

Capital Improvements Advisory Committee

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Overview of Presentation

Updates on:

- Edwards Acquisitions / ASR storage
- Filling the gaps
 - 2009 WMP
 - Existing supplies
 - New drought scenario (2010)
- 2009 drought experience
- Regional Carrizo
- Brackish Groundwater Desal
- Current risks to projects



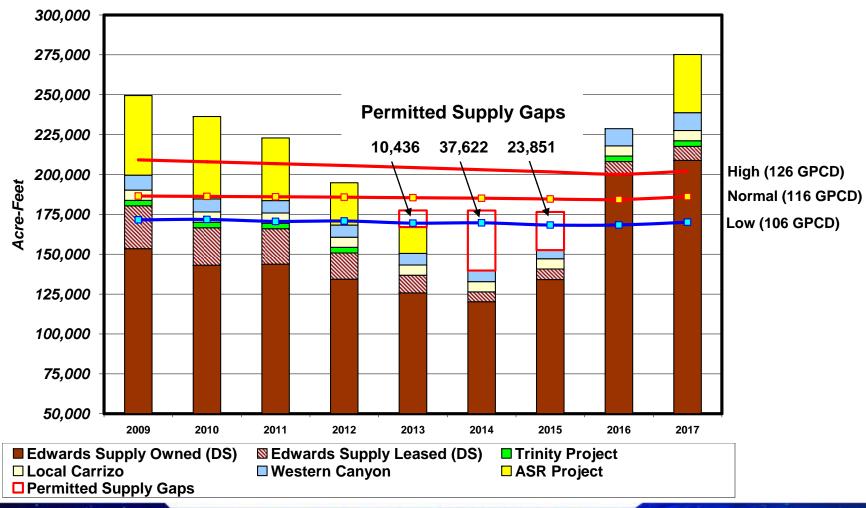
Successful Edwards Acquisitions (Acre-Feet) Brief History

By Year and Type

Year	Leases	Purchases	Other
2006	597	433	
2007	8,991	2,331	
2008	11,323	9,482	
2009	15,537	10,662	
Totals	36,448	22,908	2,672

Filling the Gaps

Permitted Supply Gaps Identified in 2009 WMP

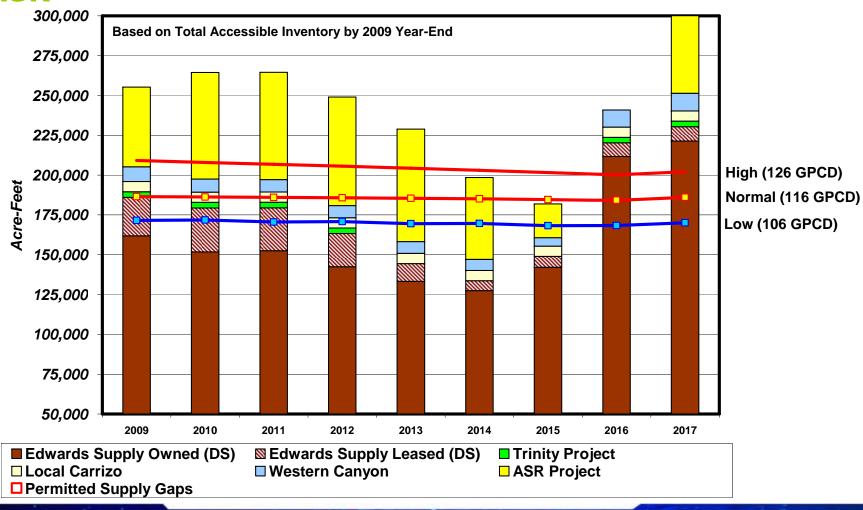


May 19, 2010

Water Management Plan Update



Filling the Gaps Impact of Added Edwards Supplies and Increased ASR

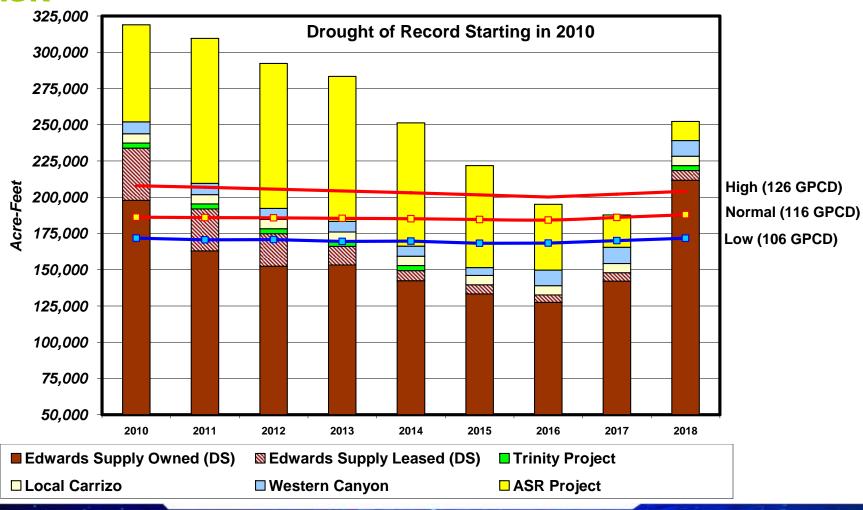


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Water Management Plan Update



Filling the Gaps Impact of Added Edwards Supplies and Increased ASR



May 19, 2010

Water Management Plan Update



Filling the Permitted Supply Gap*

Permitted Supply Gap

2014 37,000 ac-ft

2034 81,000 ac-ft

2060 141,000 ac-ft

Short Range Program (thru 2014)

Maintain Current Edwards Inventory (Lease Quantity = 26,000 ac-ft) Acquire Edwards Permits (2,000 ac-ft/yr thru 2014)

Brackish Desalination

Current Aquifer Storage & Recovery

Integration Pipeline

Mid Range Program (2015-2034)

Maintain Current Edwards Inventory (Lease Quantity = 11,000 ac-ft)

Recharge Enhancement

Regional Carrizo, Acquire Edwards permits, or Expanded Brackish Desal

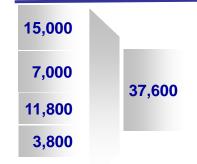
Current Aquifer Storage & Recovery

Recharge and Recirculation

Long Range Program (2035-2060)

Future Aquifer Storage & Recovery
Other Groundwater Supplies
Ocean Desalination
LCRA

Planned Firm Supplies



6,400 13,451 11,687 47,538

16,000

TBD National
Leader in
Recycled Water

75,600 and

Conservation

Maye,129022010

*Assuming the Single Worst Year of the Drought of Record

Water Mapagement Plank And Management Plan



Edwards Activity

- Over \$118.1 million has been spent on Edwards purchases since 2006
- Program has been a success
 - Exceeded short-term goals (WMP)
 - Provided the additional supply for storage at ASR which is now at approximately 66,000 acre-feet of storage
- Looking forward
 - Continue to convert leases to permanent
 - Continue to purchase Edwards water
 - Hold on execution of new leases
 - Stay engaged in various groundwater regulatory efforts



2009 Drought Experience

- Direction from SAWS Board of Trustees provided sound policy and management to allow for effective proactive drought responses
- Internal teams key to recommendations on ASR and resourcing needs
- External Communications managed numerous media requests and maintained a positive image through education

2009 Drought Experience

- SAWS customers responded to the call for additional management of demand, saving approximately 30,000 af
- Our overall financial position remains strong despite drought followed by unusual rainfall
- No adverse impacts to business activities due to drought



Regional Carrizo Project

- Water Management Plan Description
 - Permit applications to produce and transport 11,687 AF per year are now pending at GCUWCD
 - Anticipate decision from GCUWCD in June 2010
 - If decision is favorable to SAWS and not appealed to District Court, water delivery to San Antonio by 2015
 - If decision is appealed, schedule could be impacted by several years
 - New pipeline to southern Bexar County (Twin Oaks ASR)
 - Decision point for pipeline estimated in 2010
 - Project is "preferred choice" to fill portion of mid-term supply gap





Regional Carrizo Project - SSLGC/CRWA

- Continue to work on possible agreement with SSLGC
 - Share pipeline and treatment plant
- Deliver SAWS water and any excess water from SSLGC system and/or CRWA
 - CRWA has 3,000 acre-feet of Gonzales water
- Possible additional partnership opportunities with local entities in Gonzales County
 - City of Nixon
 - City of Smiley
 - Gonzales County Water Supply Corporation



Regional Carrizo Project - Costs to Date

December 31, 2009

O&M Cost

CIP Cost

Total Cost

\$11,300,000

\$28,000,000

\$39,300,000



Regional Carrizo Project - Projected Cost Estimate

	Current Delivery To		Delivery To Naco	
	Twin Oaks (ASR)*		PS Through SSLGC*	
AF Delivery		11,138		11,138
Capital Supply	\$	223,993,423	\$	76,611,452
Supply Cost/Per AF	\$	1,647	\$	1,442
Integation	\$	29,410,182	\$	37,116,535
Integration Cost/AF	\$	216	\$	154
Total Capital	\$	253,403,605	\$	113,727,987
Total Cost/AF	\$	1,863	\$	1,596

^{*} Includes Written off Design Costs



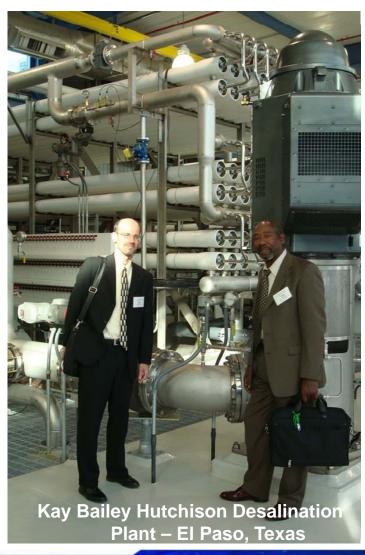
Brackish Groundwater Desalination

- Water Management Plan Description
 - Plant in Southern Bexar County
 - Source of water is the Wilcox aquifer
 - Phase 1 will be 11,800 AF/yr with the possibility of future expansion
 - Water delivery in 2014



Why Brackish Desalination?

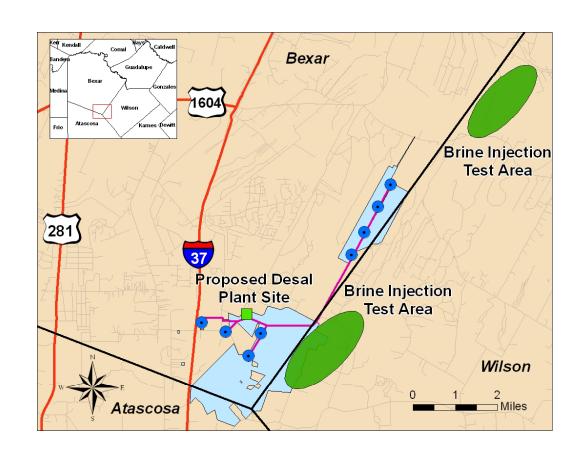
- Governor Perry's 2002
 Desalination Initiative
- Un-tapped resource
- "The Carrizo-Wilcox should be considered as one of the best potential sources for brackish water in Texas" (TWDB)
 - Over 300 million acre-feet in Region L alone
- Resource located under our feet, close to San Antonio





General Concept

- Production / Monitor Wells
- Reverse Osmosis
 Treatment Plant
- Brine Injection Wells
- Pipeline system
- Electrical system



What Have We Done So Far?

- Feasibility
 - Determined location of the brackish water
 - Drilled test sites
 - Determined long-term sustainability and quality
 - Investigated brine disposal options
 - Completed VSEP investigation
- Assisted in passage of new legislation for alternative procurement and streamlined permitting
- Pipeloop Testing
- Land acquisition





Recent Progress

- Secured \$35 million in TWDB deferred, low interest loans
- Membrane Pilot Testing
- Identified possible sites for brine injection testing
- Successful public outreach



What Challenges Do We Face?

- Brine Disposal finalize location and formation
- Restrictions & Regulations
- Land acquisition for various components of the project
- Location of complete well field for Phase 1
 - 8 out of 13 locations known
- Public Relations



Projected Timeline

What We Will Do this Year and Beyond

High Level Project Element	Projected Timeline	Estimated Cost
Feasibility, Pilot Test, Land	Authorized To Date	\$15 million
Award Design Well Field Package 1	Feb-10	\$1.1 million
Finalize Procurement Method	Mar-10	N/A
Design & Const. New Brine Injection Test Well	May-10	\$3 million
Test an Existing Injection Well	May-10	\$ 1 million
Land Acquisition	Jun-10	\$9 Million
Additional Pilot Testing	Jun-10	TBD
Engage Program Manager	Aug-10	\$18 million
Construction Well Field Package 1	Nov-10	\$10 million
State Permitting, pipeline system construction, plant construction and opening	2011-2015	128 Million
Plant Opening	2015	\$185 million

Cost per Acre Foot \$

1,924



Project Risks to be Managed

- Recovery Implementation Program (RIP)
- Groundwater district rules
- Permits
- Environmental flows
- Desired future conditions
- Future legislation
- Rate impacts





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