

Executive Summary

This section is an amendment to the 2006, version of the Wright County Water Management Plan. It addresses the following items:

- Version and purpose of the plan;
- Description of the priority concerns that will be addressed;
- A summary of the consistency of the plan with other pertinent local, state, and regional plans and controls.

Amendment – January, 2011:

This amendment dated January 1, 2011 is part of the second version of the Wright County Water Management Plan, dated 2006. Included in this amendment:

- Section 1-Executive Summary
- Section 3-Implementation Program

Summary of Goals and Actions:

The process of choosing the following priority concerns highlight specific activities within our society which are negatively impacting Wright County's water resources. These challenges bring opportunities to reverse both the perceived and observed degradation of the county's water quality.

Goal A: Groundwater Quality: Provide high quality groundwater supplies to the citizens of Wright County. Actions focus on the implementation of the following objectives:

- Increase available background information of Wright County's groundwater through monitoring, analysis, outside data sources and better information distribution.
- Work to prevent failure of individual septic treatment systems (SSTS) and related sewage pollution in Wright County.

Goal B: Surface Water Quality: Maximize the accuracy and the effectiveness of the MPCA's "One Waters" watershed protection and restoration strategy.

- Collect and compile data supporting the intensive watershed monitoring process.
- Foster an efficient delivery system to get projects on the ground during the implementation phase of watershed projects in the county.

Goal C: Development Pressures: Develop regulations and implement educational forums and incentives to ensure orderly development with minimal impacts to Wright County's water quality. Actions focus on the implementation of the following objectives:

- Guide new development with comprehensive planning, accessible

- information and consideration for natural resources.
- Influence landowners in existing developments to use practices, which reduce and/or mitigate negative human impact on natural resources.

Goal D: Agricultural Land Use: Achieve countywide use of environmentally conscious practices by agricultural producers to protect and enhance Wright County’s natural resources. Actions focus on the implementation of the following objectives.

- Influence agricultural operators to use practices which either reduce and/or mitigate negative human impact on natural resources.
- Continue Wright County’s partnership with the Wright County Feedlot Officer to ensure all county feedlots are in compliance with 7020 rules.

Consistency of plan with other pertinent local, state, and regional plans

The lake and river management plans overlaying Wright County have been considered in the completion of this document. Plans from neighboring counties were also reviewed to ensure consistency in the protection of regional water resources. There are no known conflicts between the Wright CWMP and other local plans regarding water resources.

Implementation Program

Amendment – January, 2011

This section establishes the implementation program for the priority concerns. The implementation program identifies the following:

- Actions to be implemented; when the action will be accomplished; responsible agencies; and cost/funding sources. Costs do not include staff time.
- If capital improvement projects are listed, they will include the following: physical components of the project-size, configuration, location; purposes of the project and relationship to the objectives; proposed schedule for project construction; expected federal, state and local costs; types of financing proposed-special assessments, grants and sources of local financing proposed.

Impaired Waters and TMDLs:

Minnesota's Impaired Waters and Total Maximum Daily Loads (TMDLs):

The federal Clean Water Act (CWA) requires states to adopt water-quality standards to protect waters from pollution. These standards define how much of a pollutant can be in the water and still allow it to meet designated uses, such as drinking water, fishing and swimming.

The standards are set on a wide range of pollutants, including bacteria, nutrients, turbidity and mercury. A water body is “impaired” if it fails to meet one or more water quality standard.

To identify and restore impaired waters, Section 303(d) of the Clean Water Act requires states to:

- 1) Assess all waters of the state to determine if they meet water-quality standards.
- 2) List waters that do not meet standards (also known as the 303d List) and update every even-numbered year.
- 3) Conduct TMDL studies in order to set pollutant reduction goals needed to restore waters.

MPCAs responsibilities include performing assessment activities, listing impaired waters, and conducting TMDLs in Minnesota. The agency also coordinates closely with other state and local agencies on restoration activities.

The Clean Water Legacy Act, passed in June 2006, allocates first-year funding to accelerate water monitoring, TMDL development and restoration activities throughout the state.

Impaired Waters:

Below is the MPCA 2010 Clean Water Act Section 303 (d) list of impaired waters in the county.

Rivers

<u>Reach</u>	<u>Unit ID#</u>	<u>Affected Use</u>	<u>Pollutants/Stressors</u>
<i>Crow River</i>			
S. Fork to the Miss. R.	07010204-502	Aquatic recreation	Fecal Coliform
S. Fork to the Miss. R.	07010204-502	Aquatic life	Bioassessments
S. Fork to the Miss. R.	07010204-502	Aquatic life	Turbidity
S. Fork to the Miss. R.	07010204-502	Aquatic life	Dissolved Oxygen
Buffalo Lk to N. Fk. Crow R.	07010204-515	Aquatic life	Dissolved Oxygen
Buffalo Lk to N. Fk. Crow R.	07010204-515	Aquatic life	Turbidity
Mill Ck to S. Fk. Crow R.	07010204-503	Aquatic life	Dissolved Oxygen
Mill Ck to S. Fk. Crow R.	07010204-503	Aquatic life	Turbidity
Mill Ck to S. Fk. Crow R.	07010204-503	Aquatic life	Chloride
Little Waverly Lk. to N. Fk Crow R.	07010204-681	Aquatic life	Dissolved Oxygen
Unnamed Ck to Crow R.	07010204-542	Aquatic life	Dissolved Oxygen
Unnamed Ck to Crow R.	07010204-542	Aquatic recreation	E. coli
Woodland WMA to N. Fk. Crow R.	07010204-667	Aquatic life	Dissolved Oxygen
Unnamed ditch to Woodland WMA	07010204-667	Aquatic Recreation	E. coli
<i>Mississippi River</i>			
Elk R. to Crow R.	07010203-503	Aquatic consumption	PCB in fish tissue
Clearwater to Elk R.	07010203-510	Aquatic recreation	Fecal coliform
Clearwater to Elk R.	07010203-510	Aquatic life	Fish Bioassessments

<u>Lakes</u>	<u>Unit ID#</u>	<u>Affected Use</u>	<u>Pollutants/Stressors</u>
Albion	86-0212-00	Aquatic recreation	Nutrient/Eutrophication
Ann	86-0190-00	Aquatic recreation	Nutrient/Eutrophication
Augusta	86-0284-00	Aquatic recreation	Nutrient/Eutrophication
Beebe	86-0023-00	Aquatic recreation	Nutrient/Eutrophication
Buffalo	86-0090-00	Aquatic recreation	Nutrient/Eutrophication
Camp	86-0221-00	Aquatic recreation	Nutrient/Eutrophication
Caroline	86-0281-00	Aquatic recreation	Nutrient/Eutrophication
Cokato	86-0260-00	Aquatic recreation	Nutrient/Eutrophication
Collinwood	86-0293-00	Aquatic recreation	Nutrient/Eutrophication
Deer	86-0107-00	Aquatic recreation	Nutrient/Eutrophication
Dutch	86-0184-00	Aquatic recreation	Nutrient/Eutrophication
Fish	86-0183-00	Aquatic recreation	Nutrient/Eutrophication
Foster	86-001-00	Aquatic recreation	Nutrient/Eutrophication
Fountain	86-0086-00	Aquatic recreation	Nutrient/Eutrophication
French	86-0273-00	Aquatic recreation	Nutrient/Eutrophication
Granite	86-0217-00	Aquatic recreation	Nutrient/Eutrophication

(Continued.....)

Lakes	Unit ID#	Affected Use	Pollutants/Stressors
Henshaw	86-0213-00	Aquatic recreation	Nutrient/Eutrophication
Howard	86-0199-00	Aquatic recreation	Nutrient/Eutrophication
Indian	86-0223-00	Aquatic recreation	Nutrient/Eutrophication
Little Waverly	86-0106-00	Aquatic recreation	Nutrient/Eutrophication
Locke	86-0168-00	Aquatic recreation	Nutrient/Eutrophication
Louisa	86-0282-00	Aquatic recreation	Nutrient/Eutrophication
Mink	86-0229-00	Aquatic recreation	Nutrient/Eutrophication
Pelican	86-0031-00	Aquatic recreation	Nutrient/Eutrophication
Ramsey	86-0120-00	Aquatic recreation	Nutrient/Eutrophication
Scott	86-0297-00	Aquatic recreation	Nutrient/Eutrophication
Silver	86-0140-00	Aquatic recreation	Nutrient/Eutrophication
Smith	86-0250-00	Aquatic recreation	Nutrient/Eutrophication
Somers	86-0230-00	Aquatic recreation	Nutrient/Eutrophication
Swartout	86-0208-00	Aquatic recreation	Nutrient/Eutrophication
Union	86-0298-00	Aquatic recreation	Nutrient/Eutrophication
Waverly	86-0114-00	Aquatic recreation	Nutrient/Eutrophication
Wetland	Unit ID#	Affected Use	Pollutants/Stressors
Woodland WMA	86-0085-00	Aquatic life	Aquatic Plant Bioassessments

The following lakes have been listed with the affected use: Aquatic Consumption with Mercury in Fish Tissue: Clearwater East 86-0252-01 and Clearwater West 860252-02. It is MPCAs recommendation that the county address waters listed for pollutants and/or stressors other than mercury. It is suspected that many more lakes and river segments would have Aquatic Consumption listings for Mercury but only very limited testing has been completed. This problem is assumed to be linked to coal fired energy production and must be dealt with on a state wide, national, and/or international basis.

TMDLs Underway:

Crow River: Bacteria, Turbidity, and Low Dissolved Oxygen.

Ann Lake/Emma Lake: Nutrients.

Beebe Lake: Nutrients.

Brooks Lake: Nutrients.

Buffalo Lake: Nutrients.

Camp Lake: Nutrients.

Cokato Lake: Nutrients.

Collinwood Lake: Nutrients.

Constance Lake: Nutrients.

Deer Lake: Nutrients.

Dutch Lake: Nutrients.

Foster Lake: Nutrients.

Fountain Lake: Nutrients.

French Lake: Nutrients.

Granite Lake: Nutrients.

Howard Lake: Nutrients.

Lightfoot Lake: Nutrients.

Little Waverly Lake: Nutrients.

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Malardi Lake: Nutrients.
Pelican Lake: Nutrients.
Ramsey Lake: Nutrients.
Rock Lake: Nutrients.
Smith Lake: Nutrients.
Somers Lake: Nutrients.
Waverly Lake: Nutrients.

IWMs Underway:

Upper Mississippi River (St Cloud) Watershed
Crow River Watershed

The 10 year watershed cycle for the Intensive Watershed Monitoring (IWM) process began in the spring of 2009 for the Mississippi River St. Cloud (8 digit HUC) watershed. The field work for the biological and water chemistry IWM monitoring was completed in 2010. It is anticipated that an assessment report summarizing the IWM findings will be available in the spring of 2011.

The major threats to this watershed include:

1. Loss of shoreline buffers and habitat due to development.
2. Introduction of large amounts of phosphorus, sediment, and bacteria from urban and rural sources to surface waters.
3. The combination of long, moderately steep slopes and easily erodible sandy loam soil that is inherently high in phosphorus.
4. Increased nutrient, contaminant and sedimentation loading from storm water run-off from development and other non-point sources.
5. Protecting drinking water supplies from bacteria impairments.
6. Loss of biodiversity due to competition from invasive species.
7. Relatively high percentage of agricultural and urban/residential land uses within the watershed.

Project Prioritization:

Due the richness of Wright County's water resources and a finite amount of funding, it is imperative that our water management activities be prioritized. The range of the county's surface water quality varies greatly, as does the recreational usage of these water bodies. The Wright County Water Management Task Force has deliberated on different strategies to best manage the water resources as well as the county's anticipated financial contribution set aside for natural resource protection. The most agreed upon criteria for being a priority water body is that it has local support. Obvious local support can be seen in the three predominate river organizations in the county: the CROW, the Upper Mississippi Basin (St. Cloud Reach), and the CRWD. Because lake groups vary greatly so, do their activity levels, a benchmark to be a priority water, is that the lake has a current Lake Management Plan (within five years). The process of developing a lake management plan demonstrates the lake group has identified watershed goals and has the desire to achieve them. The water bodies that have demonstrated the required local support are as follows: Crow River, Clearwater River, Mississippi River, Ann Lake, Beebe Lake, Camp Lake, Fish Lake, Lake Francis, French Lake, Howard Lake, Locke Lake, Mink Lake, Ramsey Lake, Somers Lake, and Waverly Lake.

A second and equal prioritization criterion, which will qualify a lake as a priority water body, is our reasonable ability to significantly enhance its water quality in a relative short timeframe. The Task Force decided that lakes with a summer average surface total phosphorus level of < 80 µg/L, should be able to achieve noticeable improvements with watershed land-use

modifications. These lakes, that have not been previously mentioned, are considered “tipping point lakes”; they are as follows: Brooks, Caroline, Cokato, Constance, Granite, Indian, Rock, and Sullivan.

Lakes with surface levels of total phosphorus < 40µg/L are to be considered protection lakes. The lakes that meet these thresholds are: Bass, Bertram, Birch, Cedar(86-0073), Cedar(86-0227), Charlotte, Crawford, Deer(86-0107), Eagle, East Sylvania, Ember, Ida, John, Limestone, Maple(86-0134), Martha, Mary(86-0156), Mary(86-0193), Pleasant, Pulaski, Sugar, and West Sylvania.

The Task Force also recognizes that there may be certain projects of high value that do present themselves; these targets of opportunity will also be classified as priority projects and will be identified as they arise.

PRIORITY ISSUE I: GROUNDWATER QUALITY AND QUANTITY**Goal: Provide high quality groundwater supplies to the citizens of Wright County.****Objective A:** Increase available background information of Wright County's groundwater through monitoring, analysis, outside data sources and better information distribution.**Action Items:**

1. Cooperate with Wright County cities, USGS, MN Health Department and other agencies in the development and the implementation of wellhead protection plans so that 90% of Wright County's municipal wells have plans in place by 2015. If requested, public water suppliers will be assisted. Review wellhead protection areas for potential long term easement programs.

Timeline: 2011 - 2015**Agency (Who): Water Plan Manager, Cities, USGS, MN Dept. of Health****Cost: Existing Staff**

2. Provide information on the District's website by 2011 regarding how and where to get well water tested, types of tests available, maximum allowable limits for groundwater and drinking water contaminants and who to contact if a well approaches or exceeds these limits.

Timeline: Ongoing**Agency (Who): Water Plan Manager, SWCD****Cost: \$500/Existing Staff**

3. Conduct focused well testing for nitrates in designated high risk areas on 20 private wells every three years. Wells demonstrating nitrate contamination will have additional analytical investigation to identify other common pollutants.

Timeline: 2012 - ongoing**Agency (Who): SWCD, Water Plan Manager, MN Dept. Health****Cost: \$4,500/Existing Staff**

4. Continue monthly testing of our Water Table Depth Monitoring Program consisting of nine wells.

Timeline: 2011 - ongoing**Agency (Who): SWCD, DNR****Cost: Existing Staff**

5. Develop a County Geologic Atlas.

Timeline: 2011 - 1013**Agency (Who): USGS, DNR, County****Cost: Existing Staff**

PRIORITY ISSUE I: GROUNDWATER QUALITY AND QUANTITY**Goal: Provide high quality groundwater supplies to the citizens of Wright County.****Objective B:** Work to prevent failure of SSTS and related sewage pollution in Wright County.**Action Items:**

1. Investigate the utilization of the Wright County as the lending agent for the State Revolving Low Interest Loan Program. Because of the more restrictive lending criteria, many potential program users lack of collateral restricts their loan qualification. With the expanded loan eligibility, we expect 20 failing septic systems per year will be brought back into compliance.

Timeline: 2011 - Ongoing
Agency (Who): SWCD, Wight County, CROW
Cost: Existing Staff

2. Continue county SSTS activities including the point-of-sale septic inspections.

Timeline: Ongoing
Agency (Who): P&Z
Cost: Existing Staff

3. Implement a pharmaceutical drug disposal program to keep expired and unused prescription medication out of the waste water stream.

Timeline: 2011
Agency (Who): P&Z, cities, Water Plan Manager
Cost: Existing Staff

4. Implement a groundwater Arsenic awareness program to provide water testing and four program announcement and press releases and water drop-offs per year.

Timeline: 2011
Agency (Who): P&Z, cities, Water Plan Manager
Cost: Existing Staff

5. When requested, provide assistance to the Planning and Zoning septic inspectors by conducting soil verifications on new SSTS systems. New 7080 Rules require Soil Verifications to assure that the drain field meets the minimum required 3 foot separation of saturated soils.

Timeline: 2011 - Ongoing
Agency (Who): P&Z, cities, Water Plan Manager
Cost: Existing Staff

PRIORITY ISSUE II: SURFACE WATER ISSUES

Goal: Maximize the accuracy and the effectiveness of the MPCA's "One Waters" watershed protection and restoration strategy.

Objective A: Collect and compile data supporting the intensive watershed monitoring process.

Action Items:

1. Continue and expand the County's Citizen Lake Monitoring Program by one new lake per year until all GD and RD lakes with an organized association are involved in the program.

Timeline: Ongoing
Agency (Who): Water Plan Manager, Lake Associations, MPCA
Cost: \$1,000/Existing Staff

2. Expand the Advanced Lake monitoring Program by one new lake per year.

Timeline: Ongoing
Agency (Who): Water Plan Manager, Lake Associations
Cost: \$1,250/Existing Staff

3. Facilitate a bulk purchase of a submergent plant survey (Point Intercept Survey) including 12 lake associations.

Timeline: 2011
Agency (Who): Water Plan Manager, Lake Associations
Cost: \$30,000/Existing Staff

4. Establish four long-term monitoring sites at strategically important watershed outflow locations throughout the county to verify the long term impact of implementation projects and track water quality trends throughout Wright County.

Timeline: 2011 - ongoing
Agency (Who): MPCA, SWCD, Water Plan Manager, CROW, CRWD
Cost: \$4,000/Existing Staff

5. Continue the operation of the Rockford Crow River monitoring station in cooperative efforts with the Met Council. Twelve grab samples and four storm events per year are projected.

Timeline: 2011 - ongoing
Agency (Who): SWCD, Met Council
Cost: Existing Staff

6. Continue the operation of the monitoring station on County Ditch 10 at Ingram Ave.

Timeline: 2011 - ongoing
Agency (Who): SWCD, MPCA
Cost: Existing Staff

7. Coordinate a more cohesive team of county water planers included in the watershed boundaries of the Crow River and Mississippi River (St. Cloud) basins to better coordinate water management activities. Conduct two meetings per year.

Timeline: 2011 - ongoing

Agency (Who): CROW, Mississippi Basin, and Water Plan Manager

Cost: Existing Staff

8. Conduct a county wide survey of all of the municipal sewage discharges and review their MPCA permits to better facilitate grant writing efforts.

Timeline: 2011 - ongoing

Agency (Who): Cities, Water Plan Manager

Cost: Existing Staff

PRIORITY ISSUE II: SURFACE WATER ISSUES

Goal: Maximize the accuracy and the effectiveness of the MPCA's "One Waters" watershed protection and restoration strategy.

Objective B: Foster an efficient delivery system to get projects on the ground during the implementation phase of watershed projects in the county.

Action Items:

1. Assist lake associations with the development of Lake Management Plans, utilizing the Initiative Foundation's "Healthy Lakes and Rivers Program". Host regional workshops biannually so that twelve lakes have new or updated plans completed by 2015.

Timeline: 2012 and 2014

Agency (Who): Water Plan Manager, Initiative Foundation, Lake Associations, and Minnesota Waters

Cost: \$40,000/Existing Staff

2. Support and help foster the formation of a countywide Coalition of Lake Associations (COLA) and attend all meetings to keep these groups informed.

Timeline: 2011 - ongoing

Agency (Who): Water Plan Manager, Lake Associations, and MN Waters

Cost: \$300/Existing Staff

3. Establish a local mechanism to generate funds, so the county can leverage state and federal funding for watershed projects. Consider 103.B levy authority to create special watershed project funds.

Timeline: 2012 - ongoing

Agency (Who): Water Plan Manager, SWCD, CROW, and CRWD

Cost: Existing Staff

4. Provide maps to water organizations and other conservation groups for more efficient planning. Three mapping efforts are expected per year.

Timeline: 2011 - ongoing

Agency (Who): SWCD

Cost: Existing Staff

5. Complete a 500' stream bank stabilization project on the Crow River in the City of St. Michael.

Timeline: 2011 - 2013

Agency (Who): SWCD, CROW, DNR, City of St. Michael

Cost: (\$250,000)/Existing Staff

6. Complete a stream bank stabilization project on stream emptying into the west side of Ramsey Lake.

Timeline: 2011 - 2013
Agency (Who): SWCD, CROW, Ramsey Lake Association
Cost: (\$150,000)/Existing Staff

7. Complete a 500' lake shore stabilization project on stream emptying into the east side of Maple Lake.

Timeline: 2011 - 2013
Agency (Who): SWCD, CROW, Maple Lake Association
Cost: (\$30,000)/Existing Staff

8. Complete a 150' stream bank stabilization project on the Crow River located in section 13 of Marysville Township.

Timeline: 2011 - 2013
Agency (Who): SWCD, CROW
Cost: (\$30,000)/Existing Staff

Priority Issue III: Development Pressure

Goal: Develop regulations and implement educational forums and incentives to ensure orderly development with minimal impacts to Wright County's natural resources.

Objective A: Guide new development with comprehensive planning, accessible information, and consideration for natural resources.

Action Items:

1. Continue to oversee that development occurring in Wright County follows the County Land Use plan so that a regional approach can be taken to address growing environmental resource concerns. Check ten development sites needing Nonpoint Discharge Elimination System (NPDES) permits. Review thirty plats and projects per year.

Timeline: Ongoing
Agency (Who): SWCD
Cost: Existing Staff

2. Adopt a county ordinance by 2012 to address construction site erosion and sedimentation, as well as limiting the rate and volume of storm water.

Timeline: 2012
Agency (Who): SWCD, Water Plan Manager, P&Z
Cost: Existing Staff

3. Following the county's implementation of the erosion and storm water ordinance, all incorporated areas of the county will adopt these ordinances standards within 180 days.

Timeline: 2012
Agency (Who): SWCD, Water Plan Manager, Cities
Cost: Existing Staff

4. Implement a review process for all land alteration projects which fall under the County Erosion and Storm Water Ordinance.

Timeline: 2012 - ongoing
Agency (Who): SWCD, Water Plan Manager, P&Z, Cities
Cost: Existing Staff

5. Implement a program where all RGUs inventory their storm water facilities and oversee the facilities maintenance starting in 2012.

Timeline: 2012 - ongoing
Agency (Who): SWCD, Water Plan Manager, P&Z, Cities, Townships
Cost: \$200,000/year/Existing Staff

6. Facilitate four educational sessions for developers, engineers, and contractors to review the new Erosion Ordinance.

Timeline: 2011 - 2012
Agency (Who): SWCD, P&Z, Cities
Cost: \$600/Existing Staff

7. Assist required cities with the educational requirements for NPDES II.

Timeline: 2011 - ongoing
Agency (Who): SWCD, cities
Cost: Existing Staff

8. Review three DNR permits per year when the situation warrants District staff inspection.

Timeline: 2011 - ongoing
Agency (Who): SWCD, DNR
Cost: Existing Staff

9. Survey five storm water ponds to verify that they are still meeting their designed capacities.

Timeline: 2012 - 2015
Agency (Who): SWCD, cities, MPCA
Cost: Existing Staff

Priority Issue III: Development Pressure

Goal: Develop regulations, incentives, and educate the public, to ensure orderly development with minimal impacts to Wright County's natural resources.

Objective B: Influence landowners in existing developments to use practices which reduce and/or mitigate negative human impact on natural resources.

Action Items:

1. Provide education and incentives to lake, river riparian and wetland owners to retain or restore existing native vegetation and/or plant emergent vegetation and other soft practices to reduce shoreline erosion.

Timeline: 2012 - ongoing
Agency (Who): SWCD, Water Plan Manager, Lake Associations, DNR
Cost: \$50,000/Existing Staff

2. Inventory existing emergent vegetation on prioritized General Development and Recreational Development Lakes. Starting first with lakes that have been prioritized by the DNR Fisheries. Then inventorying two new lakes per year.

Timeline: 2012 - ongoing
Agency (Who): Lake Associations, Water Plan Manager, DNR
Cost: \$10,000/Existing Staff

3. Continue the work with the Storm Water Retrofit Program. Identify and construct five projects.

Timeline: 2011 - 2015
Agency (Who): SWCD, City of Howard Lake, City of Annandale
Cost: \$66,500/Existing Staff

4. Install rain water gardens in urban areas. Anticipate five rain gardens per year until the Rain Garden Fund is exhausted.

Timeline: 2011 - ongoing
Agency (Who): SWCD, cities
Cost: Existing Staff, \$18,000

5. Monitor two installed infiltration practices to document effectiveness.

Timeline: 2011 - ongoing
Agency (Who): SWCD
Cost: Existing Staff

6. When needed, secure funding and complete Minnesota Land Cover Classification Surveys (MLCCS) in designated watersheds.

Timeline: 2011 - ongoing
Agency (Who): SWCD, Water Plan Manager
Cost: Existing Staff

Priority Issue IV: Agricultural Land Uses

Goal: To achieve countywide use of environmentally conscious practices by agricultural producers to protect and enhance Wright County's natural resources.

Objective A: Influence the agricultural operators to use practices which reduce and/or mitigate negative human impact on natural resources.

Action Items:

1. Address one agricultural producer group per year concerning erosion problems and solutions.

Timeline: 2011 - ongoing
Agency (Who): SWCD, NRCS, MDA Extension, MN Farm Bureau
Cost: Existing Staff

2. Explore tax incentives/disincentives for erosion control in impaired areas.

Timeline: 2012
Agency (Who): Water Plan Manager
Cost: Existing Staff

3. Explore tax incentives/disincentives for the restoration of shore land areas back to native conditions.

Timeline: 2012
Agency (Who): Water Plan Manager
Cost: Existing Staff

4. Conduct focused outreach in specific watersheds that are shown to be major phosphorus contributors. These efforts will consist of both educational components as well as project implementation.

Timeline: 2012 - ongoing
Agency (Who): SWCD, NRCS, CROW, CRWD
Cost: \$100,000/Existing Staff

5. Continue to utilize local, state, and federal cost share programs for high priority erosion control projects. Complete three EQIP funded projects per year that improve water quality. Install two major gully, stream bank or erosion control practices where sediment load is affecting water resources. Maintain fifteen projects using local cost-share or filter funds.

Timeline: Ongoing
Agency (Who): SWCD, NRCS
Cost: \$932,800/Existing Staff

6. Maintain funding for a permanent part-time filter specialist to promote buffer strips and other easements.

Timeline: ongoing
Agency (Who): SWCD
Cost: Existing Staff

7. Complete the county ditch modernization update. Investigate a county ditch buffer program.

Timeline: 2011 - 2015
Agency (Who): County, SWCD
Cost: \$52,747/Existing Staff

8. Make on-site visits to thirty selected landowners to encourage the use of CRP and/or other programs for the installation of buffer strips along streams and ditches entering lakes.

Timeline: 2011 - ongoing
Agency (Who): SWCD, NRCS
Cost: Existing Staff

9. Publicize and promote the use of the low interest SRF Loan Program so that two loans are made for the acquisition of conservation tillage equipment to be used on four hundred acres of cropland.

Timeline: 2011 - ongoing
Agency (Who): SWCD, NRCS
Cost: Existing Staff

Priority Issue IV: Agricultural Land Uses

Goal: To achieve countywide use of environmentally conscious practices by agriculture producers to protect and enhance Wright County's natural resources.

Objective B: Continue the County's partnership with the County Feedlot Officer to ensure all county feedlots are in compliance with 7020 rules.

Action Items:

1. Educate feedlot operators regarding the economic value of good manure management through an annual manure management forum.

Timeline: 2011 - ongoing
Agency (Who): P&Z, SWCD
Cost: \$750/Existing Staff

2. Following MPCA's guidelines, continue Wright County's feedlot permitting program including the required periodic inspections. Review five ag-waste systems per year.

Timeline: Ongoing
Agency (Who): MPCA, P&Z, SWCD
Cost: Existing Staff

3. Install one feedlot pollution control practice per year so that operation meets MPCA run-off standards.

Timeline: Ongoing
Agency (Who): SWCD, NRCS, MPCA
Cost: Existing Staff

4. Conduct focused efforts to establish nutrient and/or manure management plans in the Twelve Mile Creek Watershed.

Timeline: 2011-2014
Agency (Who): SWCD, NRCS, MPCA
Cost: Existing Staff

IV. Implementation Schedule

NOTE: for a complete description of each strategy, refer to the Wright CLWMP, Section III

Wright County Implimentation Schedule									
			Responsible*	2011	2012	2013	2014	2015	Watershed
Priority 1 - Ground Water Quality and Quantity									All
Objective A - Increase available background information of Wright County's groundwater through monitoring, analysis, outside data sources, and better information distribution.									
Actions	1	Cooperate with agencies in the implimentation of WHPA's	WPM MDH Cities USGS	X	X	X	X	X	All
	2	Provide online info. regarding well water testing, standards, and contacts	WPM SWCD	\$500	\$500	\$500	\$500	\$500	All
	3	Private well water testing program focusing on nitrates in WHPA's	WPM SWCD MDH		\$4,500		\$4,500		All
	4	Continue and expand water table monitoring program	SWCD DNR	X	X	X	X	X	All
	5	Develop a County Geologic Atlas	P&Z SWCD WPM USGS	\$50,000					All
Objective B - Work to prevent failure of SSTS and related sewage pollution in Wright County.									
Actions	1	Relocate SRF program with the County	SWCD P&Z	X	X	X	X	X	All
	2	Continue point-of-sale inspection program	P&Z	X	X	X	X	X	All
	3	Implement a pharmaceutical disposal program	P&Z Cities WPM	X	X	X	X	X	All
	4	Implement an Arsenic awareness program	WPM	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	All
	5	Provide soil verification assistance to P&Z for SSTS drain fiields when requested	P&Z SWCD	X	X	X	X	X	All
Annual Total Cost (exluding staff time):				\$ 51,500	\$ 6,000	\$ 1,500	\$ 6,000	\$ 1,500	

X = Year in which program is active and staff time is dedicated.

*Available Full Time Equivlant Staff Time: SWCD = 4.5, WPM = 1, P&Z = 5.25, CROW = 2, NRCS = 3, CRWD = 1.5

NOTE: for a complete description of each strategy, refer to the Wright CLWMP, Section III

Wright County Implementation Schedule									
			Responsible*	2011	2012	2013	2014	2015	Watershed
Priority 2 - Surface Water Issues									All
Objective A - Collect and compile data supporting the intensive monitoring process.									
Actions	1	Continue and expand Lake Monitoring Program by one new lake per year	WPM MPCA Lake Assoc.	X	X	X	X	X	All
	2	Expand the Advanced Lake Monitoring Program	WPM Lake Assoc.	X	X	X	X	X	All
	3	Facilitate a county wide Point-Intercept-Survey for interested lake associations	WPM Lake Assoc.	X	X	X	X	X	All
	4	Establish 4 long term monitoring sites	WPM MPCA CROW CRWD	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	All
	5	Continue the Rockford Crow River monitoring Station	SWCD Met Council	X	X	X	X	X	Crow River
	6	Continue the County Ditch 10 monitoring	SWCD MPCA	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	Crow River
	7	Coordinate better communication between area County Water Planers	WPM CROW Mississippi Basin	X	X	X	X	X	All
	8	Conduct a survey of the municipal sewage discharges	WPM Cities	X	X	X	X	X	All
Objective B - Foster an effect delivery system to get projects on the ground during the implementation phase of watershed projects.									
Actions	1	Host Healthy Lake workshops biannually	WPM Initiative Foundation Lake Assoc.		\$60,000		\$60,000		All
	2	Support the formation of COLA's and/or LARA's and attend all meetings	WPM MN Waters Lake Assoc.	\$300	X	X	X	X	All
	3	Establish funding source for assessments and the implementation of remediation plan	WPM SWCD CROW CRWD	X	X	X	X	X	All
	4	Provide maps to water organizations	SWCD	X	X	X	X	X	All
	5	Complete a 500' streambank restoration on the Crow River in St Michael	SWCD CROW DNR City of St. Michael	\$250,000	X				Crow River
	6	Complete a stream bank stabilization on Ramsey Lake	SWCD CROW Ramsey Lake Assoc	\$150,000	X				Crow River
	7	Complete a 500' lake shore restoration on Maple Lake	SWCD CROW Maple Lake Assoc	\$30,000	X				Crow River
	8	Complete a 150' streambank stabilization on the Crow River in Marysville Township	SWCD CROW	\$30,000	X				Crow River
Annual Total Cost (excluding staff time):				\$465,300	\$65,000	\$5,000	\$65,000	\$5,000	

X = Year in which program is active and staff time is dedicated.

*Available Full Time Equilivant Staff Time: SWCD = 4.5, WPM = 1, P&Z = 5.25, CROW = 2, NRCS = 3, CRWD = 1.5

Wright County Implementation Schedule			Responsible*	2011	2012	2013	2014	2015	Watershed
Priority 3 - Development Pressure									All
Objective A - Guide new development with comprehensive planning, accessible information, and consideration for natural resources.									
Actions	1	Continue to review plats	P&Z SWCD	X	X	X	X	X	All
	2	Adopt a storm water ordinance to limit erosion and sedimentation from construction	P&Z SWCD WPM		X				All
	3	Implement storm water ordinance in the incorporated area of the county	SWCD WPM Cities		X				All
	4	Implement a review process for all projects that meet ordinance thresholds	SWCD WPM P&Z Cities		X	X	X	X	All
	5	Implement a storm water facility maintenance program	SWCD WPM P&Z Cities Townships		\$200,000	\$200,000	\$200,000	\$200,000	All
	6	Facilitate educational sessions for developers, engineers, and contractors to review the ordinance	SWCD P&Z Cities	\$600	\$600				All
	7	Assist required cities with educational requirements for NPDES II	SWCD Cities	X	X	X	X	X	All
	8	Review DNR permits which were not District staff review	SWCD DNR	X	X	X	X	X	All
	9	Survey storm water ponds to verify they are meeting designed capacities	SWCD Cities MPCA	X	X	X	X	X	All
Objective B - Influence existing developments and landowners use practices which reduce and/or mitigate negative human impact on natural resources.									
Actions	1	Provide education and incentive to riparian landowners to restore native vegetation	SWCD WPM Lake Assoc DNR		\$50,000	\$50,000	\$50,000	\$50,000	All
	2	Inventory existing veg. on all GD and RD lakes	WPM DNR Lake Assoc.	\$3,000	X	X	X	X	All
	3	Continue to work with the Stormwater Retrofit Program	SWCD City of Howard Lake City of Annandale	\$66,500	X	X	X	X	All
	4	Install rain gardens in urban areas until Rain Garden Fund is exhausted	SWCD Cities	\$18,000	X	X	X	X	All
	5	Monitor infiltration practices to document effectiveness	SWCD	X	X	X	X	X	All
	6	When needed secure funding for MLCCS's in designated watersheds	WPM SWCD	X	X	X	X	X	All
Annual Total Cost (excluding staff time):				\$88,100	\$250,600	\$250,000	\$250,000	\$250,000	

X = Year in which program is active and staff time is dedicated.

*Available Full Time Equilivant Staff Time: SWCD = 4.5, WPM = 1, P&Z = 5.25, CROW = 2, NRCS = 3, CRWD = 1.5

Wright County Implimentation Schedule				Responsible*	2011	2012	2013	2014	2015	Watershed
Priority 4 - Agricultural Land Uses										All
Objective A - Influence the agricultural operators to use practices which reduce and/or mitigate negative human impact on natural resources.										
Actions	1	Address agricultural producer groups with the topic of erosion	SWCD NRCS MDA Extension Farm Bureau	X	X	X	X	X	X	All
	2	Explore tax incentives/disincentives for erosion control in impaired watersheds	WPM		X					All
	3	Explore tax incentives/disincentives to resotore shore land area to native conditions	WPM		X					All
	4	Conduct outreach in watersheds shown to be major phosphorus contributors	SWCD NRCS CROW CRWD	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	All
	5	Continue to utilize local, state, and federal cost share programs	SWCD NRCS	\$190,000	\$190,000	\$190,000	\$190,000	\$190,000	\$190,000	All
	6	Maintain funding for a permanent part time buffer specialist	SWCD DNR	X	X	X	X	X	X	All
	7	Complete the county ditch modenization effort - investigate a county ditch buffer program	County SWCD	\$52,747	X	X	X	X	X	All
	8	Promote CRP and other buffer programs	SWCD NRCS	X	X	X	X	X	X	All
	9	Pubicize and promote the SRF program for conservation equipment	SWCD NRCS	X	X	X	X	X	X	All
Objective B - Continue the County's partnership with the MPCA to ensure all county feedlots are in compliance with 7020 rules.										
Actions	1	Conduct an annual manure management fourum	P&Z SWCD	\$150	\$150	\$150	\$150	\$150	\$150	All
	2	Continue feedlot permitting program	P&Z SWCD MPCA	X	X	X	X	X	X	All
	3	Install feedlot pollution control practices	SWCD NRCS P&Z	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	All
	4	Conduct focused nutrient and/or manure management efforts in the 12 Mile Creek Watershed	SWCD NRCS P&Z	X	X	X	X	X	X	Crow River
Annual Total Cost (exluding staff time):				\$362,897	\$310,150	\$310,150	\$310,150	\$310,150	\$310,150	

X = Year in which program is active and staff time is dedicated.

*Available Full Time Equilivant Staff Time: SWCD = 4.5, WPM = 1, P&Z = 5.25, CROW = 2, NRCS = 3, CRWD = 1.5

Wright County Ongoing Activities		
Program	Staff Time	Program Source
Administration	\$ 88,000.00	SWCD
Ag. Preserve/Rural Preserve	\$ 6,000.00	County
Educational Activities	\$ 16,000.00	SWCD
Farmbill Assistance	\$ 20,000.00	NRCS
Federal Programs	\$ 24,000.00	NRCS
Filter Strip Program	\$ 2,000.00	SWCD
Monitoring/CROW	\$ 9,600.00	Water Management
Observation Wells	\$ 3,600.00	DNR
Permits DNR/P&Z	\$ 8,000.00	County
RIM/PWP	\$ 4,000.00	BWSR
State Cost-Share	\$ 22,000.00	BWSR
State Revolving Fund	\$ 4,000.00	MDA
Stormwater Retrofit Program	\$ 20,000.00	BWSR
Technical Support	\$ 20,000.00	SWCD
Tree Program	\$ 17,800.00	SWCD
Water Management	\$ 76,000.00	Water Management
Weed Program	\$ 16,000.00	SWCD
WCA	\$ 80,000.00	BWSR
Wetland Restoration	\$ 8,000.00	SWCD
Working Lands Initiative	\$ 12,000.00	DNR
Feedlot Inspector	\$ 60,000.00	MPCA
SSTS Administration	\$ 120,000.00	P&Z
Annual Total Cost:	\$ 637,000.00	