Texas Water Development Board ASR & AR Program Overview & Update

James A. Golab, Ph.D., P.G.

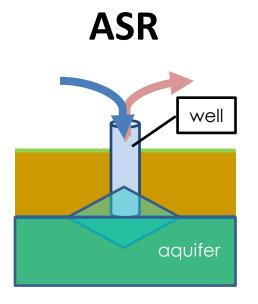
November 02, 2023 Texas Water Conservation Association Fall Conference San Antonio, Texas

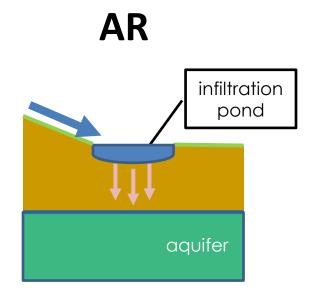
TWDB ASR Program

- Water Science and Conservation Office
 - Conservation and Innovative Water Technologies Division
- Resources, scope, and staffing wax and wane with mandates
- Currently 2 staff and 1 vacancy

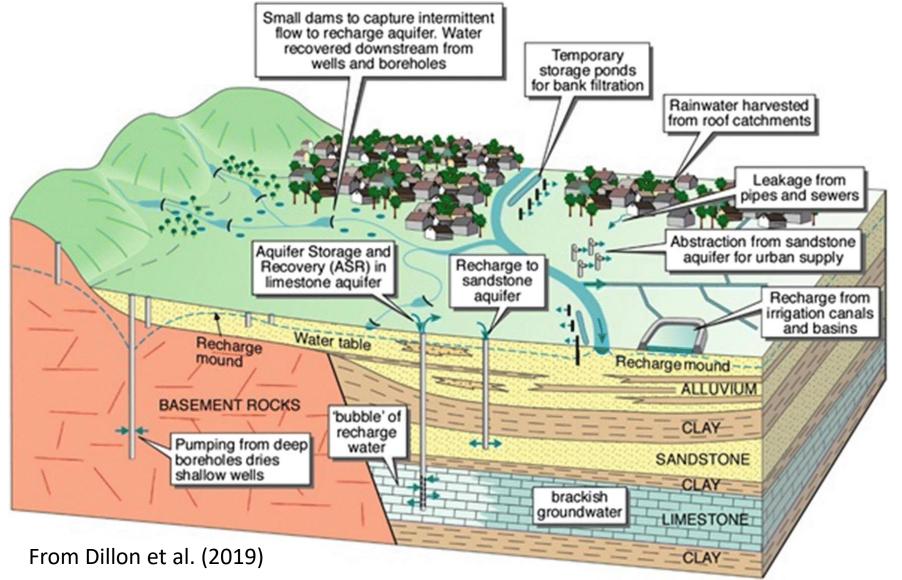
What is ASR and AR?

- Aquifer storage & recovery (ASR) is using a well to inject water into an aquifer for the purpose of subsequent recovery and beneficial use
- Aquifer Recharge, (AR) is the controlled recharge of an aquifer at the surface through various methods such as infiltration basins.





What is needed for an ASR project?



Needs

- Municipal
- Industrial
- Agricultural
- Environmental

Excess water*

- Surface Water
- Reclaimed Water
- Groundwater

Hydrogeologic characteristics*

- Storage
- Recharge
- Recoverability

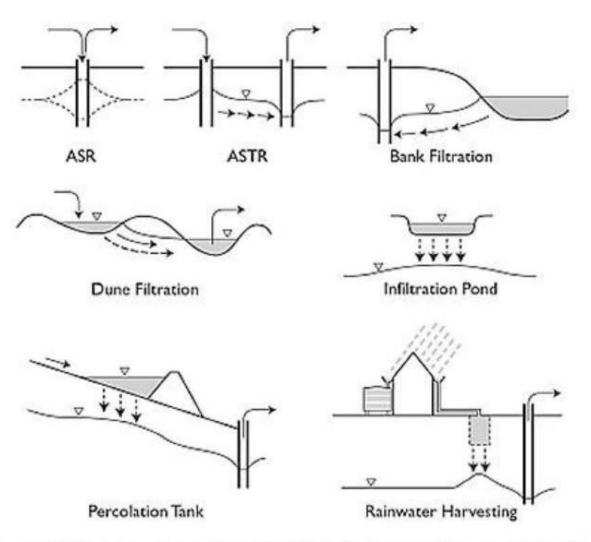
*Compatible water quality







What is needed for an AR project?



Most common MAR techniques (Gale and Dillon 2005) ASR: Aquifer Storage and Recovery; ASTR: Aquifer Storage Transfer and Recovery

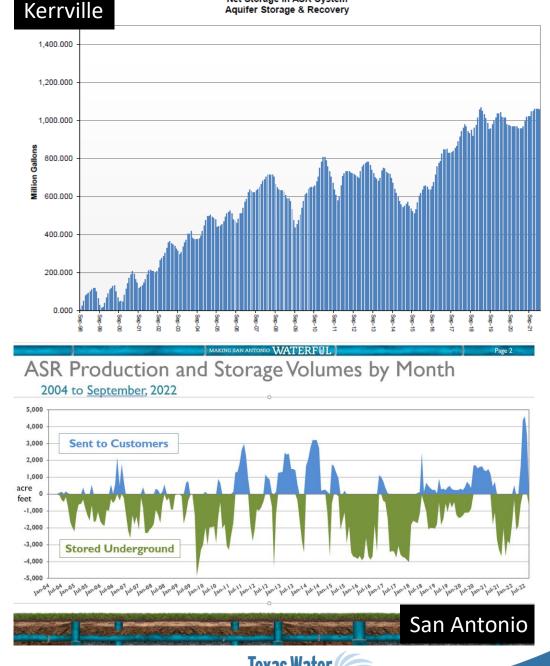
- Spreading methods
 - Infiltrations ponds or basins
 - Flooding
 - Ditch or furrow development
 - Irrigation
- Induced bank infiltration
- Channel modification or diversion.
 - Recharge dams
 - Sand dams
 - Channel spreading
- Runoff harvesting
 - Barriers
 - Trenches
- Reclaimed water reuse
 - Treatment effluent
 - Wastewater





Existing ASR and AR in Texas

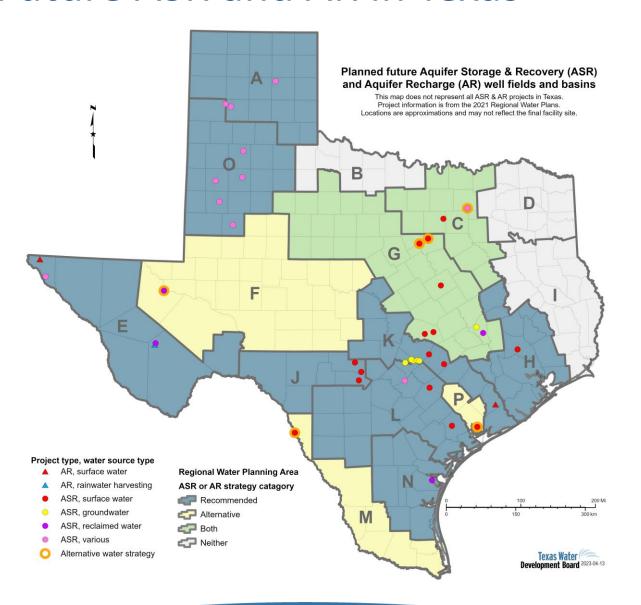
- 7 operational (3 ASR, 4 AR)
- 5 are pilot testing, 4 have authorizations
- Scales vary greatly
- Existing supply is difficult to estimate for many of the facilities
- Kerrville
 - ~3,000 acre-feet stored (March 2022)
- San Antonio,
 - ~186,000 acre-feet stored (October 2022)



Net Storage in ASR System



Future ASR and AR in Texas



88th Texas Legislature (2023)

- SB 28 New water supply for Texas fund
- SB 2379 ASR in eastern Williamson County

State Water Plan (2022)

- 10 of 16 regional water planning groups
- 193,000 acre-feet per year in 2070, 3% of the total
- 37 ASR well fields, 3 AR surface infiltration facilities
- \$2.7B total capital costs, \$18.5M median capital cost per project, \$39-\$1,330/acre-foot

Hurdles

- Available source water
- Regulations
- **Economics**
- Public perception and expectations

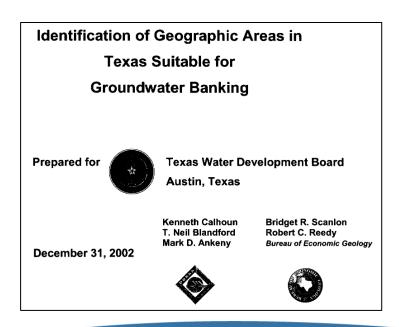


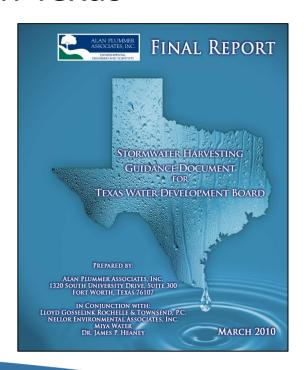




2000-2011, contracted reports

- 2002 Groundwater banking report for water plans
- 2010 Stormwater potential for water plans
- 2011 Assessment of ASR in Texas





An Assessment of Aquifer Storage and Recovery in Texas



Report

by Malcolm Pirnie, Inc ASR Systems, LLC Jackson, Sjoberg, McCarthy & Wilson, LLP

In Cooperation with

El Paso Water Utilities Board City of Kerrville, Texas San Antonio Water System



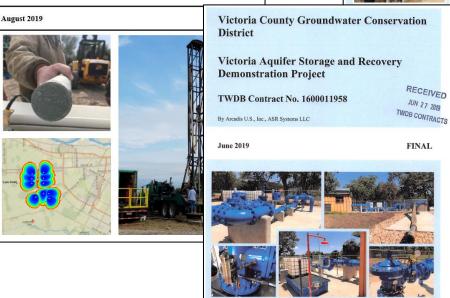




2013-2018 grants

- 2015: House Bill 1, Rider 25
 - \$1M Grant
 - Corpus Christi ASR Feasibility
 - New Braunfels ASR Demonstration
 - Victoria ASR Demonstration





Development Board

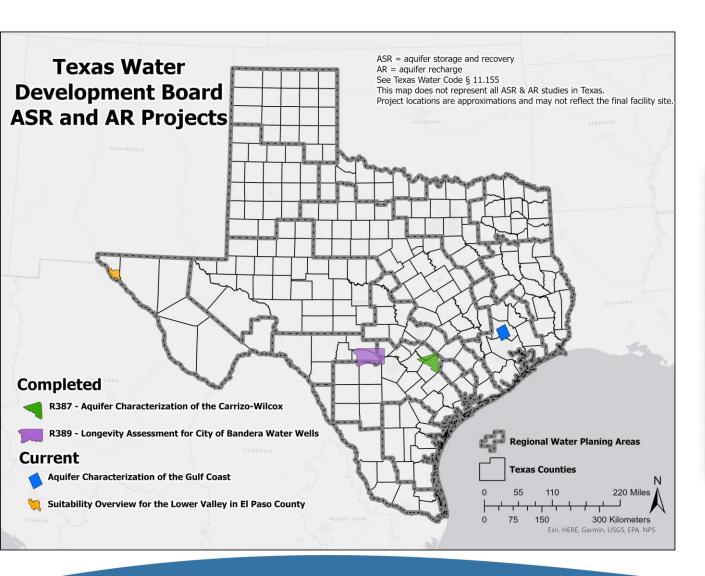


2019-2020, staff +survey

- 2019: House Bill 721
 - 3 full time positions
 - Funding for a survey of ASR or AR suitability
- 2020: Statewide survey of aquifer suitability for ASR or AR projects in Texas



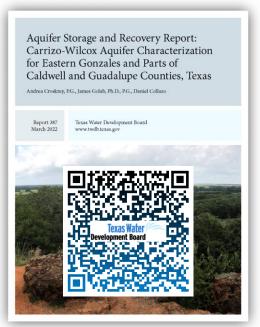
2020 to present



Completed:

Report 387 & Report 389

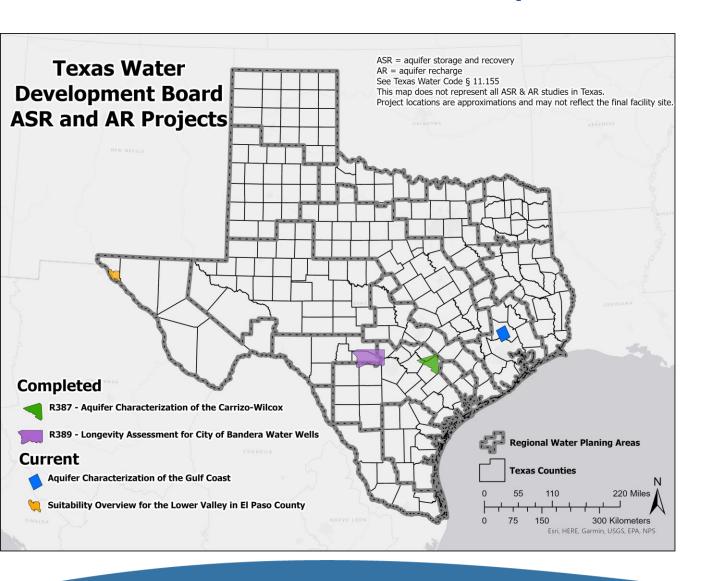
Development Board







2020 to present, continued



- Lower Valley Water District
 - Hueco aquifer in El Paso County
 - Analysis complete, writing
- San Jacinto River Authority
 - Gulf Coast aquifer mostly in **Montgomery County**
 - On hold for position backfill
- Summary of Edwards and Trinity aquifer MAR in Texas

Goals, Mandate, & Plans

Goals

- Disseminate information through public education
- Consolidate and map all available study materials
- Facilitate the application of best practices among entities considering aquifer storage and recovery

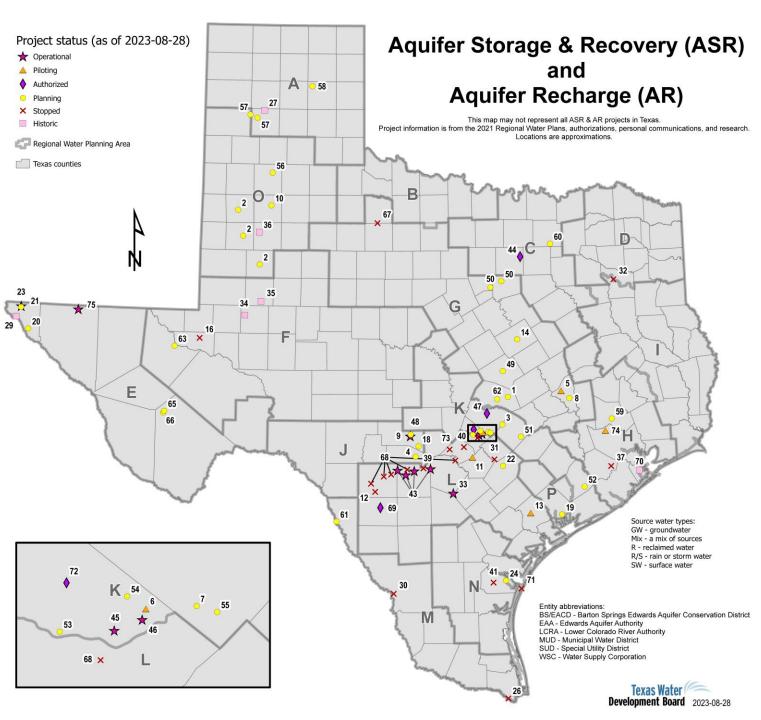
www.twdb.texas.gov

Plans

- Known MAR planning in TX:
 - 9 authorized or pilot testing
 - 35 in various planning stages
- MAR accounts for over 2.5% of planned new water supplies by 2070 (2022 State Water Plan)

Mandate

- Texas Water Code §11.155
- Conduct ASR or AR studies
- Work with and report the results to water planners, engineers, government officials, and other appropriate interested persons that may be investigating the development of ASR and AR projects within Texas.



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TWDB ASR & AR Program

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