

2023 Kyle Reclaimed Water Master Plan

The Kyle City Council approved the 2023 Reclaimed Water Master Plan at the September 19, 2023 Council Meeting. In February 2023, [Congressman Lloyd Doggett secured \\$2 million in direct federal appropriations](#) for Kyle to use toward the engineering and drafting of the Master Plan.

The Central Texas Region, which includes the City of Kyle (City), is experiencing rapid population growth, causing an increase in potable water consumption demand and prompting the City to find ways to reduce consumption for nonpersonal use. The City identified wastewater recycling and reuse as a promising strategy to reduce potable water demands placed upon the existing supply and production facilities.

The City has retained the services of Cobb Fendley to develop a Reclaimed Water Master Plan. The purpose of the Master Plan is to evaluate the feasibility of providing reclaimed water to customers including, but not limited to, potential landscape irrigation customers located within and adjacent to the corporate limits of the City.

The contents of the Master Plan include:

- Identification of potential landscape irrigation customers located within and adjacent to the City and estimated landscape irrigation demands.
- Evaluation of the existing City reclaimed water supply available from the existing Wastewater Treatment Plant (WWTP).
- Layout of the proposed Reclaimed Water Distribution System pipeline routes and hydraulic evaluation of the proposed distribution system.
- Review of reclaimed water quality requirements and recommended WWTP improvements addressed in the 2012 RPS/Espey Feasibility Study to meet quality limits.
- Presentation of a proposed implementation plan including an Engineer's Opinion of Probable Construction Costs for the Implementation Plan.
- Providing a determination of a proposed fee for reclaimed water utilizing research of rates being charged by communities in the Central Texas Region

The improvements will need to be constructed in phases due to the size of the proposed reclaimed water system. The project will consist of four phases (see Section 4 for a detailed Exhibit of all four phases). Phases One and Two will be located on the east side of IH-35 and Phases Three and Four will be located on the west side of IH-35. Estimated cost for the first phase of the improvements is \$42,026,392.85. This total includes the cost of demolition, site work, renovation, distribution pipeline installation, and new construction. This Master Plan includes a detailed discussion of the improvements necessary to meet the needs of the City as well as additional details on the phasing and costs associated with the proposed improvements. The cost for all four phases of the proposed reclaimed water improvements is \$110,172,192.30. A detailed cost estimate is provided within Section 5, Tables 17-1 through 17-4 of this Master Plan.

[View the 2023 Reclaimed Water Master Plan](#)

Supporting Documents

- [2023 City of Kyle Reclaimed Water Master Plan 52.74 MB](#)