



## CONSERVATION ENHANCEMENT ACTIVITY

**E554118Z1**

## CONSERVATION STEWARDSHIP PROGRAM

### Installation of end of pipe or ditch treatment for phosphorus

#### Conservation Practice 554: Drainage Water Management

**APPLICABLE LAND USE: Crop (Annual & Mixed); Crop (Perennial);  
Associated Ag Land**

**RESOURCE CONCERN ADDRESSED: Water Quality Degradation**

**PRACTICE LIFE SPAN: 1 year**

#### Enhancement Description

Add end of pipe/ditch treatment. If dissolved phosphorus is the pollutant of concern, use Interim CPS 782, Phosphorus Treatment Structure for each drainage outlet in a field.

#### Criteria

- Design system for an expected life of at least 10 years, unless provisions are made for periodic media replacement.
- Size system to reduce phosphorous concentration of water flowing through system.
- Construct surface of system to shed water and allow for settlement. Blend excess soil with the adjacent landscape or haul away.
- Use fence or signage to identify system to avoid equipment travel over system.
- Use a sediment basin, geotextile lining, or containment vessel to prevent migration of soil particles into the phosphorous removal system.
- Use media that is recyclable or disposable when used up in its phosphorus removal capacity. Dispose of media in a proper manner following applicable permits or requirements.



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- Monitor and treat pH levels of discharge water leaving site using media that is recyclable and disposable after spent.
- Phosphorus reducing media can be housed in polyethylene or polypropylene tanks or other approved tank or trench with access ports for clean out and inspection as appropriate.
- Monitor the effects to downstream flows. Initial flow from phosphorus treatment system at start up may contain undesired contaminants.
- Enhancement will comply with all applicable federal, state, and local laws and regulations.

### **Documentation Requirements**

- Plan view of the layout including location.
- Profile of system including structure, typical cross section.
- Details of required structures, material specifications, seeding recommendations using State specific protocol for Phosphorus Treatment Structure, Interim 782.
- Operation and Maintenance plan, including water level management, changes in phosphorus loading into and out of structure, and media replacement, as needed.