SACRAMENTO REGIONAL WATER BANK

A Sustainable Storage and Recovery Program

Transforming the Sacramento Region's Water Future

The DWR-RWA Partnership Agreement for Infrastructure Investment and Environmental Stewardship

Sacramento-area water providers are receiving $55 million in state funding for critical water infrastructure projects designed to boost water supply reliability and provide water for the Lower American River environment during extreme drought.

In a landmark partnership agreement, the California Department of Water Resources (DWR) is committing to providing local water providers with a multi-million-dollar infusion to propel the development of up to 21 new and improved groundwater wells, pumps, interconnections and storage facilities. Projects will enhance the capacity of local water providers to increase groundwater use and share water across the region during dry times, as well as recharge the aquifer during wet times.

For this investment, local water providers are committing to allocate 30,000 acre-feet of water to the Lower American River to benefit salmon and steelhead during three critical or dry years over an eight-year period, starting in 2025.

The funding partnership represents another step forward in developing the Sacramento Regional Water Bank, a network of groundwater wells, pumps and pipelines that enable local water providers to withdraw and replenish underground water reserves.

It's been estimated that the vacated space in the region's aquifers is approximately twice the volume of Folsom Reservoir. For this reason, there is a tremendous opportunity to store large volumes of groundwater beneath our feet. By effectively managing this hidden reservoir, we can counteract the impact of climate change on our water supplies and environment.

12 New Wells (81, 82 and 83-Antelope North/ Poker) and Aquifer Storage and Recovery (ASR) 11 Well Equipping (Well 84-Antelope/Don Julio)
Sacramento Suburban Water District
Project Cost: $8,200,000 for Wells 81, 82 and 83 and $14,400,000 for Well 84
Grant award: $18,840,000

These four new wells are replacing existing wells taken out of service due to age and/or water quality in SSWD's North Service Area. Project details are summarized below.

Wells 81, 82, and 83: These three new wells are co-located at one site. Each well has a target production (pumping) rate of 1,500 gallons per minute (gpm), for a target facility production rate of 4,500 gpm. The project includes a new pump station building with chemical and electrical equipment rooms, and a backup electrical power generator. The capability to add water treatment equipment in the future should it become necessary will be included.

Well 84: This new well has a target production rate of 3,000 gpm. The project includes a new pump station building with chemical and electrical equipment rooms. This facility will also have capability to conduct Aquifer Storage and Recovery operations. The capability to add a backup electrical power generator and/or water treatment equipment in the future should either or both become necessary will be included.

Aquifer Storage and Recovery (ASR) Wells (1 Mistywoods and 2 Campus Oaks)
City of Roseville
Project Cost: $19,200,000
Grant award: $8,010,000

As part of Roseville's Aquifer Storage and Recovery Program, two ASR wells are being constructed at the central Mistywoods and Campus Oaks locations. These wells are invaluable for extracting groundwater during droughts and recharging the groundwater basin in wetter periods. Investing in ASR infrastructure promotes sustainable water management aligned with local hydrology, bolsters water supply reliability, and enhances resilience to climate change impacts in Roseville and the Sacramento region. With the completion of these two new ASR wells, Roseville's ASR well infrastructure will grow from seven to nine wells, with further expansion plans in the city's ASR well system on the horizon.

20 Groundwater Capacity (Well 168) and 13-19 Well Enhancements (7 locations)
City of Sacramento
Project cost: $8,000,000 for Well 168 and $3,000,000 for well enhancements
Grant award: $7,060,000

Well 168 is a crucial element of the City of Sacramento's groundwater well program. This project will replace an aging well that has served for 70 years and produce a daily supply of over 7 million gallons of drinking water. While the city primarily relies on the Sacramento and American rivers for water, this project optimizes groundwater available for customers, restoring the city's groundwater capacity. In doing so, the project leaves more water in rivers for environmental and other essential needs during dry conditions.

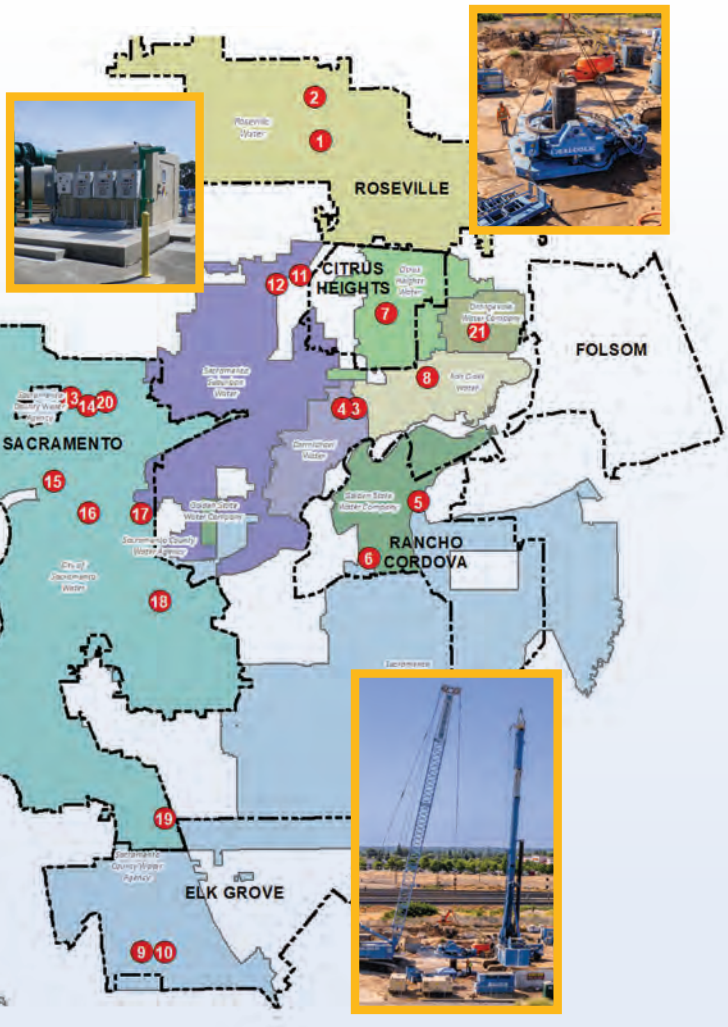
9 Well Enhancement and 10 Poppy Ridge Water Treatment Plant Projects
Sacramento County Water Agency
Project Cost: $10,600,000
Grant award: $4,960,000

The Poppy Ridge Water Treatment Plant Project has initial CEQA findings that are still valid. The project will bring two wells into service and will be complete by next summer. Wells will require upgrades such as electrical service, a SCADA operating system, an electric motor, a well pump, an on-site power backup generator or other supporting equipment. Additionally, the project will require upgrades to the filters, electrical, and SCADA system at the groundwater treatment plant, where the raw groundwater extracted from the well will be processed. Once complete, the project will be capable of providing up to 4 million gallons of water per day.

The project will include upgrades to an existing groundwater treatment plant. These upgrades could include SCADA system upgrades, pumping station upgrades, filter upgrades, associated pipeline projects, and necessary electrical upgrades. The upgrades will allow for the additional water supply provided by the wells to be distributed into the SCWA delivery system.

21 Well 4 or Well 5
Orange Vale Water Company
Project Cost: $2,800,000
Grant award: $830,000

Orange Vale Water Company is currently without a reliable source of groundwater to serve as a backup to their sole San Juan Water District supplied surface water. They are currently completing their Well 3 project that will require treatment due to perchlorate contamination. A recent planning study and vulnerability assessment prepared by the Company has identified the need for at least three new wells, one of which will be Well 3 and two that are currently programmed for funding under this grant. The Company is currently proceeding on a test hole and investigative effort to identify the most productive wells from a number of available properties in the area. The goal will be to produce approximately 1,500 gpm from each new well. Efforts will be made to isolate viable aquifers that, unlike Well 3, will not require treatment. When combined, these initial wells will, ideally, meet the Company's average annual demand with a long-term goal of constructing more wells for summer peaks and a related storage and booster station for providing critical peak hour pumping capacity and fire flows in the future. The proposed groundwater supplies will be capable of augmenting the region as a whole when needed by providing viable conjunctive use opportunities.



Total grant funding: $55,000,000
(including grant administration)
Cost for all projects: $87,500,000

7 Aquifer Storage and Recovery (ASR) Well Equipping
Citrus Heights Water District
Project Cost: $4,500,000
Grant award: $3,530,000

This project marks the second phase in the development of a municipal water supply well, encompassing the construction of the pumping plant and all above-ground facilities. Its implementation will enable Citrus Heights Water District to reduce its reliance on surface water by up to 1,500 acre-feet per year, particularly during hydrologically challenging periods. Leveraging ASR technology, this groundwater well will inject surplus water into the ground during wet times, storing it for withdrawal during dry times or to meet peak demand, enhancing water supply resilience and flexibility.

Interconnection Upgrade (Golden State Water Company and Sacramento County Water Agency at 5 Mercantile and 6 Femoyer)
Golden State Water Company
Project Cost: $1,600,000
Grant award: $1,370,000

This project will allow the Sacramento County Water Agency and Golden State Water Company to more efficiently move water between the two neighboring water systems in the Rancho Cordova area. The upgraded interconnections will increase operational flexibility in responding to both dry and wet times.

8 Northridge Replacement Well
Fair Oaks Water District
Project Cost: $3,200,000
Grant award: $2,470,000

This project will replace and equip an existing active groundwater production facility at the Northridge Elementary School, with a focus on leveraging existing infrastructure to minimize costs and construction time. The new groundwater supply well will enhance FOWD's ability to rely on groundwater during very dry years, thus preserving more surface water for the Lower American River environment and will bolster water supply reliability. Additionally, the project fosters collaboration between FOWD, the local school district and park district to make meaningful improvements for community use.

Aquifer Storage and Recovery (ASR) Wells (3 Ladera Way and 4 Winding Way)
Carmichael Water District
Project Cost: $12,000,000
Grant award: $6,800,000

To support the DWR-RWA efforts for water supply reliability and provide water for the Lower American River during extreme drought, Carmichael Water District (CWD) is proposing to replace two aging wells, Winding Way and Ladera Wells, to meet a portion of the required water for the Lower American River. The wells will provide an opportunity to recharge the groundwater basin to adapt to climate change and provide drought resilience for CWD's ratepayers and the Lower American River ecosystem. The wells will provide the District with up to 3,000 acre-feet per year of drinking water supply with a potential groundwater recharge capability of 1,500 acre-feet per year. The wells will incorporate aquifer storage and recovery technology with SCADA controls and backup generator.

RWA
Regional Water Authority
BUILDING ALLIANCES IN NORTHERN CALIFORNIA
2295 Gateway Oaks Drive, Suite 100
Sacramento, CA 95833 | (916) 967-7692

For more information about the Sacramento Regional Water Bank visit ***SacWaterBank.com*** *or scan the QR code with the camera app on your phone.*