Program Specific Workplan Items

Pollutant or Benefit #1 (eg. P Reduction or Flood Reduction)	Nitrogen Reduction - See Attachment
Estimated Benefit #1	Reduction 4,200 lbs/year
Pollutant or Benefit #2	Phosphorus Reduction - See Attachment
Estimated Benefit #2	Reduction of 340 lbs/year
Pollutant or Benefit #3	Sediment Reduction - See Attachment
Estimated Benefit #3	Reduction of 170 tons/year
Problem, Concern or Pollutant:	Nitrogen, phosphorus and sediment contribute to the lack of dissolved oxygen in the water body.
Water Plan Reference:	The Cottonwood County Local Water Management Plan assigned two priority concerns on page 5. They are: (1) Improve Surface Water Quality and (2)Protect Groundwater. The Jackson County Local Water Management Plan has assigned three priorities on page 4. They are: (1) Improve Surface Water Quality (3) Drainage Management and (3) Protect Groundwater.
TMDL Reference:	Lower Minnesota Dissolved Oxygen TMDL Page 4 - Runoff From Agricultural Cropland:...To reduce phosphorus from this source, utilizing crop residue and protecting open tile intakes - or equivalent practices - will be encouraged. Page 14 Section 3 - Description of Management measures to achieve load reductions. Page 18 - 3.2 - Agriculture - lists rock intakes and other tile treatment practices.
Watershed Name (81 Majors)	Watonwan River Watershed
Proposal Summary - not to exceed 100 words	This project is to install bio reactors on all major tile outlets to Fish Lake. With the help of all local landowners, the Fish Lake Association and partners, nitrogen will be eliminated from entering the lake. Fish Lake is a headwater of the Watonwan River and is a regionally known fishery due to its unusual depth of 20+ feet and lack of a mud bottom. Also it has a naturally reproducing Small Mouth Bass fishery, one of two in the MNDNR regional fish management district.

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Project Purpose:	Because of the relatively small watershed the tile flowing into Fish Lake are a significant water source for the lake. With most of the tiles carrying multiple pollutants this project is critical to preventing future impairments of the lake.
Project Tasks:	Installing wood chip bioreactors, alternative tile intakes and miscellaneous best management practices will provide the initial filtering of the tile water and remove nitrogen, phosphorus and sediment.
Organization Qualifications:	The Cottonwood and Jackson SWCD staff have a combined 50 years of service in the conservation field and will also be utilizing the Southwest Prairie TSA engineer and technician. Multiple governmental agencies are also collaborating on this project including the MN DNR Division of Fisheries, MN Department of Agriculture and USF&WS.
Key Personnel & Roles:	Cottonwood and Jackson SWCD staff will be the leaders of this project. Kay Clark - District Administrator Information, Education, Financial and Reporting David Bucklin - District Technician Information, Education, Technical Brian Nyborg - District Manager Information, Education, Technical
Design Standards To Be Used:	Designs and Specifications will be overseen by Engineer Russ Hoofendoorn, Southwest Prairie TSA.
Project Evaluation Plan:	Monthly progress reports will be made and evaluated.
Public Outreact/Participation Plan:	Public outreach is a key component of this project and will be in cooperation with the Fish Lake Association and lake residents and landowners.
Project Schedule:	Start in early 2011 and completion by fall 2012.