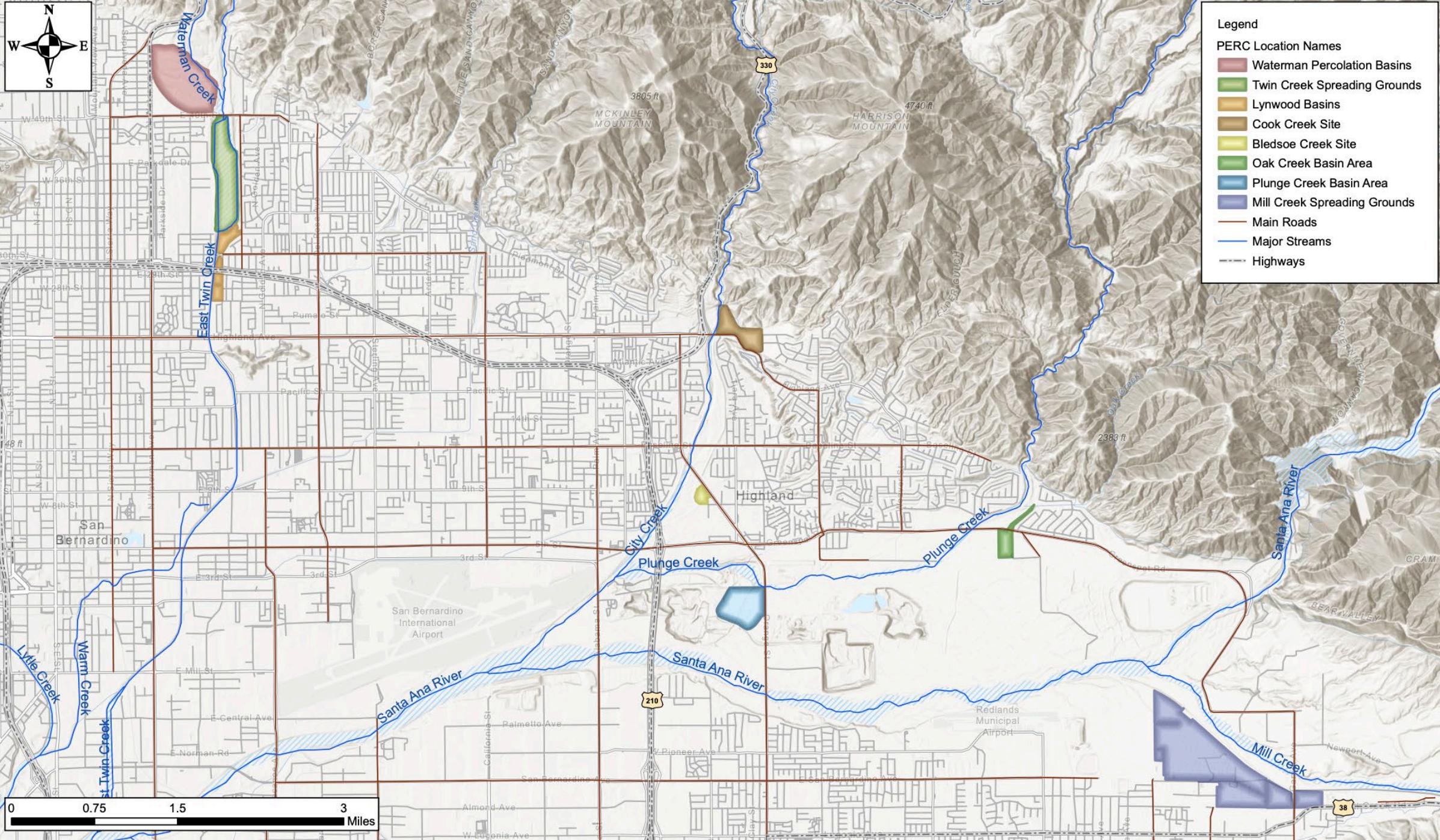
Partners for Stewardship

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 - Plunge Creek Conservation Project
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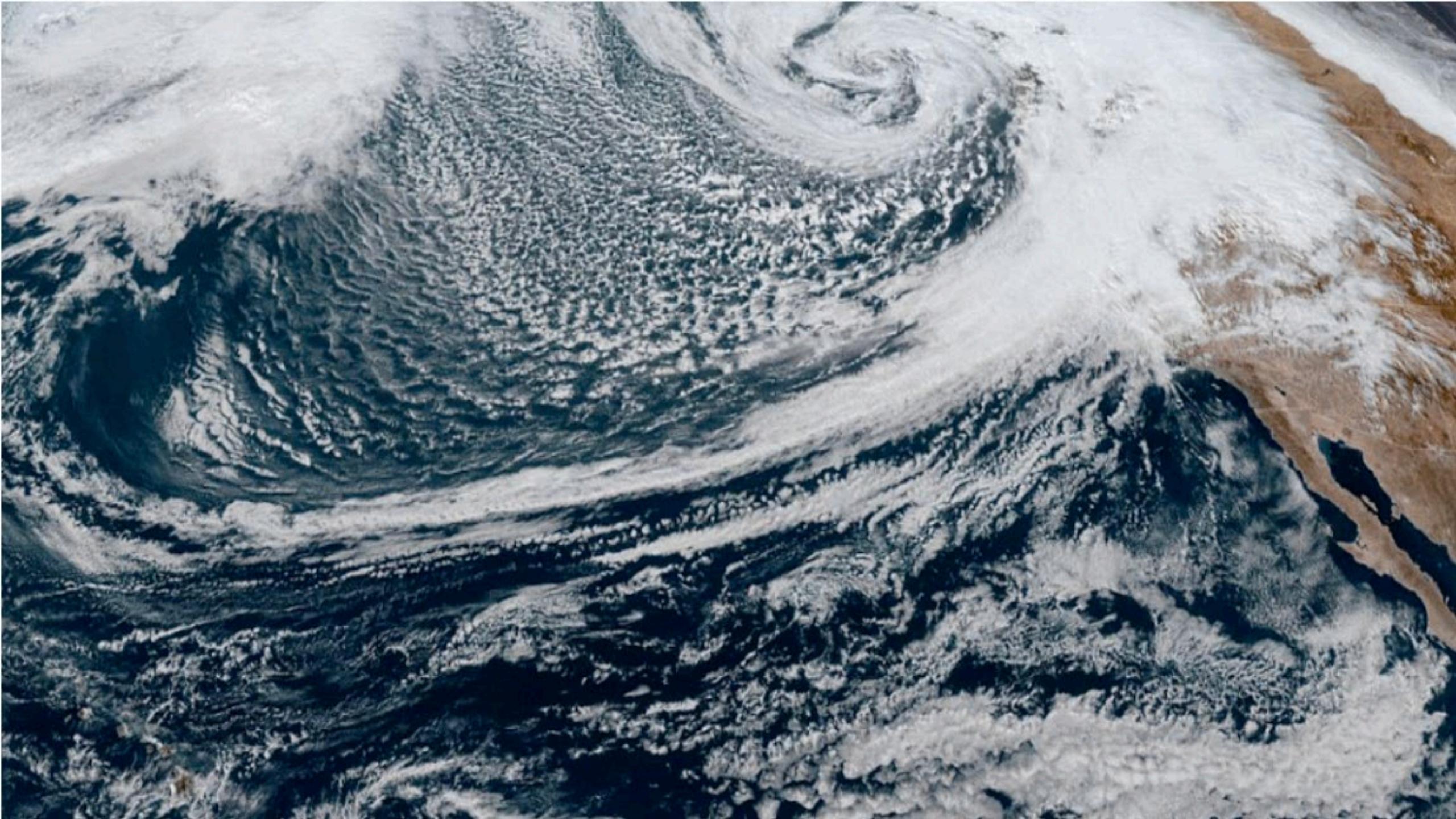
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Thank you

Betsy Miller, General Manager
San Bernardino Valley Water Conservation District

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