Effects of NRCS Conservation Practices - National

Saturated Buffer 604

Redirecting subsurface drainage water discharges onto a riparian buffer for treatment and removal of nitrate

Code: 604 Units: ft. AL-Aso Land
O-Other
W-Water
D-Developed
FS-Farmstead
Pr-Protected
P-Pasture
R-Range
F-Forest

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Call Evanian	Γffo o t	Typical Landuse: C P FS O AL
Soil Erosion Soil Erosion - Sheet and Rill Erosion	<u>Effect</u> 0	Rationale Not Applicable
Soil Erosion - Wind Erosion	0	Not Applicable
Soil Erosion - Ephemeral Gully Erosion	0	Not Applicable
Soil Erosion - Classic Gully Erosion	0	Not Applicable
Soil Erosion - Streambank, Shoreline, Water Conveyance C	0	Not Applicable
Soil Quality Degradation		
Organic Matter Depletion	2	Maintaining water table in the root zone decreases oxidation of organic matter. Lowering water table can increase oxidation in certain situations.
Compaction	0	Not Applicable
Subsidence	2	Reducing oxidation of organic matter will reduce the opportunity for subsidence.
Concentration of Salts or Other Chemicals	0	If the water table is kept high, salt build up may occur.
Excess Water - Seeps	1	Water table is managed to prevent excessive seepage.
Excess Water - Runoff, Flooding, or Ponding	-2	Runoff is controlled to create ponding or flooding conditions.
Excess Water - Seasonal High Water Table	2	Subsurface water is managed to limit periods of saturation compatible with the present or intended land use.
Excess Water - Drifted Snow	0	Not Applicable
Insufficient Water Insufficient Water - Inefficient Use of Irrigation Water	0	Not Applicable
Insufficient Water - Inefficient Moisture Management	0	Not Applicable
Water Quality Degradation Pesticides in Surface Water	2	Drainage reduces runoff and erosion.
Pesticides in Groundwater	2	Drainage increases aerobic pesticide degradation in the root zone during the periods when crops are growing.
Nutrients in Surface water	1	The rate of water release is slower than under natural conditions, allowing more time for some nutrients in solution to volatilize and for sediment-attached nutrient to settle out.
Nutrients in Groundwater	-1	The action increases groundwater elevation which moves it closer in proximity to nutrients. This increases the potential to contaminate groundwater.
Salts in Surface Water	0	The action can reduce the rate at which salt-contaminated water is released, but has no effect on the amount of salt.
Salts in Groundwater	0	Not Applicable
Excess Pathogens and Chemicals from Manure, Bio-solic	1	Water releases are controlled, lowering the overall amount of drainage water released.
Excess Pathogens and Chemicals from Manure, Bio-solic	1	The action will alter the timing and possibly amount of drainage. Holding water in root zone may contribute to pathogen die-off.

Excessive Sediment in Surface Water	0	Not Applicable
Elevated Water Temperature	0	Not Applicable
Petroleum, Heavy Metals and Other Pollutants Transporte	2	Water releases are controlled giving less opportunity for heavy metal-laden sediment to enter surface water.
Petroleum, Heavy Metals and Other Pollutants Transporte	0	Changing the soil water level can affect soil chemistry, which can increase the solubility of some metals. This may make them more or less susceptible to leaching.
Air Quality Impacts		
Emissions of Particulate Matter (PM) and PM Precursors	2	Managing drainage water can keep the soil surface moist, reducing the potential for wind erosion.
Emissions of Ozone Precursors	0	Not Applicable
Emissions of Greenhouse Gases (GHGs)	1	Provides for conditions to promote plant growth. Increased plant growth removes CO2 from the air and stores it in the form of carbon in the plants and soil.
Objectionable Odors	0	Not Applicable
<u>Degraded Plant Condition</u>		
Undesirable Plant Productivity and Health	2	Drainage provides conditions for optimum plant growth.
Inadequate Structure and Composition	0	Not Applicable
Excessive Plant Pest Pressure	0	Not Applicable
Wildfire Hazard, Excessive Biomass Accumulation	0	Not Applicable
Fish and Wildlife - Inadequate Habitat		
Inadequate Habitat - Food	0	Not Applicable
Inadequate Habitat - Cover/Shelter	0	Not Applicable
Inadequate Habitat - Water	0	Seasonal flooding provides water for some species.
Inadequate Habitat - Habitat Continuity (Space)	2	Seasonal flooding provides habitat for some species.
Livestock Production Limitation		
Inadequate Feed and Forage	4	Optimum moisture is maintained for forage production.
Inadequate Shelter	0	Not Applicable
Inadequate Water	0	Not Applicable
Inefficient Energy Use		
Equipment and Facilities	0	Not Applicable
Equipment and Lacinties	J	11017 (Ppinodalo
Farming/Ranching Practices and Field Operations	0	Not Applicable

CPPE Practice Effects:	
5 Substantial Improvement	

Substantial Improvement

4 Moderate to Substantial Improvement

3 Moderate Improvement

2 Slight to Moderate Improvement

1 Slight Improvement

0 No Effect

-1 Slight Worsening

-2 Slight to Moderate Worsening

-3 Moderate Worsening

-4 Moderate to Substantial Worsening

-5 Substantial Worsening