

OPERATION AND MAINTENANCE
Livestock Pipeline (516)
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 20-year design life of the practice include, but are not limited to, the following:

1. Inspect after significant storm events and at least annually to identify repair and maintenance needs.
2. Inspect the entire length of the pipeline system for signs of erosion and pipe settlement. This is particularly important for the first two or three years after installation.
3. Repair any settlement or erosion that occurs around the pipe with soil and reseed as needed. If this problem persists, evaluate the pipe for leakage and erosion of the fill material into or along the pipe.
4. Open/close valves in a manner that prevents excessive water hammer.
5. Fill at the specified rate requirements to remove entrapped air and prevent water hammer surges. Appurtenances, such as a flow meter or other means (e.g., number of turns of a gate valve) should be used to determine the rate of flow into the pipeline. If filling at a slow flow rate is not possible, the system shall be open to the atmosphere (outlets open) prior to pressurizing.
6. Inspect and/or test pipeline, valves, pressure regulators, pumps, switches, air vents, screens, filters and other appurtenances.
7. Check and assure proper operation of any backflow protection devices.
8. Check for debris, minerals, algae and other materials which may restrict system flow.
9. Monitor any cathodic protection system.
10. Drain and/or provide for cold weather operation of the system. If the pipeline is connected to a continuous flowing source, such as a spring, maintain flow through the pipe to prevent freezing.
11. Promptly repair or replace damaged or inoperable components.
12. Perform routine maintenance of all mechanical components in accordance with the manufacturer's recommendations.
13. Prior to repairing any electrically powered equipment, electrical service must be disconnected and the absence of stray electrical current verified.

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- 14. Protect the components from damage by farm equipment and livestock. Limit traffic over the pipeline to designated sections that were designed for traffic loads.
- 15. Avoid travel over pipelines by tillage equipment, when the soil is saturated. Avoid any subsoiling operation that may disturb the pipeline.
- 16. Maintain erosion protection at outlets.
- 17. Provide for appropriate trench safety during any excavation for repairs.
- 18. Monitor for rodents or burrowing animals that may cause damage to the pipeline.

Other Items not listed above:

SIGNATURES

Landowner/Operator: _____ Date: _____

Reviewer: _____ Date: _____