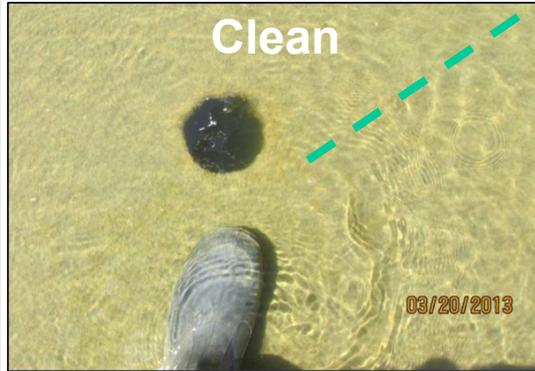




Lake Granbury Hearth Stability Analysis Project

Lake Granbury Hearth



The DeCordova Bend Dam hearth has hundreds of 4-inch drain holes spaced throughout the concrete slabs of the Hearth Sill. The drain holes help relieve uplift pressure. Due to their location in the hearth below the spillway, the drain holes regularly collect debris and are very difficult to keep clean.

The Project

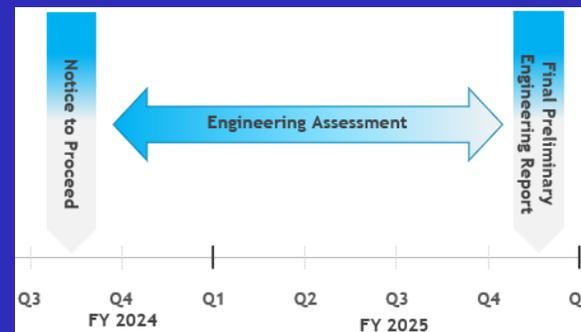
Per an Annual Maintenance Inspection Report, most of the drains within the Hearth (spillway section below the gates) appear to be clogged and need to be cleaned. Consequently, an engineering stability analysis is recommended to evaluate the criticality of these drains and to determine the adverse effects on the stability of the hearth due to the clogging of these drains. These drains are just one of a few design features relieving uplift pressures. There are numerous anchor bars hooked over the hearth slab and driven deep into the bedrock underlying the hearth. In addition, the tailwater backs into the dam, helping to offset uplift pressures. This analysis will confirm the degree of redundancy at the dam, and whether maintenance of the drain holes is required, and the frequency of which, if required.

Current Project Status 7/4/2025

- Notice To Proceed was issued on May 6, 2024
- Task One was completed on June 5, 2024 which focused on an in-depth records review and analysis
- Task Two was completed on June 26, 2024 which included on-site inspections and investigation
- The draft Preliminary Engineering Report with findings and recommendations was submitted on March 14, 2025
- The final sealed Preliminary Engineering Report planned for FY 25 Q4

Planned Schedule

Note: BRA Fiscal Year Runs Sept to Aug



FY 2025 Budget

\$178,000