

BRAZOS G REGIONAL WATER PLANNING GROUP

10:00 a.m. December 18, 2019 Brazos River Authority Central Office 4600 Cobbs Drive, Waco, Texas 76710

AGENDA

- 1. CALL MEETING TO ORDER
- 2. INVOCATION
- 3. NOTICE OF MEETING
- 4. ATTENDANCE AND ANNOUNCEMENTS
- 5. PUBLIC INPUT Public questions and comments on agenda items or water planning issues (limited to 5 minutes each; public must fill out a 'Request to Speak' form prior to the discussion of the agenda item)

6. PROGRAM

- 6.1. Report and possible discussion on report from Texas Water Development Board (TWDB) staff.
- 6.2. Discussion and possible action on HDR planning tasks.
 - 6.2.1. Presentation on updated water management strategy evaluations.
 - 6.2.2. Discussion and possible action regarding water management strategies to meet Williamson County needs.
 - 6.2.3. Discussion and possible action on other HDR planning tasks.
 - 6.2.4. Presentation of the timeline to develop the 2021 Brazos G Regional Water Plan.
- 6.3. Report and possible discussion on updates from other regional water planning groups (Regions B, C, F, H, K, L & O).
- 6.4. Report and possible discussion on Groundwater Management Area (GMA) activities.
- 6.5. Report and possible discussion on agency communication and information.
- 6.6. Discussion and possible action on report by Brazos G Administrator.
- 6.7. Report and possible discussion from Brazos G Chair.
- 7. DISCUSSION AND POSSIBLE ACTION ON NEW BUSINESS TO BE CONSIDERED AT NEXT MEETING
- 8. CONFIRMATION OF NEXT MEETING DATE
- 9. ADJOURN

Agenda items may be considered, deliberated and/or acted upon in a different order than set forth above.

Meeting agendas and materials are available online at <u>www.brazosgwater.org</u> For additional information, please contact STEVE HAMLIN @ 254-761-3172, Brazos River Authority, Administrative Agent



BRAZOS G REGIONAL WATER PLANNING GROUP December 18, 2019 10:00 A.M. Brazos River Authority Central Office 4600 Cobbs Drive, Waco, Texas 76710



CALL THE MEETING TO ORDER
 INVOCATION
 NOTICE OF MEETING
 ATTENDANCE AND ANNOUNCEMENTS
 PUBLIC INPUT



6.1. Report and possible discussion from Texas Water Development Board staff.

Application Period for 2020 SWIFT Funding Cycle Opens December 2

Texas Water

Development Board

The Texas Water Development Board (TWDB) will open the application period for the 2020 funding cycle of the State Water Implementation Fund for Texas (SWIFT) program* on Monday, December 2, 2019. Abridged applications will be due on Monday, February 3, 2020.

The SWIFT program helps communities develop and optimize water supplies at cost-effective rates. The program provides low-interest financing, extended repayment terms, deferral of repayments, and incremental repurchase terms for projects with state ownership aspects. It also includes additional interest rate subsidies for rural and agricultural projects. For more information on the program, please visit the <u>SWIFT program web page</u>.

To be eligible for SWIFT program financial assistance, projects must be recommended in the 2017 State Water Plan.

Abridged applications are due by midnight on February 3, 2020, and may be submitted via the TWDB's <u>online application system</u> or by <u>paper copy</u>. These short applications provide information the TWDB needs to complete prioritization of the projects. Projects that receive priority for financial assistance will be invited to submit a complete application, which will include a detailed financial, legal, engineering, and environmental review.

For more details on how to apply for the SWIFT program, please visit the TWDB website.

*The SWIFT program includes two funds, the State Water Implementation Fund for Texas (SWIFT) and the State Water Implementation Revenue Fund for Texas (SWIRFT).





- 6.2. Discussion and possible action on HDR planning tasks.
 - 6.2.1 Presentation on updated water management strategy evaluations.
 - 6.2.2. Discussion and possible action regarding water management strategies to meet Williamson County needs.
 - 6.2.3. Discussion and possible action on other HDR planning tasks.
 - 6.2.4 Presentation of the timeline to develop the 2021 Brazos G Regional Water Plan.







Item	Brine Utilization and Management	White River Municipal Water District	Jayton	Aspermont
Brine Transmission Pipeline (12 in dia 17 miles)	\$ystem \$14.467.000	-	_	
Brine Transmission Pump Station(s) & Storage Tank(s)	\$1,874,000	-	-	
Treated Water Transmission Pipeline		\$5.836.000	\$579.000	\$4.057.00
Treated Water Transmission Pump Station(s) & Storage Tank(s)		\$953,000	\$442,000	\$1,384,00
Well Fields (Wells, Pumps, and Piping)	\$839,000	-	-	
Storage Tanks (Other Than at Booster Pump Stations)	\$600,000		-	
Two Water Treatment Plants (1 MGD and 1 MGD)	\$34,326,000	-	-	
Integration, Relocations, & Other	\$5,500,000		-	
TOTAL COST OF FACILITIES	\$57,606,000	\$6,789,000	\$1,021,000	\$5,441,00
Engineering and Feasibility Studies, Legal Assistance, Financing, Bond Counsel, and Contingencies (30% for pipes &35% for all other facilities)	\$36,216,000	\$2,084,000	\$328,000	\$1,702,00
Environmental & Archaeology Studies and Mitigation	\$1,619,000	\$150,000	\$600,000	\$625,00
Land Acquisition and Surveying (80 acres)	\$5,541,000	-	\$55,000	\$55,00
Interest During Construction (3% for 2 years with a 0.5% ROI)	\$5,555,000	\$497,000	<u>\$111,000</u>	\$431,00
TOTAL COST OF PROJECT	\$106,537,000	\$9,520,000	\$2,115,000	\$8,254,00
Debt Service (3.5 percent 20 years)	\$7.496.000	\$670.000	\$149.000	\$581.00
Operation & Maintanence	\$7,826,000	\$82,000	\$17,000	\$75,00
Purchase of Water (949 acft/vr @ 1189.36 \$/acft)	(\$1,128,000)	\$214,000	\$140,000	\$296,00
Salt Revenue	(\$8,000,000)	-		
TOTAL ANNUAL COST	\$6,194,000	\$966,000	\$306,000	\$952,000
Available Project Yield (acft/yr)	949	180	118	24
Annual Cost of Water (\$ per acft), based on PF=1	\$6,527	\$5,367	\$2,593	\$3,82
Annual Cost of Water (\$ per 1 000 gallons) based on PF=1	\$20.03	\$16.47	\$7.96	\$11.73

PROJ	IECT COSTS								
	Item		Brine Utilization and Managem System	on ent	White River Municipal Water Distric	Jayton t		Aspermon	
Brine Transn	nission Pipeline (12 in dia., 17 miles)		\$14,467,	,000			-		
Brine Transn	nission Pump Station(s) &Storage Tank(s)		\$1,874	,000			-		
Treated Wat	ter Transmission Pipeline				\$5.836.0	00 \$579	000	\$4.057	000
Treated W	IOTAL COST OF PROJECT	\$	5106,537,000		\$9,520,000	\$2,115,000		\$8,254,000	000
Storage T Two Water	Debt Service (3.5 percent, 20 years)		\$7,496,000		\$670,000	\$149,000		\$581,000	
	Operation & Maintanence		\$7,826,000		\$82,000	\$17,000		\$75,000	000
Engineerin Counsel,	Purchase of Water (949 acft/yr @ 1189.36 \$/acft)		(\$1,128,000)		\$214,000	\$140,000		\$296,000	
Environme	Salt Revenue		(\$8,000,000)		-	-		-	
Interest DI	FOTAL ANNUAL COST		\$6,194,000		\$966,000	\$306,000		\$952,000	000
TOTAL COST	OF PROJECT	-	\$100,557	,000	\$9,520,0	00 \$2,115	,000	\$0,204,	000
Debt Service	e (3.5 percent, 20 years)		\$7,496	,000	\$670,0	00 \$149	,000	\$581,	000
Operation &	Maintanence		\$7,826	,000	\$82,0	00 \$17	,000,	\$75,	00
Purchase of	f Water (949 acft/yr @ 1189.36 \$/acft)		(\$1,128	,000)	<u>\$214,0</u>	00 \$140	,000	<u>\$296,</u>	000
Salt Revenu	ie		(\$8,000	,000)			-		
TOTAL ANNUA	AL COST		\$6,194,	,000	\$966,0	00 \$306	,000	\$952,	000
Available Pro	oject Yield (acft/yr)			949	1	80	118		249
Annual Cost	of Water (\$ per acft), based on PF=1		\$6	,527	\$5,3	67 \$2	,593	\$3,	823
Annue	of Water (\$ per 1,000 gallons), based on PF=1		\$2	0.03	\$16.	47 \$	7.96	\$11	.73
~	1								

PROJECT COSTS -	Summary			
Item	Brine Utilization and Management System	White River Municipal Water District	Jayton	Aspermont
Total Cost of Facilities	\$57,606,000	\$6,789,000	\$1,021,000	\$5,441,000
Total Cost of Project	\$106,537,000	\$9,520,000	\$2,115,000	\$8,254,000
Total Annual Cost	\$6,194,000	\$966,000	\$306,000	\$952,000
Available Project Yield (acft/yr)	949	180	118	249
Annual Cost of Water (\$/acft)	\$6,527	\$5,367	\$2,593	\$3,823
Annual Cost of Water (\$/1k gal)	\$20	\$16	\$8	\$12

	Municipal	Unit Cost of Treatment	Desalination t (\$/acft/yr)	Total Annu Desalination T	ıal Cost of reatment (\$/yr)	Annual		
Location	Use ¹ (acft/yr)	Without Salinity Control Project	With Salinity Control Project	Without Salinity Control Project	With Salinity Control Project	Desalination Cost Savings With Project		
Seymour	0	\$1,189	\$1,026	\$0	\$0	\$0		
Possum Kingdom Lake	3,298	\$790	\$725	\$2,607,000	\$2,392,000	\$215,000		
Lake Granbury	35,644	\$757	\$680	\$26,976,000	\$24,250,000	\$2,726,000		
Lake Whitney	18,975	\$608	\$521	\$11,539,000	\$9,892,000	\$1,647,000		
Bryan	19,935	\$534	\$534	\$10,654,000	\$10,654,000	\$0		
Richmond	428,136	\$431	\$431	\$184,486,000	\$184,486,000	\$0		
Total	505,988			\$236,262,000	\$231,674,000	\$4,588,000		
¹ Includes Brazos River A	Authority Contract	amounts and TCE	Q Water Rights for	r municipal use, as	of March 2015.			
Total Annual Cost: \$6,194,000 Downstream Desalination Cost Savings: \$4,588,000 Difference: \$1,606,000								





CONCEPT & IMPLEMENTATIONUtilize existing groundwater and surface water rights from Alcoa to meet shortages in Williamson County Water supply agreements between Luminant and Alcoa would need modification GW permits need to be amended from on-site industrial use to allow municipal offsite use (lose historic use designation?) Surface water rights (Lake Alcoa and Little River diversion) need to be amended to change type and place of use BRA contract (Little River diversion) requires amendment to change the type and place of use Existing wells would be upgraded to municipal use standards Utilization of these supplies would cause Milam County Steam Electric demands to be unmet in the 2021 Brazos G Plan



	Item	Estimated Costs for Facilities
	Primary Pump Station (13.2 MGD)	\$11,263,000
	Transmission Pipeline (30 in dia., miles)	\$56,059,000
	Transmission Pump Station(s) & Storage Tank(s)	\$5,483,000
	Well Fields (Wells, Pumps, and Piping)	\$13,913,000
	Storage Tanks (Other Than at Booster Pump Stations)	\$1,736,000
	Water Treatment Plant (12.5 MGD)	\$709,000
	TOTAL COST OF FACILITIES	\$89,163,000
	Engineering and Feasibility Studies, Legal Assistance,	
	Financing, Bond Counsel, and Contingencies (30% for pipes	
	& 35% for all other facilities)	\$28,404,000
	Environmental & Archaeology Studies and Mitigation	\$2,032,000
	Land Acquisition and Surveying (688 acres)	\$3,087,000
	Interest During Construction (3% for 1 years with a 0.5%	
	ROI)	<u>\$3,374,000</u>
	TOTAL COST OF PROJECT	\$126,060,000
	ANNUAL COST	
	Debt Service (3.5 percent, 20 years)	\$8.870.000
	Operation and Maintenance	
	Pipeline, Wells, and Storage Tanks (1% of Cost of	
	Facilities)	\$717.000
	Intakes and Pump Stations (2.5% of Cost of Facilities)	\$419.000
	Water Treatment Plant	\$425.000
	Pumping Energy Costs (29766625 kW-hr @ 0.08 \$/kW-hr)	\$2,381,000
	Purchase of Water (14000 acft/vr @ 76.5 \$/acft)	\$1.071.000
	TOTAL ANNUAL COST	\$13,883,000
	Available Project Yield (acft/yr)	14,000
in the second	Annual Cost of Water (\$ per acft), based on PF=1	\$992
- August	Annual Cost of Water After Debt Service (\$ per acft), based	\$358
	Annual Cost of Water (\$ per 1 000 gallons) based on PE=1	\$3.04
	Annual Cost of Water After Debt Service (\$ per 1 000	φ0.04
r -	gallons) based on PE=1	\$1.10

Item	Estimated Costs for Facilities
Intake Pump Stations (17.5 MGD)	\$31,910,0
Transmission Pipeline (36 in dia., 42 miles)	\$64,762,0
Transmission Pump Station(s) & Storage Tank(s)	\$7,177,0
Water Treatment Plant (16.6 MGD)	\$64,207,0
TOTAL COST OF FACILITIES	\$168,056,0
Engineering and Feasibility Studies, Legal Assistance,	
Financing, Bond Counsel, and Contingencies (30% for pipes	
& 35% for all other facilities)	\$55,582,0
Environmental & Archaeology Studies and Mitigation	\$1,119,0
Land Acquisition and Surveying (525 acros)	\$2.252.0
Interest During Construction (2% for 1 years with a 0.5%	φ2,303,0
POIN	\$6.046.0
	\$233 356 0
	φ200,000,0
ANNUAL COST	
Debt Service (3.5 percent, 20 years)	\$16,419,0
Operation and Maintenance	
Pipeline, Wells, and Storage Tanks (1% of Cost of	
Facilities)	\$648,0
Intakes and Pump Stations (2.5% of Cost of Facilities)	\$977,0
Water Freatment Plant	\$4,494,0
Pumping Energy Costs (16563378 kW-hr @ 0.08 \$/kW-hr)	\$1,325,0
Purchase or water (18,600 actt/yr @ 76.5 \$/actt)	\$1,423,0
IOTAL ANNUAL COST	\$25,286,0
Available Project Yield (acft/yr)	18,6
Annual Cost of Water (\$ per acft), based on PF=1	\$1,3
Annual Cost of Water After Debt Service (\$ per acft), based	
on PF=1	\$4
Annual Cost of Water (\$ per 1,000 gallons), based on PF=1	\$4.
Annual Cost of Water After Debt Service (\$ per 1,000	
gallons), based on PF=1	\$1.

COSTS	OPTION 3:	
	Item	Estimated Costs for Facilities
	Intake Pump Stations (30,7 MGD)	\$38,806,000
	Transmission Pipeline (42 in dia., 43 miles)	\$77,426,000
	Transmission Pump Station(s) & Storage Tank(s)	\$12,262,000
	Well Fields (Wells, Pumps, and Piping)	\$16,269,000
	Water Treatment Plant (29.2 MGD)	\$105 758 000
	TOTAL COST OF FACILITIES	\$250,521,000
		ψ±00,0±1,000
	Engineering and Feasibility Studies, Legal Assistance, Financing, Bond Counsel, and Contingencies (30% for pipes & 35% for all other facilities)	\$83,811,000
	Environmental & Archaeology Studies and Mitigation	\$2,020,000
	Land Acquisition and Surveying (675 acres)	\$3,029,000
	Interest During Construction (3% for 1 years with a 0.5%	
	ROI)	<u>\$9,333,000</u>
	TOTAL COST OF PROJECT	\$348,714,000
	ANNUAL COST	
	Debt Service (3.5 percent, 20 years)	\$24,536,000
	Operation and Maintenance	
	Pipeline, Wells, and Storage Tanks (1% of Cost of Facilities)	\$937,000
	Intakes and Pump Stations (2.5% of Cost of Facilities)	\$1,277,000
	Water Treatment Plant	\$7,403.000
	Pumping Energy Costs (48286691 kW-hr @ 0.08 \$/kW-hr)	\$3.863.000
	Purchase of Water (32600 acft/vr @ 76.5 \$/acft)	\$2,494,000
	TOTAL ANNUAL COST	\$40.510.000
	Available Project Yield (acft/vr)	32.600
a har	Annual Cost of Water (\$ per acft), based on PF=1	\$1,243
	Annual Cost of Water After Debt Service (\$ per acft), based	01,210
Street Color	on PF=1	\$490
	Annual Cost of Water (\$ per 1,000 gallons), based on PF=1	\$3.81

Option 1 Option 2 Option 3 Description GW only SW only SW and GW Yield (acft/yr) 14,000 18,600 32,600 Annual Cost of Water (\$/acft) \$992 \$1,359 \$1,243 Annual Cost of Water (\$/1000 gal) \$3.04 \$4.17 \$3.81	OST OPTIONS SUMMAR	RY:		
Option 1 Option 2 Option 3 Description GW only SW only SW and GW Yield (acft/yr) 14,000 18,600 32,600 Annual Cost of Water (\$/acft) \$992 \$1,359 \$1,243 Annual Cost of Water (\$/1000 gal) \$3.04 \$4.17 \$3.81				
Description GW only SW only SW and GW Yield (acft/yr) 14,000 18,600 32,600 Annual Cost of Water (\$/acft) \$992 \$1,359 \$1,243 Annual Cost of Water (\$/1000 gal) \$3.04 \$4.17 \$3.81		Option 1	Option 2	Option 3
Yield (acft/yr) 14,000 18,600 32,600 Annual Cost of Water (\$/acft) \$992 \$1,359 \$1,243 Annual Cost of Water (\$/1000 gal) \$3.04 \$4.17 \$3.81	Description	GW only	SW only	SW and GW
Annual Cost of Water (\$/acft) \$992 \$1,359 \$1,243 Annual Cost of Water (\$/1000 gal) \$3.04 \$4.17 \$3.81	Yield (acft/yr)	14,000	18,600	32,600
Annual Cost of Water (\$/1000 gal) \$3.04 \$4.17 \$3.81	Annual Cost of Water (\$/acft)	\$992	\$1,359	\$1,243
	Annual Cost of Water (\$/1000 gal)	\$3.04	\$4.17	\$3.81





Background Substantial needs in Williamson County No user has large surplus Multiple strategies evaluated to potentially meet the needs Three steps: Conservation recommendations Remaining small WUG needs Remaining large needs Cedar Park, Leander, Round Rock, Hutto, Georgetown, County-Other, Mining

Williamson County Needs

	WUG Needs/Surpluses (acre-feet/year)						
EntityWUGName	2020	2030	2040	2050	2060	2070	
BARTLETT	-102	-114	-130	-147	-168	-189	
BRUSHY CREEK MUD	-246	-206	-191	-193	-210	-231	
CEDAR PARK	-3,088	-4,799	-4,825	-4,792	-4,775	-4,768	
COUNTY-OTHER	-780	1,461	-3,627	-8,231	-23,882	-37,798	
FLORENCE	-35	-38	-42	-50	-59	-72	
GEORGETOWN	-10,023	-18,733	-27,734	-38,634	-51,172	-65,608	
GRANGER	22	13	2	-14	-33	-56	
НИТТО	-907	-3,046	-3,304	-5,437	-8,596	-10,703	
LEANDER	-1,364	-5,130	-8,258	-10,881	-14,576	-19,041	
LIBERTY HILL	-90	-90	-90	-90	-90	-90	
PALOMA LAKE MUD 1	-168	-243	-198	-123	-25	76	
ROUND ROCK	2,232	-2,519	-8,632	-15,915	-16,255	-16,642	
SOUTHWEST MILAM WSC	34	-51	-109	-112	-150	-217	
IRRIGATION	-172	-172	-172	-172	-172	-172	
MINING	-4,722	-5,804	-6,921	-8,112	-9,339	-10,743	
					A State		
					Y	1	











Cedar Park									
Plan Element	2020	2030	2040	2050	2060	2070			
Projected Surplus/(Shortage) (acft/yr)	-3,088	-4,799	-4,825	-4,792	-4,775	-4,768			
Conservation									
Supply From Plan Element (acft/yr)	-	1,672	3,197	4,626	5,932	6,250			
Projected Surplus/(Shortage) after Conservation	-3,088	-3,127	-1,628	-166	1,157	1,482			
Brushy Creek RUA									
Supply From Plan Element (acft/yr)	0	0	0	0	0	0			
Unit Cost (\$/acft)	ND	ND	ND	ND	ND	ND			
Reuse									
Supply From Plan Element (acft/yr)	1,120	1,120	1,120	1,120	1,120	1,120			
Unit Cost (\$/acft)	\$609	\$609	\$93	\$93	\$93	\$93			
Voluntary Redistribution through Brushy	Creek RUA	Project							
Supply From Plan Element (acft/yr)	1,968	2,007	508						
Unit Cost (\$/acft)	\$836	\$836	\$512			and the second se			
Unit Cost (\$/acit) \$630 \$830 \$512									

2000 2030 64 -5,130	2040 -8,258	2050 -10,881	2060 -14,576	2070 -19,041
64 -5,130	-8,258	-10,881	-14,576	-19,041
	-	-	-	-
64 -5,130	-8,258	-10,881	-14,576	-19,041
00 17,600	17,600	17,600	17,600	17,600
28 \$1,128	\$645	\$645	\$645	\$645
ion through BCF	RUA			
				1,441
				\$151
	64 -5,130 00 17,600 28 \$1,128 ion through BCF	64 -5,130 -8,258 100 17,600 17,600 28 \$1,128 \$645 100 through BCRUA	64 -5,130 -8,258 -10,881 100 17,600 17,600 17,600 28 \$1,128 \$645 \$645 100 through BCRUA	64 -5,130 -8,258 -10,881 -14,576 100 17,600 17,600 17,600 17,600 28 \$1,128 \$645 \$645 \$645 ion through BCRUA

Round Rock								
Plan Element	2020	2030	2040	2050	2060	2070		
Projected Surplus/(Shortage) (acft/yr)	2,232	-2,519	-8,632	-15,915	-16,255	-16,642		
Conservation								
Supply From Plan Element (acft/yr)	-	1,934	4,192	5,026	4,972	4,951		
Projected Surplus/(Shortage) after Conservation	2,232	-585	-4,440	-10,889	-11,283	-11,691		
Brushy Creek RUA								
Supply From Plan Element (acft/yr)	24,400	24,400	24,400	24,400	24,400	24,400		
Unit Cost (\$/acft)	\$976	\$976	\$623	\$623	\$623	\$623		
Alternative No. 1: Alcoa Property Supplies and/or Williamson County Groundwater - South Option								
Supply From Plan Element (acft/yr)		585	4,440	10,889	11,283	11,691		
Unit Cost (\$/acft)								

Hutto								
Plan Element	2020	2030	2040	2050	2060	2070		
Projected Surplus/(Shortage) (acft/yr)	-907	-3,046	-3,304	-5,437	-8,596	-10,703		
Conservation	Conservation							
Supply From Plan Element (acft/yr)	-	-	-	-	-	-		
Projected Surplus/(Shortage) after Conservation	-907	-3,046	-3,304	-5,437	-8,596	-10,703		
Williamson County GW Supply - South	Option							
Supply From Plan Element (acft/yr)	907	3,046	3,304	5,437	8,596	10,703		
Unit Cost (\$/acft)	\$1,670	\$1,264	\$300	\$300	\$300	\$300		
Alt No. 1: Alcoa Property Supply								
Supply From Plan Element (acft/yr)				2,133	5,292	7,399		
Unit Cost (\$/acft)				\$1,243	\$1,243	\$499		
Unit Cost (\$/acit)				\$1,243	\$1,243	\$499		

arge WUG Needs							
Georgetown							
Plan Element	2020	2030	2040	2050	2060	2070	
Projected Surplus/(Shortage) (acft/yr)	-10,023	-18,733	-27,734	-38,634	-51,172	-65,608	
Conservation							
Supply From Plan Element (acft/yr)		2,884	7,106	12,854	20,175	28,862	
Projected Surplus/(Shortage) after Conservation	-10,023	-15,849	-20,628	-25,780	-30,997	-36,746	
WTP Expansion							
Supply From Plan Element (acft/yr)	17,000	17,000	17,000	17,000	17,000	17,000	
Unit Cost (\$/acft)	\$576	\$576	\$266	\$266	\$266	\$266	
Lake Georgetown ASR							
Supply From Plan Element (acft/yr)			8,700	8,700	8,700	8,700	
Unit Cost (\$/acft)			\$5,126	\$5,126	\$1,500	\$1,500	
Reuse - Dove Springs							
Supply From Plan Element (acft/yr)		1,456	1,456	1,456	1,456	1,456	
Unit Cost (\$/acft)		\$359	\$359	\$45	\$45	\$45	
Alt. No. 1: Alcoa Property Supply							
Supply From Plan Element (acft/yr)				9,590	9,590	9,590	
Unit Cost (\$/acft)				\$1,243	\$1,243	\$499	
Alt. No. 2: Williamson County GW Supp	ly - North Op	otion					
Alt. No. 3: Williamson County GW Supp	ly - South O	otion					

Large	WUG	Needs
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County-Other								
	2020	2030	2040	2050	2060	2070		
Projected Surplus/(Shortage) (acft/yr)	-780	1,461	-3,627	-8,231	-23,882	-37,798		
Conservation								
Supply From Plan Element (acft/yr)	-	288	948	1,390	2,923	4,281		
Projected Surplus/(Shortage) after Conservation	-780	1,749	-2,679	-6,841	-20,959	-33,517		
Purchase Supply from Round Rock and	Purchase Supply from Round Rock and/or Georgetown							
Supply From Plan Element (acft/yr)	780	780	2,679	2,679	2,679	2,679		
Unit Cost (\$/acft)	\$976	\$976	\$623	\$623	\$623	\$623		
Purchase from SAWS Vista Ridge								
Supply From Plan Element (acft/yr)	5,700	5,700	5,700	5,700	5,700	5,700		
Unit Cost (\$/acft)	\$2,177	\$2,177	\$2,177	\$2,177	\$2,177	\$2,177		
Williamson County GW Supply - North Option								
Supply From Plan Element (acft/yr)				4,162	4,162	4,162		
Unit Cost (\$/acft)				\$1,254	\$1,254	\$300		
Alcoa Property Supply								
Supply From Plan Element (acft/yr)					8,418	20,976		
Unit Cost (\$/acft)					\$1,243	\$1,243		
Alternative No. 1: Williamson County GW Supply - South Option								



Summary of Potential Strategies for Williamson County WUGs with Large Needs (after Conservation and other strategies)

	2070	Alcoa F	Property	Williamson Cou	nty Groundwater
	Need	GW Only	GW & SW	North Option	South Option
Supply Available		14,000	32,600	41,300	10,622
Potential Users					
Hutto	10,703				10,703
Georgetown	9,590	9,590			
County-Other	25,138		20,976	4,162	
Total	45,431	9,590	20,976	4,162	10,703
Alternatives					
Hutto	10,703	10,703			
Georgetown	9,590			9,590	
County-Other	25,138			20,976	
Round Rock	45,431	11,691	11,691	11,691	
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6.3. Report and possible discussion on updates from other regional planning groups (Regions B,C,F,H,K,L &O)



6.4. Report and possible discussion on Groundwater Management Area (GMA) activities.



6.5. Report and possible discussion on agency communication and information.



6.6. Discussion and possible action on report by Brazos G Administrator.



6.7. Report and possible discussion from Brazos G Chair.



7. DISCUSSION AND POSSIBLE ACTION ON NEW BUSINESS TO BE CONSIDERED AT NEXT MEETING

- 8. CONFIRMATION OF NEXT MEETING DATE
- 9. ADJOURN