

Caney Coon Watershed Dam No. 2 Rehabilitation Project Coal County, Oklahoma

Fact Sheet
January 2014

History of the Dam:

Caney Coon Creek Watershed Dam No. 2M, known locally as Coalgate Reservoir, is located two miles north of Coalgate, Oklahoma. The dam was constructed in 1965 by the City of Coalgate and the Coal County Conservation District with the assistance of the Oklahoma Conservation Commission and the USDA Natural Resources Conservation Service (NRCS) Watershed Protection and Flood Prevention Program.

The dam provides flood control and municipal water for the City of Coalgate as well as recreational areas.

When the Caney Coon Creek Watershed Project was developed in 1958 the population of Coalgate was 2,300 and growing. Thirteen water wells had been drilled between 1910 and 1953, but only five wells were still producing and they were only providing 160,000 gallons per day. Because wells were not going to be an option in the future Caney Coon Watershed Dam No. 2M was planned as a multipurpose structure. The City paid for adding an additional 3,000 acre feet of water storage beyond what was needed for flood control to serve as a water supply.

The dam is one of three dams in the Caney Coon Watershed project, all in Coal County. These dams provide over \$357,000 in average annual benefits providing flood protection for 53 farms and ranches as well as Highways 3 and 21 along with numerous county roads and bridges.



A roller compacted concrete spillway was installed over the top of the dam during rehabilitation of Dam No. 2M to serve as an auxiliary spillway.

Why Rehabilitate the Dam?

The dam was originally designed as a low hazard dam with a 50-year design life. It was reclassified as a high hazard dam due to development downstream. The dam's age and its current high hazard safety criteria triggered its rehabilitation in 2012-2013.

Rehabilitation Plan Details:

Rehabilitation included removing and disposing of the existing concrete principal spillway, constructing a new concrete principal spillway to meet current NRCS requirements and constructing a 300-foot-wide roller compacted concrete (RCC) auxiliary spillway over the top of the dam.

Project Cost:

The NRCS provided technical and financial assistance with the rehabilitation project funding 65 percent of the construction cost. Local project sponsors provided 35 percent of the funds through State appropriations to the Oklahoma Conservation Commission Watershed Rehabilitation Program.

Rehabilitation of the dam cost \$4.7 million. The higher cost of the dam rehabilitation project was due to the necessity of installing the RCC overtopping spillway. The RCC spillway was the only feasible option available to provide the needed auxiliary spillway capacity.

Benefits:

Rehabilitation of the dam extends the life of the dam for another 100 years. The lake will continue to provide a quality water supply for over 80 percent of Coal County's population and it will continue to provide flood protection for the City of Coalgate, agricultural land and roads and bridges.

Partners:

- City of Coalgate
- Coal County Conservation District
- Oklahoma Conservation Commission
- Natural Resources Conservation Service

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