



ARKANSAS NATURAL RESOURCES COMMISSION
DAM INSPECTION FORM FOR EARTHEN EMBANKMENT DAMS

INSPECTION TYPE

Name of Dam: _____

☐ ANNUAL

ARNUM: _____

☐ MAJOR STORM EVENT

In accordance with Subtitle IX, Section 709.1 of the Rules Governing Design and Operation of Dams Title 7:
At least once per year and after each major storm event, the owner (or owner's agent) of all permitted dams must perform a visual inspection of the dam. Results of such inspections must be summarized on forms supplied by the Commission and mailed to the Commission office within 10 days of inspection. Commission staff may provide training or assistance in performing or interpreting inspections. Any deterioration of the dam or appurtenances must be reported to the Commission, and remedial measures undertaken after approval by the Chief Engineer.

Date: _____

Weather: _____

Inspected by (Print Name): _____

If an inspection item requires further action on your part, place a check mark to the left of the number of the item.

A. CREST (REFER TO GLOSSARY FOR DESCRIPTION)

☐ 1. How would you describe the vegetation on the crest? (Check all that apply)
Recently Mowed ☐ Overgrown ☐ Good Cover ☐ Sparse ☐
Other/Corrective Action (describe): _____

☐ 2. Are there any trees or other inappropriate or excessive vegetation on the crest? Yes ☐ No ☐
If yes, describe (type of vegetation, size, location, etc.)/Corrective Action: _____

☐ 3. Is there a paved road or driveway on the crest? Yes ☐ No ☐
If yes, describe the condition (for example, good condition, numerous cracks, newly paved)/Corrective Action: _____

☐ 4. Are there any depressions, ruts or holes on the crest? Yes ☐ No ☐
If yes, describe (size, location, etc.)/Corrective Action: _____

☐ 5. Are there any cracks on the crest? Yes ☐ No ☐
If yes, describe (length and width, location, direction of cracking, etc.)/Corrective Action: _____

☐ 6. Other observations on the crest/Corrective Action: _____

B. UPSTREAM SLOPE (REFER TO GLOSSARY FOR DESCRIPTION)

- ☐ 1. What is the reservoir level today? At Normal Pool ☐ Above Normal Pool ☐ ft
Below Normal Pool ☐ ft
- ☐ 2. How would you describe the vegetation on the upstream slope? (Check all that apply)
Recently Mowed ☐ Overgrown ☐ Good Cover ☐ Sparse ☐
Other/Corrective Action (describe): _____
- ☐ 3. Are there any trees or other inappropriate or excessive vegetation on the slope? Yes ☐ No ☐
If yes, describe (type of vegetation, size, location, etc.)/Corrective Action: _____
- ☐ 4. Are there any depressions, bulges, ruts or holes (such as animal burrows) on the slope? Yes ☐ No ☐
If yes, describe (size, location, etc.)/Corrective Action: _____
- ☐ 5. Are there any eroded areas on the slope (such as wave erosion along the shoreline? Yes ☐ No ☐
If yes, describe (size of area, location, severity, etc.)/Corrective Action: _____
- ☐ 6. Are there any cracks, sloughs or slides (vertical cliffs) on the slope? Yes ☐ No ☐
If yes, describe (length, width, height, location, etc.)/Corrective Action: _____
- ☐ 7. Is there any type of slope protection along the shoreline (such as riprap)? Yes ☐ No ☐
If yes, describe what type and its condition (for example, riprap - adequate, inadequate, sparse)/Corrective Action: _____
- ☐ Other observations on the upstream slope/Corrective Action: _____

C. DOWNSTREAM SLOPE (REFER TO GLOSSARY FOR DESCRIPTION)

- ☐ 1. How would you describe the vegetation on the downstream slope? (Check all that apply)
Recently Mowed ☐ Overgrown ☐ Good Cover ☐ Sparse ☐
Other/Corrective Action (describe): _____
- ☐ 2. Are there any trees or other inappropriate or excessive vegetation on the slope? Yes ☐ No ☐
If yes, describe (type of vegetation, size, location, etc.)/Corrective Action: _____
- ☐ 3. Are there any depressions, bulges, ruts or holes (such as animal burrows) on the slope? Yes ☐ No ☐
If yes, describe (size, location, etc.)/Corrective Action: _____

- ☐ 4. Are there any eroded areas on the slope (such as along abutment contacts)? Yes ☐ No ☐
If yes, describe (size of area, location, severity, etc.)/Corrective Action: _____
- ☐ 5. Are there any cracks, sloughs or slides (vertical cliffs) on the slope? Yes ☐ No ☐
If yes, describe (length, width, height, location, etc.)/Corrective Action: _____
- ☐ 6. Are there any wet areas or areas of hydrophilic (lush, water-loving) vegetation? Yes ☐ No ☐
If yes, describe (size of area, location, etc.)/Corrective Action: _____
- ☐ 7. Do any wet areas indicate seepage through the dam (such as rust-colored, stained water)?
Yes ☐ No ☐ N/A ☐
If yes, describe (for example, new area of seepage, no change from past observations, size of area, location)
/Corrective Action: _____
- ☐ 8. Are there any leaks (flowing water) from the slope or beyond the toe of the dam? Yes ☐ No ☐
If yes, describe (location, rate of flow, turbidity of flow)/Corrective Action: _____
- ☐ 9. Other observations on the downstream slope/Corrective Action: _____

D. PRINCIPAL AND EMERGENCY SPILLWAYS (REFER TO GLOSSARY FOR DESCRIPTION)

- ☐ 1. What types of spillways does the dam have (such as corrugated metal, concrete or siphon pipe; concrete or earth channel)?
Principal Spillway _____ Emergency Spillway _____
Other/Corrective Action: _____
- ☐ 2. Has the emergency spillway activated (had flow) since the last inspection? Yes ☐ No ☐
If yes describe (date(s) of flow, reason for activation, depth of flow) /Corrective Action: _____
- ☐ 3. For pipe spillways, is the intake obstructed in any way (such as with excessive debris)? Yes ☐ No ☐
If yes, describe (type of debris, reason for obstruction, etc.) /Corrective Action: _____
- ☐ 4. For pipe spillways, what is the condition of any trash racks (for example, adequate, inadequate, damaged)? /Corrective Action: _____

- ☐ 4. Are there any eroded areas on the slope (such as along abutment contacts)? Yes ☐ No ☐
If yes, describe (size of area, location, severity, etc.)/Corrective Action: _____
- ☐ 5. Are there any cracks, sloughs or slides (vertical cliffs) on the slope? Yes ☐ No ☐
If yes, describe (length, width, height, location, etc.)/Corrective Action: _____
- ☐ 6. Are there any wet areas or areas of hydrophilic (lush, water-loving) vegetation? Yes ☐ No ☐
If yes, describe (size of area, location, etc.)/Corrective Action: _____
- ☐ 7. Do any wet areas indicate seepage through the dam (such as rust-colored, stained water)?
Yes ☐ No ☐ N/A ☐
If yes, describe (for example, new area of seepage, no change from past observations, size of area, location)
/Corrective Action: _____
- ☐ 8. Are there any leaks (flowing water) from the slope or beyond the toe of the dam? Yes ☐ No ☐
If yes, describe (location, rate of flow, turbidity of flow)/Corrective Action: _____
- ☐ 9. Other observations on the downstream slope/Corrective Action: _____

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- ☐ 3. For pipe spillways, is the intake obstructed in any way (such as with excessive debris)? Yes ☐ No ☐
If yes, describe (type of debris, reason for obstruction, etc.) /Corrective Action: _____
- ☐ 4. For pipe spillways, what is the condition of any trash racks (for example, adequate, inadequate, damaged)? /Corrective Action: _____

- ☐ 14. Other observations on the spillways/Corrective Action: _____

E. **DRAWDOWN**

- ☐ 1. Does the dam have a drawdown mechanism for draining the lake? Yes ☐ No ☐
- ☐ 2. When was the drawdown last exercised? _____
- ☐ 3. What is the condition of the valve and pipe? _____
- ☐ 4. Is there any sign of leaking from the valve?(Describe flow) _____
- ☐ 5. Are there any structures directly downstream of the drawdown for energy dissipation?
Yes ☐ No ☐ Describe Structure. _____
- ☐ 6. What is the condition of the structure. _____
- ☐ 7. Other drawdown observations./Corrective Action: _____

F. **INSTRUMENTATION (REFER TO GLOSSARY FOR DESCRIPTION)**

- ☐ 1. Are there any toe drains at the downstream toe or any other seepage drains on the dam?
Yes ☐ No ☐
If yes, describe the condition (for example, clogged, free flowing, deteriorated, good condition) /Corrective Action: _____
- ☐ 2. For drains, is an animal guard installed at the outlet of each drain? Yes ☐ No ☐
If no, which drains lack animal guards? /Corrective Action: _____
- ☐ 3. For drains, measure the rate of flow from each drain and record below (use additional pages if necessary):

Designation/Location of Drain	Flow Rate in CFS	Flow Rate in GPM	Turbidity of Flow (describe – clear, muddy, etc.)

- ☐ 4. Are there any piezometers on the dam? Yes ☐ No ☐
If yes, describe the condition (for example, good condition, damaged, etc.)/Corrective Action: _____
- ☐ 5. For piezometers, does each piezometer have a cap with a lock? Yes ☐ No ☐
If no, which piezometers need caps (to prevent rainwater intrusion) and/or locks (to prevent tampering)?
/Corrective Action: _____
- ☐ 6. For piezometers, are you able to take a measurement (depth to water) in each piezometer?
Yes ☐ No ☐
If yes, record depth to water (in feet) in each piezometer, record on a separate page, and attach to this form.
- ☐ 7. Are there any other monitoring devices on the dam? Yes ☐ No ☐
If yes, describe what type and the condition (for example, monitoring wells - good condition, damaged)
/Corrective Action: _____
- ☐ 8. Other observations on instrumentation/Corrective Action: _____

G. PHOTOGRAPHS

At a minimum, photographs should be taken of the crest, upstream slope, downstream slope and any other notable features.

List of photographs (be sure to date stamp the photos):

EMERGENCY ACTION PLAN (EAP) AND TABLETOP EXERCISE

Date of EAP or last update on file with Dam Safety? Date: _____

Date of last tabletop exercise on file with Dam Safety? Date: _____

Mail or email a copy of this completed form to the attention of the Dam Safety Office at the Natural Resources Division:

By email: whitney.montague@agriculture.arkansas.gov

By mail: Arkansas Department of Agriculture
Natural Resources Division / Dam Safety
10421 West Markham Street
Little Rock, Arkansas 72205

Problems found during your inspection? If a problem is observed, please call the Dam Safety Office at (501) 682-3969 during business hours for guidance and assistance.

If it is an emergency, **please activate your Emergency Action Plan.**