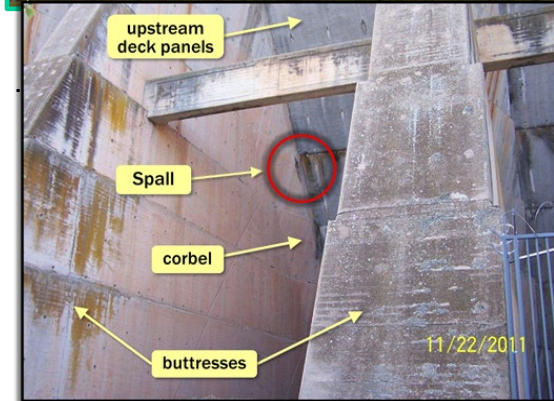




# Morris Sheppard Dam

## Concrete Assessment and Service Life Extension Project



Morris Sheppard Dam was completed in 1941 to create Possum Kingdom Lake. The dam has been in service for more than 80 years. To extend the service life of the dam, the BRA will evaluate the condition of the concrete components of the structure and develop successive steps to maximize the useful service life of the dam.

### The Project

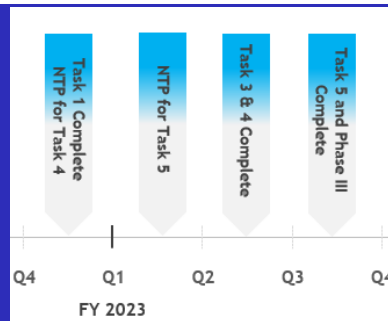
The BRA contracted with Gannett Fleming, Inc. to perform a four-phased approach that will result in recommendations for remediation actions for the dam. Phase I tasks included a comprehensive data review, simplified structural analysis, failure mode analysis, risk analysis, and development of a targeted and credible investigation and testing program. Phase II consisted of executing the investigation and testing program defined in Phase I. Phase III consists of targeted destructive testing and investigation, Failure Mode Progression Structural Analysis, and development of a long-term testing and repair program. Phase IV will prioritize the findings through a risk reduction analysis and result in an actionable plan(s) for remediation of the dam.

### Current Phase III Project Status 1/20/2023

- Task 1 Final Data Summary Report finalized
- Task 2 Failure Mode Progression Structural Analysis report finalized
- Task 3 Bay 31 Destructive Investigation Summary memo under final review
- Task 4 Long-Term Structural Concrete Testing and Repair Program report under final review.
- Task 5 Level 2 Walkway Bridge construction nearing completion
- Phase III should be completed by early FY23 Q3

### Planned Schedule

Note: BRA Fiscal Year Runs Sept to Aug



### Budget Summary

|   |           |
|---|-----------|
| FY 2023 Budget                              | \$559,000 |
| FY 2023 Project Expenses (As of 11/30/2022) | \$16,787  |