

**NATURAL RESOURCES CONSERVATION SERVICE
OPERATION AND MAINTENANCE PLAN**

IA-620 Underground Outlet

Landowner/Operator: _____ Cost Share Program: _____

Location: Section ____ T ____ N R _____ Prepared By: _____ Date: _____

County: _____ Reviewed with Landowner/Operator: _____ Date: _____

Site description: _____

A properly operated and maintained underground outlet is an asset to your farm. The estimated life span of this installation is at least 20 years. The life of this installation can be assured and usually increased by developing and carrying out a good operation and maintenance program.

This underground outlet _____ designed with an orifice plate(s) to restrict flow and prevent pressure flow in the conduit.

The following tasks are required to properly operate and maintain this practice to obtain satisfactory performance:

1. Inspect all above ground connections, valves, gates, trash racks, screens, animal guards, inlets, pressure relief wells, and outlets after significant storm events and at least annually to identify repair and maintenance needs. Repair or replace components as needed to maintain proper function.
2. If the system was designed with orifice plates, the proper size orifice plate must be kept in place and replaced when damaged in order for the system to function properly.
3. Clear debris from the orifice plate in riser as needed. Maintaining proper sized trash racks and screens on the inlet will limit the chances of debris collecting on the orifice plate.
4. Avoid damage to riser inlets by farm equipment. Mark risers and pressure relief wells, if used, so they are visible to prevent damage by equipment. Promptly repair or replace damaged risers.
5. Remove debris and trash accumulated around riser inlets that might impair water flow.
6. Promptly repair any settlement or piping along drain pipe.
7. Promptly repair any erosion, damage from ice, or other problems at the outlet pipe.
8. Remove trash from the outlet and maintain animal guard.
9. Maintain the required depth of cover over all pipes and structures.
10. Control tree and bush growth near perforated conduits by hand cutting, mowing, or chemicals. Avoid damaging grass with herbicide sprays.
11. Avoid using fire near components made of plastic.
12. Repair all broken subsurface drain lines associated with underground outlets.
13. Eradicate or otherwise remove all rodents or burrowing animals. Immediately repair any damage caused by their activity.
14. To maintain the permeability of surface materials on blind inlets, periodic scouring or removal and replacement of the surface soil layer may be necessary.