

**OPERATION AND MAINTENANCE PLAN
GRADE STABILIZATION STRUCTURE
CODE 410**

Landowner/Operator _____

Job Location _____ GPS _____

Prepared By _____ Date _____

Operation and Maintenance Items

A properly operated and maintained grade stabilization structure is an asset to your farm. This structure was designed and installed to stabilize a watercourse. The estimated life span of this installation is at least 10 - 20 years. The life of this installation can be assured and usually increased by developing and carrying out an effective operation and maintenance program. An effective program includes:

- Erosion, settlement or cracks in earthen sections must be investigated (to determine the cause) and repaired.
- Periodically inspect spillways and control gates, valves and weirs for proper functioning and their ability to maintain the water level to design elevations. Remove debris or flow blockages.
- Inspect concrete for accelerated weathering, spalling, settlement, misalignment or cracks. Repair defects.
- Inspect rock riprap for accelerated weathering and displacement. Repair to original grades if necessary.
- Inspect metal surfaces for rust and other damage. Especially inspect sections in contact with earthfill and/or other materials. Repair or replace damaged sections and apply a protective covering.
- Check for unusual seepage on the backside of dam earthfills. Check for water flowing underneath pipes through earth fills, water flowing in the inlet but not out the outlet, and for water flowing out the outlet but not in the inlet. Make sure all structure drains are functional and soil is not being transported through the drainage system. Screens and/or rodent guards must be maintained and in place.
- Repair any rodent, burrowing animal, vandalism, vehicle, or livestock damage.
- Maintain a vigorous growth of vegetation. This includes reseeding, fertilization, and application of herbicides when necessary. Periodic mowing or short term grazing may also be needed to control height.
- Maintain fences to prevent unauthorized human or livestock entry.

Other _____

