

To: Brazos G Regional Water Planning Group	
From: David Dunn, PE Cory Shockley, PE Peter Newell	Project: Brazos G 2011 Regional Water Plan
CC: Trey Buzbee, Brazos River Authority	
Date: August 13, 2009	Job No: 00010478-001

RE: Status of Updates to Water Management Strategy Evaluations for 2011 Brazos G Regional Water Plan

The 2006 Brazos G Regional Water Plan (Plan) contains technical evaluations for a number of water management strategies. These strategies were evaluated under the hydrologic assumptions used for the 2006 Plan, including estimates of groundwater availability and surface water availability modeling assumptions using the Brazos G WAM. Costs for these strategies were evaluated using second quarter 2002 prices. The water management strategy evaluations are included in Volume II of the 2006 Plan (Section 4B), and can be viewed and downloaded from the Brazos G website at the following link:

<http://www.brazosgwater.org/229.html>

For the 2011 Plan, these strategy evaluations are being updated to reflect the revised hydrologic assumptions utilized in the 2011 Plan, with costs updated to September 2008 prices. In addition to the strategies evaluated for the 2006 Plan, several new strategies have been identified that are being evaluated for possible recommendation in the 2011 Plan.

The following table summarizes the status (as of the date of this memorandum) of the evaluation for each listed strategy. When individual evaluations are completed, the draft evaluations will be posted on the Brazos G website for review.

Table 1. Status of Water Management Strategy Evaluations.

Report Section	Strategy	Status	Date Completed
4B.2	Water Conservation	Recommended approach will be presented to planning group at 8/19/2009 meeting	
4B.3	Wastewater Reuse	Potential reuse supplies are being identified. These will be incorporated into strategy evaluation and costs will be updated.	
4B.4	BRA System Operations	Hydrology model is being updated to determine quantity of water available. Coordination will take place with Region H consultants to recommend division of water available from option between Brazos G and Region H.	
4B.5	Lake Granger Augmentation (Conjunctive Use)	This strategy is being updated by Freese and Nichols (subconsultant to HDR).	

Report Section	Strategy	Status	Date Completed
4B.6.2	Desalination (Lake Granbury)	No work has been initiated.	
4B.6.3	Desalination (Brackish Groundwater for NE Johnson County)	No work has been initiated.	
4B.7	Augmentation of Millers Creek Reservoir	No work has been initiated. The North Central Texas Municipal Water District plans to request evaluation of a downstream reservoir dam site that will impact the analysis of this option.	
4B.8.1	ASR (Seymour Aquifer in Knox and Haskell Counties)	Costs and hydrology have been updated. Strategy text is in process of being updated.	
4B.8.2	ASR (Trinity Aquifer in Johnson County)	Costs and hydrology have been updated. Strategy text is in process of being updated.	
4B.9	Brush Control and Range Management	No update to this water management strategy evaluation is planned.	1/1/06
4B.10	Weather Modification	No update to this water management strategy evaluation is planned.	1/1/06
4B.11.1	TRA Reuse Supply through Joe Pool Lake	Costs for this strategy are being updated to September 2008 prices. No other updates are planned.	
4B.11.2	Regional Surface Water Supply to Williamson County from Lake Travis	Costs and project configurations are being updated to match the planned project, which is being developed by the Brushy Creek Regional Water Authority.	
4B.12.1	Cedar Ridge Reservoir	Costs and hydrology have been updated. Strategy text is in process of being updated.	
4B.12.2	South Bend Reservoir	Costs and hydrology have been updated. Strategy text is in process of being updated.	
4B.12.3	Throckmorton Reservoir	Costs and hydrology have been updated. Strategy text is in process of being updated.	
4B.12.4	Double Mountain Fork Reservoir	Costs and hydrology have been updated. Strategy text is in process of being updated.	
4B.12.5	Turkey Peak Reservoir	Costs and hydrology have been updated. Strategy text is in process of being updated.	
4B.12.6	Little River Reservoir	Costs and hydrology have been updated. Strategy text is in process of being updated.	
4B.12.7	Millican Reservoir	Costs and hydrology have been updated. Strategy text is in process of being updated.	
4B.12.8 (new section)	Coryell County Reservoir (New Strategy in 2011 Plan)	Initial meeting with Coryell County judge was held July 21, 2009. Four potential reservoir sites have been identified and are being evaluated.	
4B.13.2	City of Groesbeck Off-Channel Reservoir	Costs and hydrology have been updated. Strategy text is in process of being updated.	

Report Section	Strategy	Status	Date Completed
4B.13.3	Wheeler Branch Off-Channel Reservoir	This reservoir has been constructed. The 2006 Plan was amended by the Somervell County Water District to include a detailed water management strategy to treat and deliver water from the reservoir.	
4B.13.4	Peach Creek Off-Channel Reservoir	No work has been initiated.	
4B.13.5	Little River Off-Channel Reservoir	Costs and hydrology have been updated. Strategy text is in process of being updated.	
4B.13.6	Lake Palo Pinto Off-Channel Reservoir	Costs and hydrology have been updated. Strategy text is in process of being updated.	
4B.14.1	Bosque County Regional Project	No work has been initiated.	
4B.14.2	West Central Brazos Water Distribution System	No work has been initiated.	
4B.14.3	Interconnection of City of Abilene System with City of Sweetwater	No work has been initiated.	
4B.14.4	Interconnection of City of Waco with Neighboring Communities	Strategies will be updated to reflect information developed in Phase 1 study for McLennan County. Increased estimates of groundwater supply from the Trinity Aquifer are expected to eliminate needs for several WUGs.	
4B.14.5	Interconnection of Central Texas WSC with Salado WSC	No work has been initiated.	
4B.15.1	Carrizo-Wilcox Aquifer Supplies to Williamson County	No work has been initiated.	
4B.15.2	Carrizo-Wilcox Aquifer Supplies to Brazos County	No work has been initiated. Coordination with the Cities of Bryan and College Station will continue.	
4B.16	Voluntary Redistribution	No work has been initiated.	
n/a	Additional Water Management Strategies/Strategies for New WUGs	As needs for specific WUGs and WWPs are identified, additional water management strategies will be identified, largely to be system interconnects and/or purchases of water from regional providers. These will be evaluated on an ongoing basis.	
n/a	Stonewall, Garza and Kent County Chloride Control Project	Salinity modeling software and data sets have been obtained from Texas A&M University. Progress has been initiated on the modeling required for this strategy.	
n/a	Reallocation of Storage in Federal Reservoirs	This strategy is being updated by Freese and Nichols (subconsultant to HDR).	
n/a	BRA Main-Stem Supplies to Tributary Areas	This strategy is being updated by Freese and Nichols (subconsultant to HDR).	

Report Section	Strategy	Status	Date Completed
n/a	Update Brushy Creek Reservoir Evaluation	This strategy is being updated by Freese and Nichols (subconsultant to HDR).	
n/a	Abilene Water Supply from Possum Kingdom Reservoir	Data have been obtained from the City of Abilene and the strategy is currently being documented.	