MN Board of Water & Soil Resources
Conservation Drainage Management Program Grants
FY 2013

Tiling and Conservation Drainage Workshop and Field Day
August 28-29, 2012
Hankinson, ND
Al Kean, Chief Engineer, BWSR
Drainage isn’t a Bad Word

Much of Minnesota’s land use activities depend on natural and artificial drainage.

The key issue is how we manage drainage!

Agriculture
Roads
Cities
Why the Focus on Drainage Water Management?

Surge in Pattern Tile Drainage

BTSAC Briefing Paper #2
MN Clean Water Fund
Conservation Drainage Grants

FY 2010 $200,000
FY 2011 $400,000
FY 2012 $1,000,000
FY 2013 $1,700,000
BWSR Conservation
Drainage Grant Purposes

Grants have been used to:

- Retrofit Existing Drainage Systems for Water Quality
- Evaluate Outcomes
- Provide Outreach & Technical Assistance
What’s New for 2013?

+ $700,000

- Drainage Water Management
- funding for both existing and new tile drainage systems
FY 2013
Targeted Drainage Water Management Grants
Competitive Conservation Drainage Management Program

- Focus is on agricultural drainage management
- **Eligible Local Government Units:** Soil and Water Conservation Districts, Watershed Districts, Counties, and Joint Powers thereof
- Approx. $1,000,000 available for FY 2013
- FY 2013 application period opened August 1 and ends September 14
State Program Payment Rates

- 75% cost-share for most eligible practices and planning
- 25% match from any non-state source
- Certain operation incentive payments on a per acre basis for the first 3 years, up to 300 acres
Eligible Practices
DWM – Controlled Subsurface Drainage

NRCS Conservation Activity Plan (CAP) 130 – Drainage Water Management by TechReg TSP
NRCS Practice 587 Structure for Water Control
NRCS Practice 554 Drainage Water Management, Implementation/Operation – CAP 130 is required. $7.58 per acre per year for the first three years of implementation and operation, up to 300 acres.
NRCS Interim Practice 747
Denitrifying Bioreactor

- Wood chips are typically used as a carbon source for bacteria and microbes that provide denitrification.
NRCS Conservation Activity Plan (CAP) 104 Nutrient Management Plan

- On fields for which controlled subsurface drainage and/or a denitrifying bioreactor is planned.
- Plan must be developed by a NRCS TechReg certified Technical Service Provider (TSP) for Practice 590 Nutrient Management.

NRCS Practice 590 Nutrient Management

- On fields where controlled subsurface drainage, denitrifying bioreactor and/or existing open tile inlet(s) are replaced by dense pattern tile.
- A CAP 104 is required.
- Implementation incentive for the first three years at $5.44 per acre per year for CAP 104 acres without manure and $10.78 per acre per year for CAP 104 acres with manure, up to 300 acres.
Eligible Practices

Replace Open Tile Inlets
Side Inlet Controls

Replacement of Existing Open Tile Inlet(s): with water quality improvement inlet(s)

Side Inlet Controls:
Along existing drainage ditches or streams to reduce erosion, provide temporary detention, and sediment settling
“Multipurpose Drainage” – Engineered drainage systems that provide both private drainage benefits and public water management benefits

• Must be for a Chapter 103E public drainage system
• Must involve a Chapter 103E drainage authority (County or Watershed District)
• Identify on-field and on-farm practices, as well as on-drainage-system practices, many of which are eligible for various program funding
• Planning, targeting and marketing
Multipurpose Drainage Water Management Goals

• Provide adequate agricultural drainage for crop planting, productivity, and harvest
• Provide more equitable upstream to downstream drainage and protection
• Reduce peak flows and flood damages
• Reduce erosion (field and channel) and sedimentation
• Protect and improve water quality
• Increase aquatic and/or terrestrial wildlife habitat
Ineligible Practices

• Tile, except for dense pattern tile to replace existing open tile inlet(s)
• Ditching
• Culverts or bridges through roads
• Ambient water quality monitoring
Questions?

• Technical Questions
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• Programmatic Questions
  – Clean Water Specialist
  – Board Conservationist