

# SAWS Aquifer Storage & Recovery

Project in Support of HCP Implementation

**Patrick Shriver**

Water Resources Project Coordinator

December 19, 2013

HCP Meeting of Joint Interests /Year-End

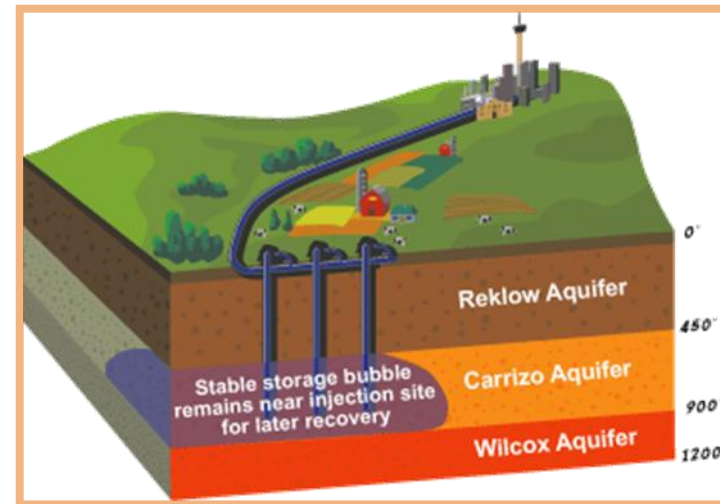


# Outline

- HCP ASR Project Overview
- 2013 Milestones
  - HCP Approval
  - Contract Approval
  - Notice of Availability (NOA)
- Required Meetings Summary
- Accounting
- Annual Reporting
- 2014 Outlook

# HCP ASR Project Overview

- SAWS ASR
  - Store water for SAWS and the Region for various drought responses while contributing to springflow protection
- Forebear
  - SAWS North East Service area Edwards pumping; limited by contractual terms



# Contribution to Springflow Protection

## Implementing the HCP

- **Flow Management**

### Phase I Components

- VISPO Dry Year Option
- Regional conservation
- San Antonio Water System (SAWS) ASR commitment
- Stage V additional 4% water use curtailments

### If necessary, Phase II Components

- Expanded use of the ASR through SAWS Water Resources Integration Pipeline
- Additional pumping reductions to be determined

- **Habitat Management**

### Phase I Components

- Improve habitat surrounding both spring complexes
- Environmental restoration and protection areas with research component – protection in the wild
- Refugia - protection in captivity
- Bio-Monitoring
- Low impact development considerations around critical habitat (water quality)
- Implement specific species protection measures (i.e. Recreation Management)

# 2013 Milestones

- January
  - Begin Intergovernmental Contract development (IGC)
- March
  - HCP/ITP approved by USFWS
- August
  - Execute the IGC in support of the HCP
- October 9<sup>th</sup> – EAA delivered first notice of availability (NOA) for SAWS to store water
  - 2,669 acre-feet of permits
  - **1,868** acre-feet after CPM

# 2013 Meetings

- SAWS ASR Advisory Group
  - 2<sup>nd</sup> Quarter; April 12<sup>th</sup> {SAWS Service area working with Twin Oaks ASR facility complexity}
  - 3<sup>rd</sup> Quarter; September 19<sup>th</sup> {EAA/SAWS legal provide detailed contract presentation and staff a visual of how forbearance works}
  - 4<sup>th</sup> Quarter; December 12<sup>th</sup> {2013 Review, Annual Reporting, Forecasting and ASR facilities tour}
- EAA / SAWS Workgroup
  - 3<sup>rd</sup> Quarter; September/October {SAWS contact Program Manager}
  - 4<sup>th</sup> Quarter; December 5<sup>th</sup> {Team, Charges and Forecasts}

# Master Recharge

## Accounting

- Start cumulative ASR Stored
  - 94,917 acre-feet
- Recovery of SAWS stored water
  - 14,712 acre-feet (Jan. – partial Sept.)
    - Local Carrizo 6,649 acre-feet / Total **21,361** acre-feet
- Recharge storage began 9/17
- HCP water stored Oct. and Nov.
- End cumulative ASR Stored
  - *88,403 acre-feet projected*
    - 1,868 Regional

Master Recharge  
Meter - Artesia

# Development of a Water Ledger

Date	Cumulative	SAWS Debit	SAWS Credit	HCP Debit	HCP Credit
1/1/2013	94,917	14,712	<i>6,330</i>	-	1,868
<i>1/1/2014</i>	<i>88,403</i>				

**Note – Gray italics represent estimate**





# Annual Report

- EAA / Environmental Consultants (SWCA) Template due 12/22
  - 90% complete; require end of year data to complete
- Circulate SAWS Advisory Group shortly after as required by the contract
  - 10 business day review Q&A
- All final reporting will be open to Implementing Committee and other stakeholders review throughout early 2014 process

# 2014 Outlook

- SAWS internally reviews weekly
  - Mathematical / statistical model
  - Precipitation on J-17
- SAWS operations / ASR Recovery mode Jan.
  - Recovering water SAWS has previously stored
  - Increase rate as demand increases
- Jan. – Feb. / drier
- March – June / equal chances
- Second half of the year July – Dec.
  - Models trending **El Niño**

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