

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
NEBRASKA

**OPERATION AND MAINTENANCE PLAN
PUMPING PLANT FOR WATER CONTROL**

Landowner/Operator _____

Job Location _____ GPS _____

County _____ NRD _____ Farm/Tract No. _____

Prepared By _____ Date _____

OPERATION AND MAINTENANCE ITEMS

The life of this pumping plant installation can be assured and usually increased by developing and carrying out a good operation and maintenance program. Operation and maintenance (O&M) is necessary for all conservation practices and is required for all practices installed with NRCS assistance. The landuser is responsible for proper O&M throughout the life of the practice and as may be required by federal, state, or local laws or regulations.

Operation is operating the practice in compliance with all laws, regulations, ordinances, and easements; and in such a manner that will result in the least adverse impact on the environment and will permit the practice to serve the purpose for which it was installed. Maintenance includes work to prevent deterioration of the practice, repairing damage, or replacing components, which fail.

- Maintain pump, electrical, and other related equipment within the electrical code and manufacturer's recommendations. Perform routine maintenance of all mechanical components in accordance with the manufacturer's recommendations. This may include performing motor and engine maintenance according to a fixed schedule based on hours of operation in addition to "as needed" maintenance based on observation.
- Inspect and /or test pipelines and pumping plant components and appurtenances, as applicable. Periodically check all above ground pipeline connections and structures for leaks and proper operation. Repair leaks immediately.
- Inspect metal surfaces for rust and other damage, especially sections in contact with earthfill and/or other materials. Repair or replace damaged sections and apply a protective covering.
- Maintain vigorous growth of desirable vegetative coverings in surrounding areas. This includes reseeding, fertilizing and application of herbicides when necessary. Periodic mowing may also be needed to control height.
- Maintain area around pump and other equipment. Remove all debris that hinders system operation. Provide and maintain adequate surface water drainage around the pumping plant area.
- Prevent, and if necessary, remove crop residue and foreign debris from entering pumping plant facilities. Periodically check and remove debris as necessary from trash racks and structures to assure proper operation.
- Protect the pumping plant from freezing where needed. If parts of the system cannot be drained, a non-toxic antifreeze solution may be added.

