

CURRENT WATER SUPPLY PROJECTS PROPOSED FROM 2011 TO 2020

	TOTAL			2011-2020			
	Capital Cost	Acre Feet	EDUs	EDUS	Capital Cost	Cost/EDU	
Direct Capital Costs							
Edwards Supply DOR		130,587					
Average Firm Edwards	\$0	32,073	91,408	39,384	\$0	\$0	
Brackish Groundwater Desalination	\$112,762,576	11,800	33,630	14,490	\$48,584,517	\$3,353	
Regional Carrizo	\$80,300,000	15,156	43,195	18,611	\$34,597,797	\$1,859	
Local Carrizo	\$13,800,000	6,400	18,240	7,859	\$5,945,823	\$757	
Subtotal Current and Future Facilities	\$206,862,576	65,429	186,473	80,343	89,128,137	\$1,109	Average Cost
Integration Pipeline	\$47,479,252		143,770	80,343	26,532,834	\$330	
Total Water Supply	\$254,341,828			80,343	\$115,660,971	\$1,440	
Rate Credit						\$143	
Maximum Water Supply Impact Fee						\$1,297	

Integration pipeline actual estimated cost is \$131.6 million for the 45MGD pipeline. Since Local Carrizo @ 5.7 MGD + Desalination @ 10.5 MGD, total 16.2 MGD of the 45 MGD, only 36% of the cost was included in the impact fee calculation.

Assumptions

130,587 AF of Edwards available during worst year of the DOR

130,587 AF committed to existing customers

all other sources available to meet existing and future demand

some Edwards available above worst year of DOR amount

short term shortages will be met through the ASR project

amount of Edwards available equal to average amount available during 10 year DOR scenario = 162,660 AF

so 32,073 available for current and future demand

2014 to 2023 WATER SUPPLY IMPACT FEE STUDY

	CAPITAL COST			Total Capacity			Existing			2014-2023			Post 2023		
	Pre-2014	2014-2023	Total	Acre Feet	MGD	Total EDUs	Total EDUs: EDUs	% Capacity	Cost Share	Total EDUs: EDUS	% Capacity	Cost Share	EDUs	% Capacity	Cost Share
Existing Projects															
Average Existing Edwards	\$ 234,035,444		\$ 234,035,444	215,477	192.4	614,109	598,948	97.5%	\$ 228,257,575	15,161	2.5%	\$ 5,777,870		0%	\$ -
Local Carrizo	\$ 14,823,566	\$ -	\$ 14,823,566	7,400	6.6	21,090	20,569	97.5%	\$ 14,457,602	521	2.5%	\$ 365,964		0%	\$ -
Trinity-WECO, Oliver Ranch, BSR	\$ 12,488,536	\$ -	\$ 12,488,536	6,760	6.0	19,266	18,790	97.5%	\$ 12,180,219	476	2.5%	\$ 308,317		0%	\$ -
GBRA-Western Canyon	\$ 14,179,261	\$ -	\$ 14,179,261	9,470	8.5	26,991	26,324	97.5%	\$ 13,829,203	666	2.5%	\$ 350,058		0%	\$ -
CRWA	\$ -	\$ -	\$ -	6,550	5.8	18,668	18,207	97.5%	\$ -	461	2.5%	\$ -		0%	\$ -
Medina System Surface Water	\$ 18,700,000	\$ -	\$ 18,700,000	5,350	4.8	15,248	14,871	97.5%	\$ 18,238,334	376	2.5%	\$ 461,666		0%	\$ -
Total Existing Projects	\$ 294,226,807	\$ -	\$ 294,226,807	251,007	224.1	715,371	697,710	97.5%	\$ 286,962,932	17,661	2.5%	\$ 7,263,875	-	0%	\$ -
2014 to 2023 Projects															
Average New Edwards		\$ 44,121,763	\$ 44,121,763	7,106	6.3	20,253	-	0%	\$ -	9,468	46.7%	\$ 20,625,058	10,786	53.3%	\$ 23,496,705
Regional Carrizo/SSLGC Delivery	\$ 124,146,817		\$ 124,146,817	13,138	11.7	37,443	-	0%	\$ -	17,503	46.7%	\$ 58,033,387	19,940	53.3%	\$ 66,113,430
Desalination 2015 & 2021	\$ 188,433,050	\$ 92,102,641	\$ 280,535,691	24,420	21.8	69,597	-	0%	\$ -	32,534	46.7%	\$ 131,138,573	37,063	53.3%	\$ 149,397,118
Expanded Carrizo 2017 & 2022	\$ -	\$ 29,392,069	\$ 29,392,069	14,000	12.5	39,900	-	0%	\$ -	18,652	46.7%	\$ 13,739,549	21,248	53.3%	\$ 15,652,520
Integration Pipeline	\$ 29,236,925	\$ 206,458,843	\$ 235,695,768		0.0	-	-	39%	\$ 91,155,477		21.9%	\$ 51,590,575	0	39.4%	\$ 92,949,716
Total 2014 to 2023 Projects	\$ 341,816,791	\$ 372,075,316	\$ 713,892,107	58,664	52	167,194	-	0%	\$ 91,155,477	78,156	46.7%	\$ 275,127,142	89,038	53.3%	\$ 347,609,488
TOTALS	\$ 636,043,598	\$ 372,075,316	\$ 1,008,118,914	309,672	276	882,565	697,710		\$ 378,118,409	95,817		\$ 282,391,017	89,038		\$ 347,609,488
Proposed Fee before Rate Credit												\$2,947			
Rate Credit															295
Maximum Water Supply Impact Fee												\$ 2,652			

Assumptions:

- 1 EDU = 313 gallons/day (gpd)
- Conservation programming @ 135 gpcd * 2.3 people/EDU = 310.5 gpd/edu
- 1 acre foot = 2.85 EDUs
- Integration pipeline 75MGD capacity(239,617 EDUs) allocated as: ASR, desalination, local & expanded carrizo. The total pipeline cost is prorated based on 22.4 MGD Edwards(ASR), 6.6 MGD Local Carrizo, 21.8 MGD Desalination, 12.5 MGD expanded Carrizo. plus 11.7 MGD for remaining phases of desalination & expanded Carrizo for post 2023 customers.
- Existing supplies based on average estimated from 2014 to 2023 assuming drought of record during period.

	<u>Edwards</u>	Local <u>Carrizo</u>	<u>Trinity</u>	<u>GBRA</u>	<u>CRWA</u>	Medina <u>Plant</u>	Existing <u>Edwards</u>	New <u>Edwards</u>
2014	261249	7400	8800	7017	6300	13000	257333	3916
2015	216872	7400	8800	5410	6300	13000	212032	4840
2016	203427	7400	8800	10726	6300	1500	197419	6008
2017	205822	7400	8800	11151	6300	0	198279	7543
2018	194014	7400	8800	10778	6300	0	186904	7110
2019	185418	7400	2000	10399	6800	0	178623	6795
2020	172926	7400	2000	10136	6800	0	166589	6337
2021	196333	7400	2000	9920	6800	0	189138	7195
2022	284343	7400	8800	9667	6800	13000	273923	10420
2023	305430	7400	8800	9500	6800	13000	294530	10900
							0	
Average	222583.4	7400	6760	9470.4	6550	5350	215477	7106

2014 to 2023 WATER SUPPLY IMPACT FEE 'WHAT IF? SCENARIO" (DSP Supplies & Customers only)

	CAPITAL COST			Total Capacity			Existing			2014-2023			Post 2023		
	Pre-2014	2014-2023	Total	Acre Feet	MGD	Total EDUs	Total EDUs: EDUs	% Capacity	Cost Share	Total EDUs: EDUs	% Capacity	Cost Share	EDUs	% Capacity	Cost Share
Existing Projects															
Average Existing Edwards	\$ -		\$ -	26,469	23.6	75,437	77,768	103.1%	\$ -	0	0.0%	\$ -		0%	\$ -
Local Carrizo	\$ -	\$ -	\$ -	1,000	0.9	2,850	2,938	103.1%	\$ -	0	0.0%	\$ -		0%	\$ -
Trinity-WECO	\$ -	\$ -	\$ -	4,310	3.8	12,284	12,663	103.1%	\$ -	0	0.0%	\$ -		0%	\$ -
	\$ -	\$ -	\$ -	0	0.0	0	0	103.1%	\$ -	0	0.0%	\$ -		0%	\$ -
CRWA	\$ -	\$ -	\$ -	6,550	5.8	18,668	19,245	103.1%	\$ -	0	0.0%	\$ -		0%	\$ -
Medina System Surface Water	\$ 18,700,000	\$ -	\$ 18,700,000	5,350	4.8	15,248	15,719	103.1%	\$ 19,278,019	0	0.0%	\$ -		0%	\$ -
Total Existing Projects	\$ 18,700,000	\$ -	\$ 18,700,000	43,679	39.0	124,485	128,333	103.1%	\$ 19,278,019	0	0.0%	\$ -		0%	\$ -
2014 to 2023 Projects							Existing Supplies would not have supported existing BexarMet customers during drought of record.								
Average New Edwards		\$ -	\$ -	-	0.0	-	-	0%	\$ -	-	0.0%	\$ -	-	0.0%	\$ -
			\$ -	-	0.0	-	-	0%	\$ -	-	0.0%	\$ -	-	0.0%	\$ -
			\$ -	-	0.0	-	-	0%	\$ -	-	0.0%	\$ -	-	0.0%	\$ -
			\$ -	-	0.0	-	-	0%	\$ -	-	0.0%	\$ -	-	0.0%	\$ -
Total 2014 to 2023 Projects	\$ -	\$ -	\$ -	-	-	-	-	0%	\$ -	-	0.0%	\$ -	-	0.0%	\$ -
TOTALS	\$ 18,700,000	\$ -	\$ 18,700,000	43,679	39	124,485	128,333		\$ 19,278,019	-		\$ -	-		\$ -
Proposed Fee before Rate Credit												\$0			
Rate Credit															
Maximum Water Supply Impact Fee												??			

Assumptions:

- 1 EDU = 313 gallons/day (gpd)
- Conservation programming @ 135 gpcd * 2.3 people/EDU = 310.5 gpd/edu
- 1 acre foot = 2.85 EDUs
- The costs for DSP supplies were not available from BexarMet financial reports.
- Existing supplies based on average estimated from 2014 to 2023 assuming drought of record during period.

2014 to 2023 WATER SUPPLY IMPACT FEE "WHAT IF? SCENARIO" (without DSP)

	CAPITAL COST			Total Capacity			Existing			2014-2023			Post 2023		
	Pre-2014	2014-2023	Total	Acre Feet	MGD	Total EDUs	Total EDUs	% Capacity	Cost Share	Total EDUs	% Capacity	Cost Share	EDUs	Capacity	Cost Share
Existing Projects							569,377			68,836					
Average Existing Edwards	\$ 234,035,444	\$ -	\$ 234,035,444	189,008	168.7	538,673	516,573	95.9%	\$ 224,433,777	22,100	4.1%	\$ 9,601,668	-	0%	\$ -
Local Carrizo	\$ 14,823,566	\$ -	\$ 14,823,566	7,400	6.6	21,090	20,225	95.9%	\$ 14,215,406	865	4.1%	\$ 608,160	-	0%	\$ -
Trinity-WECO, Oliver Ranch, BSR	\$ 12,488,536	\$ -	\$ 12,488,536	2,450	2.2	6,983	6,696	95.9%	\$ 11,976,174	286	4.1%	\$ 512,362	-	0%	\$ -
GBRA-Western Canyon	\$ 14,179,261	\$ -	\$ 14,179,261	9,470	8.5	26,991	25,883	95.9%	\$ 13,597,534	1,107	4.1%	\$ 581,726	-	0%	\$ -
CRWA	\$ -	\$ -	\$ -	0	0.0	0	0	95.9%	\$ -	0	0.0%	\$ -	-	0%	\$ -
Medina System Surface Water	\$ -	\$ -	\$ -	0	0.0	0	0	95.9%	\$ -	0	0.0%	\$ -	-	0%	\$ -
Total Existing Projects	\$ 275,526,807	\$ -	\$ 275,526,807	208,328	186.0	593,736	569,377	95.9%	\$ 264,222,892	24,359	4.1%	\$ 11,303,916	-	0%	\$ -
2014 to 2023 Projects															
Average New Edwards	\$ -	\$ 44,121,763	\$ 44,121,763	7,106	6.3	20,253	-	0%	\$ -	5,388	26.6%	\$ 11,737,333	14,865	73.4%	\$ 32,384,430
Regional Carrizo/SSLGC Delivery	\$ 124,146,817	\$ -	\$ 124,146,817	13,138	11.7	37,443	-	0%	\$ -	9,961	26.6%	\$ 33,025,710	27,483	73.4%	\$ 91,121,106
Desalination 2015 & 2021	\$ 188,433,050	\$ 92,102,641	\$ 280,535,691	24,420	21.8	69,597	-	0%	\$ -	18,514	26.6%	\$ 74,628,498	51,083	73.4%	\$ 205,907,193
Expanded Carrizo 2017 & 2022	\$ -	\$ 29,392,069	\$ 29,392,069	14,000	12.5	39,900	-	0%	\$ -	10,614	26.6%	\$ 7,818,919	29,286	73.4%	\$ 21,573,150
Integration Pipeline	\$ 29,236,925	\$ 206,458,843	\$ 235,695,768	-	0.0	-	-	39%	\$ 91,155,477	-	12.7%	\$ 29,827,356	0	48.7%	\$ 114,712,934
Total 2014 to 2023 Projects	\$ 341,816,791	\$ 372,075,316	\$ 713,892,107	58,664	52	167,194	-	0%	\$ 91,155,477	44,477	26.6%	\$ 157,037,817	122,716	73.4%	\$ 465,698,813
TOTALS	\$ 617,343,598	\$ 372,075,316	\$ 989,418,914	266,993	238	760,929	569,377		\$ 355,378,369	68,836		\$ 168,341,733	122,716		\$ 465,698,813
<i>Proposed Fee before Rate Credit</i>												\$2,446			
<i>Rate Credit</i>												266			
<i>Approximate Maximum Water Supply Impact Fee if BexarMet was not included</i>												\$ 2,180			
<i>Proposed Maximum Fee</i>												\$ 2,652			
<i>Approximate Increase Due to DSP</i>												\$ 472			

Assumptions:

- 1 EDU = 313 gallons/day (gpd)
2. Conservation programming @ 135 gpcd * 2.3 people/EDU = 310.5 gpd/edu
3. 1 acre foot = 2.85 EDUs
4. Integration pipeline 75MGD capacity allocated as: ASR, desalination, local & expanded carrizo. The total pipeline cost is prorated based on 22.4 MGD Edwards(ASR), 6.6 MGD Local Carrizo, 21.8 MGD Desalination, 12.5 MGD expanded Carrizo. plus 11.7 MGD for remaining phases of desalination & expanded Carrizo for post 2023 customers.
5. Existing supplies based on average estimated from 2014 to 2023 assuming drought of record during period.

2014 to 2023 WATER SUPPLY IMPACT FEE STUDY

	CAPITAL COST		
	<u>Pre-2014</u>	<u>2014-2023</u>	<u>Total</u>
Existing Projects			
Average Existing Edwards	\$ 234,035,444	\$ -	\$ 234,035,444
Local Carrizo	\$ 14,823,566	\$ -	\$ 14,823,566
Trinity-WECO, Oliver Ranch, BSR	\$ 12,488,536	\$ -	\$ 12,488,536
GBRA-Western Canyon	\$ 14,179,261	\$ -	\$ 14,179,261
CRWA	\$ -	\$ -	\$ -
Medina System Surface Water	\$ 18,700,000	\$ -	\$ 18,700,000
Total Existing Projects	\$ 294,226,807	\$ -	\$ 294,226,807
2014 to 2023 Projects			
Average New Edwards	\$ -	\$ 44,121,763	\$ 44,121,763
Regional Carrizo/SSLGC Delivery	\$ 124,146,817	\$ -	\$ 124,146,817
Desalination 2015 & 2021	\$ 188,433,050	\$ 92,102,641	\$ 280,535,691
Expanded Carrizo 2017 & 2022	\$ -	\$ 29,392,069	\$ 29,392,069
Integration Pipeline	\$ 29,236,925	\$ 206,458,843	\$ 235,695,768
Total 2014 to 2023 Projects	\$ 341,816,791	\$ 372,075,316	\$ 713,892,107
TOTALS	\$ 636,043,598	\$ 372,075,316	\$ 1,008,118,914
Proposed Fee before Rate Credit			
Rate Credit			
Maximum Water Supply Impact Fee			

Assumptions:

1. 1 EDU = 313 gallons/day (gpd)
2. Conservation programming @ 135 gpcd * 2.3 people/EDU = 310.5 gpd/edu
3. 1 acre foot = 2.85 EDUs
4. Integration pipeline 75MGD capacity allocated as: ASR, desalination, local & expanded carrizo. The total pipeline cost is prorated based on 22.4 MGD Edwards(ASR), 6.6 MGD Local Carrizo, 21.8 MGD Desali plus 11.7 MGD for remaining phases of desalination & expanded Carrizo for post 2023 customers.
5. Existing supplies based on average estimated from 2014 to 2023 assuming drought of record during period.

<u>Total Capacity</u>			<u>Existing</u>			<u>2014-2020</u>	
<u>Acre</u>	<u>MGD</u>	<u>Total</u>	<u>Total EDUs:</u>	<u>697,710</u>	<u>Cost</u>	<u>Total EDUs:</u>	<u>95,817</u>
<u>Feet</u>		<u>EDUs</u>	<u>EDUs</u>	<u>% Capacity</u>	<u>Share</u>	<u>EDUS</u>	<u>% Capacity</u>
215,477	192.4	614,109	596,572	97.1%	\$ 227,351,817	17,538	2.9%
8,400	7.5	23,940	23,256	97.1%	\$ 14,400,232	684	2.9%
6,760	6.0	19,266	18,716	97.1%	\$ 12,131,886	550	2.9%
9,470	8.5	26,991	26,220	97.1%	\$ 13,774,327	771	2.9%
6,550	5.8	18,668	18,134	97.1%	\$ -	533	2.9%
5,350	4.8	15,248	14,812	97.1%	\$ 18,165,962	435	2.9%
252,007	225.0	718,221	697,710	97.1%	\$ 285,824,224	20,511	2.9%
7,106	6.3	20,253	-	0%	\$ -	9,122	45.0%
13,138	11.7	37,443	-	0%	\$ -	16,865	45.0%
24,420	21.8	69,597	-	0%	\$ -	31,347	45.0%
14,000	12.5	39,900	-	0%	\$ -	17,971	45.0%
0	0.0	-	-	40%	\$ 93,961,019	-	21.2%
58,664	52	167,194	-	0%	\$ 93,961,019	75,306	45.0%
310,672	277	885,415	697,710		\$ 379,785,243	95,817	

ination, 12.5 MGD expanded Carrizo.

<u>23</u>	<u>Cost Share</u>	<u>Post 2023</u>		<u>Cost Share</u>
		<u>EDUs % Capacity</u>		
\$	6,683,627	0%	\$	-
\$	423,334	0%	\$	-
\$	356,650	0%	\$	-
\$	404,934	0%	\$	-
\$	-	0%	\$	-
\$	534,038	0%	\$	-
\$	8,402,583	-	0%	\$ -
\$	19,872,954	11,131	55.0%	\$ 24,248,809
\$	55,917,166	20,578	55.0%	\$ 68,229,650
\$	126,356,530	38,250	55.0%	\$ 154,179,161
\$	13,238,529	21,929	55.0%	\$ 16,153,540
\$	49,905,374	0	39.0%	\$ 91,829,375
\$	265,290,553	91,888	55.0%	\$ 354,640,536
\$	273,693,136	91,888		\$ 354,640,536
	\$2,856			
	295			
\$	2,561			