

# Use of the SAWS ASR for Springflow Protection

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**Optimization through Proposed Adaptive Management**

# Current Program Requirements

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leasing 16,667 acre-feet of groundwater for storage in the SAWS ASR **immediately**;

leasing an additional 16,667 acre-feet of groundwater through a lease option that is called when the Ten-year Rolling Average of the Estimated Annual Recharge to the Aquifer falls **below 572,000** acre-feet per annum; and

leasing a final 16,667 acre-feet of groundwater through a lease option that is called when the Ten-year Rolling Average of the Estimated Annual Recharge to the Aquifer falls **below 472,000** acre-feet per annum.)

# ASR – A Response to Circumstances

2012 = 10 YEAR AND 15 YEAR OPTIONS

2013 (JANUARY) = ADDED A 7 YEAR OPTION

2013 (OCTOBER) = ADDED 1 YEAR, 3 YEAR, AND 5 YEAR OPTIONS

2015 = EAA INCREASED THE PRICING STRUCTURE FOR ALL OPTIONS

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# Fill, Baby, Fill

(goal: 90k by 2019)

Lease Options	Acre-feet of Groundwater
2012 (10 and 15 year)	0
2013	1,900
2014 (with shorter options)	4,000
2015 (after price change)	12,000
2016 (focusing on 1 year commitments)	33,300
2017 (focusing on 1 year commitments)	32,600
Total	83,800

# Short on Long

FOR 2018, THE EAA HOLDS APPROXIMATELY 40,500 A/F OF  
LEASED WATER

(24,000 A/F = 1 YEAR LEASES)

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# Springflow Protection Goals/Objectives

**NO CHANGES ARE PROPOSED.**

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## Bottom-Up Analyses Results for ASR Lease Trigger Scenarios

Year	ASR Lease Trigger Scenarios					
	Original HDR Assumptions	J-17 < 635 ft on Aug. 1 prior year	J-17 < 636 ft on Aug. 1 prior year	J-17 < 637 ft on Aug. 1 prior year	J-17 < 641 ft on Aug. 1 prior year	10-yr Avg Rechg < 500k Acre-feet two years prior
1947	ASR2	VC	VC	VC	VC	VC
1948	ASR2	VC	VC	VC	ASR3	ASR3
1949	ASR3	ASR3	ASR3	ASR3	ASR3	ASR3
1950	ASR2	VC	ASR3	ASR3	ASR3	ASR3
1951	ASR3	ASR3	ASR3	ASR3	ASR3	ASR3
1952	ASR3	ASR3	ASR3	ASR3	ASR3	ASR3
1953	ASR3	ASR3	ASR3	ASR3	ASR3	ASR3
1954	ASR3	ASR3	ASR3	ASR3	ASR3	ASR3
1955	ASR3	ASR3	ASR3	ASR3	ASR3	ASR3
1956	ASR3	ASR3	ASR3	ASR3	ASR3	ASR3
1957	ASR3	ASR3	ASR3	ASR3	ASR3	ASR3
1958	ASR3	VC	VC	ASR3	ASR3	ASR3
Comal Min. Flow 8/31/1956	29.71	28.64 cfs	29.32 cfs	29.32 cfs	29.8 cfs	29.8 cfs
San Marcos Min. Flow 8/31/1956	48.11	47.84 cfs	47.95 cfs	47.95 cfs	48.03 cfs	48.03 cfs

VC = VISPO and Conservation implemented in addition to critical period reductions

ASR2 = ASR tiers 1 and 2 triggered in addition to VC and critical period reductions

ASR3 = ASR Tiers 1-3 triggered in addition to VC and critical period reductions



# Proposed Program Amendments

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Three tiers will be replaced by two tiers;

The first tier will be outright leases in a sliding scale from 16,667AF/yr to 10,000 AF/yr over the duration of the ITP;

The second tier will be forbearance agreements on a sliding scale from 33,333 AF/yr to 40,000 AF/yr over the duration of the ITP – dependent upon the amount of water contained in the tier one leases; and

Forbearance will be required in the Calendar Year following the year in which the EAA receives the Estimated Annual Recharge to the Aquifer and the Ten-year Rolling Average is  $\leq$  500,000 AF.

Questions?