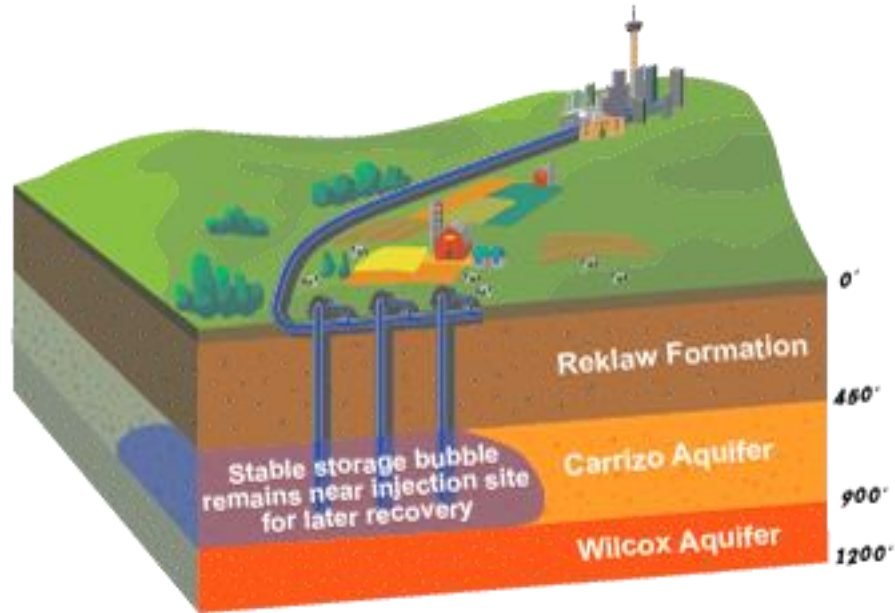


ASR Program, Past and Future



A map of the San Antonio area showing the Edwards Aquifer and Carrizo-Wilcox Aquifer. The Edwards Aquifer is shown in brown and the Carrizo-Wilcox Aquifer in green. A box labeled "Wells with Reduced Pumping" is located in the northern part of the map, near the cities of Naco, Stahl, Maltsberger, and Randolph. A box labeled "Twin Oaks WTP" is located near the city of San Antonio. A box labeled "SAWS ASR Well Field" is located near the city of Floresville. The map also shows major roads (Interstates 10, 35, 82, 83, 87, 90, 97, 1604, 281) and rivers (Guadalupe River, Cibola Creek, Medina River, San Antonio River). A north arrow and a scale bar are located in the bottom right corner.



ASR Requirements in the HCP

- **Total water rights required for ASR plan – 50,000 acre-feet (AF)**
- **3 tiers of 16,666 AF each:**
 - Tier I – straight lease for filling**
 - Tier II – standby until 10-yr recharge average < 572,000 AF, then fill or forbearance**
 - Tier III – standby until 10-yr recharge average < 472,000 AF, then fill or forbearance**



ASR Leasing History and Projections

EAHCP STAFF

ATTACHMENT 4

	Phase I							Phase II							
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Yearly Leases (AF)	2,669	6,202	14,850	33,259	7,789*	7,739	6,739	5,989	4,626	4,626	4,543	4,542	3,275	2,654	2,252
CPM Reduction	30.0%	35.0%	22.1%	???											
Storage (AF)	1,868	4,031	11,575	33,259											
Cumulative Storage (AF)	1,868	5,899	17,474	50,733											
New 10-yr leases beginning 2018						6,498	6,498	6,498	6,498	6,498	6,498	6,498	6,498	6,498	6,498
Subtotal					7,789	14,238	13,238	12,487	11,125	11,125	11,041	11,040	9,773	9,152	8,750
Estimated CPM Reduction (average for 2008 through 2015)					17.3%	17.3%	17.3%								
Storage (AF)					6,442	11,774	10,947								
Projected Cumulative Storage (AF)					57,175	68,949	79,897								
	assumes all 1-year leases for 2016 (31,994 AF) cancel and all 2015 1-year leases that rolled over into *2016 cancel; in 2015, 62% of 1-year leases cancelled														



ASR Leasing History and Projections

ATTACHMENT 4

ASR Leasing and Storage (AF)

