

Cedar Creek Watershed Dam No. 87A Rehabilitation Project Kaufman County, Texas

History of the Dam:

Cedar Creek Watershed Dam No. 87A is a multi-purpose dam located on the north side of Elmo, Texas, six miles east of Terrell.

The dam was originally constructed in 1955 as a water supply reservoir for the City of Terrell. In 1969, it was modified with the assistance of the USDA Natural Resources Conservation Service (NRCS) under the authority of Public Law 78-534 (Flood Control Act of 1944) to provide flood control benefits.



Why Rehabilitate the Dam?

The dam is 66 years old and does not meet current safety standards for a high hazard dam, it is being rehabilitated to ensure it remains safe and continues to provide flood control and water supply benefits.

Rehabilitation Details

Major project work includes the raising of the dam crest by 4 feet; filling and flattening the downstream slope with general fill and lime-treated fill to a 3H:1V slope ratio; replacement of the upstream stone riprap; construction of a new principal spillway tower and a 54-inch conduit; construction of an impact basin; replacement of the existing structural spillway; widening and improvements to the auxiliary spillway; construction of a new raw water pipeline; and the installation of internal drainage piping along the dam toe and structures.

Project Cost:

The total construction cost will be an estimated \$17.5 million. Construction is scheduled to start in late 2022 with an expected completion date of 2024.

The NRCS is providing technical assistance and covering design and construction inspection costs plus 65 percent of the land rights and construction costs. The remaining 35 percent of the cost will be funded through a grant from the Texas State Soil and Water Conservation Board and funds from the City of Terrell.

Benefits:

Rehabilitation will extend the life and benefits of the dam for another 100 years and provide flood protection for rural areas and homes and businesses downstream. The dam provides flood protection for 24 houses, Interstate 20, US Highway 80, State Highway (SH) 243, Farm-to-Market (FM) 2728, two county roads, and the Union Pacific Railroad.

The rehabilitation project is expected to provide an estimated \$286,300 in average annual benefits.

Partners:

- Kaufman-Van Zandt-Rockwall Soil and Water Conservation District
- Kaufman County Commissioners Court
- Texas State Soil and Water Conservation Board
- City of Terrell
- USDA NRCS

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