

Practice: 657 - Wetland Restoration

Scenario: #6 - Crush Tile/Fill Ditch

Scenario Description: This scenario involves crushing tile and/or plugging an open ditch to restore hydrology to a wetland. Exploratory ditches or holes are placed to determine locations. A parallel ditch is dug along side of unknown tile to determine depth, size, etc. Tile(s) are removed, crushed or otherwise disabled. Soil material is compacted in the areas of excavation. Vegetation is then established. Associated practices expected to be included are Conservation Cover (327), Mulching (484) and or other vegetative establishment. Typical size is 20 acres.

Before Situation: An existing crop field was drained in the past either by an open ditch or tile drains or a combination of the two. This practice plugs existing ditch(es) and crushes drain tile so as to restore wetland conditions and restore hydrologic conditions.

After Situation: Tile drains are strategically crushed and/or ditches are plugged with fill from on-site sources. A herbaceous plant community will be seeded. Facilitative practices include Conservation Cover. Restoration of hydrology and plant community functions will improve the WATER QUALITY and DEGRADED PLANT CONDITION concerns listed above. The hydrologic and vegetative practices will address the SOIL QUALITY DEGRADATION and INADEQUATE HABITAT FOR FISH AND WILDLIFE concerns.

Scenario Feature Measure: CY of material excavated

Scenario Unit: Cubic Yard

Scenario Typical Size: 165

Total Scenario Cost: \$755.63

Scenario Cost/Unit: \$4.58

Cost Details

Component Name	Id	Description	Unit	Cost	Qty	Total
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Labor

General Labor	231	Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc.	Hour	\$20.07	10	\$200.70
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Mobilization

Mobilization, medium equipment	1139	Equipment with 70-150 HP or typical weights between 14,000 and 30,000 pounds.	Each	\$253.88	1	\$253.88
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Equipment Installation

Excavation, common earth, side cast, large equipment	1227	Bulk excavation and side casting of common earth with hydraulic excavator with less greater than 1 CY capacity. Includes equipment and labor.	Cubic Yard	\$1.67	180	\$301.05
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