

Aqua Strategies Contract Phase II

Presented By
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Environmental and Compliance Manager

Meeting Date: October 26, 2020



System Operation (SYSOP) Permit

- Water Use Permit granting BRA right to use:
 - 106,031 acre-feet of long-term, firm water
- Project to obtain permit approved by BRA Board of Directors in April 2003
- Permit issued by TCEQ in November 2016
- Permit ruled incontestable in September 2018
- System revenue potential approximately \$7.3 million per year at FY 2021 rates



Water Management Plan (WMP)

- Required by SYSOP Permit
- Road map of how we operate and use the water granted in the permit
- WMP must be updated at a minimum, every ten years after the issued date of the SYSOP permit
 - Applications for reconsideration or amendment subject to state public notice and contested case procedures
 - First update of the WMP is due to TCEQ in November 2026
- WMP must include:
 - Accounting and Delivery Plan
 - Environmental Flow Conditions that comply with TCEQ adopted Environmental Flow Standards
 - Maximum diversion rates for diversions
 - Method to determine the amount of firm and non-firm water available at any location



Texas Parks and Wildlife Department 2011 Memorandum of Understanding

- TPWD and BRA agree to work together to protect and maintain environmental health of the basin
- Development of draft environmental flow provisions for SYSOP permit
- TPWD agrees to support the environmental flow requirements in the SYSOP Permit



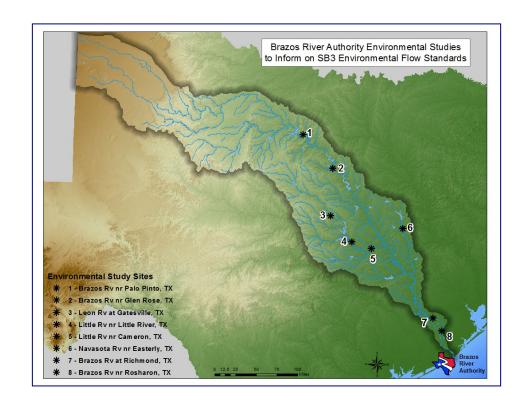
Texas Parks and Wildlife Department 2014 Memorandum of Understanding

- TCEQ adopts Environmental Flow (E-flow) Standards in 2014
 - Negates some of the items agreed to in SYSOP permit as a result of 2011 TPWD MOU
 - E-flow standard require periodic adaptive management reviews
- 2014 MOU responds to these changes
 - BRA will perform baseline environmental studies at 8 locations in the basin with E-flow standards and Aquilla Creek
 - TPWD may perform studies at 7 locations in the basin not included in the E-flow standards



2014 TPWD MOU - BRA Baseline Studies

- Flow specific to baseline flows in E-flow standards
- 15 macroinvertbrate, mussel, and fish assessments, and instream habitat mapping
- 5 riparian tree surveys, channel cross-section surveys, and sediment sample collection and analysis





Aqua Strategies Contract

- Executed in FY 2016
- Two-phase contract
- Support to Environmental Services regarding the long-term implementation of environmental flow initiatives related to the
 - System Operation Permit,
 - Water Management Plan
 - 2014 Memorandum of Understanding (MOU) with the Texas Parks and Wildlife Department (TPWD).

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Phase 1

- Completed within budget
- Tasks
 - Development of environmental flows achievement report methodology
 - Assist Environmental Services with:
 - Develop baseline environmental flow study protocols
 - Completing baseline environmental flow studies at nine locations in Brazos Basin





Baseline Assessment Events Completed to Date

Site	Required		Completed	
	Riparian	Instream	Riparian	Instream
Brazos River near Palo Pinto	5	15	5	16
Brazos River near Glen Rose	5	15	5	7
Brazos River near Richmond	5	15	3	5
Brazos River near Rosharon	5	15	4	5
Aquilla Creek	5	15	5	14
Navasota River near Easterly	5	15	2	8
Leon River near Gatesville	5	15		2
Little River near Little River Academy	5	15		
Little River near Cameron	5	15		



Phase 2 Tasks

- Continued assistance with baseline instream flow study data collection, analysis and reporting
- Training staff to complete Environmental Flows Achievement Report
- Analysis and response coordination
 - Senate Bill 3 Environmental Flow Standards Revisions
 - Water Management Plan application for reconsideration



Contract Budget

- Phase 1 \$675,000
- Phase 2 \$950,000
 - Multiyear Contract Term FY 2021 2030
 - Necessary for long-term maintenance of SYSOPs permit and associated water contracts
 - Defined task expenses to be similar to Phase 1
 - Remaining \$275,000 only if necessary
 - E-flow adaptive management review
 - WMP reconsideration
- •Total \$1,625,000



BE IT RESOLVED that the Board of Directors of the Brazos River Authority hereby authorizes the General Manager/CEO to execute an amendment(s) authorizing Phase Two of the Aqua Strategies, Inc. contract for Support for Environmental Flow Initiatives Related to the System Operation Permit and Water Management Plan.



