Proposed 2014 Water Supply Impact Fee

Darren Thompson

Director, Water Resources

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December 5, 2013

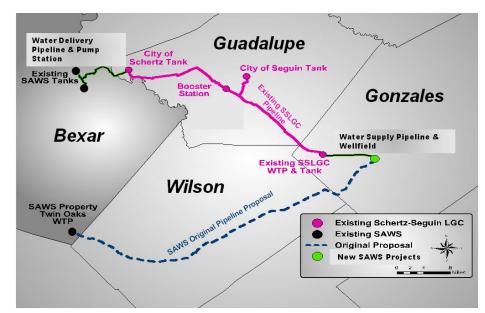


Outline

- SAWS Planned Water Resources
- Impact Fee Calculation
- Disclaimers

Regional Carrizo

- Regional Partnership with Schertz-Seguin Local Government Corporation (SSLGC)
- SAWS Permit 11,688 AFY
- Excess from SSLGC and Gonzales Water Supply Corporation 5,512 AFY
- Total 17,200 AFY (up to amount)
- Delivery began November 12



Regional Carrizo

- Mutual Regional Water Supply Contract
 - Gives SAWS ability to purchase SSLGC surplus water
 - Provides SSLGC an emergency supply
 - <u>Reduces cost</u> for all parties
- \$124.1 million estimated pre-2023 CIP
 - \$124.1 million pre-2014 CIP
 - \$0 2014-2023 CIP
- 13,138 AFY supply in 2023, or 37,443 EDUs
- Capital Cost = \$3,316 per EDU





Planned Supplies

Brackish Groundwater Desalination

- Three-Phase Program
 - Phase 1: 13,440 ac-ft/yr (2016)
 - Phase 2: 13,440 ac-ft/yr (2021)
 - Phase 3: 6,720 ac-ft/yr (2026)
 - Total: 33,600 ac-ft/yr
- \$280.5 million estimated pre-2023 CIP
 - \$188.4 million pre-2014 CIP
 - \$92.1 million 2014-2023 CIP
- 24,420 AFY supply in 2023, or **69,597 EDUs**
- Capital Cost = \$4,031 per EDU



Expanded Carrizo

- Works in cooperation with the ASR Local Carrizo offsite wells
- Will utilize property owned by SAWS
- \$29.4 million estimated pre-2023 CIP
 - \$0 million pre-2014 CIP
 - \$29.4 million 2014-2023 CIP
- 14,000 AFY supply in 2023, or **39,900 EDUs**
- Capital Cost = \$737 per EDU



Water Resources Integration Pipeline (WRIP)

- 45-mile integration pipeline
 - Phase I complete by 2016
 - Phase II complete by 2022
- \$235.7 million estimated pre-2023 CIP
 - \$29.2 million pre-2014 CIP
 - \$206.5 million 2014-2023 CIP
- Provides flexibility for transport of existing and future Twin Oaks supplies
- Cost prorated between ASR, desalination, local & expanded Carrizo





Water Supply Impact Fee Calculation

2014 to 2023 WATER SUPPLY IMPACT	T FEE ST	<u>'UDY</u>			=			==										
	+		CAPIT/	TAL COST			Tot	al Capacit	itv		Existing		\vdash	2014-202	23	Post 2023		3
							Acre			Total EDUs:	697,711	Cost	Total EDUs:	95,817	Cost			Cost
		Pre-2014	2014	14-2023		Total	Feet	MGD	EDUs		% Capacity	Share		% Capacity	Share	EDUs	% Capacity	Share
Existing Projects																		
Average Existing Edwards	\$	234,035,444			\$	234,035,444	215,477	192.4	614,109	598,949	97.5% \$	228,257,902	15,160	2.5%	\$ 5,777,543		0% \$	-
Local Carrizo	\$	14,823,566	\$	-	\$	14,823,566	7,400	6.6	21,090	20,569	97.5% \$	14,457,623	521	2.5%	\$ 365,944		0% \$, - /
Trinity-WECO,Oliver Ranch,BSR	\$	12,488,536			\$	12,488,536	6,760	6.0			97.5% \$						0% \$	
GBRA-Western Canyon	\$	14,179,261		-	\$	14,179,261	9,470	8.5		26,324	97.5% \$		666	2.5%			0% \$	
CRWA	\$		\$	-	\$	-	6,550	5.8		18,207	97.5% \$		461	2.5%			0% \$	
Medina System Surface Water	\$	18,700,000	\$	-	\$	18,700,000	5,350	4.8			97.5% \$		376				0% \$	
Total Existing Projects	\$	294,226,807		-	\$	294,226,807	251,007	224.1	715,371	697,711	97.5% \$			2.5%		-	0% \$	-
2014 to 2023 Projects																		
Average New Edwards			\$ 44	44,121,763	\$	44,121,763	7,106	6.3	20,253	-	0% \$, -	10,773	53.2%	\$ 23,468,175	9,481	46.8% \$	20,653,588
Regional Carrizo/SSLGC Delivery	\$	124,146,817			\$	124,146,817	13,138	11.7	37,443	-	0% \$, -	19,916	53.2%	\$ 66,033,155	17,527	46.8% \$	58,113,662
Desalination 2015 & 2021	\$	188,433,050		92,102,641	\$	280,535,691	24,420	21.8		-	0% \$		37,018	53.2%		32,579	46.8% \$	
Expanded Carrizo 2017 & 2022	\$			29,392,069		29,392,069	14,000	12.5		-	0% \$		21,223	53.2%		18,677	46.8% \$	
Integration Pipeline	\$	29,236,925		06,458,843		235,695,768		0.0		-	39% \$	91,155,477		24.9%		0	36.4% \$	
Total 2014 to 2023 Projects	\$	341,816,791		72,075,316		713,892,107	51,558	46	146,940	-	0% \$			53.2%		68,783	46.8% \$	
TOTALS		636,043,598	¢ 27	72,075,316	•	1,008,118,914	302.565	270	862,311	697,711		378,118,821	95.817		\$ 320,325,965	68.783	\$	309,674,129
TOTALS	1.0	030,043,530	\$ 312	2,075,316	<u>\$</u>	1,000,110,914	302,300	210	802,311	097,711	Φ	3/0,110,021	95,017		\$ 320,323,803	00,703	Ψ	309,074,129
Assumptions:																		
1. 1 EDU =	313 gall	lons/day (gpd)																
2. Conservation programming @ 135 gpd	ocd * 2.3 r	people/EDU = 31/	0.5 gpd/er	∍du														
3. 1 acre foot = 2.85 EDUs																		
4. Integration pipeline 75MGD capacity a	allocated	as: ASR, desalir	nation, loc	cal & expar	unded	J carrizo.												
The total pipiline cost is prorated based of	on 22.4 N	√IGD Edwards(AS	R), 6.6 M	√IGD Local C	Carri-	zo, 21.8 MGD De	salination, 12	.5 MGD ex	panded Car	rizo.								
plus 11.7 MGD for remaining phases of c	desalinati	on & expanded C	Carrizo for	r post 2023	cust	omers.												
5. Existing supplies based on average e	estimated	from 2014 to 207	23 assumi	ning drought	c of re	ecord during perio	.d.											

Water Supply Impact Fee Calculation

Disclaimers

 Capital figures presented here represent all capital costs prior to 2023. Some projects have capital costs after 2023, which is why capital figures might be different from previous water supply presentations, which included total capital costs for entire project.

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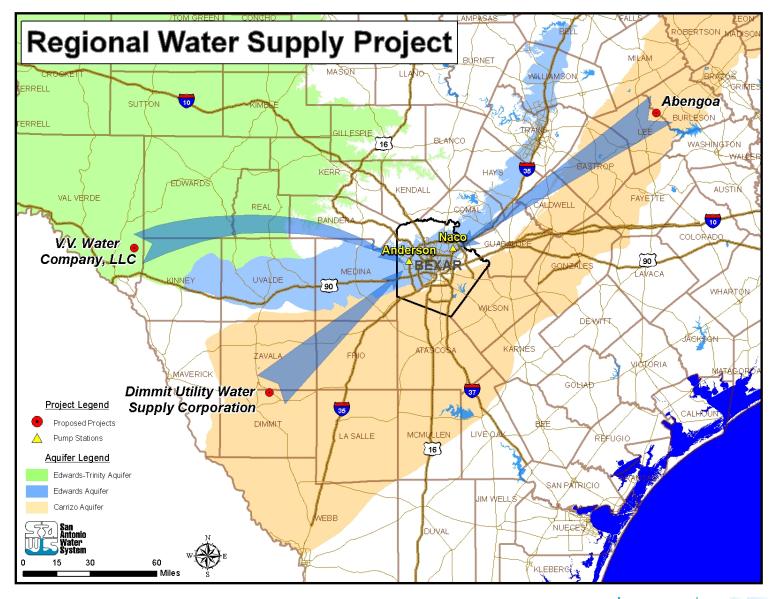
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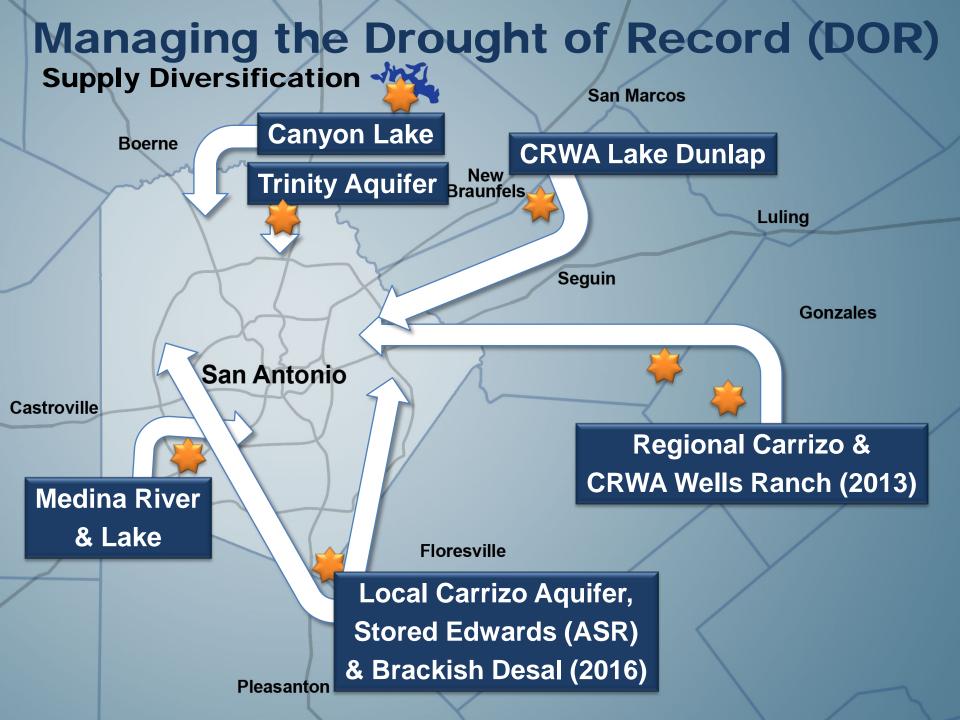
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Regional Water Supply Project

Integration

- Map
- Calculations

Edwards Aquifer MENARD BURNET MASON LLANO Upstream Recharge Zone (Typically Dry Streambed) lwards Aguiter Contributing Zone within the Transition Zone ENTERING BLANCO EDWARDS AQUIFER Edwards Plateau RECHARGE ZONE Recharge Enhancement KENDALL Confining CALDWELL REAL BANDERA GUADALUPE Glen Rose Edwards GONZALES Aquifer BEXAR MEDINA **Balcones Fault Zone**

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Twin Oaks Facility

ASR

•3rd-Largest in Nation

• "Savings account for

a sunny day"

•Currently ~80,000 acre-feet (AF) in

acre-feet (AF) in Atascosa storage, or six months of supply

- Local Carrizo
 - Additional 7,400 acre-feet per year (AFY)

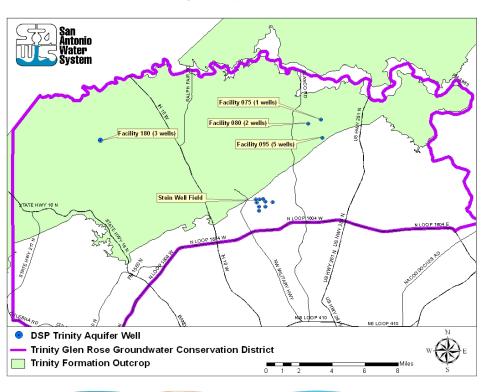
Bexar

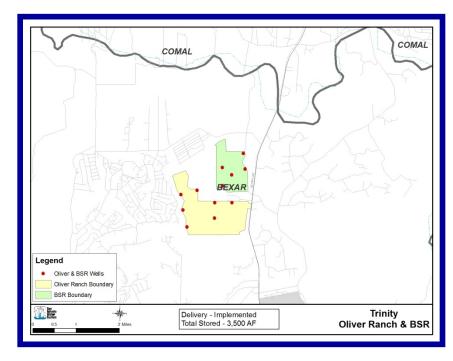




Trinity Aquifer

- WECo Stein Tract/Rogers Tract
- DSP Trinity Aquifer wells

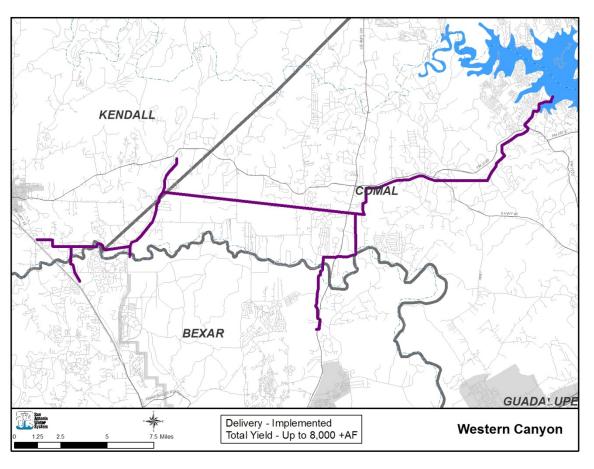




- Oliver Ranch: ~3,000 AFY
- BSR: ~500 AFY
- First Non-Edwards Supply for SAWS



Western Canyon



- Base 4,000 AFY (up to 11,000 AFY)
- 2005 2007
- First surface-water supply for SAWS
- Supplies north San Antonio
- Contract currently expires in 2037



Canyon Regional Water Authority (CRWA)

- Lake Dunlap 4,000 AFY*
- Wells Ranch 2,800 AFY (Carrizo)
- Total 6,800 AFY*
- Supply Assumptions
 - *500 AFY lease to Cibolo through 2018
 - Lake Dunlap supply may go away in 2024 as per agreement with Guadalupe-Blanco River Authority
 - Agreement with Canyon Regional Water Authority concerning Wells Ranch expires in 2047, extendable



Medina Lake

- Inherited from Bexar Met
- SAWS Lease from BMA = 19,974 AFY
- SAWS Run-of-River Rights = ~9,000 AFY
- SAWS Treatment Capacity = ~13,000 AFY











