



Monitoring to Support Instream Flow Standards

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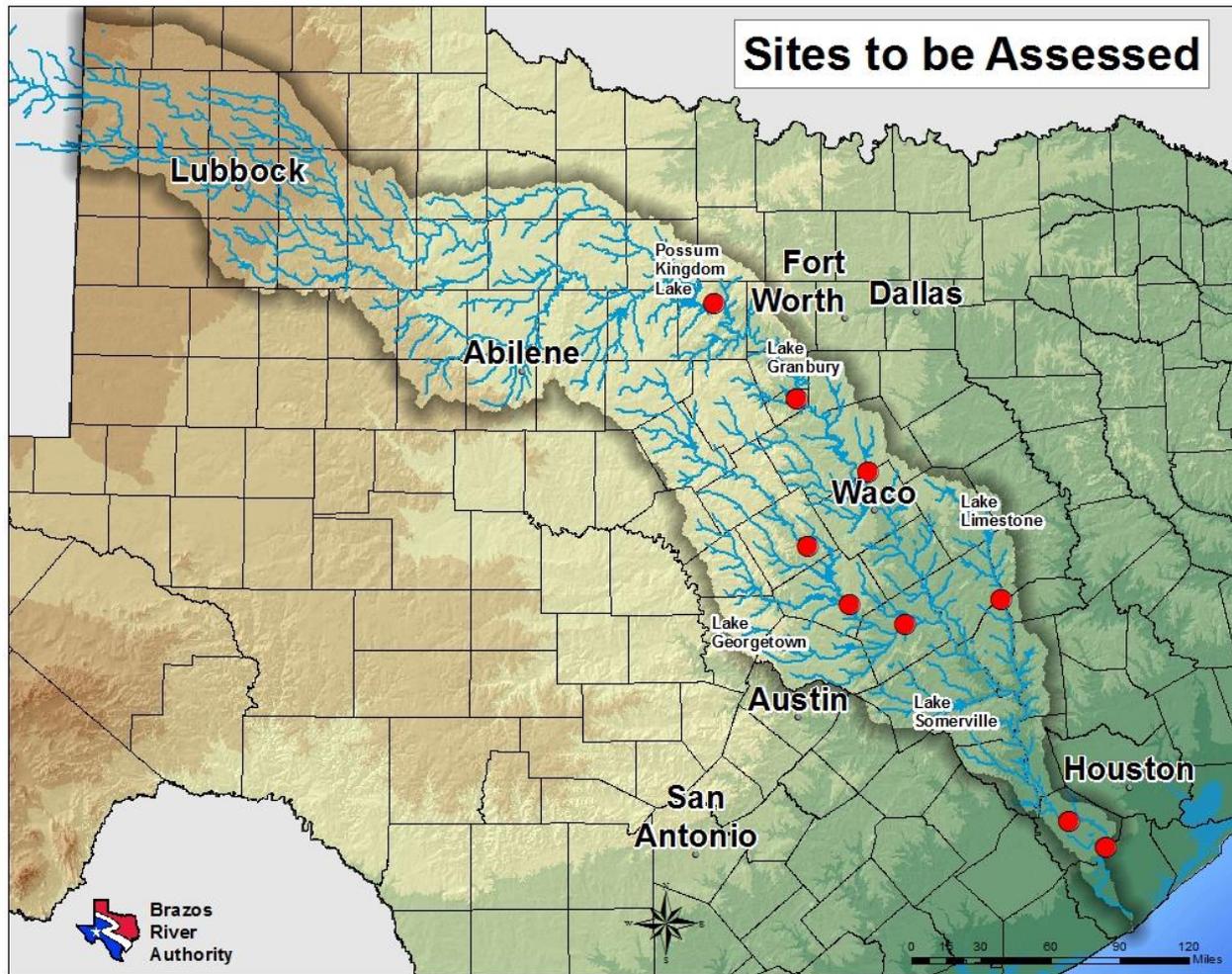
Senate Bill 3

- **80th Texas Legislature established process to develop environmental flow standards for all major river basins**
- **Stakeholder and science driven process**
- **Environmental flow standards adopted by TCEQ for 19 sites in the Brazos basin**
- **Standards to be revisited every 10 years through stakeholder and scientific process**



BRA Monitoring to Support Instream Flows

- **Monitoring at 9 locations across Brazos**
- **Goal: to fill data gaps identified during the development of the standards**
- **Gathering extensive baseline data**





Components of the Studies to be Performed at Each Site

- **Discharge, velocity, depth**
- **Temperature, pH, Conductivity, Dissolved Oxygen**
- **Fixed Photography, Instream Cover, Habitat Type**
- **Macroinvertebrates, Mussels, Fish**
- **Riparian Trees**
- **Channel surveys**
- **Sediment**





Scheduling

- **Dependent on the occurrence of specific flow levels**
- **Minimum of 5 years of assessment at each site**
- **Events spread across spring, summer and fall seasons**
- **15 events per site for biology**
- **5 events per site for channel, sediment and riparian trees**
- **Consulted with TPWD on priorities**
- **Palo Pinto, Glen Rose, and Aquilla Creek first priority**
- **Richmond and Rosharon second tier**



Future Sites

- **Additional sites may be added based on staff availability and changes to instream flow regulations**



Brazos River Authority