



**Clean Michigan Initiative
Nonpoint Source Grant**
Tracking Code 2002-0059



Calhoun Conservation District
13464 Preston Drive
Marshall, MI 49068
Telephone: 269-781-4867 ext 5

Nottawa Creek BMP Implementation Project

January 1, 2004 through September 30, 2006

The Nottawa Creek watershed is a sub-basin of the St. Joseph River watershed and consists of 59,196 acres in Calhoun County. Land uses in the watershed consist of agriculture (dominant use), forestland, wetlands, and urban/rural non-farm. Sediment and nutrients were listed as primary pollutants threatening water quality in the Nottawa Creek watershed. BMPs identified in the Nottawa Creek Watershed Plan were implemented to improve surface water and groundwater quality in the watershed for agriculture, recreation, aquatic life habitat, and warm water fishery. Collectively, these practices resulted in significant pollution reduction in the Nottawa Creek Watershed



Grant Amount: \$ 110,000
Match Funds: \$ 27,200

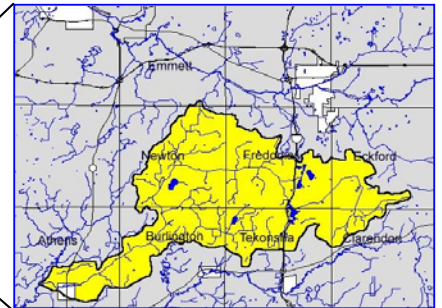
Total Amount: \$ 137,200

Best Management Practices:

- Slope/shoreline stabilization
- Stream bank stabilization
- Trickle irrigation
- Conservation cover
- Livestock exclusion
- Compost bin
- Rotational grazing
- Pasture planting
- Cover crops
- Grassed waterway
- Native grass planting
- Well closure
- Road stream crossing
- Waste water storage facility
- Forest riparian buffer strip
- Silage runoff containment

Annual Load Reductions:

- 539 tons of Sediment
- 1,817 pounds of Phosphorous
- 1,077 pounds of Nitrogen

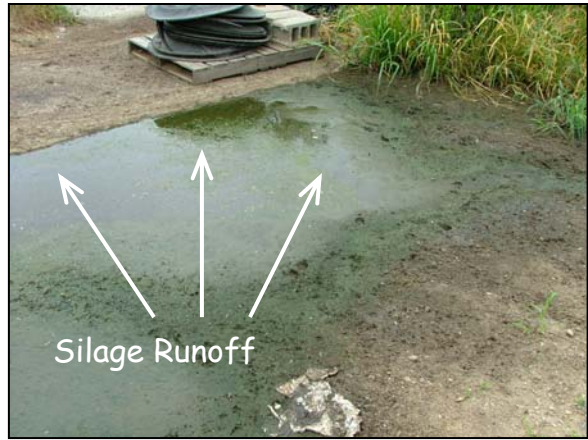


Partners involved:

- Many Private Landowners
- Potawatomi RC&D
- Huron Potawatomi Tribe
- Village of Athens
- Calhoun County Road Commission
- Calhoun County Drain Commission
- Friends of the St. Joe River Association



MarGro Farm - before construction, Silage is fermented vegetation which is used as cattle feed. Silage runoff poses a risk to groundwater due to increased nutrient runoff.



MarGro Farm - before construction, silage pile lacks containment for silage runoff which has high levels of nutrients causing ground water pollution.



MarGro Farm - after construction, runoff containment prevents groundwater pollution by collecting runoff and discharging it to the waste storage facility.



MarGro Farm - after construction, existing waste storage facility was connected to silage runoff collection basin.



Devenney Farm - before construction, of grassed waterway. Active erosion occurring.



Devenney Farm - after construction, grassed waterway after implementation.