

GROUNDWATER RELIABILITY IMPROVEMENT PROGRAM (GRIP)

Groundwater recharge is a vital component to sustaining the local drinking water supplies in the Central Basin of Los Angeles County, which serves the drinking water needs of approximately 4 million people or 13% of California's population. GRIP will ultimately increase the sustainability of the local water supply by increasing the use of recycled water in the local area by nearly 20,000 acre-feet per year, which is enough water to meet the needs of 160,000 residents annually.



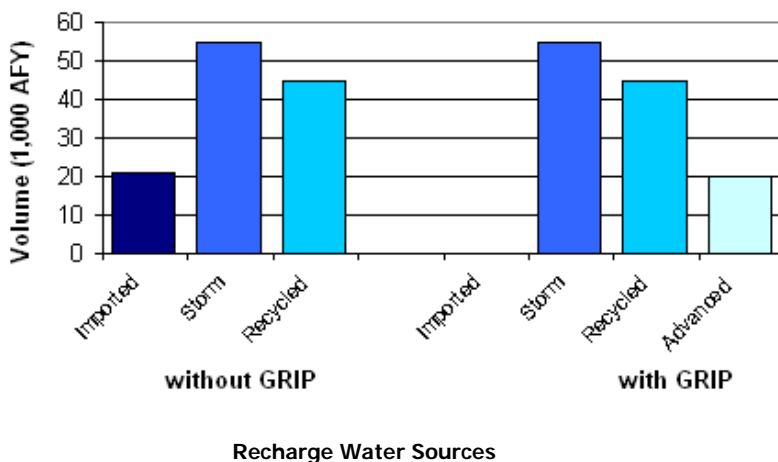
Rio Hondo Spreading Grounds

Southern California Groundwater: A Resource in Crisis

Groundwater currently provides a significant portion of Southern California's water supply. However, the Central Basin is facing a crisis with regard to the quantity and quality of groundwater available for use. For nearly 50 years, local agencies have actively managed the groundwater basins by setting limits on the amount of groundwater that can be pumped, building special wells along the coast to create a freshwater barrier against seawater intrusion, and "artificially" putting water back into the groundwater basins (an activity referred to as "recharge" or "replenishment"). Historically, three types of water have been used for replenishment in the Central Basin: storm water, imported water, and recycled water. However, imported water from the eco-sensitive delta in northern California and the Colorado River basin is no longer a reliable source to replenish the basins due to a long-term drought, increased demands, environmental restrictions, and climate change. Unless other sources of recharge water can be developed, our local basins will be depleted and face serious water quality deterioration.

To address this crisis within the Central Basin, the Sanitation Districts of Los Angeles County (LACSD), and the Water Replenishment District of Southern California (WRD), have entered into a partnership to create the Groundwater Reliability Improvement Program (GRIP).

GRIP Project Benefits



- Will employ state-of the-art water treatment technology and produce water that exceeds all regulatory drinking water standards;
- Reduce demand and dependence on imported water from the eco-sensitive delta and the Colorado River;
- Provide a sustainable and reliable local water supply;
- Reduce the energy burden of the water supply system and reduce greenhouse gas emissions and global warming impacts;
- Reduce the volume of recycled water discharged;
- Increase the protection against interruptions of water supply during levee failure, climate change, earthquakes, droughts, and other natural disasters;
- Protect groundwater quality.

GROUNDWATER RELIABILITY IMPROVEMENT PROGRAM (GRIP) CONTINUED

GRIP Project Overview

GRIP involves construction of an advanced water treatment plant that will further purify recycled water from the Sanitation Districts' San Jose Creek Water Reclamation Plant using micro filtration, reverse osmosis, and advanced oxidation. Distribution pipelines will then convey the water to spreading grounds in the Central Basin for groundwater replenishment.

To make sufficient recycled water supplies available, modifications to the San Jose Creek Water Reclamation Plant must be made. Based on daily flow patterns, peak demand for recycled water generally coincides with low flow periods at the treatment plant. Conversely, when user demand for recycled water is not as high as treatment plant flows, some recycled water must be discharged to the San Gabriel River because of insufficient storage capacity. By building facilities at the San Jose Creek Water Reclamation Plant to capture and store these flows, recycled water supplies can be increased.

GRIP Project Cost

Estimated costs for GRIP include:

- Advanced Water Treatment Plant – \$119 million
- Pipeline - \$ 27 million

Congressional Districts Benefitted by GRIP:

GRIP will benefit some or all of the residents of Congressional Districts 31, 32, 33, 34, 35, 36, 37, 38, 39, 42, and 46.

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