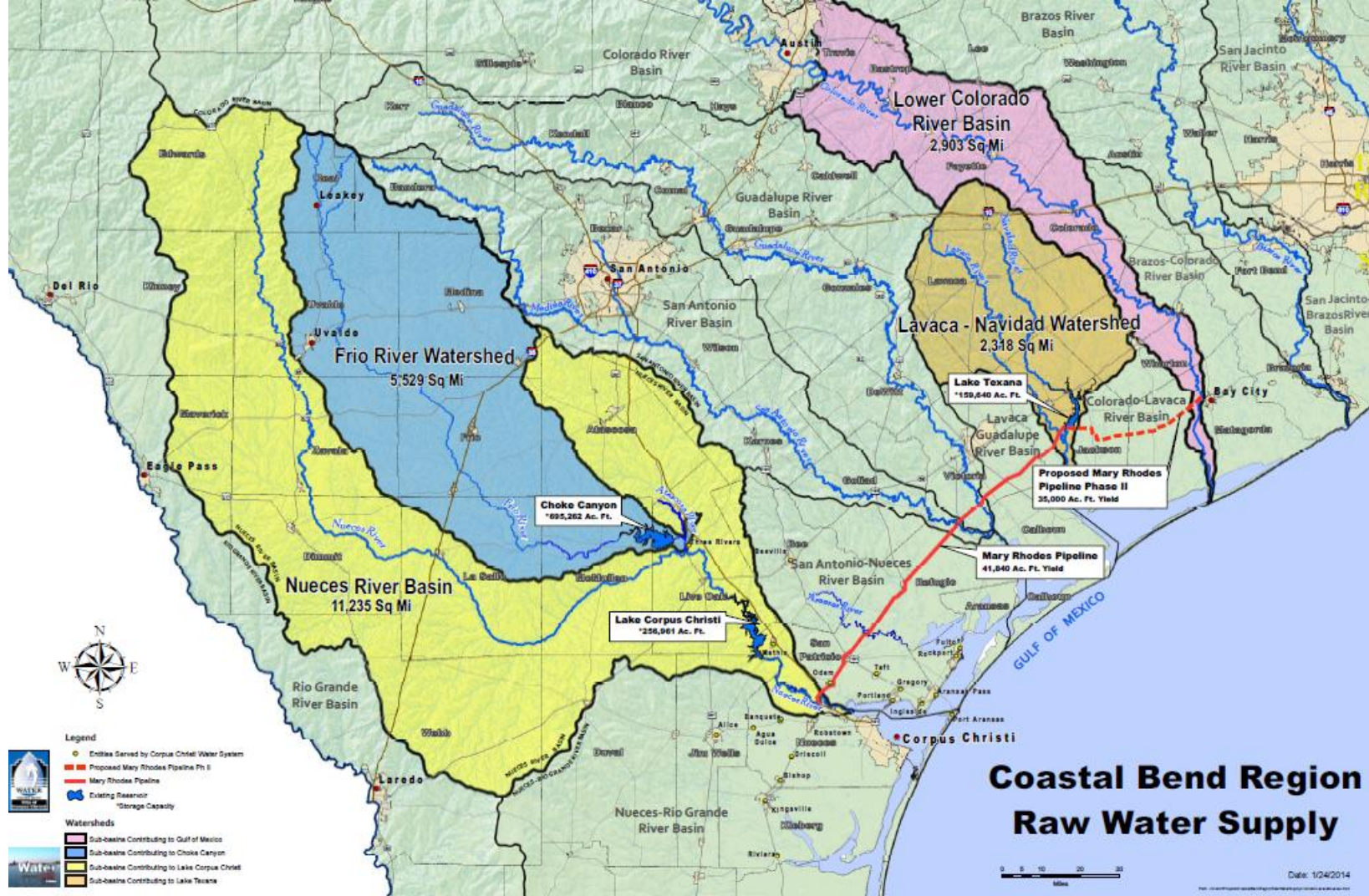


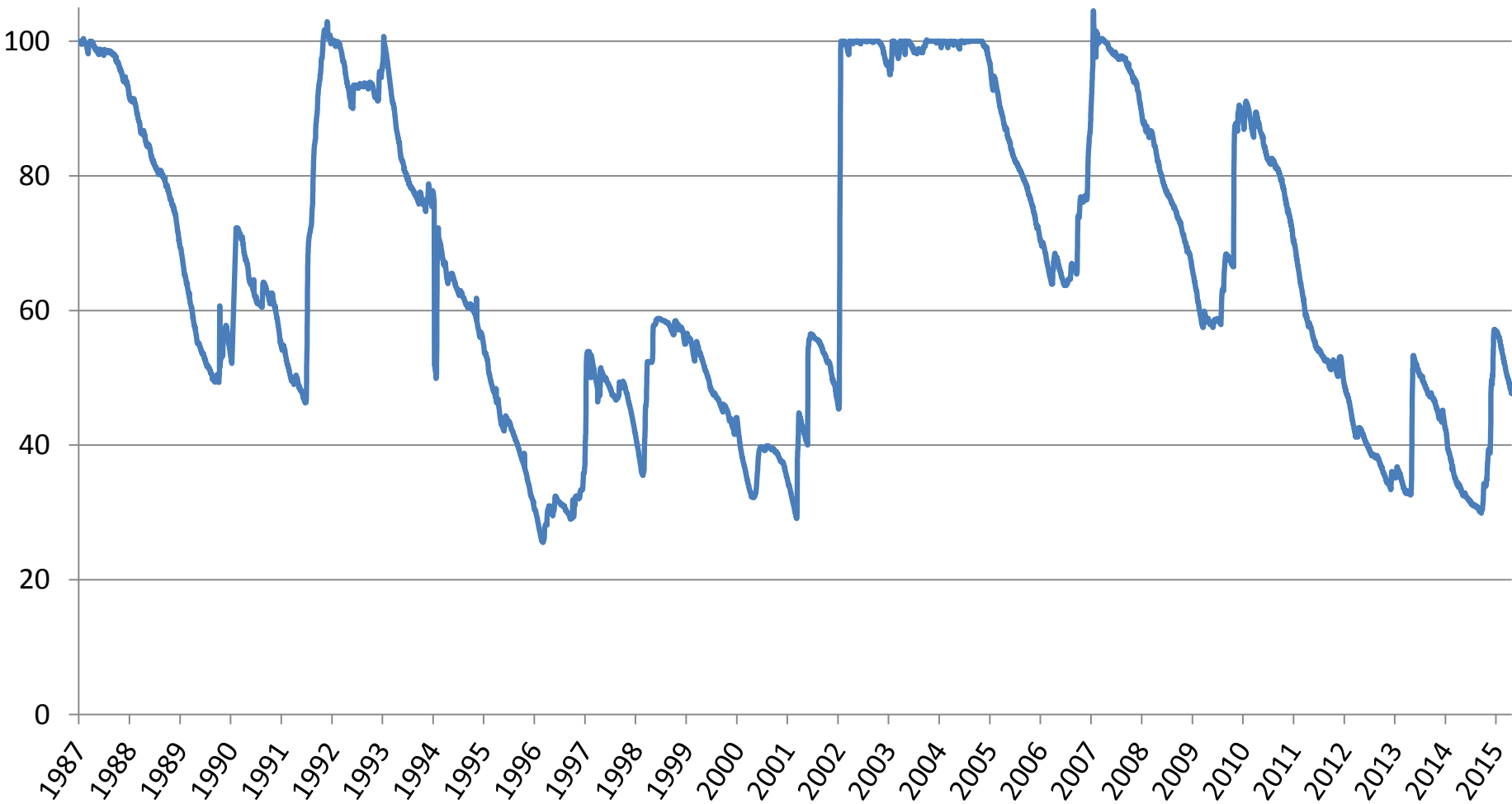
City of Corpus Christi Water Resources

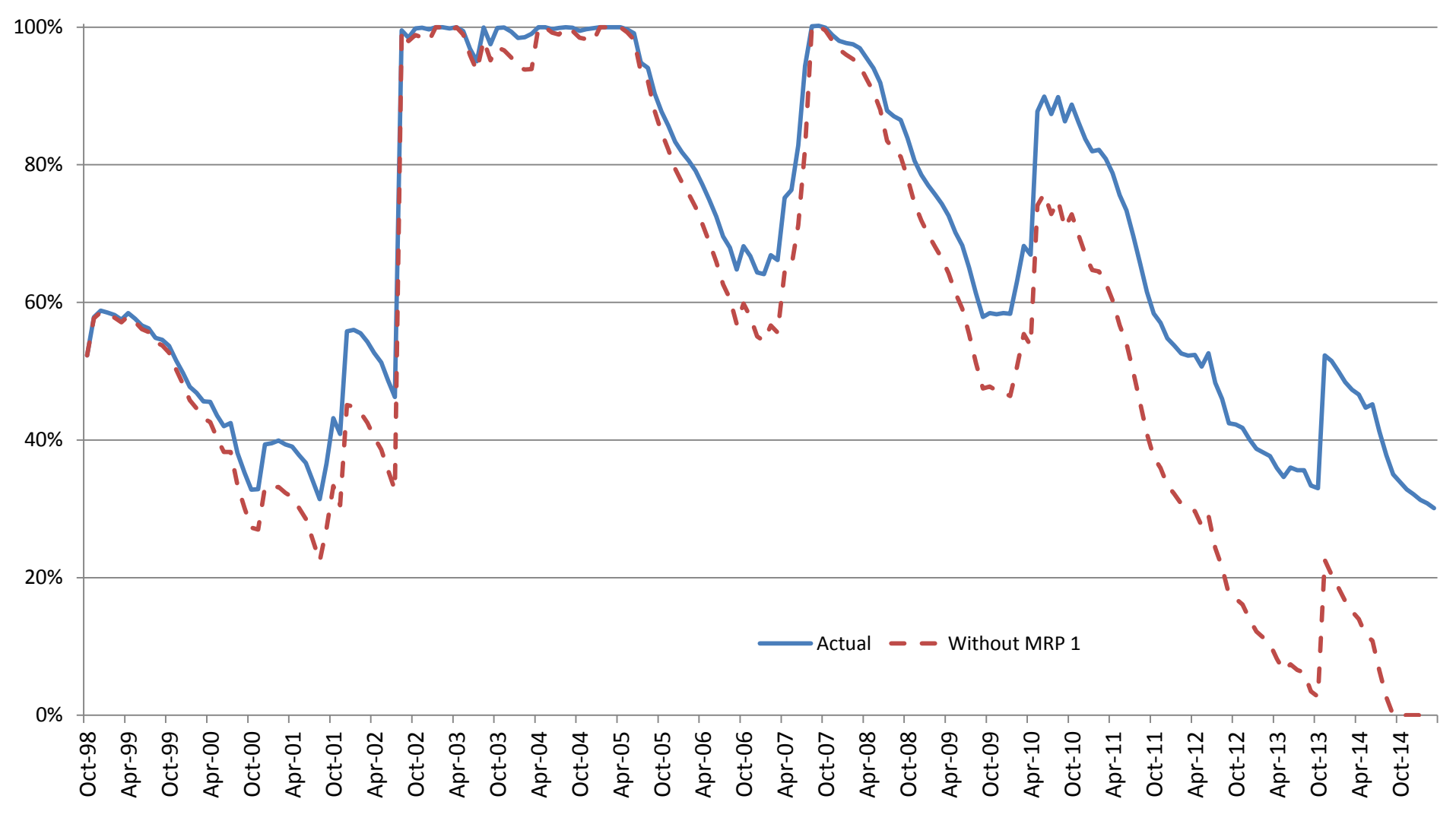


Council Presentation
March 29, 2016

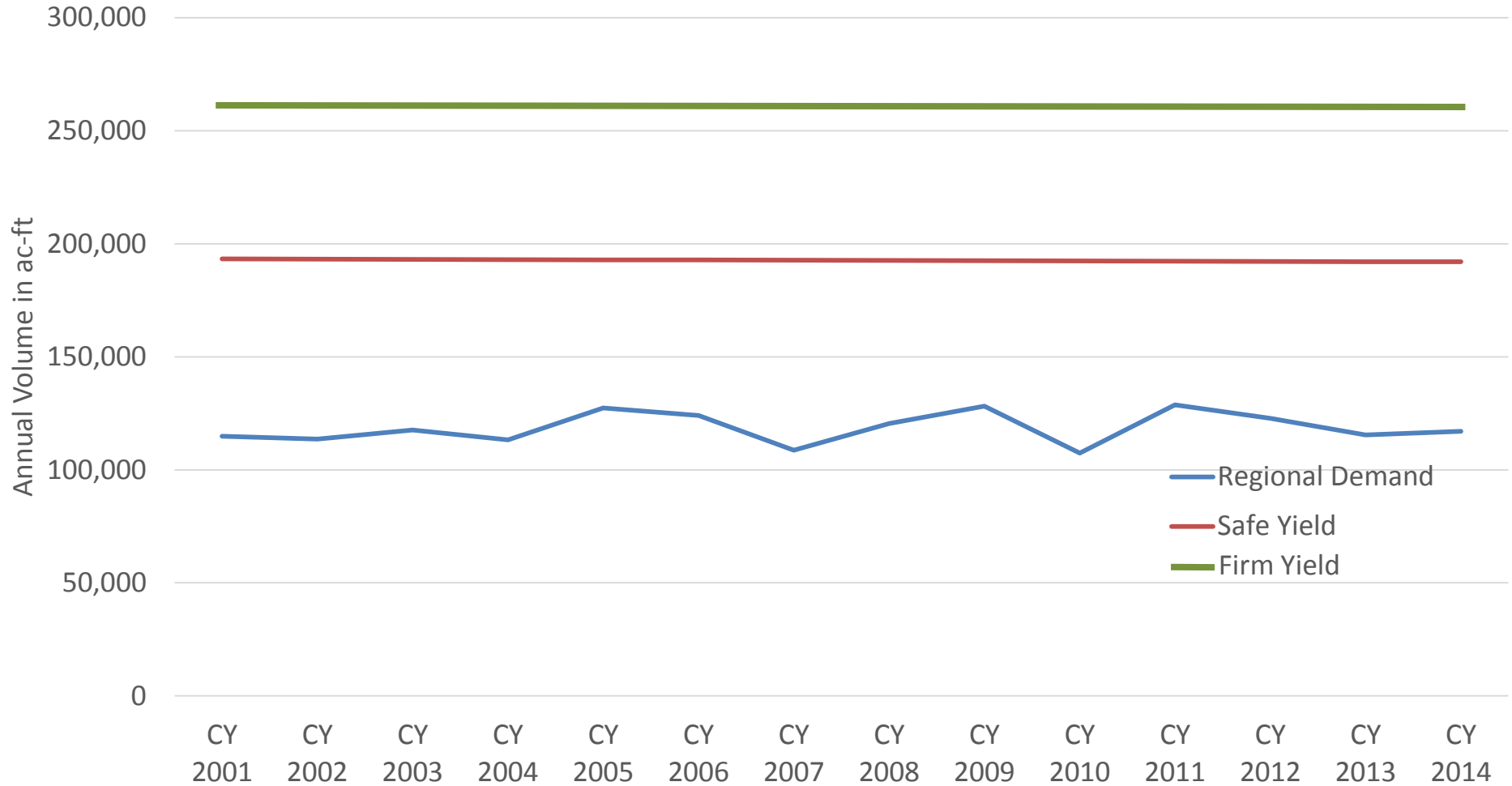


Combined Capacity Since 1987





Safe Yield vs Demand





© 2015 Google

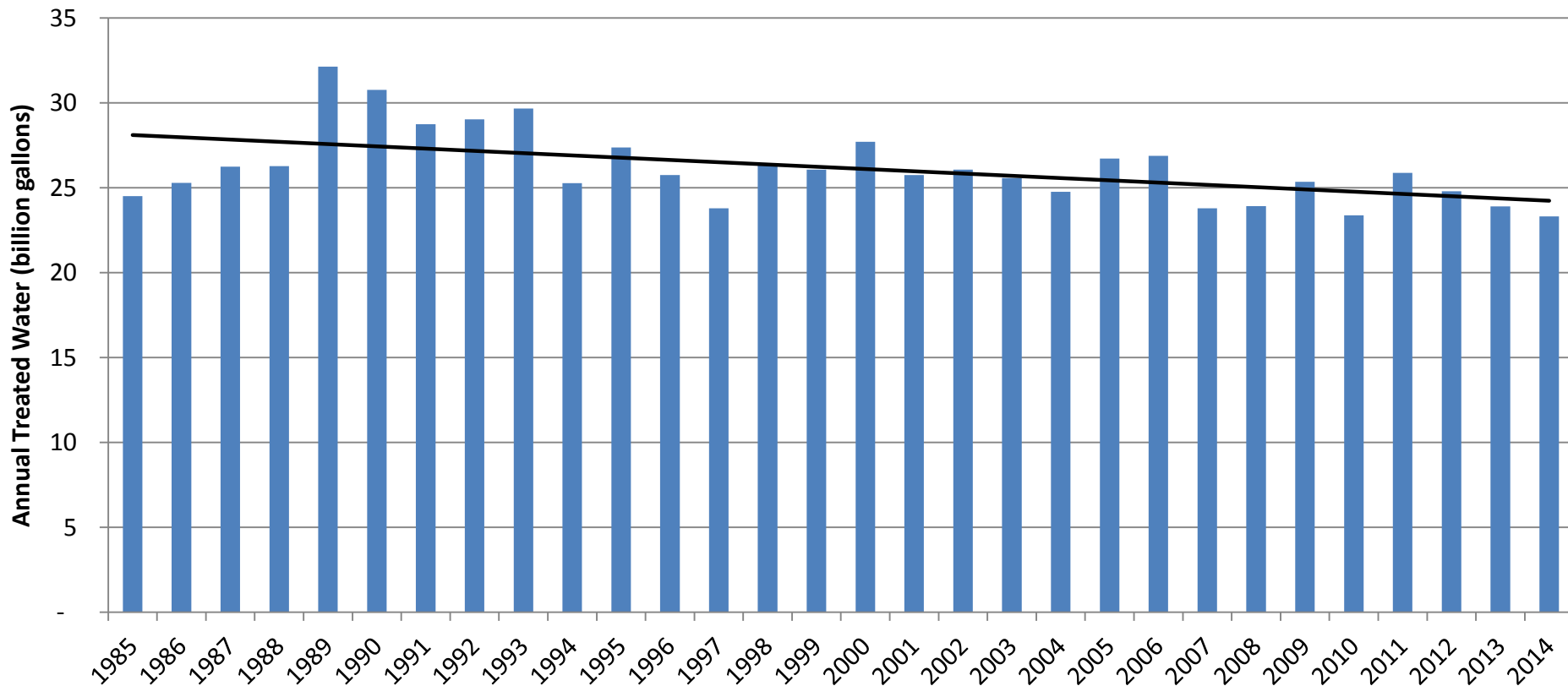
Google earth
6

1950

Imagery Date: 11/22/2014 27°51'31.14" N 97°37'19.83" W elev 77 ft eye alt 1776 ft



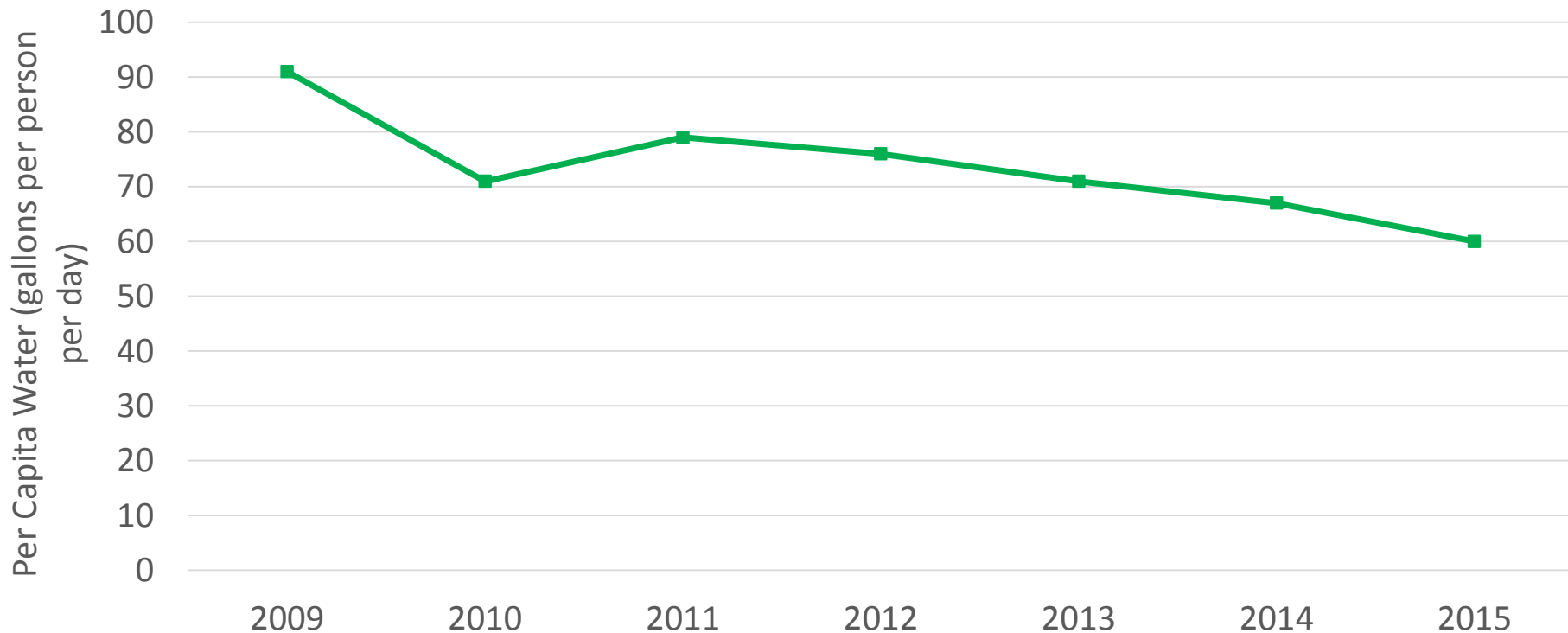
Annual Treated Water Production



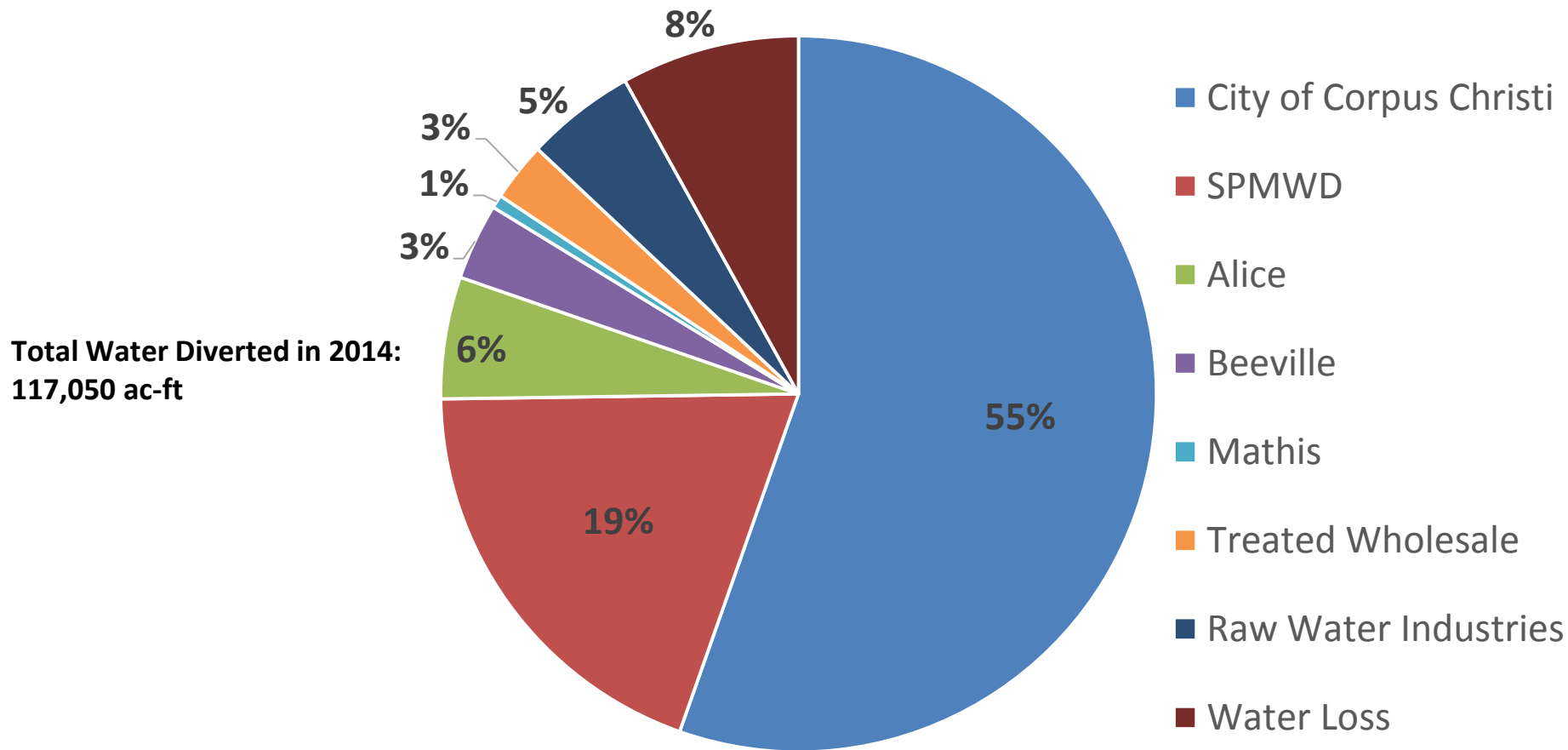


Does Conservation Work in CC?

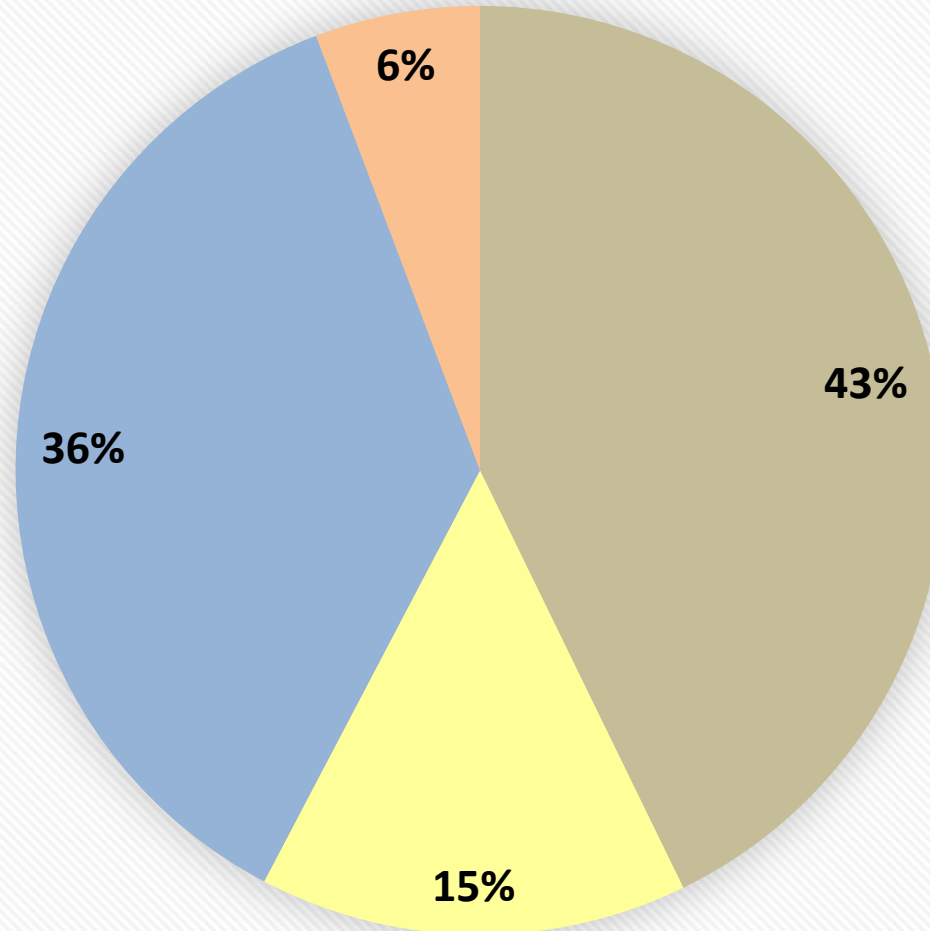
Residential Per Capita Water Use



Breakdown of Total Water Diversions in 2014



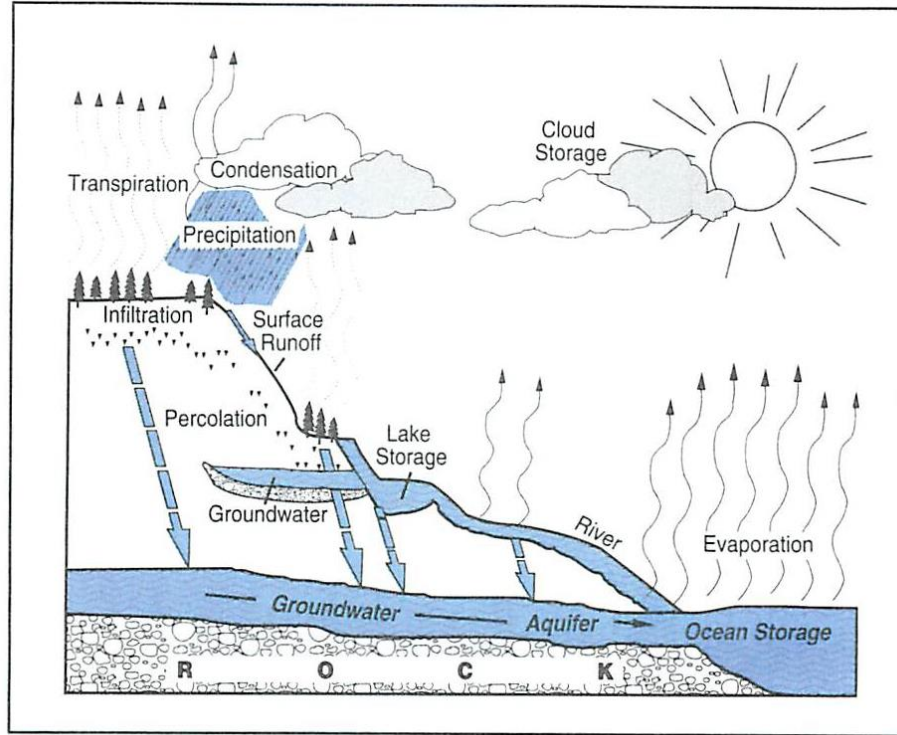
Corpus Christi Water Use by Customer Class



- Industrial
- Commercial
- Residential
- Institutional



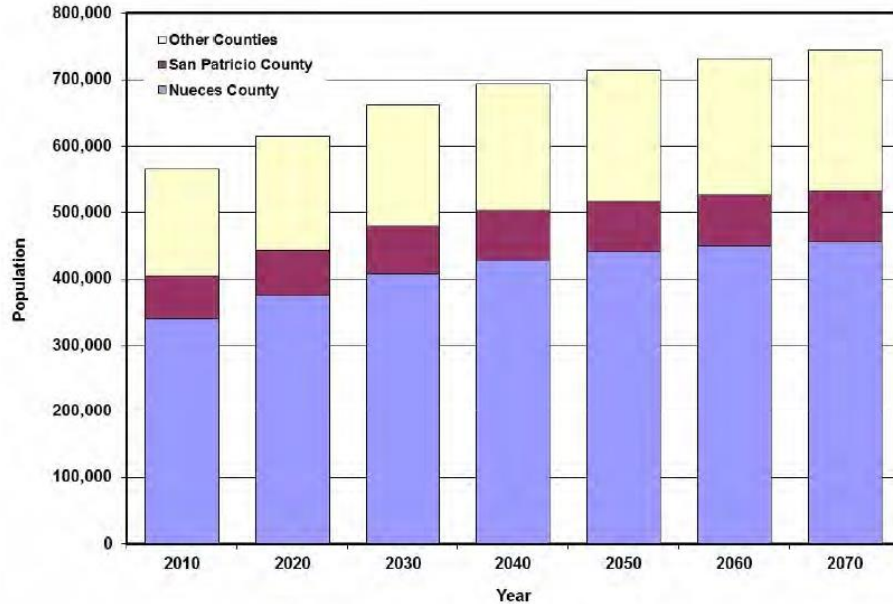
Water Cycle



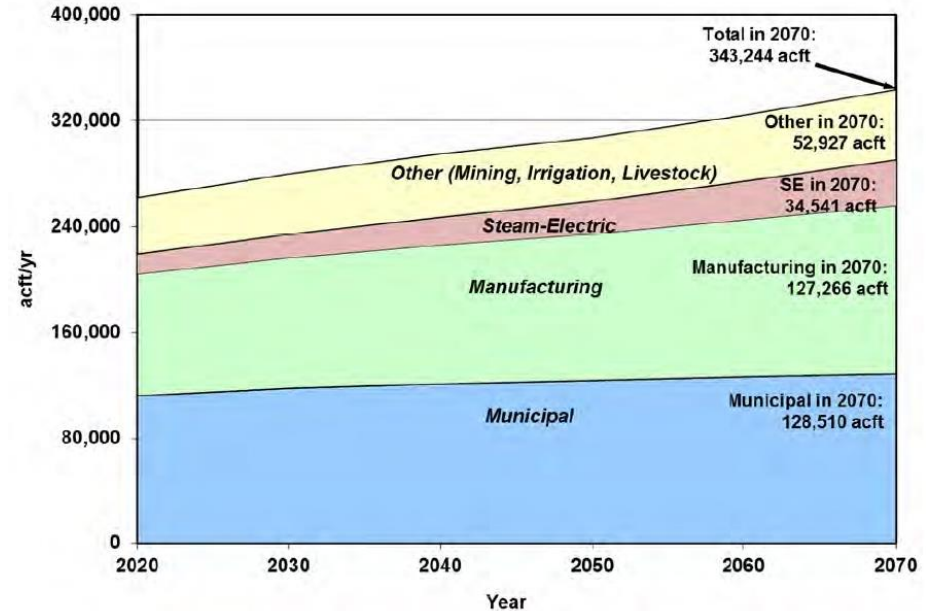


Regional Water Planning – Region N

Population Projections



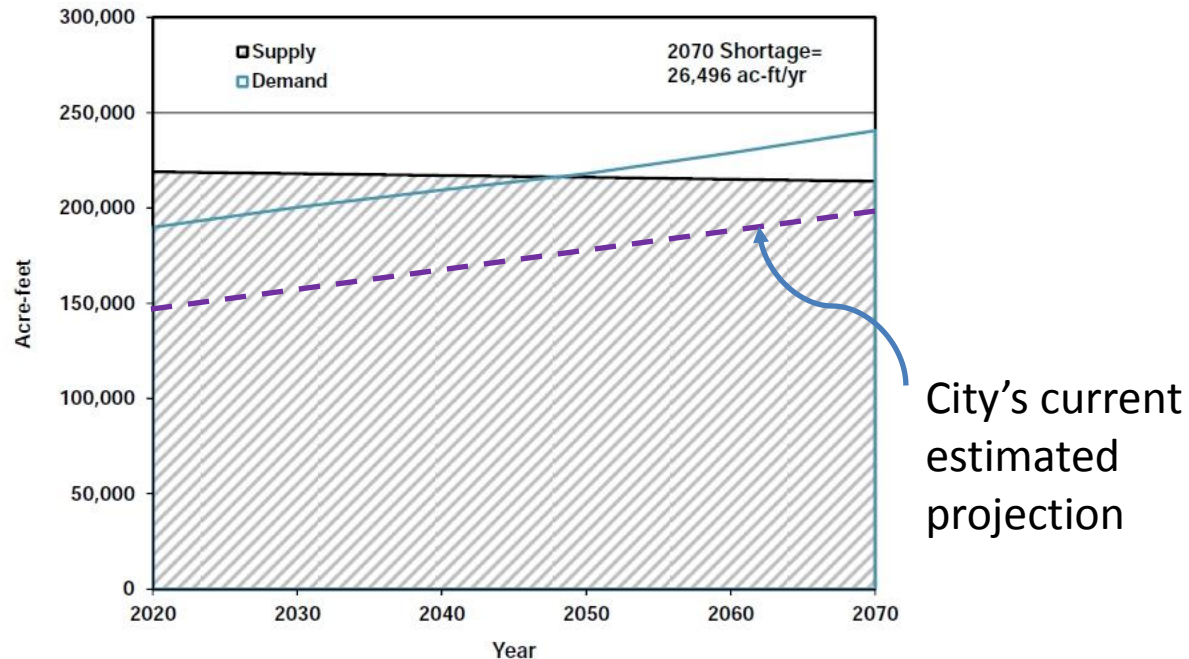
Demand Projections

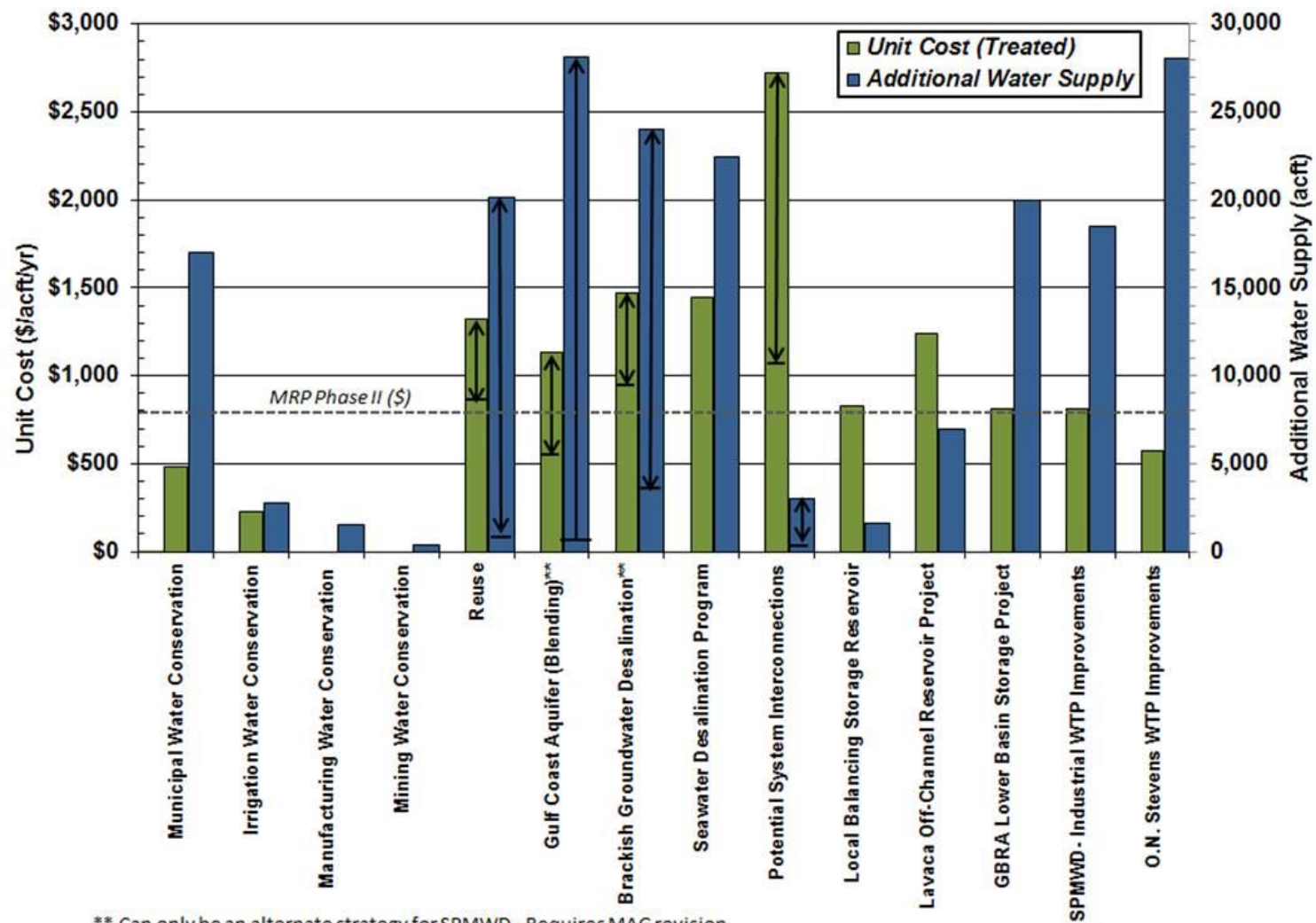




Regional Water Planning – Region N

Comparing Supply and Demand





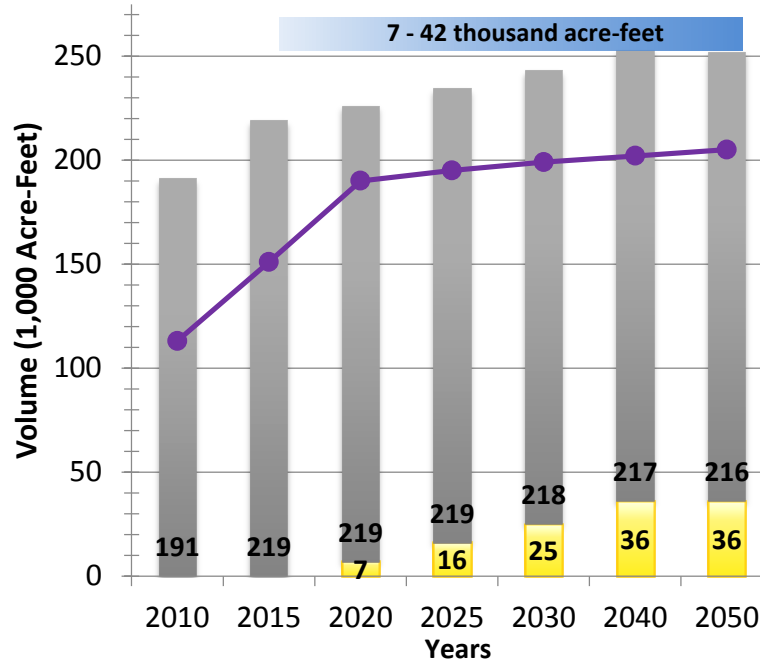
** Can only be an alternate strategy for SPMWD. Requires MAG revision.



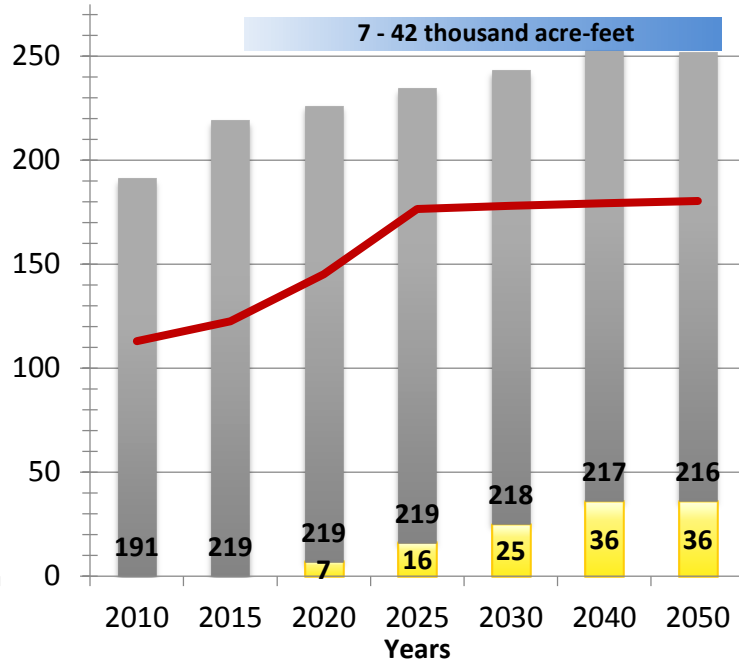
Local Planning



Last Year's Demand Projection



Current Demand Projection:



Desalination*

Industrial Reuse*

Surface Water

Current Demand Projection

Last Year's Demand Projection



Current Projects

- Surface Water
 - Mary Rhodes Phase II
 - 30,000 Acre Feet
- Seawater
 - Desalination
 - Industrial (10 to 20,000 Acre Feet)
 - Variable Salinity
- Ground Water
 - Aquifer Storage and Recovery District
 - Drilling Test Wells to determine capacity
- Reuse
 - Industry (4 to 10K Acre Feet)



Mary Rhodes Pipeline Phase 2





Industrial Desal Study Milestones

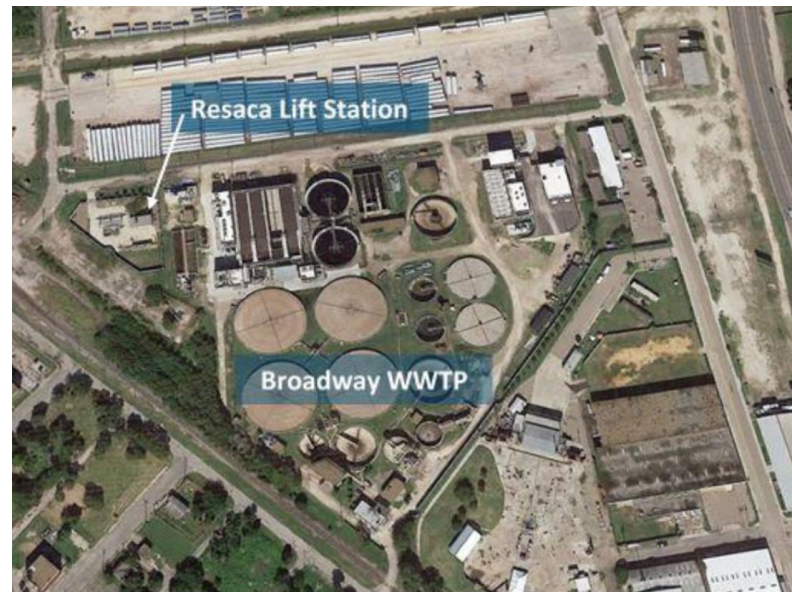
- ~~Letter of Intent~~ (Nov 2014)
- ~~Consultant Selection~~ (Jan 2015)
- ~~Scope of Work Refinement~~ (Mar 2015)
- ~~Data Collection and Background Investigation~~ (Jun 2015)
- ~~Project Assumptions Memorandum~~ (Aug 2015)
- ~~Project Profiles~~ (Dec 2015)
- Project Definition Package (Apr 2016)
- Participant "Go – NoGo" Decision Period (May 2016)





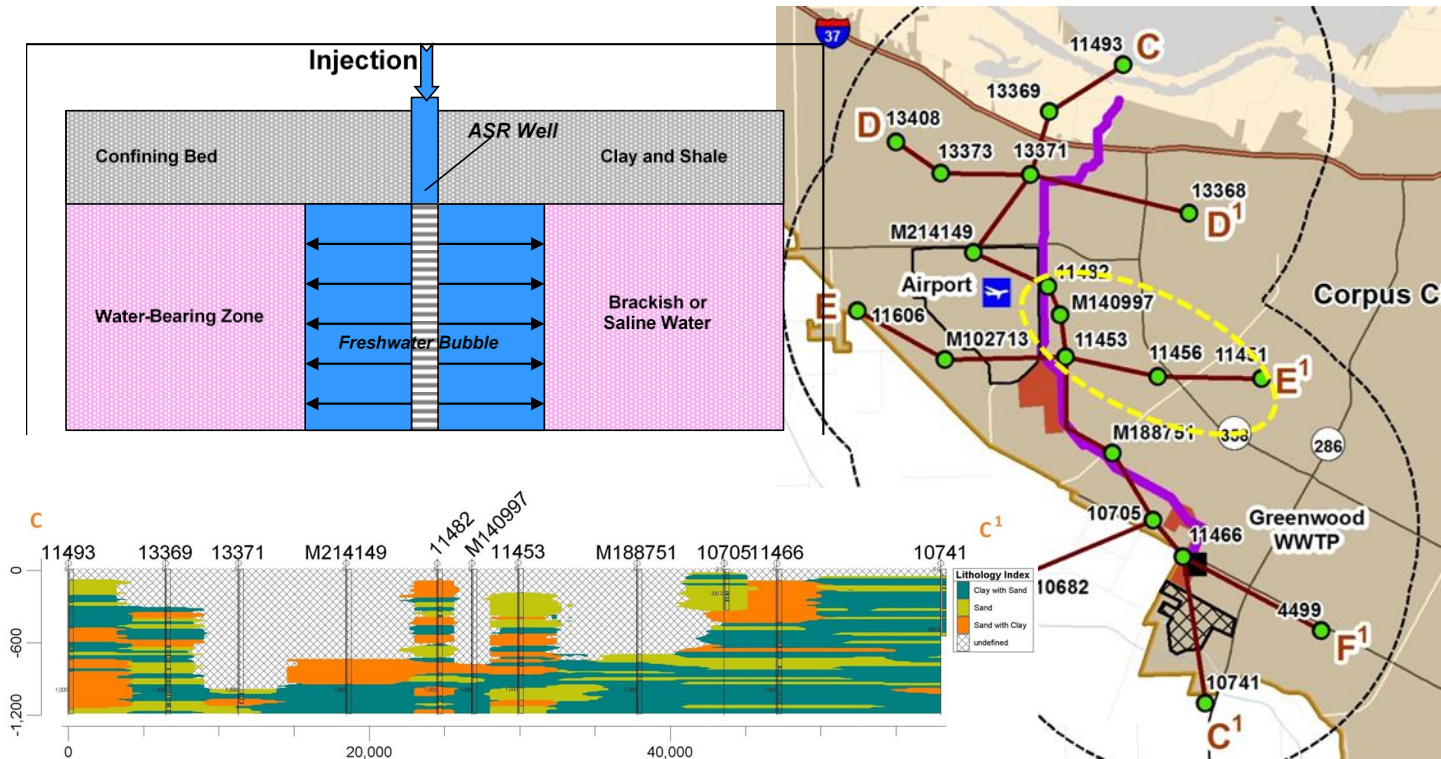
Variable Salinity Pilot Project

- Broadway WWTP selected as site for pilot
- TM #2 draft complete
- Consultant preparing specs and permit applications for pilot (TMs 3 and 4)





Aquifer Storage and Recovery





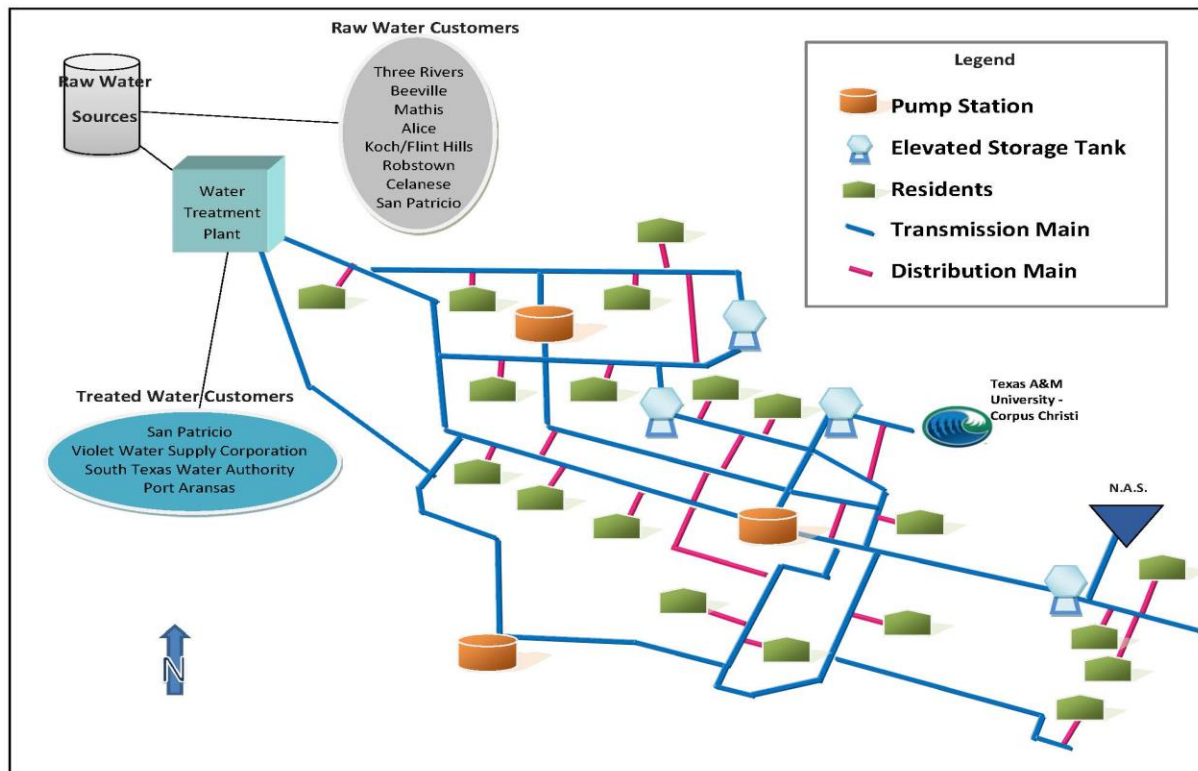
Reuse

- Current use:
 - Approx. 500 mil gal/year
- Studies underway to add Valero
 - Up to 4 Mil gal/day





Water System Components





Utility Bill Breakdown

	Raw Water	Treatment	Transmission	Distribution	Stormwater
Cost (\$/1000 Gallons)	0.95	1.39	0.69		
Outside City Limits					
Industrial customers	•	•	•		
Raw Water Customers	•				
Seawater Desalination (Drinking Water)	•	•			
Seawater Desalination (Industrial)	•	•	•		
Reuse (Industrial)	•	•	•		
Reuse (Irrigation)	•				