

# Hershey's Mill Dam

- Regulated dam – D15-125 – requires regular inspections
- Currently found to be structurally deficient
- Three options explored for correcting problems (details following)
- All options require major aesthetic changes to current structure
- PADEP Dam Safety awaiting decided course of action – in the mean time some trees and shrubs to be removed from the dam breast – as per June 12, 2008 PADEP inspection report

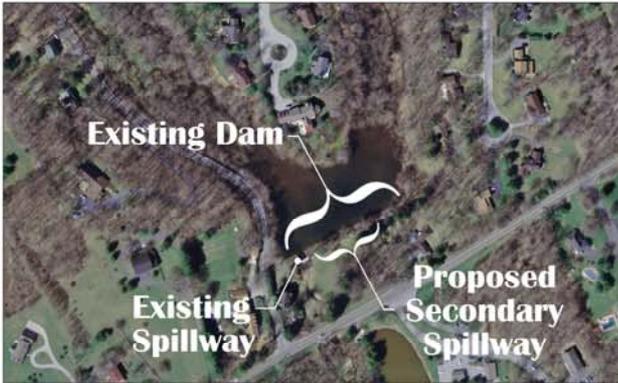


Trees and shrubs to be removed









# HERSHEY'S MILL DAM

## Spillway Capacity Alternative Analysis

### OPTION 1

Create a 200' long, secondary spillway east of the existing one and 0.97' higher. Remove existing trees, stumps and groundcover from top and sides of dam.



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Yerkes Cost Estimate \$259,607.00



# HERSHEY'S MILL DAM

## Spillway Capacity Alternative Analysis

### OPTION 2

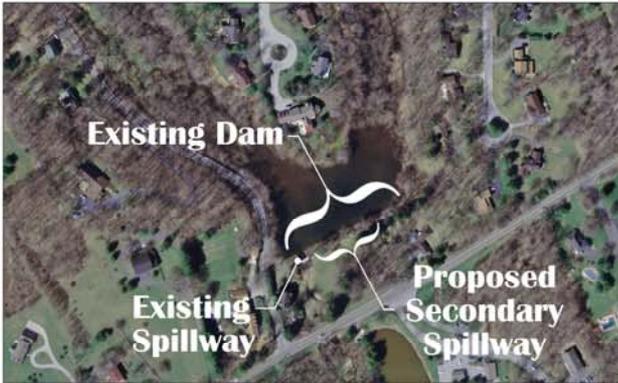
Create a 200' long, secondary spillway east of the existing one and 0.97' higher. Articulated blocks with open cells and connected by cable will be filled with grass seed. Existing trees, stumps and groundcover from top and sides of dam will be removed.

groundcover from top and sides of dam will be removed.

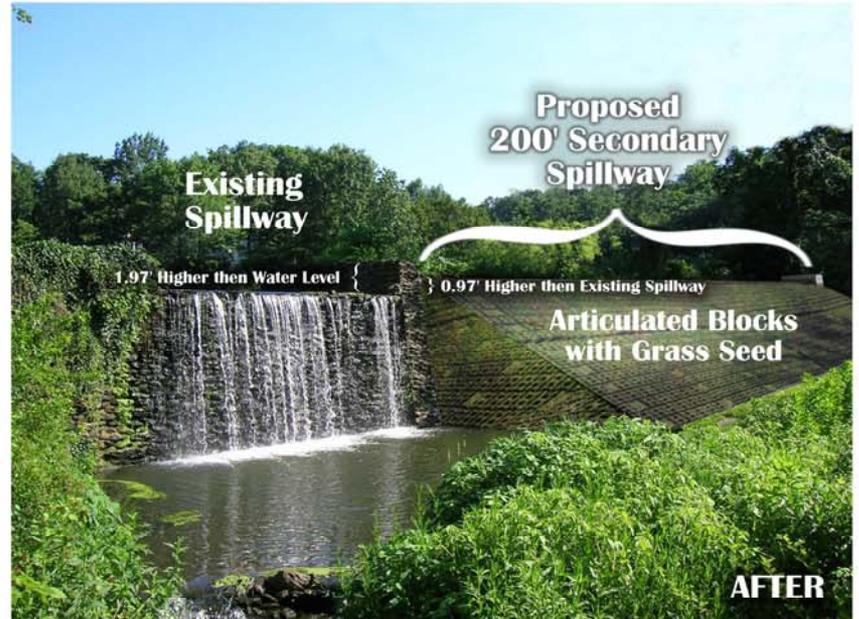
Yerkes Cost Estimate \$280,495.00



**RETTEW**

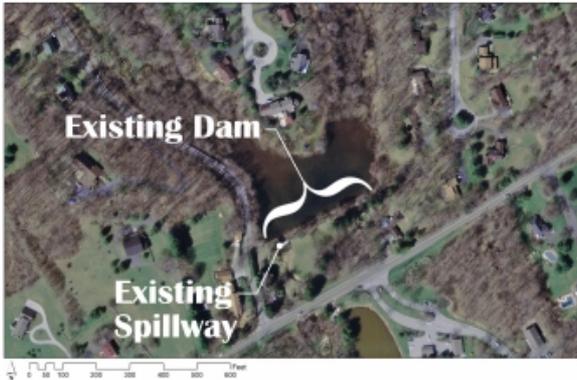


0 50 100 200 300 400 500 600 Feet



# HERSHEY'S MILL DAM

## Spillway Capacity Alternative Analysis



### OPTION 3

Remove dam and allow stream and wetland vegetation to re-establish at natural levels.

Cost estimate further explained.



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# Costs Associated With Removing Dam

• Design and Permit	\$37,000.00
• Demolition/construction	\$170,000.00
• As-built drawing/monitoring	<u>\$11,000.00</u>
• TOTAL	\$218,000.00
• Available grants (American Rivers)	\$100,000.00
• Balance	\$118,000.00
• Yerkes estimated cost @ \$144,782 (design & build)	

# Pros & Cons of Removing Dam

- Pros
  - Safety and liability concerns reduced
  - No more maintenance of structure
  - No more inspection reports for regulated dam
  - Avoidance of future dredging
  - Restore natural stream system
  - Additional flood storage – added freeboard
  - Save \$\$\$
- Cons
  - Loss of dam/historic related aesthetics