Site Conditions
Hole in existing stone-masonry wall allows lake water to fill large voids during high lake levels.

Tree roots & wires create seepage paths.
Hole in tree is from heart-rot

15ft from water

5ft deep hole
Sinkhole 3ft deep

Electric wire is a seepage path
Private Structure Encroachments

Summer Pool Level
El. 891.5 ft
North Bank – Circa 1910
North Bank – Circa 1910
Other Structures
Other Structures
Embankment Deficiencies:

- Uncontrolled Seepage
- Embankment Stability
- Overtopping due to Flooding
Phase I
Interim Risk Reduction Measures
Typical Sheet Pile Wall Construction – Circa 1962
Phase I – IRRM at North Bank

- North Bank Phase I
- Old Dam
- Cutoff Wall: ~40 ft deep
- Temporary Berm
- ~15 ft wide
Phase I
IRRM Construction
Boat Dock Removal – West Bank
Boat Dock Removal – North Bank
Embankment Stability Berm Placement
Embankment Stability Berm Placement
Sellers Point Auxiliary Spillway
Soil Mix Cutoff Wall Installation – Auger Method
Soil Mix Cutoff Wall Installation – Auger Method
Soil Mix Cutoff Wall Installation – Auger Method
Soil Mix Cutoff Wall Installation – Trenching Method
Soil Mix Cutoff Wall Installation – Trenching Method
Subsurface Data Collection
Allow Lake Level Raise
Water Level
MSL Elevation – Sellers Point Spillway

Crest: 892.1ft +/-
Normal SP: 891.5ft +/-
Interim SP: 890.5ft +/-
Current: 888.9ft +/-

Image not to scale. 7-26-16 Elevation at USGS Millersport Gauge (8am).

- All measurements are based on Mean Sea Level (MSL).
- MSL is a standardized reference point to measure elevations.
- Depth is not used due to variations in lake bed.

*Source: ODNR Key Elevations 2016
Phase II
New Dam Concept
Dam Remediation Principles

• **Dam Safety, the design will:**
  – Meet all dam safety requirements.
  – Facilitate safety inspection of dam from land and water.
  – Facilitate rapid repair of dam if needed.
  – Avoid penetrations and other modifications that could weaken dam.
• **Expedited Schedule:**
  – Design and Construction will be expedited to return the lake to normal as soon as possible.
  – ODNR will actively manage water level during construction to assure dam safety.
• **Community Engagement:**
  – ODNR will continue to share information with and receive feedback from stakeholders through multiple channels.
  – Dam safety risk reduction is the top priority for information-sharing with the public.
• **Public Access to State Property**
  
  – ODNR wants to optimize public access to ODNR lands and lake once dam is complete.
  
  – Public safety will be the top consideration for public-access decisions.
• **Design for Future:**
  – Dam will be designed with the community in mind.
  – A buttress wall will be built between new cutoff wall and old dam face.
  – Dam will feature a vertical face on the lakeward side.
  – Berm remnants on the lakeward side of cutoff wall will be removed.
  – Top of dam will accommodate safety inspections using ODNR vehicles.
  – Design will allow for sensible post-construction enhancements that do not elevate risk.
Fiscal Responsibility:

- Ohio legislators have appropriated sufficient taxpayer funds to design and build a safe dam.
- The dam will be designed to minimize ongoing maintenance costs.
- Community proposals for non-dam related enhancements are beyond the current budget scope.
• **Permitting New Docks Along Dam:**
  – ODNR plans to allow homeowners on the dam to have access to docks in the future.
  – Docks will not be allowed to be attached to the dam.
  – Sufficient clearance will be required between docks for dam safety repairs and boater safety.
  – Docks will be allowed to be installed only from lakeward side to avoid damage to the dam.
  – Docks will be required to be installed using ODNR-approved materials and methods to ensure a dock can be readily removed in an emergency.
  – No docks or boatlifts will be allowed to be stored on top of the dam.
• **Permitting New Docks Along Dam (continued):**
  
  – Docks will be restricted to a certain width to ease visual inspection of the dam; e.g. wide “party docks” that could conceal long reaches of the dam will not be allowed.
  
  – Docks and other structures along dam will require ODNR approval before installation.
Phase II – New Dam at West Bank

Conceptual & for informational purposes only. Finishes and configuration are undetermined.
Phase II – New Dam at North Bank

Conceptual & for informational purposes only. Finishes and configuration are undetermined.
Schedule

• **Summer/Fall 2016**
  – Crest clearing
  – Continue Design and Public Outreach

• **Early 2017 – Soil Mix Buttress Construction**

• **Summer 2017 – Dam Crest and Facing Construction**

• **2019 – Construction Complete**
QUESTIONS?

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