

**GUIDELINES FOR THE PREPARATION OF
WATER SUPPLY ACCOUNT (WSA)
ENGINEERING FEASIBILITY REPORTS**
(Formerly WRD-004)

This guidance is offered to assist an applicant in providing engineering data needed for supporting an application to the Texas Water Development Board relative to Chapter 363.13 (Engineering Feasibility Data) and Chapter 363.16 (Pre-Design Funding Option) of Board rules.

I. Required Information for Engineering Feasibility Report (Pre-Design Funding Option)

- A. Name of applicant
- B. Name, address and telephone number of project engineers
- C. Description of service area and need for project
- D. Maps or drawings that fully locate the project area(s)
- E. Population and water use information including historical and current data and projections of future growth and use for all areas to be served as well as an explanation of procedures, methodologies and underlying assumptions employed in the formulation of those estimates
- F. Description of all alternatives considered
- G. A discussion of known permitting, social or environmental issues which may affect the alternatives
- H. Current estimated cost and allocation of costs to each project element including engineering, legal and other fees
- I. Project implementation schedule
- J. Signature and seal of a professional engineer registered in the State of Texas

II. Required Information to Complete Engineering Feasibility Report

- A. Description of existing water supply facilities with information on type of treatment, capacity of facilities and adequacy with regard to water delivery and system pressure
- B. Full description of current and proposed water sources with information as to quantity and quality available
- C. Description of the preferred alternative, including reasons for its selection
- D. Statement on status of any required permits, approvals and/or contracts for the project
- E. Basic design data including pumping capacities, water storage and flexibility of system operation under normal and emergency conditions
- F. Any additional information deemed necessary by the Executive Administrator

III. Requested additional information for water supply reservoir projects

- A. An area map showing estimated acreage to be acquired and proposed take-line
- B. Project delineated on a topographic quad sheet with normal, 100-year and maximum probable design water surfaces indicated
- C. Proposed conservation, sediment, flood control and other storage capacities with corresponding areas and elevations
- D. Yield of the project based on efficiency, economics, environmental concerns, 10- to 30-year needs, and expected firm annual yield as proposed
- E. Expected quality of water to be impounded
- F. Existing water rights and purposes of use affected by the project
- G. Estimated total land acquisition cost including provision for projected appraisal, title search, legal and other associated costs
- H. Description of all improvements (including roads, cemeteries, railroads, and public utilities) to be relocated or protected in the project area
- I. Letters, agreements, or other evidence from owners and/or responsible entities on improvements to be relocated or protected stating their position on acceptable means for such relocation or protection and the estimated cost
- J. Proposed recreational development and management plan, including anticipated buildup in demand, initial facilities to be provided and proposed are to be dedicated to recreational use
- K. Geologic evaluation of the site accompanied by drilling logs showing sufficient details to indicate that a suitable development site has been selected

IV. Requested additional information for projects involving purchases of facilities

- A. Inventory and current valuation of facilities to be purchased
- B. General description of the capacities and capabilities of the facilities
- C. Historical operating and maintenance records
- D. Information on 100-year flood plain and development in the project area
- E. Access to facilities for TWDB staff site inspection