

OPERATION AND MAINTENANCE
Irrigation Reservoir (436)
Tennessee

Landowner/Operator: _____

Practice Location: _____

County: _____ Farm/Tract Number: _____

Prepared By: _____ Date: _____

Inspections and maintenance are required to achieve the intended function, benefits, and life of the practice. The landowner/operator is responsible to establish and implement an inspection and maintenance program. Items to inspect and maintain during the 15-year design life of the practice include, but are not limited to, the following:

Inspect after significant storm events and at least annually to identify repair and maintenance needs.

1. Periodically clean and re-grade facilities to maintain proper flow lines and functionality.
2. Periodically check and remove debris from trash racks and from inlet and outlet structures to assure proper operation.
3. Periodically remove sediment from traps and/or storage facilities to maintain design capacity and efficiency.
4. Periodically inspect or test all pipelines and pumping plant components and appurtenances, as applicable.
5. Maintain all mechanical components in accordance with the manufacturer's recommendations. Repair any damaged, broken, or otherwise inoperable piping, valves, or pumps.
6. Periodically test water quality, as necessary, to evaluate nutrients, pesticides, and pathogens.
7. Periodically inspect embankments and earth spillways.
8. Inspect the downstream toe of the embankment annually. If there are wet areas or seeps at the downstream toe of the embankment, it could be a serious problem. Ask for assistance from a qualified engineer to evaluate the seepage.
9. Repair erosion at outlet of principal spillway pipe, as needed.
10. Fill rills and gullies that occur on the embankment and in the vegetated spillway. Reseed the filled areas.
11. Check frequently for burrowing animals. When found, remove the burrowing animals, replace embankment materials and reseed.
12. Maintain vigorous vegetation in the emergency spillway and on embankments by regular mowing and fertilization. Time the first mowing after nesting birds have hatched (about August 15). Remove excess growth. Do not burn or graze.
13. Prevent trees, brush, and other undesirable vegetation from growing on embankments, abutments, or in the spillway areas. Control tree and bush growth by hand cutting, mowing, or chemicals. Avoid damaging grass with herbicide sprays.
14. Repair damaged, broken, or otherwise inoperable fencing.
15. Operate mowing and other equipment on slopes in accordance with machinery operation manual.

SIGNATURES

Landowner/Operator: _____ Date: _____

Reviewer: _____ Date: _____