Effects of NRCS Conservation Practices - National

Solid/Liquid Waste Separation Facility

A filtration or screening device, settling tank, settling basin, or settling channel used to separate a portion of solids from a liquid waste stream.

Code: 632 Units: no

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Soil Erosion	Effect	Typical Landuse: FS Rationale
Soil Erosion - Sheet and Rill Erosion	0	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	1	Using amendments and separation could create high organic residues that when land applied could increase soil organic matter in excess of the application of untreated manure
Compaction	0	Not Applicable
Subsidence	0	Not Applicable
Concentration of Salts or Other Chemicals	0	Could be slight worsening to slight improvement depending on whether salts are concentrated or removed from the land applied waste stream
Excess Water - Seeps	0	Not Applicable
Excess Water - Runoff, Flooding, or Ponding	0	Not Applicable
Excess Water - Seasonal High Water Table	0	Not Applicable
Excess Water - Drifted Snow	0	Not Applicable
Insufficient Water Insufficient Water - Inefficient Use of Irrigation Water	1	Altered waste stream with minimum solids will be compatible with irrigation needs
Insufficient Water - Inefficient Moisture Management	0	Not Applicable
Water Quality Degradation Pesticides in Surface Water	0	Not Applicable
Pesticides in Groundwater	0	Not Applicable
Nutrients in Surface water	2	Separation and other treatment options are often used to remove nutrients and organics from the waste stream
Nutrients in Groundwater	2	Separation and other treatment options are often used to remove nutrients and organics from the waste stream
Salts in Surface Water	2	Separation and other treatment options can be used to alter the waste stream to remove salts, metals, and some pathogens.
Salts in Groundwater	2	Separation and other treatment options can be used to alter the waste stream to remove salts, metals, and some pathogens.
Excess Pathogens and Chemicals from Manure, Bio-solic	2	Separation and other treatment options can be used to alter the waste stream to remove salts, metals, and some pathogens.
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Excessive Sediment in Surface Water	0	Not Applicable
Elevated Water Temperature	0	Not Applicable
Petroleum, Heavy Metals and Other Pollutants Transporte	2	Separation and other treatment options can be used to alter the waste stream to remove salts, metals, and some pathogens.
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Air Quality Impacts		
Emissions of Particulate Matter (PM) and PM Precursors	1	Solid/liquid separation allows for better management of solid and liquid manure streams. Improperly managed solid manure may result in particulate emissions, however.
Emissions of Ozone Precursors	2	Solid/liquid separation can help to reduce emissions of VOCs via better management of aerobic solid systems and anaerobic liquid systems.
Emissions of Greenhouse Gases (GHGs)	1	Separation may have an impact on the release of a number of manure constituents
Objectionable Odors	4	Liquid/solids separators are very successful in facilitating the reduction of odor emissions from manure, particularly when solids are allowed to remain in an aerobic environment
Degraded Plant Condition		
Undesirable Plant Productivity and Health	0	Not Applicable
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	Not Applicable
Inadequate Habitat - Habitat Continuity (Space)	0	Not Applicable
Livestock Production Limitation		
Inadequate Feed and Forage	0	Separation could favorably alter the waste stream to better provide the needs of growing feed and forage, but this would be minor impact
Inadequate Shelter	0	Not Applicable
Inadequate Water	1	Some alternatives are used to treat the waste stream to the point water can be reused by livestock. Liquid/solid separation is almost always the first step
Inefficient Energy Use		
Equipment and Facilities	0	Not Applicable
Farming/Ranching Practices and Field Operations	0	Not Applicable

CPPE Practice Effects:	0 No Effect
5 Substantial Improvement	-1 Slight Worsening
4 Moderate to Substantial Improvement	-2 Slight to Moderate Worsening
3 Moderate Improvement	-3 Moderate Worsening
2 Slight to Moderate Improvement	-4 Moderate to Substantial Worsening

-5 Substantial Worsening

1 Slight Improvement