

Region K Potentially Feasible Strategies - 2018 Survey Responses (59/91)

**AQUA WSC**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	Conservation	Y
3	Expansion of Groundwater Supply (Bastrop County, Carrizo-Wilcox Aquifer)	Y
4	New LCRA contract w/ surface water infrastructure (Bastrop County, 2040)*	N

\*Re-examine: In 2017 plan, Aqua WSC had high demands and low supplies; need/shortages are large

**AUSTIN**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Conservation	Y
2	Drought Management	Y
3	Water Reclamation Initiative (Direct Reuse)	Y
4	Reuse (Decentralized, Gray Water)	Y
5	Rainwater Harvesting	Y
6	Longhorn Dam Operations	Y
7	Increased use of Long Lake Storage	N
8	Capture Local Inflows to Lady Bird Lake	Y
9	Aquifer Storage and Recovery	Y
10	Indirect Potable Reuse through Lady Bird Lake	Y
11	Lake Austin Operations	Y
12	COA Return Flows	Y
13	New Strategy/Project Requested: Amending certain industrial water rights for municipal use	-
14	New Strategy/Project Requested: Off-channel reservoir, brackish groundwater desalination	-

COA would like to rename certain strategies - see survey form

**BARTON CREEK WEST WSC**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	Conservation	N

● **BARTON CREEK WSC**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	New Strategy/Project Requested: Drought Management (Tiered water rates, watering scheduled days)	-

**BAY CITY**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	N
2	Conservation	N
3	New Strategy/Project Requested: New groundwater well construction on east side of the City to support future development	-

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**BERTRAM**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	Conservation	Y
3	Buena Vista Regional Project with LCRA Contract Amendment (2020)	N
4	Expansion of Groundwater Supply (Ellenburger-San Saba Aquifer, 2020)	Y
5	New Strategy/Project Requested: City is working with CTGCD to expand their permitted capacity to be able to pump additional water	-
6	New Strategy/Project Requested: The City is pursuing a surface water project that is an off channel reservoir. Coordination with TCEQ is ongoing	-
7	New Strategy/Project Requested: Preparation of a drought contingency plan and water conservation plan with associated ordinances for enforcement	-

**BLANCO**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	Conservation	Y
3	New Strategy/Project Requested: Reuse of WWTP Effluent	-

**BRIARCLIFF**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	New Strategy/Project Requested: Drought Management (mandatory watering restrictions May through September)	-

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**BUDA**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	Conservation	Y
3	Direct Reuse (2020)*	Y
4	Groundwater Importation (HCPUA Pipeline, 2030)	Y
5	Saline Edwards Aquifer Storage & Recovery Project (2030)	Y
6	Edwards/Middle Trinity Aquifer Storage & Recovery (2030)**	Y
7	New Strategy/Project Requested: System optimization and managed use of existing supplies, which could potentially involve the ASR project. Current law does not allow water from a non-Edwards aquifer source to be injected into a well that penetrates through the Edwards Aquifer. HB 3333 in the 85th legislature would have allowed for a change in this law within Barton Springs EACD boundaries, but the bill did not make it through the session. We hope to pursue this again in the future.	-
8	New Strategy/Project Requested: Direct potable reuse. An effluent characterization study is underway and we hope to slowly move the ball forward on DPR as a strategy by 2026.	-

\*Buda stated that purple pipe is already in use (direct reuse may need to be a supply)

\*\*ASR pilot project is set to move forward in 2018, WUG recommends decade change

**BURNET**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	New Strategy/Project Requested: Reuse - Irrigation of golf course and hay fields	-
2	Drought Management	Y
3	Conservation	Y
4	Buena Vista Regional Project with LCRA Contract Amendment (2020)	Y

● **CANEY CREEK MUD OF MATAGORDA COUNTY**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	New Strategy/Project Requested: Conservation and Drought Management	-

**CIMARRON PARK WATER**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	New Strategy/Project Requested: Drought Management plan approved by TCEQ and Barton Springs Edwards Aquifer Conservation District	-

● **COTTONWOOD CREEK MUD 1**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	New Strategy/Project Requested: Drought Management	-

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**COTTONWOOD SHORES**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	Conservation	Y
3	Marble Falls Regional Project with LCRA Contract Amendment (2020)	N

**CREEDMOOR-MAHA WSC**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	Saline Edwards Aquifer Storage & Recovery Project (2030)	N
3	New LCRA Contract (Travis County, 2030)*	N
4	New Strategy/Project Requested: WUG has requested additional 110,000,000 gal. annually from Aqua WSC	-
5	New Strategy/Project Requested: BS-Edwards drought management plus line replacement to save lost water with both in-house CIP projects and bond loans.	-

\*Looking to expand more groundwater, so once the COA contract expires, Creedmoor-Maha is not renewing

● **CYPRESS RANCH WCID 1**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	New Strategy/Project Requested: Possible enhancements to existing well yields	-
2	New Strategy/Project Requested: Possible drilling of new wells	-
3	New Strategy/Project Requested: Drought Management (Limit residential irrigation, expand reuse system, electronic meters with leak detection)	-
4	New Strategy/Project Requested: Possible expansion of existing reuse system	-

**ELGIN**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	Expansion of Groundwater Supply (Bastrop County, Carrizo-Wilcox Aquifer)	Y
3	New LCRA contract w/ surface water infrastructure (Bastrop County, 2030)	N
4	New Strategy/Project Requested: Apply for new well permits as demand approaches the supply capacity	-
5	New Strategy/Project Requested: Conservation - Limit water use for landscape and switch to native plants	-

**FLATONIA**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	Conservation	Y
3	Reuse (2020)	N
4	Expansion of Groundwater Supply (Gulf Coast Aquifer, 2020)	N

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**FREDERICKSBURG**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	Conservation	Y
3	New Strategy/Project Requested: New pipeline from well field to treatment facility/city for use	-
4	New Strategy/Project Requested: Reuse - Storage capacity of treated wastewater during fall and winter months for use in summer for irrigation (landscape/outdoors)	-

● **HAYS**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	New Strategy/Project Requested: Conservation and drought management practices following BSEACD, TCEQ and TWDB regulations	-
2	New Strategy/Project Requested: Emergency transfers from City of Austin and/or City of Buda.	-

● **HORNSBY BEND UTILITY**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	New Strategy/Project Requested: Conservation and drought management	-

**HORSESHOE BAY**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	Conservation	Y
3	Direct Reuse (2020)	Y
4	LCRA Contract Amendment (Burnet/Llano Counties, 2030)	Y
5	New Strategy/Project Requested: Continue to use and expand reuse opportunities	-

● **HURST CREEK MUD**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	New Strategy/Project Requested: Conservation and Drought Management	-

**JOHNSON CITY**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	Conservation	Y
3	Expansion of Groundwater Supply (Ellenburger-San Saba Aquifer, 2020)	Y
4	New Strategy/Project Requested: We are probably bringing 3 wells online. These wells are currently offline.	-

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● **KELLY LANE WCID 1**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	New Strategy/Project Requested: Drought Management	-

**KINGSLAND WSC**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y

**LAGO VISTA**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	Conservation	Y
3	New Strategy/Project Requested: Expand WWTP to 1.5 MGD and upgrade to produce Type 1 water	-
4	New Strategy/Project Requested: Reuse - Increase our use of reuse water so that we do not have to purchase as much raw water. Expand our purple pipe to 50% of the city	-
5	Note from WUG: We recently rewrote all of our WCPs and DCPs	-

● **LAKELAND MUD**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	New Strategy/Project Requested: Continue conservation and drought management irrigation schedule/restrictions.	-
2	New Strategy/Project Requested: Expanded use of reclaimed water for beneficial irrigation and reduction of potable water use.	-
3	Note from WUG: Emergency interconnects with nearby utilities already exist within the LMUD system. Emergency transfers <b>not</b> anticipated.	-

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**LCRA**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	LCRA System Operation Approach	Y
2	Amendments to Water Management Plan	Y
3	Amendments to ROR Rights, including Garwood*	Y
4	LCRA Contract Amendments (providing water to customers)	Y
5	LCRA New Water Sale Contracts (providing water to customers)	Y
6	Conservation	Y
7	Groundwater Supply for FPP (On-Site)	Y
8	Groundwater Supply for FPP (Off-Site)	Y
9	Expanded Use of Groundwater in Bastrop County (Carrizo-Wilcox Aquifer)	Y
10	Lane City Reservoir	N
11	Prairie Reservoir	Y
12	Mid-Basin Reservoir	Y
13	Acquire Additional Water Rights	Y
14	Downstream Return Flows	Y
15	New Strategy/Project Requested: Oceanwater desalination	-
16	+ Groundwater Importation - Carrizo-Wilcox to LCRA System	Y
17	+ Import Return Flows from Williamson County	Y
18	+ Supplement Bay and Estuary Inflows with Brackish Groundwater	Y
19	+ Brackish Groundwater Desalination from the Gulf Coast Aquifer	Y
20	+ Baylor Creek Reservoir	Y
21	+ Aquifer Storage and Recovery (ASR) Carrizo-Wilcox	Y
22	+ Enhanced Recharge	Y

+ Included in 2016 Plan as alternative strategies. LCRA indicated they would like them considered as recommended strategies

\*Garwood is already amended

**LEANDER**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	LCRA Contract Amendment (2050)	Y
3	Brushy Creek RUA (2020)	Y
4	New Strategy/Project Requested: Reuse - Travisso WWTP	-
5	New Strategy/Project Requested: Interbasin transfers - Permit No. 5677B	-

**LLANO**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	Conservation	Y
3	Direct Reuse	Y
4	Development of New Groundwater Supply (Hickory Aquifer, 2020)*	N
5	New Strategy/Project Requested: Dredging silt from current reservoir	-

\*Re-examine: In 2017 plan, Llano had high demands and low supplies; need/shortages are large

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**LOOP 360 WSC**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	Conservation	Y

**MANVILLE WSC**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	New LCRA Contract (2050)	Y
3	Expansion of Groundwater Supply (Trinity Aquifer, 2050)	Y
4	New Strategy/Project Requested: Expand Edwards Aquifer wells - FM 170 and Blackhawk	-
5	New Strategy/Project Requested: Drill new wells into Hooper Aquifer. Potential ASR - looking at areas and cost of development	-

**MARBLE FALLS**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	Conservation	Y
3	Direct Reuse	Y
4	Marble Falls Regional Project (2020)	Y
5	New Strategy/Project Requested: Currently in Phase IV of water expansion to 4.8 MGD	-
6	New Strategy/Project Requested: Type I effluent for industrial and agriculture use, park irrigation and golf course (2019)	-

● **MATAGORDA COUNTY DISPOSAL & WSC**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	New Strategy/Project Requested: Drought Management	-

**MEADOWLAKES**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	Conservation	Y
3	New Strategy/Project Requested: Reuse - Reclaimed water from Marble Falls for golf course irrigation	-

● **NORTH SAN SABA WSC**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	New Strategy/Project Requested: Drought Management and Water Conservation	-

**NORTHTOWN MUD**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y



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**PFLUGERVILLE**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	Conservation	Y
3	Direct Reuse (2020)	Y
4	LCRA Contract Amendment (2050)	Y
5	Expansion of Groundwater Supply (Edwards-BFZ Aquifer, 2040)	Y

**RICHLAND SUD**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	Conservation	Y

**SAN SABA**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	Conservation	Y

**SHADY HOLLOW MUD\***

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	N
2	Conservation	N

\*Shady Hollow MUD has been annexed into City of Austin, so all demands will be met

**SUNRISE BEACH VILLAGE**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	N

**SUNSET VALLEY**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	Conservation	Y
3	Edwards/Trinity Aquifer Storage & Recovery (2030)	Y
4	New LCRA Contract (2030)	Y
5	Development of New Groundwater Supply (Trinity Aquifer, 2040)	Y

● **SWEETWATER COMMUNITY**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	New Strategy/Project Requested: Reuse - Wastewater effluent is used for common irrigation	-

● **TRAVIS COUNTY MUD 10**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	New Strategy/Project Requested: Installation of a well	-
2	New Strategy/Project Requested: Drought Management	-

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● **TRAVIS COUNTY MUD 14**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	New Strategy/Project Requested: Drought Management	-

● **TRAVIS COUNTY MUD 2**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	New Strategy/Project Requested: Drought Management	-

**TRAVIS COUNTY WCID 10**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	Conservation	Y
3	New LCRA Contract (2030)*	N

\*Need to contact - anticipated phase out of existing COA contracts

**TRAVIS COUNTY WCID 17**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	Conservation	Y
3	LCRA Contract Amendment (2020)	N
4	New Strategy/Project Requested: Installation of irrigation fields in Serena Hills DA as well as storage tanks with associated pumping stations	-
5	New Strategy/Project Requested: Emergency Transfers - WCID 17 has agreements in place with Lakeway MUD, Hurst Creek MUD, WTCPUA, and the City of Austin	-

**TRAVIS COUNTY WCID 18**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	Conservation	Y

**TRAVIS COUNTY WCID 19**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	Conservation	Y

**TRAVIS COUNTY WCID 20**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	Conservation	Y

● **WEST END WSC**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	New Strategy/Project Requested: Drought Management	-

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**WEST TRAVIS COUNTY PUA**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	Conservation	Y
3	Groundwater Importation (Hays County Pipeline, 2030)	Y
4	LCRA Contract Amendment (2030)	Y
5	New Strategy/Project Requested: Second raw water line and raw water pump station expansion.	-
6	New Strategy/Project Requested: Beneficial reuse project to convert effluent to drinking water through R.O. Treatment	-
7	New Strategy/Project Requested: Direct Reuse - Expansion of 2010 customer irrigation to park at Bee Cave, Gateway to Falconhead, Bee Cave City Park, Ladena Subdivision, and one other.	-
8	New Strategy/Project Requested: Emergency interconnect agreement with City of Austin	-

**WHARTON\***

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	N
2	Conservation	Y
3	New Strategy/Project Requested: New well and treatment plant	-

\*Refer to TWDB Regional Water Supply Study for Wharton and East Bernard (April 2017)

**WHARTON COUNTY WCID 2**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	Drought Management	Y
2	Conservation	Y
3	New Strategy/Project Requested: New well	-

● **WILLIAMSON COUNTY WSID 3**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	New Strategy/Project Requested: Drought Management	-

● **WINDERMERE UTILITY**

	<i>Potentially Feasible Strategy</i>	<i>Survey Response</i>
1	New Strategy/Project Requested: Blue Water / EPCOR 130 interconnect	-