# **Lake Hayward Dam Repair**

Overview

Request Owner Brittany O'Mara, Lakes Association

Est. Start Date 08/01/2023 02/01/2025 Est. Completion Date

Department Lakes Association

Type Other

Details

Required lead time for the project. 12-18 months

Basis of Cost Estimate: CT Department of

Administrative Services Information

Estimate is based on consulting engineer's costing of similiar projects.

Basis of Cost Estimate: Other Consulting engineer's cost estimates. Project would be competitively bid with required

specifications

Prevailing Wage: The threshold is \$1,000,000 n/a for new projects and \$100,000 for renovation.

Request Information Update to existing capital plan

Request Authorization Estimated Useful Life of Request. 20+ years

Condition of the infrastructure to be improved Poor

or replaced.

**Basis of Cost Estimate** From architectural/engineering cost estimate

Is the capital request needed to meet legal,

compliance or regulatory mandates?

To what extent is the capital request aligned

with the town's overall strategies?

Aligns with the Plan of Conservation and Development to develop a long-range strategy

for services, programs and facilities

Does the request address a hazard to the

public or employee health and safety?

Does the request reduce, stabilize or increase Stabilize future operating costs?

Does the request change an existing level of Yes, improves level of service

Project Requirements: Is the capital item needed to meet legal, compliance or

regulatory mandates?

2=pending requirement

Value to Citizens: How much value wil the

outcome bring to our citizens?

2=partial value

Strategic Alignment: To what extent is the

project aligned with the government's

strategies

service?

3=full alignment with strategies

### Additional information regarding the condition of the infrastructure.

Lake Hayward's Dam is subject to periodic inspection every seven years as required by CT DEEP. The Association engaged a qualified engineer from DEEP's approved list of dam inspectors. The Consulting Engineer, Karl Asimovic, completed his report. The most critical finding is that significant work needs to be done to reconstruct/construct a new spillway on the

eastern side of the dam. The existing eastern spillway is over 60 years old and has significantly deteriorated requiring a major rebuild of the eastern spillway. Our estimate as of January 2023 based on consulting with the DEEP, is that \$200,000 will be needed to repair the dam. For FY2024 we are requesting an additional \$15,000 toward that cost.

### Coordination with other projects.

The inspection report contained other recommendations including the rebuild of the western spillway and the improvement of the earthen berm between the two spillways. Once the eastern spillway is reconstructed, the Association plans to undertake the reconstruction of the western spillway and the reinforcement of the earthen berm between the two spillways. This second project is estimated to cost approximately \$130,000. This project would also be subject to DEEP approval and would be planned for 2-4 years after the Phase 1 project is completed. As of January 2023 the recommendation has been updated to complete this in all at once in one phase as opposed to two phases.

### **Cost Savings and Operational Costs: Detail**

Operational Costs: There have been repairs and maintenance to both spillways over the years. These include mowing the berms, removal of vegetation from in and around both spill ways and removal of 10 or less cubic yards annually-if needed-of silt buildup in front of the berm as permitted by DEEP. In addition, the Association would have the consulting engineer inspect the dam and spillways every two years to provide professional expertise on the condition of the dam and the spillways. The operational costs will be borne by Lake Hayward.

Cost Savings: There are none. The Association recognizes that it needs professional expertise to advise its Properties Committee on the required maintenance for the dam. The periodic inspections by the consulting engineer in addition to the seven-year inspection required by DEEP will provide the technical expertise. In addition, the Association's insurance carrier is very concerned about the Association's plan for the proper maintenance and reconstruction of the dam. The dam is a major liability of the Association and the Association must provide assurances to its insurance carrier that it is being maintained properly.

#### **Additional Information**

The source of funding for this project comes from three sources initially: Association funding, voluntary contributions from residents from the East Shore Drive property owners community (\$7,385) and the Town of East Haddam's support. In FYE 2022 and 2023, the Town of East Haddam authorized \$15,000 of funding for dam repairs and in FYE 2024 POALH is requesting an additional \$15,000 which would make the Town's commitment \$45,000 or 22.5% of the total estimated cost of \$200,000. POALH and East Shore Drive residents would contribute the remainder.

## Capital Cost

Total To Date \$70,000

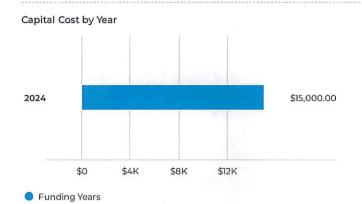
\$15,000

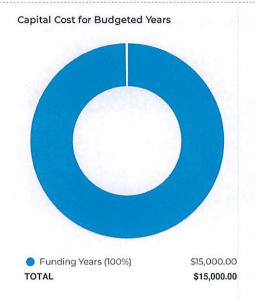
Total Budget (all years)

\$15K

Project Total

\$85K





Capital Cost Breakdown			
Capital Cost	To Date	FY2024	Total
Funding Years	\$70,000	\$15,000	\$85,000
Total	\$70,000	\$15,000	\$85,000

## **Funding Sources**

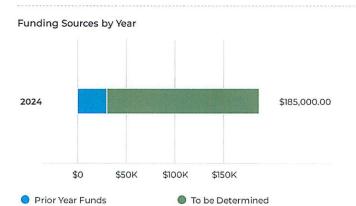
Total To Date **\$70,000** 

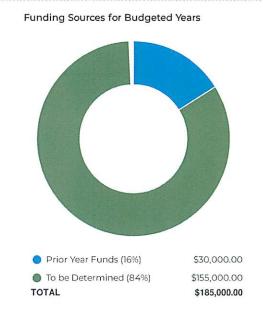
FY2024 Budget \$185,000

Total Budget (all years)

\$185K

Project Total \$255K





Funding Sources	To Date	FY2024	Total
Prior Year Funds	\$30,000	\$30,000	\$60,000
Federal Grant	\$15,000		\$15,000
Contribution/Donation	\$25,000		\$25,000
To be Determined		\$155,000	\$155,000
Total	\$70,000	\$185,000	\$255,000