

REPLENISH BIG BEAR

PROJECT UPDATE | JULY 2026



REPLENISH
— *Big Bear* —



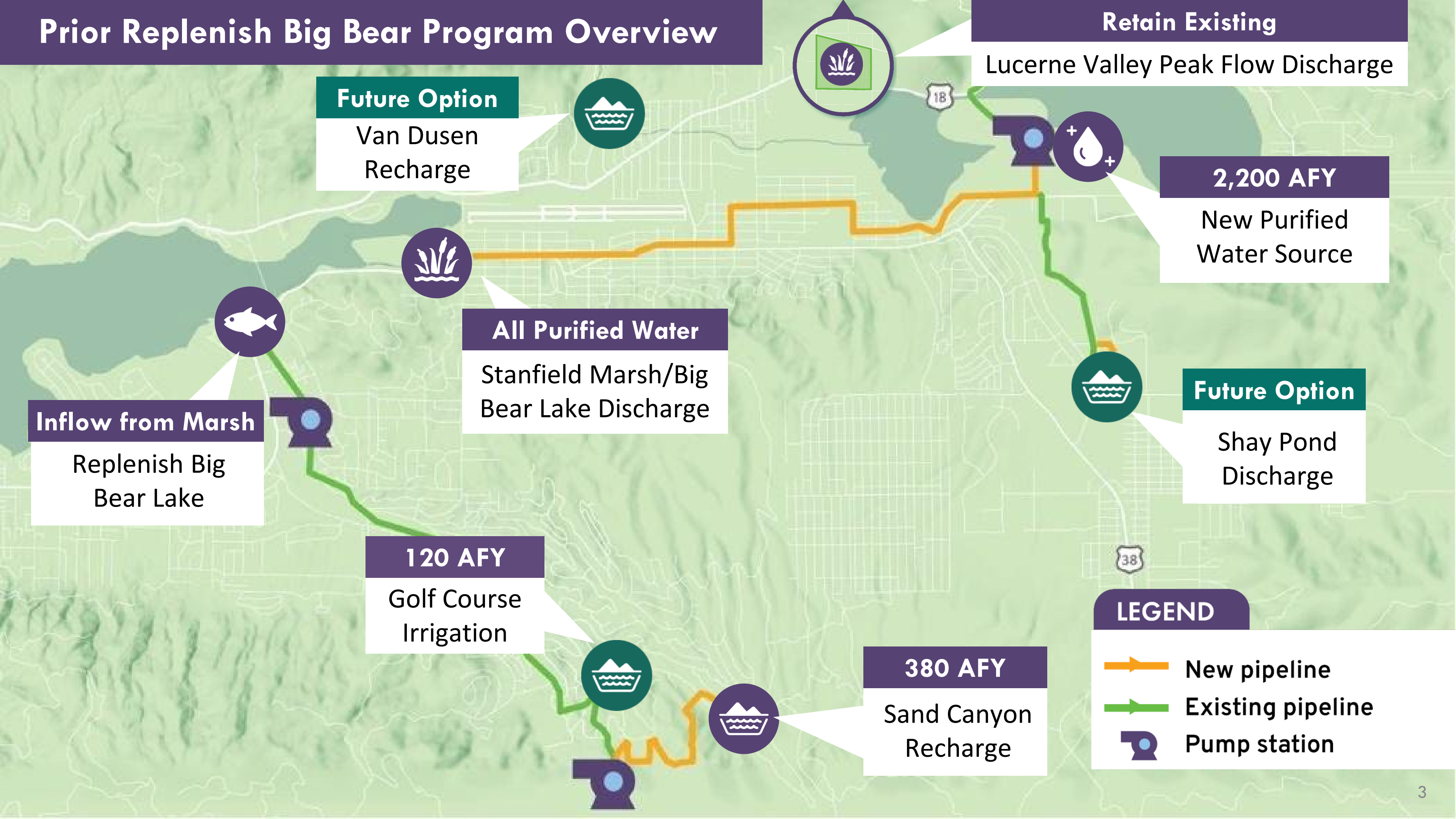


REPLENISH
— Big Bear —

Greenspot Recharge Project Review

July 29, 2026

Prior Replenish Big Bear Program Overview





GREENSPOT RECHARGE PROJECT HISTORY

Groundwater recharge has always been the anchor.

Project components expanded in the last decade to include a broader range of benefits (groundwater, recreation, and habitat). However, the cost and complexity became prohibitive.

As a result, BBARWA went back to the roots — provide groundwater recharge. This is part of BBARWA's core mission, "beneficially reuse wastewater ... in an environmentally and fiscally responsible manner." <https://www.bbarwa.org/>

Van Dusen Canyon Recharge

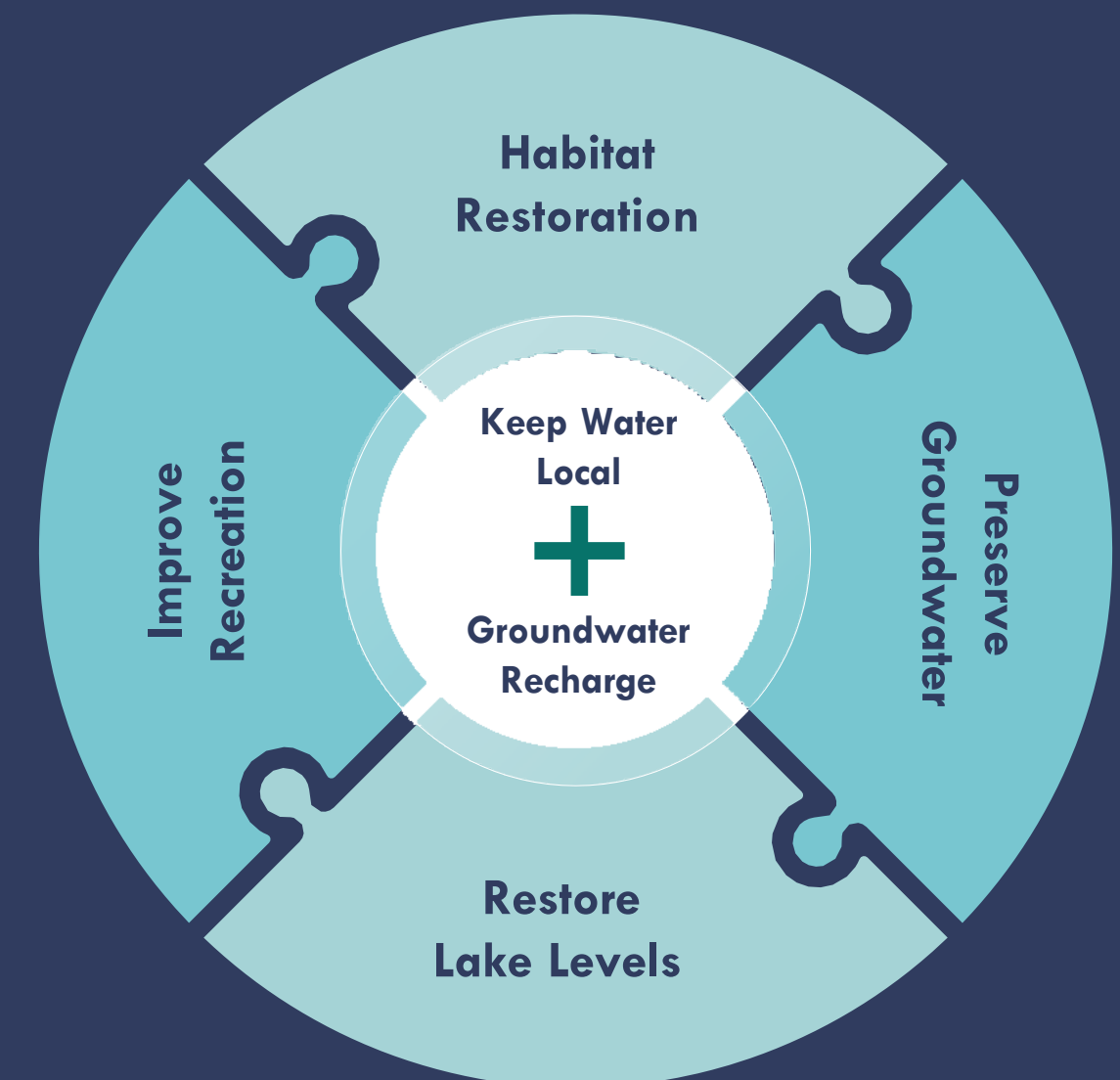
Sand Canyon Recharge

Greenspot Recharge

Irrigation

Marsh/Lake Discharge

Shay Pond Discharge





RECYCLED WATER ALTERNATIVES

Evaluated Since 2004

2004 -
2005

**Van Dusen
Canyon
Recharge**

2006

**Imported
Water**

2004 -
2005,
2016

**Greenspot
Recharge**

2004,
2016

**Sand
Canyon
Recharge**

2016

**Greenspot &
Sand Canyon
Recharge**

2004 -
2005

Irrigation

2018

**Marsh/Lake Discharge
+ Sand Canyon Recharge
+ Shay Pond Discharge**

Revised Program Overview

Replenish
Van Dusen Recharge
(Future Option)

Retain Existing
Lucerne Valley Peak Flow Discharge

500 AFY
New Purified Water Source

Inflow from Marsh
Replenish Big Bear Lake
(Future Option)

All Purified Water
Stanfield Marsh/Big Bear Lake Discharge
(Future Option)

Future Option
Shay Pond Discharge

Replenish
Greenspot Recharge Project
500 AFY

120 AFY
Golf Course Irrigation
(GW Offset)
(Future Option)

380 AFY
Sand Canyon Recharge
(Future Option)

LEGEND

-  New pipeline
-  Future pipeline option
-  Existing pipeline
-  Pump station



GREENSPOT RECHARGE PROJECT

Simplifies the Initial Replenish Big Bear Implementation

PRIOR PLAN

REVISED PLAN



500 AFY Groundwater Recharge
2,200 AFY Total in Phase 1

500 AFY Groundwater Recharge in Phase 1
2,200 AFY Total in Phase 2



\$105 M Capital Cost
\$4.3 M Annual O&M Cost

\$81.5 M Capital Cost*
\$1.8 M Annual O&M Cost



Multiple projects, agencies and permits
needed to achieve groundwater recharge

Greenspot Recharge Project is a complete
recharge system under 1 permit by BBARWA only



Multiple new interagency agreements
needed to operate and receive benefits

DWP and CSD receive benefits with their own
existing wells; no new agreements



Advanced treatment + nutrient removal
(for Lake discharge)

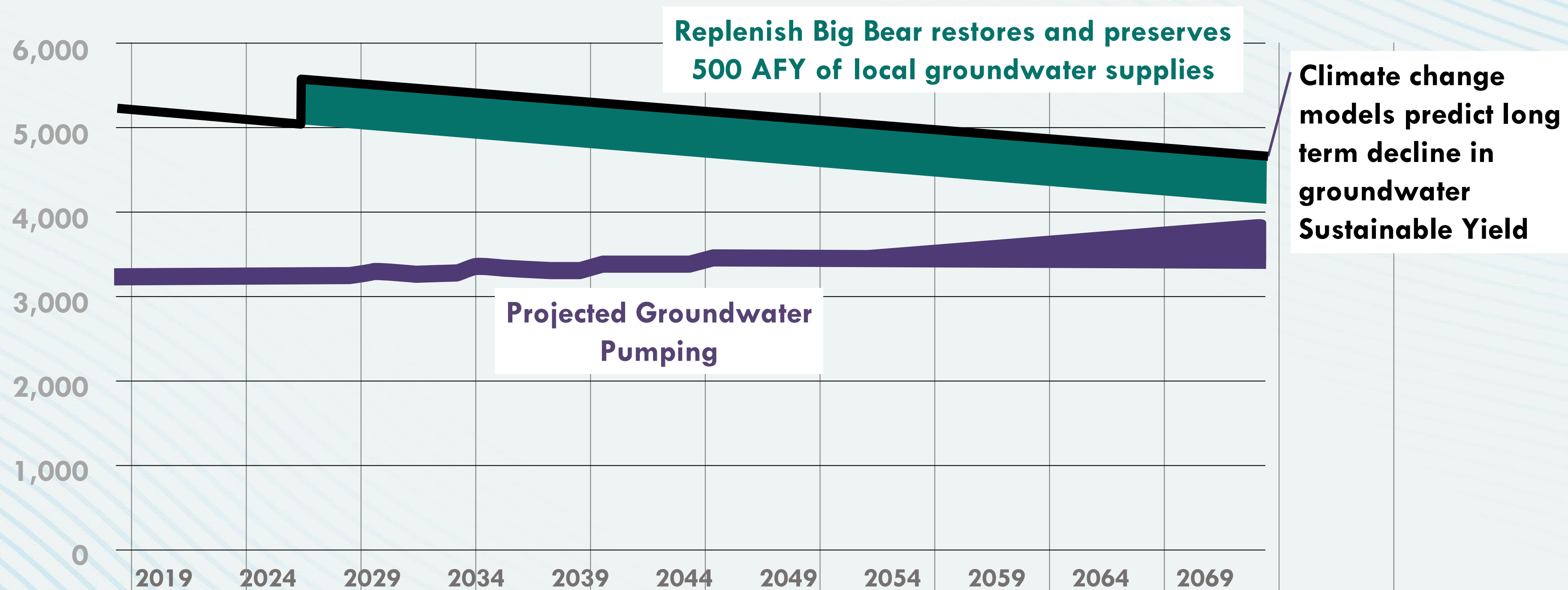
Advanced treatment

*Prior Program Development Expenditures through April 30, 2026 = \$7.1 M
Estimated Greenspot Project Costs after April 30, 2026 = \$81.5 M
Total Estimated Program Expenditures through Phase 1 = \$88.6 M



SIMPLER PROJECT

Same Groundwater Benefits





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— Big Bear —

Greenspot Recharge Project Detail

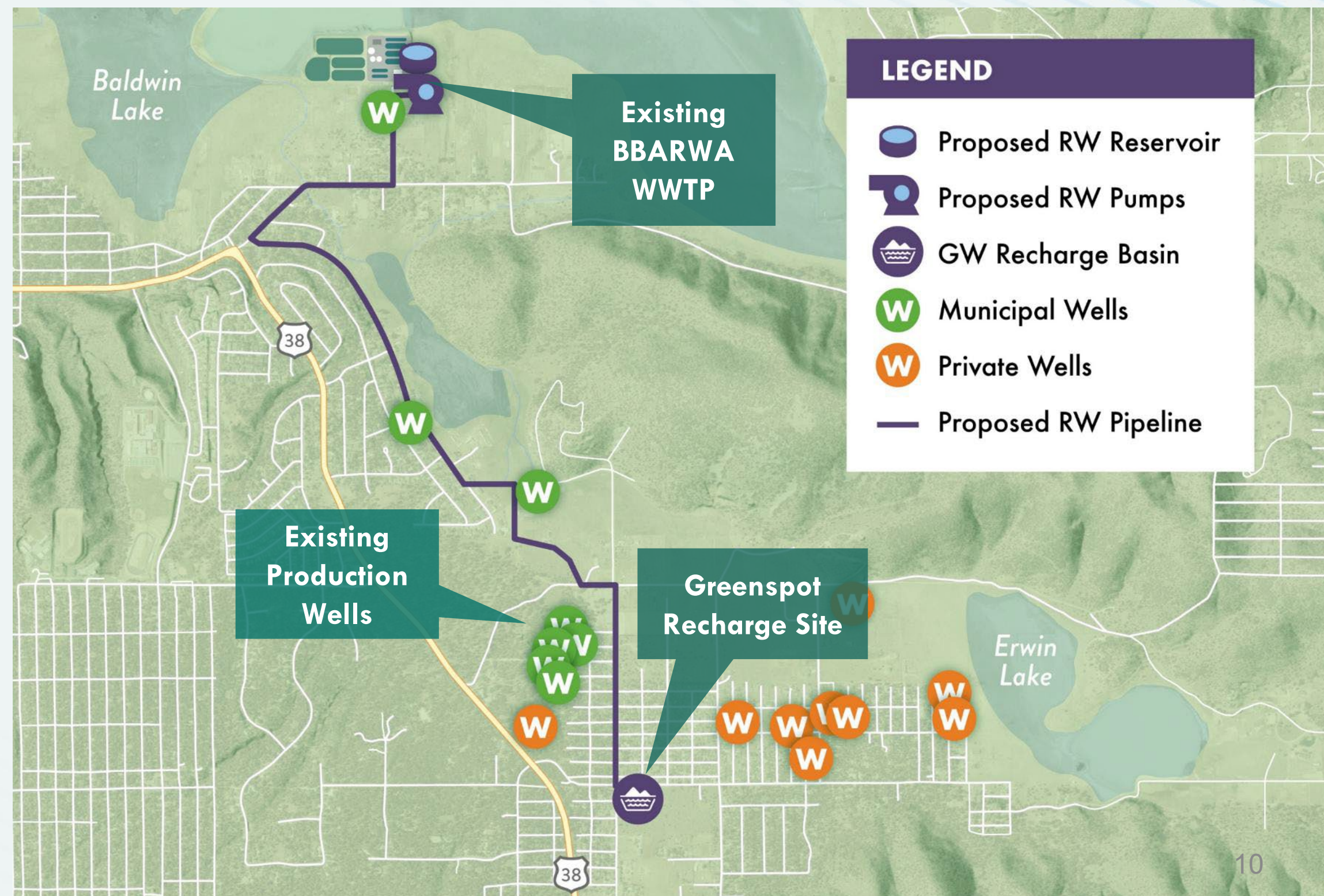
July 29, 2026



GROUNDWATER RECHARGE

at Greenspot

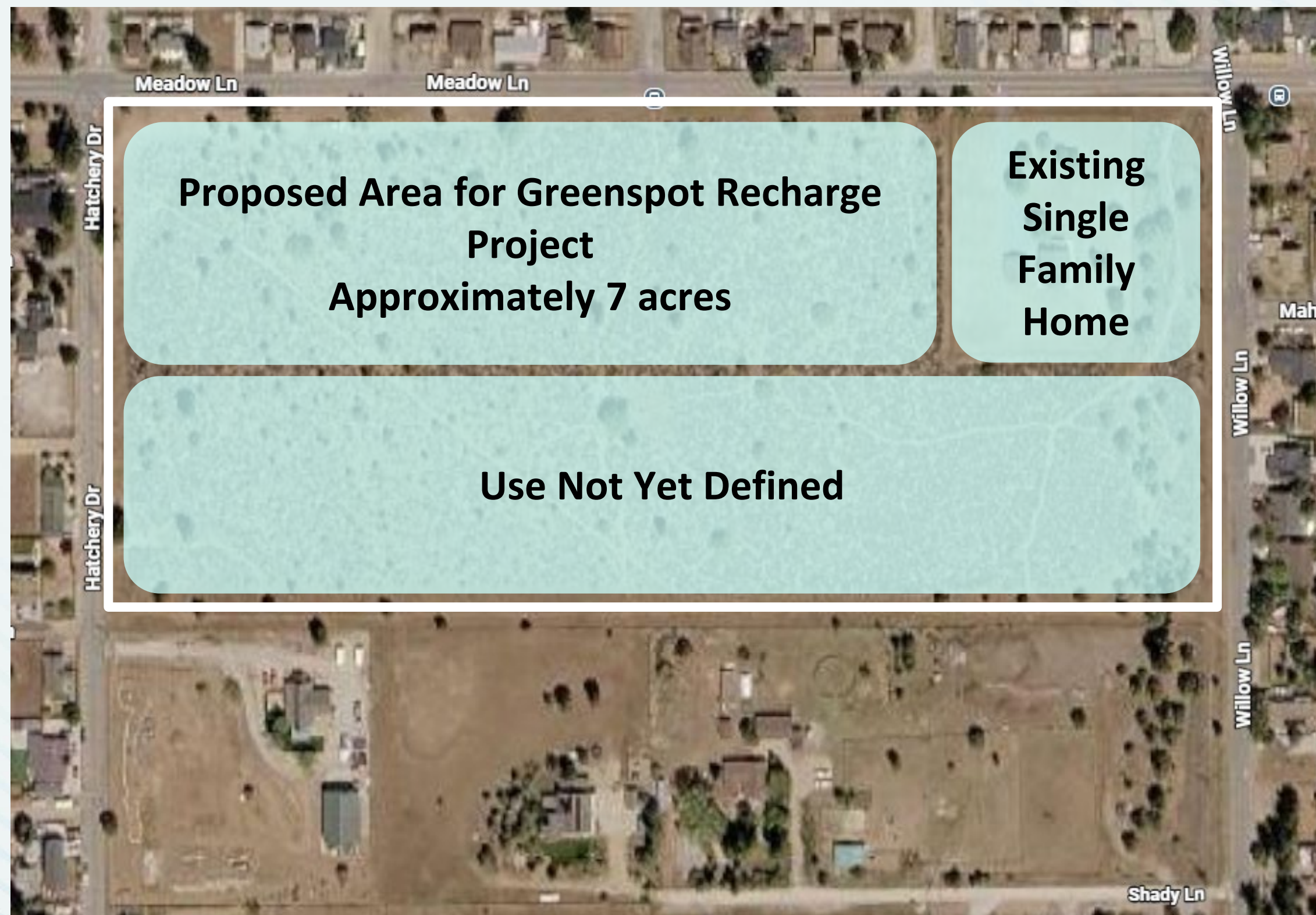
- Phase 1 will supply **500 AFY** for groundwater sustainability.
- Advanced treatment upgrades will produce purified water for recharge that exceeds all water quality standards.
- The recharge basins will occupy approximately 7 acres of the 20-acre project site.
- The recharge basins will typically operate for 9-months a year (not in winter).
- Recharge will directly benefit existing CSD and DWP wells in the area.
- Initial groundwater modeling shows that known private wells will see higher water levels and will not be negatively impacted.





20-ACRE LOT

Purchased for Greenspot Recharge Project





GREENSPOT RECHARGE PROJECT

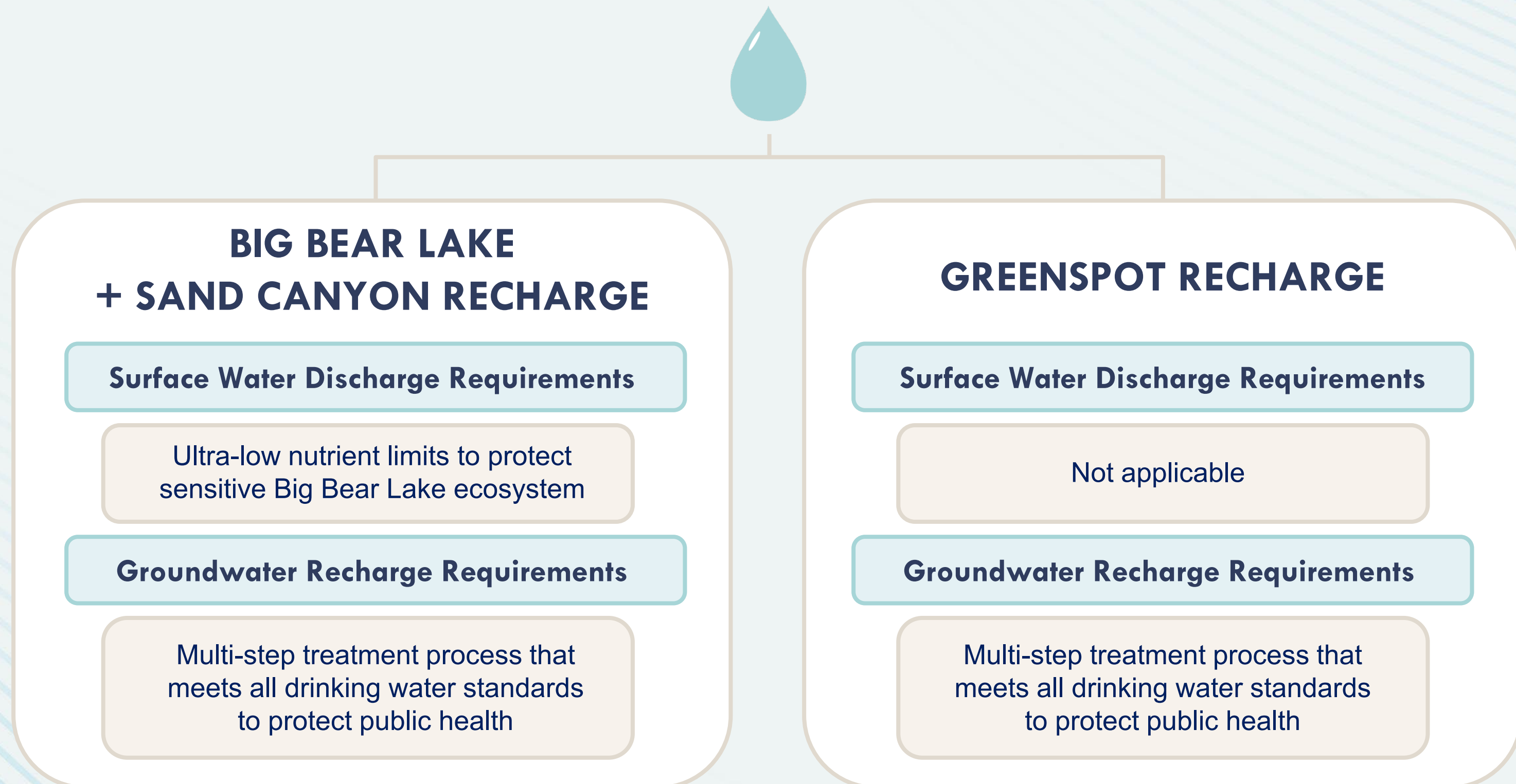
Preliminary Renderings — Subject to Change





GREENSPOT RECHARGE PROJECT

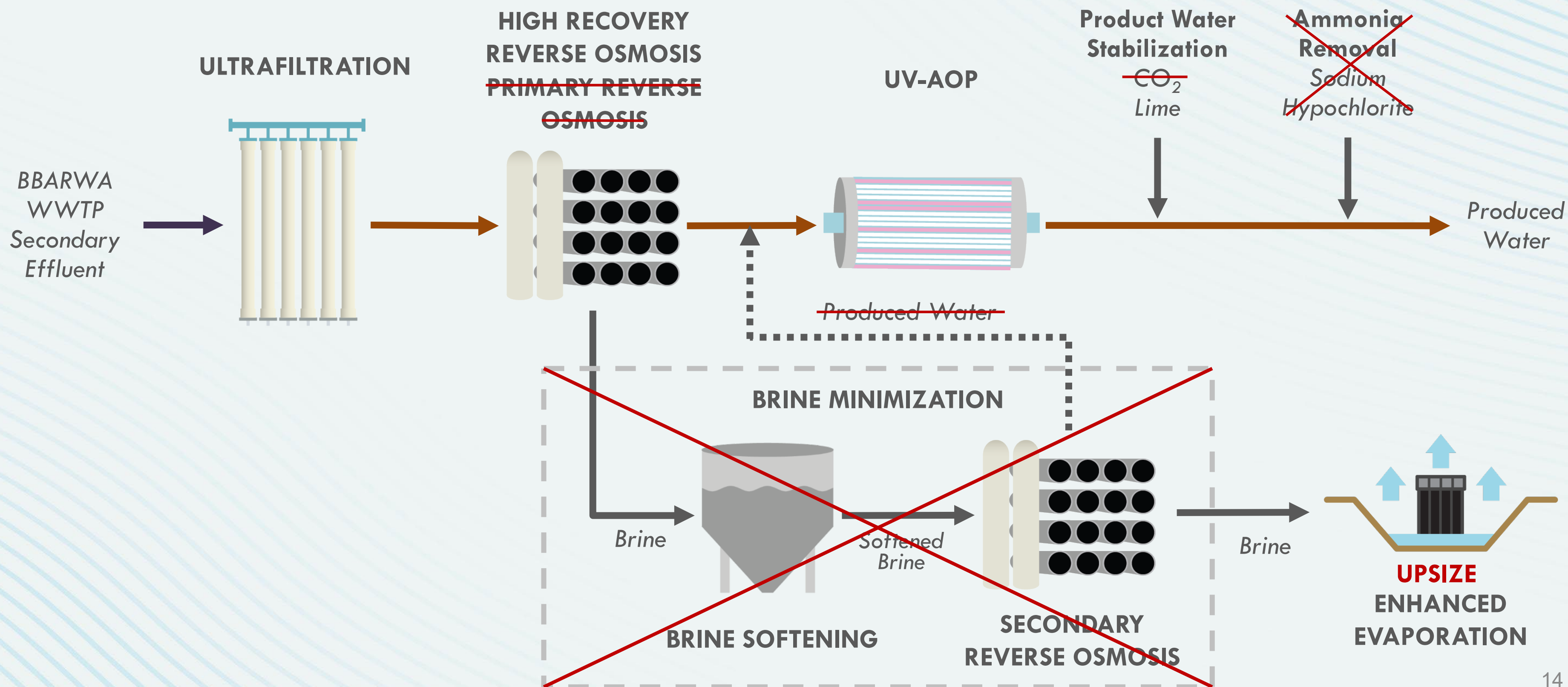
Water Quality Requirement Comparison





GREENSPOT RECHARGE PROJECT

Treatment Process Changes





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Recent Progress and Next Steps

July 29, 2026



SUMMARY

Of Recent Efforts

- BBARWA purchased the 20-acre “Greenspot” site previously identified as a viable location for groundwater recharge to preserve current and future options.
- Project hydrogeologist conducted preliminary groundwater flow modeling to simulate groundwater conditions with proposed 500 AFY recharge at Greenspot.
 - Model shows recharge water would be pumped out by existing CSD and DWP wells in the area and that recharge would not negatively impact any known private wells.
- Contacted funding agencies to request that existing grant funds be applied to the Greenspot Recharge Project (official response pending, formal submittal required).
- Developed a revised scope for Program Management (including Community Outreach) and Final Design to further advance the Greenspot Recharge Project. Revised scopes for environmental and financial support are under development.



PROPOSED COMMUNITY OUTREACH

Approach (Situation)

A new phased-project in a different location requires raising awareness, building understanding, and addressing concerns.

Objective

Build trust through transparent, timely communications and meaningful engagement.



REPLENISH BIG BEAR
GREENSPOT
Recharge Project





SIX MONTH

Community Outreach Plan



RESEARCH

- Identify affected audiences.
- Engage to understand concerns, information needs, perceptions or questions, and how they prefer to receive information.



PLAN

- Develop key messages, materials, and engagement activities tailored to each audience.
- Determine who needs to hear what information, when, and how it will be delivered.



IMPLEMENT

- Conduct engagement and outreach, beginning with those most directly impacted.



EVALUATE

- Track attendance, website traffic, survey results, sentiment, and stakeholder feedback.
- Measure misinformation, awareness, participation, understanding, and community sentiment.

**LONG
TERM**

Use findings to refine and build strategies for future project phases.



NEXT STEPS

This Meeting

- Consider amendments to Final Design and Program Management contracts to pursue Greenspot Recharge

August 2026

- Begin Community Outreach (if approved)
- Continue Final Design
- Consideration of the Phase I Funding and Financing Plan
- Consideration of a resolution to initiate the Surplus Land Act process.

- Consideration of an amendment to the Tom Dodson & Associates Agreement for environmental services.
- Consideration of an amendment to the NHA Agreement for the Phase II Funding and Financing Plan.

September 2026

- Reconsideration of the Water Infrastructure Finance and Innovation Act (WIFIA) loan.
- Consideration of the Phase II Funding and Financing Plan (pending confirmation with NHA)



PARALLEL PATHS

And Decision Points



Key Board Decisions



More Detailed Information

	2026						2027												2028
	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN
Replenish Big Bear Greenspot Recharge Project	Final Design Updated Cost at 30% Design Updated Cost at 60% Design Updated Cost at 90% Design Updated Cost at 100% Design Phase 1 Funding & Financing Plan Reconsider WIFIA Loan																		
Outfall Line Investigation	Preliminary Outfall Line Improvement Needs																		
Collection System Master Plan	Recommended Collection System Improvements																		
WWTP Facility Master Plan	Recommended Facility & Outfall Improvements																		
Comprehensive Capital Improvement Plan (CIP) Update	Consider Comprehensive CIP & Decide on Greenspot Recharge Implementation																		



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Questions