



Ohio Department of Natural Resources

BOB TAFT, GOVERNOR

SAMUEL W. SPECK, DIRECTOR

James R. Morris • Chief

Division of Water

July 12, 2001

Dan West, Chief
Division of Parks & Recreation
1952 Belcher Dr., Bldg. C
Columbus, OH 43224

RE: Buckeye Lake Dam
Licking County
9723-004

Dear Mr. West:

Enclosed you will find our May 31, 2001, Miscellaneous Site Visit Memorandum for the above referenced dam.

Please contact Peter George at 614/265-6725 with any questions.

Sincerely,

A handwritten signature in cursive script that reads "James R. Morris".

James R. Morris, P.E.
Chief, Division of Water

JRM:pmg

cc: Ed Frank, Park Manager, Buckeye Lake State Park
Peter George, P.E., Project Manager, Division of Water

Enclosure



MISCELLANEOUS SITE VISIT MEMORANDUM



Name of Dam: Buckeye Lake Dam **File Number:** 9723-004

County: Licking **Date of Inspection:** May 31, 2001 **Time:** 2:00 p.m.

Site Conditions: The temperature was about 75 degrees Fahrenheit and sunny. The ground conditions were dry.

Photographs: Digital photos were taken during the site visit and have been included with this report.

Inspector: Peter George, P.E., Project Manager

Others Present: Ed Frank, Park Manager, Buckeye Lake State Park

Purpose:

The purpose of this visit was to inspect the condition of the West Bank because a large tree was uprooted and fell against the stone masonry wall that is located along the upstream slope. Also, to observe a wet area along the downstream toe of the North Bank at residential address 3733.

Observations:

1. A 36 to 40-inch diameter tree located near the middle of the crest had been uprooted during a recent storm and fallen against the stone masonry wall. The fallen tree was located on the West Bank near station 35+50. The exposed root ball was approximately 7 to 8 feet in diameter and left a cavity in the embankment approximately 1 to 1.5 feet deep.
2. A damp/soft area at residential address 3733 was noted along the downstream toe of the North Bank. The damp/soft area was approximately 15 feet long by 10 feet wide. No standing water or boils were noted. The house at this location was recently removed and most of the area along the downstream slope and toe was unprotected fill material. Grass had started to germinate in this area.

Recommendation:

1. The large tree on the West Bank should be removed and the remainder of the exposed root system ground down 10 to 12 inches below the surface of the crest. Clay material should be compacted in the root cavity and followed by 4 to 6 inches of topsoil. A dense grass cover should then be established.

2. Monitor the damp area on the North Bank at residential address 3733 for changes in size, seepage flow, boils or depressions/low areas. The area should be graded to allow positive drainage away from the toe area and establish a dense grass cover to prevent erosion gullies.



Peter M. George, P.E.
Project Manager
Dam Safety Engineering Program
Division of Water

Date: July 12, 2001

BUCKEYE LAKE DAM

File No. 9723-004, Site Visit 5/31/01



View of an uprooted 36 to 40 inch diameter tree on the West Bank near station 35+50.



Close-up of root cluster that was approximately 7 to 8 feet in diameter.



View of the close proximity of the fallen tree to stone masonry wall along the upstream slope.



An overview of the cross-section of the West Embankment at station 35+50.



View of the wet area along the downstream toe at residential address 3733.



View of wet area from the crest. No flow was noted. The wet area measured to be approximately 15 feet x 10 feet.