

Production & Treatment

Twin Oaks Aquifer Storage & Recovery System Overview

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Agenda

- Conservation is the foundation
- What is ASR?
- Where is it?
- Benefits of ASR
- Treatment Facility
- South Bexar Carrizo Production
- Mitigation
- Q & A

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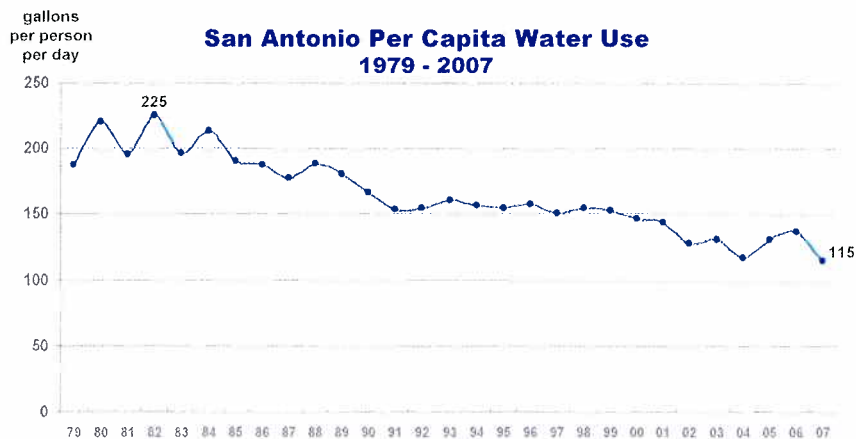


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San Antonio Water System

What is an acre foot of water?

- It is enough water to cover one acre of land with 12 inches of water or,
- One acre foot of water is enough for 2 families of four for a year or,
- An acre foot of water is equivalent to 325,851 gallons of water

It All Starts With Conservation



What is Aquifer Storage and Recovery?

- Environmentally friendly method of storing Edwards Aquifer drinking water in the Carrizo-Wilcox Aquifer.
- Water stored during rainy seasons will be used during dry, hot months.
- Maximizes the pumpage allocations from the Edwards throughout the year

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Why an ASR in San Antonio?

- Allocations from Edwards Aquifer are limited by legislation
- During wet periods there is no method to store allocations that we do not use
- There is no carryover or credit provided from the Edwards Aquifer Authority
 - If we don't use it, we lose it

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Benefits of ASR Project

- Storage management tool
 - Allows for flexibility and management of water resources throughout the year
- Less water evaporates when water is stored underground
 - When compared to a surface reservoir
- Is less vulnerable to contamination
- Much of the land directly above the ASR can continue its prior use

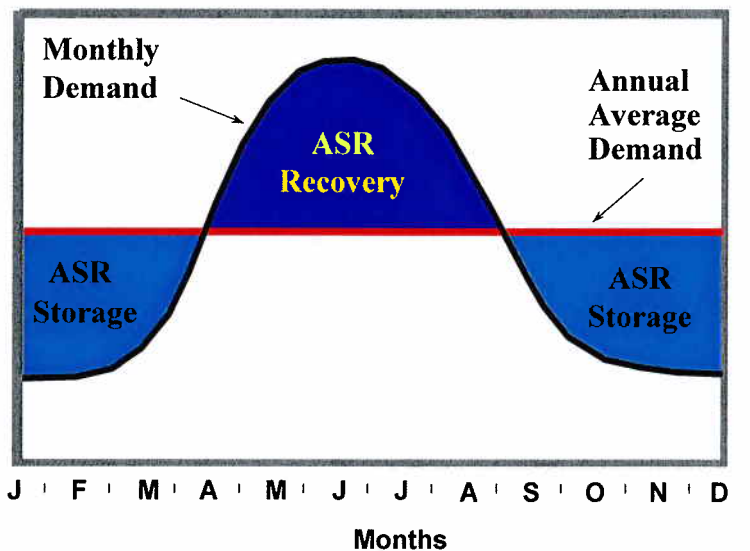
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Seasonal Storage



ASR Project Site



Aquifer Storage and Recovery Wellfield



