

SECTION 8: IMPLEMENTATION PROGRAM

The implementation program of this Plan includes capital improvement (structural) projects and non-structural activities (e.g., studies, monitoring). The implementation program identifies the specific projects, studies and other activities necessary to implement the VRWJPO goals and policies. Table 8.1 is a comprehensive list of the VRWJPO implementation program. The implementation program components will be funded as shown in Table 8.1 and in accordance with applicable State laws. Table 8.2 is a reorganization and summary of the activities in Table 8.1, showing the year-by-year estimated costs of the implementation program and the total estimated annual costs 2006-2015. The costs shown in Tables 8.1 and 8.2 are the potential VRWJPO costs. These costs could be offset by grants, cost sharing with other organizations, etc. Section 5.3 provides information about the VRWJPO financing of its implementation program.

The VRWJPO will follow the process outlined in the applicable Statutes for implementing proposed capital improvement projects. Typically, capital improvement projects begin with the preparation of a feasibility study and report on the proposed project. If the VRWJPO orders the project, plans and specifications are prepared, the funding mechanism is finalized, and the project is advertised for bid. If the funding mechanism changes for any of the capital improvement projects listed in Table 8-1, the VRWJPO will hold a public hearing on the proposed change to the funding method before ordering the project.

The capital improvement project costs in Table 8-1, expressed in 2004 dollars, will be adjusted annually in accordance with an inflation index (i.e., the Engineering News Record's Construction Cost Index). As stated in Section 6.3, the VRWJPO will consider certain increases in estimated project costs (as annually adjusted) to be consistent with the Plan and not require a minor or general plan amendment. If the cost of a capital improvement project in Table 8-1 increases by more than this amount, the VRWJPO will follow the minor plan amendment process before implementing the project (see Section 6.3 for more information regarding plan amendments).

Similarly, the VRWJPO may implement the activities and projects listed in Table 8-1 at a different time than shown in the table (e.g., year 2007 rather than 2009), as circumstances dictate. For example, the availability of grants and partnerships could result in either acceleration or delay of projects. The VRWJPO will consider such shifts in the time schedule to also be consistent with the Plan and not require a minor or general plan amendment (see Section 6.3 for more information regarding plan amendments).

The VRWJPO will consider any changes to estimated costs for monitoring activities, assessments, studies and other non-structural projects to be consistent with the Plan and not require a minor or general plan amendment (see Section 6.3 for more information regarding plan amendments).

As described in Section 5.2 of this Plan, the VRWJPO will use a minor plan amendment process to develop standards for water resource management in the Watershed. The VRWJPO considers standards development and the subsequent rule-making to be a very high priority for the Watershed, so the process will begin immediately. As noted in Section 5.2, the VRWJPO will be working with local governments during the rule-making process to incorporate the VRWJPO standards into their ordinances and other controls (e.g., assisting townships with development of a model ordinance, and review of existing city ordinances). During the rule-making process, the VRWJPO will:

1. Review existing local government ordinances to check for gaps between local standards and VRWJPO standards.
2. Require that local governments submit proposed land alteration plans to the VRWJPO for review and comment, if the plans include any of the following conditions:
 - Variances from the local government's ordinances that affect surface water or impact surface water/groundwater interactions
 - Diversions
 - Intercommunity flows (to or from)
 - Project site size of 40 acres or more.

The VRWJPO estimates the VRWJPO rules will be adopted in December 2006, per the requirements of Minn. Stat. 103B.235, Subd. 4, which states that local governments will adopt and implement their plans within 120 days and will amend their official controls accordingly within 180 days. During the interim period between VRWJPO rule adoption and local government adoption of ordinances and controls (estimated to be between December 2006 and December 2007), the VRWJPO will, in LGUs without a Local Water Plan approved by the VRWJPO:

1. Work with local governments to revise/adopt their ordinances and other controls to incorporate the VRWJPO standards.
2. Assist the townships in developing a model ordinance that incorporates the VRWJPO standards.
3. Require that the local governments submit proposed land alteration plans to the VRWJPO for review and comment, if the plans includes any of the following conditions:
 - Variances from the local government's ordinances that affect surface water or impact surface water/groundwater interactions
 - Diversions
 - Intercommunity flows (to or from)
 - Project site size of 40 acres or more
 - Other proposed activities, as identified in the VRWJPO rules.

The VRWJPO envisions three categories of permitting responsibility following adoption of the VRWJPO rules:

Category 1. VRWJPO responsible for permitting.

Category 2. Local governments responsible for permitting

Category 3. Local governments responsible for permitting, with VRWJPO permitting required under certain circumstances

Following VRWJPO rule adoption, the VRWJPO will evaluate local government ordinances to determine if they match the VRWJPO Standards. If a local government's ordinances are found to be insufficient (i.e., do not meet the VRWJPO Standards), the VRWJPO will implement a permitting program in that community (Category 1).

If a local government incorporates the VRWJPO Standards into its ordinances and controls, and demonstrates compliance with the VRWJPO Standards, that local government will be responsible for all permitting (Category 2). The VRWJPO will require local

governments responsible for permitting to submit some proposed land alteration plans to the VRWJPO for review and comment each year through a VRWJPO evaluation program. Land alteration plans with the following condition are particularly important to the VRWJPO for review:

- Diversions
- Intercommunity flows (to or from)
- Project site size of 40 acres or more
- Project that are adjacent to or appear to impact major waterways or unique natural resources

All land alteration plans that require an amendment to or a variance from the adopted Local Water Plan must be submitted to the VRWJPO for review and approval or denial as prescribed by Minn. Stat. 103B.211.

The VRWJPO will enforce its permits and rules as allowed by Minnesota Statutes 103B and 103D. The VRWJPO may also evaluate local government permitting programs. If these evaluations show non-compliance with the VRWJPO's Standards and/or the local government's ordinances, the VRWJPO will implement a permitting program in that local government.

The VRWJPO may establish special subtaxing districts to collect funds to cover its cost to implement the permitting program in communities where the VRWJPO has permitting authority. As an alternative to setting up special subtaxing districts, the VRWJPO will consider collecting permit fees to offset the costs of implementing the permitting program.

Table 8-1 Explanatory Information

The tasks in Table 8-1 (Implementation Table) are broken down into the following headings and subheadings:

Administrative/Managerial

Subheadings:

- AA – Providing or Assisting with Finding Funds
- AC – Conducting Evaluations and Formulating Policy
- AD – Regulatory, Review and Intervention
- AE – Coordination with Agencies
- AF – Coordination with Counties, Cities and Townships

Feasibility/Preliminary Studies (S)

Capital Projects (CP)

Education and Public Outreach (EA)

Inventory and Assessment (IA)

Monitoring and Data Analysis (MA)

Table 8-1
IMPLEMENTATION PROGRAM
Vermillion River Watershed Joint Powers Organization

Item Type	Item Number	Item Description	Section, Objective/ Action	Potential Cost (\$thousand [^])			Potential Partners and Funding Sources*	Proposed Implementation Year(s)
				Initial	Annual	Capital		
Administrative / Managerial (AA)								
Providing or Assisting with Finding Funds								
AA	1	Encourage public and non-public water suppliers to institute phased water conservation techniques through education, monitoring, and development and implementation of standards by 2008. VRWJPO will provide assistance to public and non-public water suppliers to develop standards by 2007.	4.3, 2/4	3	2.5		L, V, S, N	2007 - Initial 2008-2013 - Annual
AA	2	Enhance local units of governments' efforts to inventory failing and non-compliant septic systems and to jointly prioritize areas for septic system upgrades.	4.3, 3/7	20	25		L, V, S	2006 – Initial 2007-2015 Annual
AA	3	Support and/or assist local governments in the development of wetland protection ordinances.	4.4, 2/1	10	7.5		L, V, S	2006 - Initial 2007-2008 - Annual
AA	4	Provide support to local communities to continue the Wetland Health Evaluation Program.	4.4, 6/3		20		V, L	Annually
AA	5	Provide annual funding to leverage other funds and collaborate with other entities on recreational/natural resource protection and enhancement studies and projects.	4.7, 5/1		5		V, L, S, F, N	Annually
AA	6	Support community efforts to create a continuous trail system along the Vermillion River and its major tributaries. (Note: VRWJPO support will not include funding for trail construction.)	4.7, 5/6		2		L, S, F, N, (V)	Annually
Conducting Evaluations and Formulating Policy (AC)								
AC	1	Determine appropriate responsibilities in implementing load reduction measures identified in TMDL studies.	4.1, 1/2		5		S, L, V, F	2006-2011
AC	2	Determine how to best expand and enhance water quality monitoring in the Watershed.	4.1, 2/1		1		V, S, F, L, N,	2006-2010

* V=Vermillion River Watershed Taxing District L=Local or Regional Govt. S=State assistance/cost-share/grant F=Federal assistance/cost-share/grant N=Non-government org.
[^]Amounts shown are for 2005 dollars

Item Type	Item Number	Item Description	Section, Objective/ Action	Potential Cost (\$thousand^)			Potential Partners and Funding Sources*	Proposed Implementation Year(s)
				Initial	Annual	Capital		
AC	3	Develop a management framework for water bodies, based on existing statutory classifications, desired uses, existing conditions, and the priorities of the VRWJPO.	4.1, 3/3	10	80		V, L, S	2006 – Initial 2007-2008 - Annual
AC	4	Where water quality does not support desired uses, prepare subwatershed plans to meet required water quality.	4.1, 3/4					
AC	5	Determine appropriate stream buffer locations and widths according to priorities within each subwatershed, type of stream, and adjacent land use.	4.1, 3/5.2	40	15		V, L, S, F, N	2006 – Initial 2007-2008 - Annual
AC	6	Identify and prioritize recreational lakes that are the responsibility of the VRWJPO.	4.1, 4/1	3			V, L, S	2006-2008
AC	7	Review federal, State, and local agency programs and designation related to surface water quality and identify where additions or changes are needed.	4.1, 5/1		0.5		V, L, S	Annually
AC	8	In collaboration with state agencies and local units of government, lead effort to explore a watershed-based approach to NPDES Phase II MS4 permitting.	4.1, 5/2		20		V, L, S	2006-2008
AC	9	Monitor emerging technologies for protecting the cold-water fishery, including reducing thermal impacts to streams.	4.1, 5/7		1		S, V, N	1-4
AC	10	Establish and oversee stormwater management system maintenance standards for cities and townships within the Watershed.	4.1, 6/1	5	5		V, L, S	2007 - develop 2008-2015 - oversee
AC	11	Inventory individual NPDES point source permits in the Watershed. Identify the permits the VRWJPO should monitor. Review water quality standards for the identified NPDES permits. Determine if there are gaps between the permit standards and what the VRWJPO believes is needed to protect Watershed water resources. If there are gaps, develop recommendations and/or options for addressing the gaps/deficiencies, such as new water quality standards (e.g. thermal standards) to apply to these point sources.	4.1, 7/1		7		V, L, S	2006-2008

* V=Vermillion River Watershed Taxing District L=Local or Regional Govt. S=State assistance/cost-share/grant F=Federal assistance/cost-share/grant N=Non-government org.
^Amounts shown are for 2005 dollars

Item Type	Item Number	Item Description	Section, Objective/ Action	Potential Cost (\$thousand [^])			Potential Partners and Funding Sources*	Proposed Implementation Year(s)
				Initial	Annual	Capital		
AC	12	Develop a program to monitor streambank stability along the Vermillion River and its major tributaries (North Creek, South Creek, Middle Creek, South Branch, and Etter Creek).	4.2, 1/4		1.5		V, L, S	2006-2008
AC	13	Compile and update design and guidance documents for stormwater management within the Watershed.	4.2, 2/3	10	5		S, L, V, N	2006 – Initial 2007-2015 – Annual
AC	14	Address issues of cross-jurisdictional hydrology (e.g. Goodhue County, the Gun Club WMO, the Lower Mississippi WMO, and the Minnesota Zoo).	4.2, 5/1 4.2, 5/2 4.2, 5/3	4	10		V, L	2006-2010
AC	15	Collaborate with other agencies to develop a groundwater monitoring system along the Vermillion River and at key areas within the Watershed to better understand surface water/groundwater interactions.	4.3, 1/1	4	3		V, S, F, L	2006-2008
AC	16	Collaborate with other agencies to develop a water conservation guidance document and provide this guidance document to cities, agriculture-related agencies and other key water users or organizations.	4.3, 2/2	10	1		V, S, F, N	2008 – Initial 2009-2015 – Annual
AC	17	Develop a program to determine the most effective water conservation techniques for water supplies and local waters.	4.3, 2/5					
AC	18	In collaboration with others, develop a method and inventory abandoned well locations in key/sensitive areas.	4.3, 3/10	2				2006-2010
AC	19	Identify priority strategies and objectives in both County Groundwater Protection Plans (e.g., defining groundwater recharge areas).	4.3, 5/1	5	12.5		V, L, S, F	2006 – Initial 2007-2010 Annual
AC	20	Develop a strategy/action that supports or corroborates the implementation of County Groundwater Protection Plan objectives, but that does not duplicate County efforts, and implement these actions (e.g., model ordinance to protect recharge areas).	4.3, 5/2					

* V=Vermillion River Watershed Taxing District L=Local or Regional Govt. S=State assistance/cost-share/grant F=Federal assistance/cost-share/grant N=Non-government org.
[^]Amounts shown are for 2005 dollars

Item Type	Item Number	Item Description	Section, Objective/ Action	Potential Cost (\$thousand^)			Potential Partners and Funding Sources*	Proposed Implementation Year(s)
				Initial	Annual	Capital		
AC	21	Research the issue of infiltration impacts on groundwater and develop a consistent approach to protecting areas sensitive to groundwater contamination.	4.3, 7/2	7	6		V, L, S	2006 Initial 2007-2008 – Annual
AC	22	Identify priority wetland restoration project opportunities.	4.4, 3/1	7	6		V, S	2006 – initial 2007-2008 – Annual
AC	23	Evaluate fish and wildlife habitat areas to prioritize the acquisition of easements over floodplains. (See also Floodplain Objective 3, Action 4.)	4.4, 4/4	4	3		S, F, N, V	2006 – initial 2007-2008 – Annual
AC	24	Establish setback requirements for any structures allowed in the floodplain or flood zone.	4.5, 2/3	1	0.5		L, S, V	2006 – Initial 2007-2008 – Annual
AC	25	Create a policy to guide the proportion of local and Watershed financial contributions to flood storage projects (e.g., Farmington basin, serving more than one community).	4.5, 3/2	2	1		V, L	2006 – Initial 2007-2008 – Annual
AC	26	Identify locations where conservation plans are most needed, and in collaboration with others, assist landowners in completing conservation plans for these lands.	4.6, 3/6	30	5.5		F, S, V, L, N	2006 – Initial 2007-2015 – Annual
AC	27	Establish a task force of VRWJPO staff, citizens, and State, regional, and local agency/organization representatives to advise the VRWJPO on river corridor issues.	4.7, 3/1		0.5		V, L, S, N	2008-2015 – Annual
AC	28	Encourage and sponsor preparation of a Vermillion River corridor recreational plan with the task force. The plan will identify priority areas and assess specific recreational uses and problems.	4.7, 3/2		12.5		V, L, S, N	2007-2010
AC	29	Lead process improvement effort to clarify expectations and opportunities for watershed management plans and local water management plans, and how to coordinate these plans with the requirements of other programs (e.g., NPDES Phase II MS4 permit requirements).	7.1	10			V	2006 – Annual

* V=Vermillion River Watershed Taxing District L=Local or Regional Govt. S=State assistance/cost-share/grant F=Federal assistance/cost-share/grant N=Non-government org.
^Amounts shown are for 2005 dollars

Item Type	Item Number	Item Description	Section, Objective/ Action	Potential Cost (\$thousand^)			Potential Partners and Funding Sources*	Proposed Implementation Year(s)
				Initial	Annual	Capital		
Regulatory, Review, and Intervention (AD)								
AD Stds	1	Develop watershed standards for water quality, runoff rate and volume, including agricultural, rural residential, and urban runoff BMPs (and other watershed management standards, if needed), as a minor amendment to the VRWJPO Watershed Management Plan.	4.1, 5/2 4.2, 2/2 4.6, 3/7	80	6		V, L, S	2006 – Initial 2007-2015 – Annual
AD Stds	2	Review current water conservation standards and practices and develop water conservation standards for the Watershed by 2008.	4.3, 2/1	10	1		V, L, S	2008 – Develop 2008-2015 – Oversee
AD Rules	3	Develop, adopt and oversee official rules to implement the VRWJPO standards for water quality, runoff rate and volume, including agricultural, rural residential, and urban runoff BMPs (and other watershed management rules, if needed).	4.1, 5/3 4.2, 2/4 4.6, 3/8	100	300		V, L, S	2006-2007 – Develop 2008-2015 – Monitor & Implement
AD	4	Review the status of lake water quality and management plans on at least a five-year basis as part of VRWJPO planning.	4.1, 4/2		1		V, L, S	Annually
AD	5	Following VRWJPO implementation of its rules for water quality, runoff rate and volume, and land disturbance runoff (and other watershed management rules, if needed), 1) review and audit the ordinances of the local units of government to determine if they match the VRWJPO rules; and 2) perform selected project reviews as informal audits of the local units of government's ordinances and permitting programs.	4.1, 5/4 4.2, 2/5 4.6, 3/9	20	2.5		V, L, S	2007 – Review 2008-2015 – Audit
AD	6	Implement a permitting program in communities where the local unit of government's ordinances and other controls are found to be insufficient (i.e. do not meet the VRWJPO rules) or where a watershed program is determined to be more efficient and effective. Cost dependent on volume of watershed permitting.	4.1, 5/4 4.2, 2/5 4.6, 3/9		50		V, L	2007-2015

* V=Vermillion River Watershed Taxing District L=Local or Regional Govt. S=State assistance/cost-share/grant F=Federal assistance/cost-share/grant N=Non-government org.
^Amounts shown are for 2005 dollars

Item Type	Item Number	Item Description	Section, Objective/ Action	Potential Cost (\$thousand^)			Potential Partners and Funding Sources*	Proposed Implementation Year(s)
				Initial	Annual	Capital		
AD	7	Set up special subtaxing districts or permit fees to collect funds to cover the VRWJPO's cost of implementing the permitting program in those communities where the VRWJPO has permitting authority.	4.1, 5/4 4.2, 2/5 4.6, 3/9		2.5		V, L	2007-2010
AD	8	Review NPDES permit applications, renewals, revisions, etc. and comment on aspects of the permit application that impact the water resources in the Watershed. Suggest additional or modified standards to MPCA, when/if appropriate.	4.1, 7/4		5		L, S, V	Annually
AD	9	Review annual monitoring reports of wastewater discharge facilities within the Vermillion River Watershed.	4.1, 7/3		3		S, L, V	Annually
AD	10	Provide runoff rate and volume oversight, guidance, and assistance to developers in planning and designing onsite water management practices.	4.2, 2/1		20		V, L, S	Annually
AD	11	Consider alternatives to upgrade septic-systems, including support of focused enforcement of ISTS requirements, in potential partnership with other units of government.	4.3, 3/8		5		V, L, S	2006-2010
AD	12	Review projects and plans with an awareness of sensitive habitats and communities, and rare species, as listed in this Plan or otherwise available (e.g., County Biological Survey or other biological inventories). While conducting environmental reviews [e.g., Environmental Assessment Worksheets (EAW), Alternative Urban Area Reviews (AUAR) and Environmental Impact Statements (EIS)], the VRWJPO will evaluate the impacts of proposed and existing land uses on surface water and groundwater resources in the Watershed.	4.4, 5/2 4.6, 1/1		5		V, S, F, N	Annually

* V=Vermillion River Watershed Taxing District L=Local or Regional Govt. S=State assistance/cost-share/grant F=Federal assistance/cost-share/grant N=Non-government org.
^Amounts shown are for 2005 dollars

Item Type	Item Number	Item Description	Section, Objective/ Action	Potential Cost (\$thousand)			Potential Partners and Funding Sources*	Proposed Implementation Year(s)
				Initial	Annual	Capital		
AD	13	Review the status of local floodplain and shoreland ordinances to identify voids and potential enhancements.	4.5,1/1	6	2.5		V, L, S	2006-2008 – Review/Initial
AD	14	Work with local governments that lack adequate floodplain and shoreland ordinances to develop and adopt ordinances compatible with VRWJPO, County, and State requirements.	4.5, 1/2					2007-2012Coordinate/Annual
Coordination with Agencies (AE)								
AE	1	Actively participate in the TMDL process by participating in public meetings and liaison activities	4.1, 1/1		1		S, V, L, N	Annually
AE	2	Coordinate buffer configuration and acquisition efforts with the Dakota County Farmland & Natural Areas Program, the Scott County SWCD buffer program, and similar or related local, state, or federal programs.	4.1, 3/5.3		1		V, L, S, N	2006-2010
AE	3	Promote participation in existing local, State, and federal agriculture and conservation programs [e.g., Environmental Quality Incentives Program (EQIP), Conservation Reserve Enhancement Program (CREP), Reinvest in Minnesota (RIM), MN Cost Share Program, Dakota County Farmland & Natural Areas Program, Conservation Security Program, Wildlife Habitat Incentives Program (WHIP), Farm and Ranch Lands Protection Program, Conservation Reserve Program (CRP)] and work with other agencies to identify rural areas needing the most assistance.	4.2, 4/1		2		V, S, N, F, L	Annually
AE	4	Work with the Minnesota Department of Natural Resources (MDNR) and Southwest Metro Groundwater Workgroup to address well interference and water appropriation issues in the Watershed.	4.3, 2/7		1		S, V, L	Annually

* V=Vermillion River Watershed Taxing District L=Local or Regional Govt. S=State assistance/cost-share/grant F=Federal assistance/cost-share/grant N=Non-government org.
^Amounts shown are for 2005 dollars

Item Type	Item Number	Item Description	Section, Objective/ Action	Potential Cost (\$thousand)			Potential Partners and Funding Sources*	Proposed Implementation Year(s)
				Initial	Annual	Capital		
AE	5	Work with the Minnesota Pollution Control Agency (MPCA) and local governments to develop watershed standards and requirements for community wells and septic systems.	4.3, 3/2		1		S, V, L	2006-2010
AE	6	Develop a model zoning ordinance to promote community wells and septic systems.	4.3, 3/5					
AE	7	Support Minnesota Department of Health (MDH) development of standards for pesticide degradates and mixtures.	4.3, 3/9		0.5		S, V, L, N	Annually
AE	8	Coordinate with conservation agencies and other organizations to supplement their fish and wildlife habitat protection and enhancement efforts and programs.	4.4, 4/2		0.5		S, V, N	Annually
AE	9	Coordinate habitat and wetland programs (e.g., a VRWJPO incentive program for wetland restoration, Dakota County's Farmland & Natural Areas Program, local wetland plans) to help produce a continuous corridor, especially along the Vermillion River and its major tributaries.	4.4, 4/6		0.5		S, V, L, N	Annually
AE	10	Assist State and local agencies in providing technical assistance to feedlot operators and other agricultural landowners whose operations are causing pollution problems. Assist agencies and/or feedlot operators and other agricultural landowners in obtaining grants to correct/mitigate pollution problems.	4.6, 3/3		0.5		S, V, L	Annually
AE	110	Along with appropriate State and local agencies, work with livestock owners to eliminate direct access by livestock to natural waterbodies (e.g., lakes, wetlands, rivers, streams).	4.6, 3/11		1		S, V, L	2006-2010
AE	12	Work with and support other agencies to address health and safety requirements in the River.	4.7, 4/3		0.5		S, V, L, N	Annually

* V=Vermillion River Watershed Taxing District L=Local or Regional Govt. S=State assistance/cost-share/grant F=Federal assistance/cost-share/grant N=Non-government org.
^Amounts shown are for 2005 dollars

Item Type	Item Number	Item Description	Section, Objective/ Action	Potential Cost (\$thousand)			Potential Partners and Funding Sources*	Proposed Implementation Year(s)
				Initial	Annual	Capital		
AE	13	Work with other governmental agencies and private landowners to increase public access to open space and the Vermillion River (e.g., Metropolitan Council through legislative park acquisition funding, Minnesota Department of Transportation to preserve ponding areas for future highway projects).	4.7, 5/5		1		S, V, N	Annually
AE	14	Request that the Minnesota Department of Natural Resources (MDNR) conduct an expanded fisheries survey of the water resources in the Watershed to better identify aquatic habitat issues and restoration opportunities.	4.7, 5/7				S, V, N	1-10
AE	15	Request that the MDNR conduct creel surveys and access surveys of the River and other major water resources in the Watershed.	4.7, 5/8				S, V, N	1-10
Coordination with Counties, Cities, and Townships (AF)								
AF	1	Coordinate with cities, townships, and other agencies and groups to conduct an inventory of existing and desired uses for major water bodies within the Watershed.	4.1, 3/1	10	2.5		S, V, N, L	2006 – Initial 2007-2010 – Annual
AF	2	Implement the buffer program through requirement of local ordinances that mandate creation of buffers as part of approval of developments and land-disturbing activities.	4.1, 3/5.5	8	1		L, V, S, N	2006-2007 – Develop/Initial 2008-2015 – Oversee/Annual
AF	3	Work with local units of government to develop a management framework that assigns roles and responsibilities for implementation of lake management projects.	4.1, 4/3		0.5		L, S, V, N	Annually
AF	4	If problems or shortcomings exist, work with affected municipalities to address lake management problems through VRWJPO and local regulation.	4.1, 4/4					

* V=Vermillion River Watershed Taxing District L=Local or Regional Govt. S=State assistance/cost-share/grant F=Federal assistance/cost-share/grant N=Non-government org.
^Amounts shown are for 2005 dollars

Item Type	Item Number	Item Description	Section, Objective/ Action	Potential Cost (\$thousand)			Potential Partners and Funding Sources*	Proposed Implementation Year(s)
				Initial	Annual	Capital		
AF	5	Work with local units of government to incorporate the VRWJPO standards into their stormwater management plans, ordinances and other controls. Assist the townships with development of a model ordinance that incorporates the VRWJPO standards. Oversee implementation.	4.1, 5/3 4.2, 2/4 4.6, 3/8	40	5		L, V, S, N	2006-2007 – Develop/Initial 2008-2010 – Oversee
AF	6	Require local government stormwater management plans to include documentation adequate to ensure that urban runoff will meet VRWJPO water quality standards and not adversely affect the Vermillion River, its major tributaries and other waterbodies.	4.1, 5/5		1		L, S, V, N	2007-2015
AF	7	Require local governments to develop stormwater management plans and ordinances that ensure that the costs of constructing, operating, and maintaining stormwater management systems for new development are fairly allocated so as not to unduly burden local governments or the VRWJPO (development pays for itself).	4.1, 5/6		10		L, S, V, N	2006-2007
AF	8	Develop and implement an incentive program to encourage implementation of additional BMPs.	4.1, 5/8 4.2, 2/6	10	20		V, L, S	2008 – Develop/Initial 2009-2015 – Annual
AF	9	Work with local units of government to reduce nitrogen application rates in targeted area.	4.3, 1/3		1		L, V, S	2008-2015
AF	10	Encourage development of water conservation plans as required by the Minnesota Land Planning Act.	4.3, 2/6		0.2		S, L, V, N	Annually
AF	11	Require communities to adopt and implement an inspection program for septic systems within the Watershed.	4.3, 3/6		.55		L, V, S	Annually
AF	12	Require that local government units in the Watershed ensure that all non-compliant Individual Sewage Treatment Systems (ISTS) located in wellhead protection areas be upgraded within five years.	4.3, 6/1		1		S, L, V	2006-2010
AF	13	Support the implementation of best management practices (BMPs) for wellhead protection areas.	4.3, 6/2		0.5		S, L, V	Annually

* V=Vermillion River Watershed Taxing District L=Local or Regional Govt. S=State assistance/cost-share/grant F=Federal assistance/cost-share/grant N=Non-government org.
^Amounts shown are for 2005 dollars

Item Type	Item Number	Item Description	Section, Objective/ Action	Potential Cost (\$thousand)			Potential Partners and Funding Sources*	Proposed Implementation Year(s)
				Initial	Annual	Capital		
AF	14	Encourage local government units to work with the Minnesota Department of Health (MDH) and Dakota and Scott Counties to periodically assess the vulnerability of groundwater used for drinking water supplies.	4.3, 8/3		0.5		S, L, V	Annually
AF	15	Support and/or assist local governments in the development and implementation of Comprehensive Wetland Management Plans.	4.4, 1/1	40	1		L, V, S, N	2006-2008 – Develop/Initial 2009-2015 – Implement/Annual
AF	16	Require communities to obtain conservation easements over critical habitat areas during development, possibly through a set-aside program. Critical habitat will be defined during the standards development process.	4.4, 4/5		0.5		V, S, L, N	Annually0
AF	17	Require local stormwater management and wetland management plans to include known sensitive habitats and communities, and rare species, and take reasonable measures to avoid impacts to these areas.	4.4, 5/1		0.5		S, L, V, N	Annually
AF	18	Require local stormwater management plans to identify 100-year floodplains for all water bodies, and be consistent with the counties' revised FEMA floodplain maps.	4.5, 2/2		1		L, V, S	2006-2008
AF	19	Require local government units to obtain flood and drainage easements, easements for maintenance access and easements over emergency flow routes during development and/or building permit processes.	4.5, 2/4		1		L, V, S	2006-2008
AF	20	Coordinate with responsible government units to ensure that structures are properly located relative to the floodplain.	4.5, 2/5		0.5			Annually
AF	21	Ensure that local governments require compensatory storage for new developments within the floodplain.	4.5, 3/1					

* V=Vermillion River Watershed Taxing District L=Local or Regional Govt. S=State assistance/cost-share/grant F=Federal assistance/cost-share/grant N=Non-government org.
^Amounts shown are for 2005 dollars

Item Type	Item Number	Item Description	Section, Objective/ Action	Potential Cost (\$thousand)			Potential Partners and Funding Sources*	Proposed Implementation Year(s)
				Initial	Annual	Capital		
AF	22	Assist local governments within the Watershed in developing criteria to consider potential off-site impacts of developments on water resources (e.g., how far downstream to evaluate, what types of problems to look for).	4.6, 1/2		0.5		V, L, S, N	Annually
AF	23	Work with local units of government to set standards for managing stormwater and culvert flows on road and other public improvement projects.	4.6, 1/4	5			V, L	2008
AF	24	Assist Dakota and Scott Counties in updating and maintaining their feedlot inventories.	4.6, 3/1		1		L, S, V	2006-2010
AF	25	Assist Dakota and Scott Counties, where appropriate, in implementing/administering their delegated county feedlot permitting programs.	4.6, 3/2		0.5		L, S, V	Annually
AF	26	Require communities to adopt stream corridor shoreland ordinances that comply with existing County and State ordinances, and comply with VRWJPO standards.	4.7, 2/2	2	0.5		L, V, S	2006 – Initial 2007-2015 – Annual
AF	27	Work with Dakota County to enhance the Dakota County Farmland & Natural Areas Program, and assist in developing a process to continue the program when the initial investment ends.	4.7, 5/3		1		L, V, N	Annually
AF	28	Work with local units of government to integrate the Dakota County Farmland and Natural Area Protection Program, greenway planning, and water resource protection into local comprehensive plans.	4.7, 5/4		1		V	2007-2008
Feasibility / Preliminary Studies (S)								
S	1	Conduct or assist with TMDL or other water quality studies	4.1, 1/1		20		S, V, L, F, N	2006-2010
S	2	Conduct feasibility studies for water quality improvement projects identified in subwatershed plans.	4.1, 3/4		5		V, L, S, N	Annually
S	3	Conduct feasibility studies for restoring damaged stream banks at priority locations.	4.2, 3/1	40	5.5		V, S, L, N	2006 – Initial 2007-2015 – Annual

* V=Vermillion River Watershed Taxing District L=Local or Regional Govt. S=State assistance/cost-share/grant F=Federal assistance/cost-share/grant N=Non-government org.
^Amounts shown are for 2005 dollars

Item Type	Item Number	Item Description	Section, Objective/ Action	Potential Cost (\$thousand)			Potential Partners and Funding Sources*	Proposed Implementation Year(s)
				Initial	Annual	Capital		
S	4	Complete feasibility study that identifies sources of sedimentation in the Vermillion River and its major tributaries.	4.2, 3/3	40			V, L, S	2008
S	5	Conduct feasibility study or studies to identify the best means for addressing gully erosion problems in the Watershed.	4.2, 6/2	40	5.5		V, L, S, N	2006 – Initial 2007-2015 – Annual
S	6	Use collected data, identify needed research, and in partnerships with other entities, develop collaborative groundwater projects and programs [e.g., Hastings Area Nitrate Study (HANS) future phases, Vermillion River Headwaters Groundwater Study].	4.3, 1/6		10		L, V, S, F, N	Annually
S	7	In collaboration with other entities, conduct feasibility studies for implementing groundwater projects.	4.3, 1/7		10		L, V, S, F, N	Annually
S	8	Conduct feasibility studies for implementing fish and wildlife habitat protection and enhancement projects.	4.4, 4/3		5		L, V, S, F, N	Annually
S	9	Conduct feasibility studies for implementing projects to produce a continuous wildlife corridor, especially along the Vermillion River and its major tributaries.	4.4, 4/6					
S	10	Determine how best to improve the visual quality of the River and main tributaries (e.g., through buffer acquisition, riparian plantings, shoreline restoration, acquisition and/or removal of structures that degrade the corridor).	4.7, 2/4		10		L, S, V, N, F	2006-2010
S	11	In collaboration with other entities, conduct feasibility studies for recreational/natural resource protection, enhancement, and accessibility projects.	4.7, 5/1		5		S, L, V, N, F	Annually
S	12	Conduct study to determine feasibility of regional flood control projects.	4.5, 3/2		10		L, V, F, S	Annually
Capital Projects (CP)								
CP	1	Implement load reduction measures as identified in TMDL studies.	4.1, 1/1			125/yr	S, V, L, N	2008-2015

* V=Vermillion River Watershed Taxing District L=Local or Regional Govt. S=State assistance/cost-share/grant F=Federal assistance/cost-share/grant N=Non-government org.
^Amounts shown are for 2005 dollars

Item Type	Item Number	Item Description	Section, Objective/ Action	Potential Cost (\$thousand)			Potential Partners and Funding Sources*	Proposed Implementation Year(s)
				Initial	Annual	Capital		
CP	2	Implement the buffer program through cost sharing with other voluntary programs. [Related to CP 17]	4.1, 3/5.4			900/yr	V, S, F, N, L	2007-2015
CP	3	If problems or shortcomings exist, work with affected cities and townships to address lake management problems through implementation of capital projects.	4.1, 4/4			55/yr	L, S, V, N	2007-2015
CP	4	Collaborate with Soil and Water Conservation Districts' (SWCD), federal, State and local programs to cost share for lake shore restoration projects undertaken by landowners.	4.1, 4/5			10/yr	L, S, F, V	2007-2017
CP	5	Construct or sponsor construction of demonstration or research projects that show promise to reduce thermal impacts from stormwater runoff or otherwise protect the cold-water fishery.	4.1, 5/7			40/yr	S, N, V, L	2006-2010
CP	6	Restore damaged stream banks at priority locations, taking advantage of partnerships and cost-sharing whenever possible.	4.2, 3/1			100/yr	V, S, F, L, N	Annually
CP	7	Collaborate with Soil and Water Conservation Districts' (SWCD) federal, State and local programs to cost share for streambank restoration projects undertaken by landowners.	4.2, 3/2					
CP	8	Implement sediment removal projects based on results of feasibility study.	4.2, 2/3			50/yr	V, :, S	2009-2015
CP	9	Seek opportunities to retrofit existing developments with low impact development techniques, in partnership with cities and other units of government.	4.2, 3/4			50/yr	L, S, V, F, N	Annually
CP	10	In cooperation with other government entities, implement projects to address identified gully erosion problems in the Watershed.	4.2, 6/2			30/yr	F, S, V, L	Annually
CP	11	In partnership with other entities, implement collaborative groundwater projects and programs [e.g., Hastings Area Nitrate Study (HANS) future phases, abandoned well sealing, Vermillion River Headwaters Groundwater Study].	4.3, 1/6			30/yr	L, S, F, V	Annually

* V=Vermillion River Watershed Taxing District L=Local or Regional Govt. S=State assistance/cost-share/grant F=Federal assistance/cost-share/grant N=Non-government org.
^Amounts shown are for 2005 dollars

Item Type	Item Number	Item Description	Section, Objective/ Action	Potential Cost (\$thousand)			Potential Partners and Funding Sources*	Proposed Implementation Year(s)
				Initial	Annual	Capital		
CP	12	Utilize or develop a cost-share or loan program to implement septic system upgrades within the Watershed, in potential partnership with the counties, Community Development Agencies, MPCA, etc.	4.3, 3/8			53/yr	L, V, S	2007-2015
CP	13	Implement priority wetland restoration projects. Provide financial and other incentives to landowners and local units of government for wetland restoration projects.	4.4, 3/2			89/yr	S, F, V, L, N	2007-2015
CP	14	Coordinate with other agencies and organizations to develop or enhance wildlife habitat corridors that connect open space, stream corridors, lake buffers, wetland buffers and stormwater management facilities. (See also Surface Water Quality Objective 3, Action 6.)	4.4, 4/1			22/yr	S, F, L, V, N	2007-2015
CP	15		4.4, 4/3					
CP	16		4.4, 4/6					
CP	17	Cost-share on regional floodplain projects.				44/yr		2007-2015
CP	18	Establish a funding program to obtain easements within floodplains. [575 acres (5% of FEMA floodplain areas) at \$6000/acres] [Related to CP-2]	4.5, 3/3			383/yr	V, L, S, F, N	2007-2015

* V=Vermillion River Watershed Taxing District L=Local or Regional Govt. S=State assistance/cost-share/grant F=Federal assistance/cost-share/grant N=Non-government org.
^Amounts shown are for 2005 dollars

Item Type	Item Number	Item Description	Section, Objective/ Action	Potential Cost (\$thousand)			Potential Partners and Funding Sources*	Proposed Implementation Year(s)
				Initial	Annual	Capital		
CP	19	Assist in implementing cropland conservation practices in targeted areas, through incentive programs, cost share programs, and other measures (such as purchase of no-till drills). The VRWJPO's assistance will be focused on innovative/non-traditional agricultural erosion control measures, such as: <ul style="list-style-type: none"> No-till practices Residue management practices Temporary cover crop plantings to provide erosion control from fall through spring (harvest through planting) 	4.6, 3/6			25/yr	F, S, V, N	2007-2015
CP	20	Work with State and local agencies to provide local, State and federal cost-share money to landowners implementing agricultural non-point source pollution BMPs.	4.6, 3/10			55	V, S, F, N	2007-2015
CP	21	Improve the visual quality of the River and main tributaries through buffer acquisition, riparian plantings, shoreline restoration, acquisition and/or removal of structures that degrade the corridor. [Costs covered under other projects.]	4.7, 2/5				L, V, S, N	2007-2015
CP	22	Work with the Minnesota Department of Natural Resources (MDNR) and landowners to remove dangerous impairments to river navigation (e.g., fallen trees that pose a danger, electrified and other fences).	4.7, 4/2		2		S, L, V	Annually
CP	23	In collaboration with other entities, implement recreational/natural resource protection, enhancement and accessibility projects.	4.7, 5/1			11/yr		2007-2015
CP	24	Explore and implement appropriate natural resource protection partnership opportunities [e.g., Dakota County Farmland & Natural Areas Program, southeast Minnesota Conservation Reserve Enhancement Program (CREP), etc.]	4.7, 5/2			20/yr	L, F, S, V, N	Annually
Education and Public Outreach (EA)								
EA	1	Prepare and make available educational materials related to TMDL studies and load restrictions.	4.1, 1/1		1		S, L, V	Annually

* V=Vermillion River Watershed Taxing District L=Local or Regional Govt. S=State assistance/cost-share/grant F=Federal assistance/cost-share/grant N=Non-government org.
^Amounts shown are for 2005 dollars

Item Type	Item Number	Item Description	Section, Objective/ Action	Potential Cost (\$thousand)			Potential Partners and Funding Sources*	Proposed Implementation Year(s)
				Initial	Annual	Capital		
EA	2	Make runoff and pollution data available via website or other means, and summarize data for public information purposes.	4.1, 2/6		2.5		V, S, L	Annually
EA	3	If problems or shortcomings exist, work with affected cities and townships to address lake management problems through the development of educational programs and materials.	4.1, 4/4		0.5		V, L, S	Annually
EA	4	Collaborate with other agencies to provide rural best management practices (BMP) information in targeted rural areas.	4.2, 4/2		1		V, S, L, F, N	Annually
EA	5	Implement an educational campaign to distribute Watershed water conservation standards and monitoring requirements to public and non-public water suppliers by 2006.	4.3, 2/3	10	1		L, V, S	2006 – Initial 2007-2015 – Annual
EA	6	Encourage local governments and rural subdivision developers to install community wells and septic systems, when feasible, as a method to reduce pollution potential and improve groundwater resource management; include educating developers and local government representatives as a part of this action.	4.3, 3/1					
EA	7	If requested, provide education to local governments, residents, school groups, and others regarding the hydrologic cycle, groundwater, groundwater/surface water interactions, groundwater recharge areas, and groundwater conservation.	4.3, 2/8		0.5		V, L, S, N	Annually

* V=Vermillion River Watershed Taxing District L=Local or Regional Govt. S=State assistance/cost-share/grant F=Federal assistance/cost-share/grant N=Non-government org.
^Amounts shown are for 2005 dollars

Item Type	Item Number	Item Description	Section, Objective/ Action	Potential Cost (\$thousand)			Potential Partners and Funding Sources*	Proposed Implementation Year(s)
				Initial	Annual	Capital		
EA	8	Work with LGUs and others to develop an information piece about wells and septic systems to distribute to developers and well and septic contractors.	4.3, 3/3		2		L, S, V, N, F	Annually
EA	9	Educate land use authorities about community wells and septic systems.	4.3, 3/4					
EA	10	Assist counties in developing and distributing general well and well sealing information, or distribute existing information pieces, and identify opportunities to make landowners aware of general well information and well sealing programs.	4.3, 4/1					
EA	11	Develop (or assist in developing) and distribute information on groundwater protection areas. The VRWJPO will use existing information and modify/create new information only if necessary.	4.3, 7/1					
EA	12	Provide groundwater monitoring data/information and use the data/information to develop targeted educational messages.	4.3, 8/1					
EA	13	Work with partners to develop a distribution strategy to get the best groundwater protection information to the right public and private sector groups.	4.3, 8/2					
EA	14	Distribute (and develop or assist in developing, if necessary) educational materials or programs that provide information on the fish and wildlife resources of the Vermillion River and the steps being taken to preserve habitat.	4.4, 6/2		1		S, V	Annually
EA	15	Encourage local participation in the National Flood Insurance Program.	4.5, 2/1		0.5		S, V, L	2007-2015
EA	16	Assist local governments in developing, if necessary, and distributing educational materials regarding floodplain locations, protection, and floodplain land use and land alteration restrictions.	4.5, 2/7		.55		S, V, L	Annually

* V=Vermillion River Watershed Taxing District L=Local or Regional Govt. S=State assistance/cost-share/grant F=Federal assistance/cost-share/grant N=Non-government org.
^Amounts shown are for 2005 dollars

Item Type	Item Number	Item Description	Section, Objective/ Action	Potential Cost (\$thousand)			Potential Partners and Funding Sources*	Proposed Implementation Year(s)
				Initial	Annual	Capital		
EA	17	Assist state and local agencies in the distribution of research data, information and case studies showing how to reduce non-point source pollution from agricultural land by implementing best management practices (BMPs).	4.6, 3/4		1		S, L, V, N	Annually
EA	18	Work with State and local agencies to educate landowners regarding the potential liabilities associated with continuing to maintain fences across public waters (e.g., Vermillion River and tributaries).	4.6, 3/12		1		S, L, V	Annually
EA	19	Implement a targeted education program (e.g., brochures, flyers) to educate landowners about liabilities associated with river obstacles located on/originating from private land.	4.7, 4/1					
EA	20	Promote participation in local, State and federal conservation programs [e.g., Reinvest in Minnesota (RIM), Conservation Reserve Program (CRP), Conservation Reserve Enhancement Program (CREP), Environmental Quality Incentives Program (EQIP), Dakota County Farmland & Natural Areas Program, MN Cost Share Program, Conservation Security Program, Wildlife Habitat Incentives Program (WHIP), Farm and Ranch Lands Protection Program].	4.6, 3/13		2		F, S, V, L, N	Annually
EA	21	Implement an education program (e.g., brochures, television public service spots) to educate the public about the Vermillion River system and its characteristics.	4.7, 1/1		10		V, N, S, L	Annually
EA	22	Educate the public on the recreational opportunities provided by the Vermillion River through publication of maps and placement of signs denoting River access, etc.	4.7, ½		4.5		V, N, S, L	2007-20015
EA	23	Support signage and other location-specific education practices in public open spaces of the Vermillion River corridor.	4.4, 6/1					

* V=Vermillion River Watershed Taxing District L=Local or Regional Govt. S=State assistance/cost-share/grant F=Federal assistance/cost-share/grant N=Non-government org.
^Amounts shown are for 2005 dollars

Item Type	Item Number	Item Description	Section, Objective/ Action	Potential Cost (\$thousand)			Potential Partners and Funding Sources*	Proposed Implementation Year(s)
				Initial	Annual	Capital		
EA	24	Educate recreational users on good stewardship practices to avoid damage to the stream environment or conflicts with riparian landowners.	4.7, 3/3		2		V, N, S, L	2006 – Initial 2007-2015 – Annual
EA	25	Use the VRWJPO web site to provide pertinent information on the Watershed. (Post all agendas, background materials and meeting minutes to web site; Post all major proposed plans and projects to web site and request public comment through published notices and news releases.)	4.8, 2/1	10	2		V, L, N	Annually
EA	26	Regularly publish and distribute VRWJPO newsletters.	4.8, 2/2		5		V, L, N	Annually
	27	Publish articles about the Watershed in other organizations' publications,(e.g. the <i>Scott County Scene</i> and <i>Dakota County Update</i> .)	4.8, 2/3					
EA	28	Recruit volunteers for monitoring efforts (e.g., stream and lake sampling) and involvement in other VRWJPO programs and projects. Support non-profit and volunteer groups for watershed and river cleanup and informational activities.	4.8, 2/4 4.7, 2/1		20		N, V, L, S	Annually
EA	29	Provide or support formal volunteer training for Watershed projects and programs.	4.8, 2/5					
EA	30	Develop and implement a recognition program for volunteers.	4.8, 2/6					
EA	31	Publish and distribute Watershed map and handbook.	4.8, 2/7		3		V, L, S, N	Annually
EA	32	Work with other agencies and groups to develop and implement education programs related to responsible land use practices. Ensure that elected officials have access to this program.	4.8, 3		10		S, L, V, N	1-10
	33	Work with government, nonprofit and other agencies to provide education programs on watershed issues.	4.8, 4					

* V=Vermillion River Watershed Taxing District L=Local or Regional Govt. S=State assistance/cost-share/grant F=Federal assistance/cost-share/grant N=Non-government org.
^Amounts shown are for 2005 dollars

Item Type	Item Number	Item Description	Section, Objective/ Action	Potential Cost (\$thousand)			Potential Partners and Funding Sources*	Proposed Implementation Year(s)
				Initial	Annual	Capital		
Inventory and Assessment (IA)								
IA	1	Collect information on the location of agricultural drainage installations (tile systems) and the effect of these systems on downstream waters. Collect information on the location of agricultural drainage installations and their effects on nitrate concentrations (and other pollutants of concern) in surface water and groundwater resources.	4.1, 2/4 4.3, 1/4	40	8		S, F, L, V	2006 – Initial 2007-2011 – Annual
IA	2	Inventory, map, and prioritize water features with existing buffers, and those in need of buffers.	4.1, 3/5.1	40	20		V, S, F	2007 – Initial 2008 – Annual
IA	3	Identify River corridor reaches for streambank erosion reduction projects, and for restoring damaged stream banks.	4.2, 3/1	20	5		V, L, S, F, N	2006 – Initial 2007-2008 – Annual
IA	4	Identify, inventory, and prioritize gully erosion problems in the Watershed (e.g., gully erosion within communities directly tributary to the Mississippi and Vermillion Rivers below the falls in Hastings).	4.2, 6/1		3		V, S, F	2006-2008
IA	5	Assess nitrogen application rates in high infiltration areas of the watershed and identify targeted areas for reduction in application rates.	4.3, 1/3	20			V	2007
	6	Identify natural and unnatural conduits from the ground surface to the groundwater (e.g. Karst features) that have the potential to affect drinking water and develop management strategies to protect groundwater in these areas.	4.3, 1/5	20	16		L, S, V, F	2006 – Initial 2007-2011 – Annual
IA	7	Conduct an inventory of “grandfathered” structures within floodplain setbacks.	4.5, 2/6		10		L, V, S	2007-2010
IA	8	Develop habitat inventories.	4.4, 4/3		7		S, F, V, N	2006-2008
IA	9	Work with local units of government to 1) inventory road crossings, and 2) identify opportunities for flood control, water quality improvement, and channel/stream restoration measures.	4.6, 1/4	20			V, L	2007
IA	10	Evaluate the River corridor and main tributaries for opportunities to restore natural scenic values and to enhance accessibility.	4.7, 2/3/4	30	2		V, L, N	2006 – Initial 2007-2009 – Annual

* V=Vermillion River Watershed Taxing District L=Local or Regional Govt. S=State assistance/cost-share/grant F=Federal assistance/cost-share/grant N=Non-government org.
^Amounts shown are for 2005 dollars

Item Type	Item Number	Item Description	Section, Objective/ Action	Potential Cost (\$thousand)			Potential Partners and Funding Sources*	Proposed Implementation Year(s)
				Initial	Annual	Capital		
Monitoring and Data Analysis (MA)								
MA	1	Collect, organize, and interpret water quality monitoring data.	4.1, 2/2		50		V, S, L, N	Annually
MA	2	Continue to fund the Vermillion River Watch program.	4.1, 2/3		20		V, N	Annually
MA	3	Monitor runoff from urban and agricultural areas, and determine the sources of pollutants of concern.	4.1, 2/5		20			Annually
MA	4	Analyze water quality monitoring data, identify trends, identify data gaps, and target areas or subwatersheds with water quality issues.	4.1, 3/2					
MA	5	Collaborate with cities and townships to monitor lake water quality, vegetation, shore erosion, etc.	4.1, 4/6					
MA	6	Monitor and document the surface water origins of Vermillion River flows, based on actual flows from treatment plants and River tributaries (Note: groundwater origins are addressed in Section 4.3–Groundwater).	4.2, 1/1					
MA	7	Provide funding for surface water flow monitoring network. Monitoring data will be used, when needed, to calibrate and refine hydrologic models.	4.2, 1/2	25	20	25	V, S	2006 – Initial/Capital 2007-2015 – Annual
MA	8	Implement a program to monitor streambank stability along the Vermillion River and its major tributaries (North Creek, South Creek, Middle Creek, South Branch, and Etter Creek).	4.2, 1/4		7		V, L, S, N	Annually
MA	9	In collaboration with other agencies, implement a groundwater monitoring system throughout the Watershed to monitor changes in groundwater levels and contaminants and groundwater/surface water interactions.	4.3, 1/2	10	2		V, L, S	2006 – Initial 2007-2015 – Annual

* V=Vermillion River Watershed Taxing District L=Local or Regional Govt. S=State assistance/cost-share/grant F=Federal assistance/cost-share/grant N=Non-government org.
^Amounts shown are for 2005 dollars

**Table 8.2
IMPLEMENTATION PROGRAM SUMMARIZED BY YEAR
Vermillion River Joint Powers Organization**

	Item Number	Year								
		1	2	3	4	5	6	7	8	9
		2006	2007	2008	2009	2010	2011	2012	2013	2014
Providing or Assisting with Finding Funds	AA1	\$0	\$3,000	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$0
	AA2	\$20,000	\$5,000	\$5,000	\$5,000	\$5,000	\$0	\$0	\$0	\$0
	AA3	\$10,000	\$7,500	\$7,500	\$0	\$0	\$0	\$0	\$0	\$0
	AA4	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
	AA5	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
	AA6	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
	TOTAL AA	\$57,000	\$42,500	\$42,000	\$34,500	\$34,500	\$29,500	\$29,500	\$29,500	\$27,000
Conducting Evaluations and Formulating Policy	AC1	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$0	\$0	\$0
	AC2	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$0	\$0	\$0	\$0
	AC3 & AC4	\$10,000	\$80,000	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0
	AC5	\$40,000	\$15,000	\$15,000	\$0	\$0	\$0	\$0	\$0	\$0
	AC6	\$1,000	\$1,000	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0
	AC7	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500
	AC8	\$20,000	\$20,000	\$20,000	\$0	\$0	\$0	\$0	\$0	\$0
	AC9	\$1,000	\$1,000	\$1,000	\$1,000	\$0	\$0	\$0	\$0	\$0
	AC10	\$0	\$5,000	\$500	\$500	\$500	\$500	\$500	\$500	\$500
	AC11	\$7,000	\$7,000	\$7,000	\$0	\$0	\$0	\$0	\$0	\$0
	AC12	\$1,500	\$1,500	\$1,500	\$0	\$0	\$0	\$0	\$0	\$0
	AC13	\$10,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
	AC14	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$0	\$0	\$0	\$0
	AC15	\$4,000	\$3,000	\$3,000	\$0	\$0	\$0	\$0	\$0	\$0
	AC16 & AC17	\$0	\$0	\$10,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
	AC18	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$0	\$0	\$0	\$0
	AC19 & AC20	\$5,000	\$12,500	\$12,500	\$12,500	\$12,500	\$0	\$0	\$0	\$0
	AC21	\$7,000	\$6,000	\$6,000	\$0	\$0	\$0	\$0	\$0	\$0
	AC22	\$7,000	\$6,000	\$6,000	\$0	\$0	\$0	\$0	\$0	\$0
	AC23	\$4,000	\$3,000	\$3,000	\$0	\$0	\$0	\$0	\$0	\$0
AC24	\$1,000	\$500	\$500	\$0	\$0	\$0	\$0	\$0	\$0	
AC25	\$2,000	\$1,000	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	
AC26	\$30,000	\$5,500	\$5,500	\$5,500	\$5,500	\$5,500	\$5,500	\$5,500	\$5,500	
AC27	\$0	\$0	\$500	\$500	\$500	\$500	\$500	\$500	\$500	
AC28	\$0	\$12,500	\$12,500	\$12,500	\$12,500	\$0	\$0	\$0	\$0	
AC29	\$10,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
TOTAL AC	\$179,000	\$204,000	\$210,000	\$57,000	\$56,000	\$18,000	\$13,000	\$13,000	\$13,000	
Regulatory, Review, and Intervention	AD1	\$80,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000
	AD2	\$10,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
	AD3	\$50,000	\$50,000	\$37,500	\$37,500	\$37,500	\$37,500	\$37,500	\$37,500	\$37,500
	AD4	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
	AD5	\$0	\$20,000	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500
	AD6	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
	AD7	\$0	\$2,500	\$2,500	\$2,500	\$2,500	\$0	\$0	\$0	\$0
	AD8	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
	AD9	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000
	AD10	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
	AD11	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$0	\$0	\$0	\$0
	AD12	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
	AD13 & AD14	\$2,000	\$4,500	\$4,500	\$2,500	\$2,500	\$2,500	\$2,500	\$0	\$0
	TOTAL AD	\$181,000	\$173,000	\$143,000	\$141,000	\$141,000	\$133,500	\$133,500	\$131,000	\$131,000

**Table 8.2
IMPLEMENTATION PROGRAM SUMMARIZED BY YEAR
Vermillion River Joint Powers Organization**

	Item Number	Year									
		1	2	3	4	5	6	7	8	9	
		2006	2007	2008	2009	2010	2011	2012	2013	2014	
Coordination with Agencies	AE1	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	
	AE2	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$0	\$0	\$5,000	\$0	
	AE3	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	
	AE4	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	
	AE5 & AE6	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$0	\$0	\$0	\$0	
	AE7	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	
	AE8	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	
	AE9	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	
	AE10	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	
	AE11	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$0	\$0	\$0	\$0	
	AE12	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	
	AE13	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	
	AE14	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	AE15	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
		TOTAL AE	\$10,500	\$10,500	\$10,500	\$10,500	\$10,500	\$7,500	\$7,500	\$12,500	\$7,500
	Coordination with Counties, Cities, and Townships	AF1	\$10,000	\$2,500	\$2,500	\$2,500	\$2,500	\$0	\$0	\$0	\$0
AF2		\$4,000	\$4,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	
AF3 & AF4		\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	
AF5		\$20,000	\$20,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	
AF6		\$0	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	
AF7		\$10,000	\$10,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
AF8		\$0	\$0	\$10,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	
AF9		\$0	\$0	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	
AF10		\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	
AF11		\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	
AF12		\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$0	\$0	\$0	\$0	
AF13		\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	
AF14		\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	
AF15		\$14,000	\$13,000	\$13,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	
AF16		\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	
AF17		\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	
AF18		\$1,000	\$1,000	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	
AF19		\$1,000	\$1,000	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	
AF20 & AF21		\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	
AF22		\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	
AF23		\$0	\$0	\$5,000	\$0	\$0	\$0	\$0	\$0	\$0	
AF24		\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$0	\$0	\$0	\$0	
AF25		\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	
AF26		\$2,000	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	
AF27		\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	
AF28		\$0	\$1,000	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	
		TOTAL AF	\$69,700	\$60,700	\$48,700	\$39,700	\$39,700	\$35,200	\$35,200	\$35,200	\$35,200

Table 8.2
IMPLEMENTATION PROGRAM SUMMARIZED BY YEAR
Vermillion River Joint Powers Organization

		Year									
		1	2	3	4	5	6	7	8	9	10
Item Number		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Feasibility/Preliminary Studies	S1	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$0	\$0	\$0	\$0	\$0
	S2	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
	S3	\$40,000	\$5,500	\$5,500	\$5,500	\$5,500	\$5,500	\$5,500	\$5,500	\$5,500	\$5,500
	S4	\$0	\$0	\$40,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	S5	\$40,000	\$5,500	\$5,500	\$5,500	\$5,500	\$5,500	\$5,500	\$5,500	\$5,500	\$5,500
	S6	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
	S7	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
	S8 & S9	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
	S10	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$0	\$0	\$0	\$0	\$0
	S11	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
	S12	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
	TOTAL S	\$155,000	\$86,000	\$126,000	\$86,000	\$86,000	\$56,000	\$56,000	\$56,000	\$56,000	\$56,000
	Capital Projects	CP1	\$0	\$0	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000
CP2		\$0	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000
CP3		\$0	\$55,000	\$55,000	\$55,000	\$55,000	\$55,000	\$55,000	\$55,000	\$55,000	\$55,000
CP4		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
CP5		\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$0	\$0	\$0	\$0	\$0
CP6 & CP7		\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
CP8		\$0	\$0	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
CP9		\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
CP10		\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000
CP11		\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000
CP12		\$0	\$53,000	\$53,000	\$53,000	\$53,000	\$53,000	\$53,000	\$53,000	\$53,000	\$53,000
CP13		\$0	\$89,000	\$89,000	\$89,000	\$89,000	\$89,000	\$89,000	\$89,000	\$89,000	\$89,000
CP14, CP15 & CP16		\$0	\$22,000	\$22,000	\$22,000	\$22,000	\$22,000	\$22,000	\$22,000	\$22,000	\$22,000
CP17		\$0	\$44,000	\$44,000	\$44,000	\$44,000	\$44,000	\$44,000	\$44,000	\$44,000	\$44,000
CP18		\$0	\$383,000	\$383,000	\$383,000	\$383,000	\$383,000	\$383,000	\$383,000	\$383,000	\$383,000
CP19		\$0	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
CP20		\$0	\$55,000	\$55,000	\$55,000	\$55,000	\$55,000	\$55,000	\$55,000	\$55,000	\$55,000
CP21		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CP22		\$0	\$11,000	\$11,000	\$11,000	\$11,000	\$11,000	\$11,000	\$11,000	\$11,000	\$11,000
CP23		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
CP24		\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
TOTAL CP		\$282,000	\$1,919,000	\$2,044,000	\$2,094,000	\$2,094,000	\$2,054,000	\$2,054,000	\$2,054,000	\$2,054,000	\$2,054,000

Table 8.2
IMPLEMENTATION PROGRAM SUMMARIZED BY YEAR
Vermillion River Joint Powers Organization

	Item Number	Year								
		1	2	3	4	5	6	7	8	9
		2006	2007	2008	2009	2010	2011	2012	2013	2014
Education and Public Outreach	EA1	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
	EA2	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500
	EA3	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500
	EA4	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
	EA5 & EA6	\$10,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
	EA7	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500
	EA8 - EA13	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
	EA14	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
	EA15	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500
	EA16	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500
	EA17	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
	EA18 & EA19	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
	EA20	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
	EA21	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
	EA22 & EA23	\$0	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500
	EA24	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
	EA25	\$10,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
	EA26 & EA27	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
	EA28, EA29 & EA30	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
	EA31	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000
EA32 & EA33	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	
TOTAL EA	\$83,500	\$71,000	\$71,000	\$71,000	\$71,000	\$71,000	\$71,000	\$71,000	\$71,000	
Inventory and Assessment	IA1	\$40,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$0	\$0	\$0
	IA2	\$40,000	\$20,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	IA3	\$20,000	\$5,000	\$5,000	\$0	\$0	\$0	\$0	\$0	\$0
	IA4	\$3,000	\$3,000	\$3,000	\$0	\$0	\$0	\$0	\$0	\$0
	IA5	\$0	\$20,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	IA6	\$20,000	\$16,000	\$16,000	\$16,000	\$16,000	\$16,000	\$0	\$0	\$0
	IA7	\$0	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$0	\$0	\$0
	IA8	\$17,000	\$17,000	\$17,000	\$0	\$0	\$0	\$0	\$0	\$0
	IA9	\$0	\$20,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	IA10	\$30,000	\$2,000	\$2,000	\$2,000	\$0	\$0	\$0	\$0	\$0
	TOTAL IA	\$170,000	\$121,000	\$61,000	\$36,000	\$34,000	\$24,000	\$0	\$0	\$0
Monitoring and Data Analysis	MA1	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
	MA2	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
	MA3 - MA6	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
	MA7	\$50,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
	MA8	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000
	MA9	\$10,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
	TOTAL MA	\$157,000	\$119,000	\$119,000	\$119,000	\$119,000	\$119,000	\$119,000	\$119,000	\$119,000
YEARLY TOTAL	\$1,344,700	\$2,806,700	\$2,875,200	\$2,688,700	\$2,658,700	\$2,547,700	\$2,518,700	\$2,521,200	\$2,513,700	

The VRWJPO will establish special subtaxing districts to cover the VRWJPO's cost of implementing the permitting program. See Section 5.2 for more details regarding the standards development and rule-making process, and the VRWJPO role in permitting.

Most non-structural activities (e.g., monitoring, studies) will be funded through a VRWJPO ad valorem tax over the entire Watershed. The VRWJPO must adopt a budget for the following year before September 1 of each year and submit its budget to Dakota and Scott Counties prior to the date by which the counties establish their maximum levy pursuant to Minn. Stat. § 275.065, Subd. 1, (usually September 15). The final budget amount is approved by Dakota and Scott Counties in December, at which time the final amount can be less than, but not more than the budget amount approved in September.

Non-capital projects/activities, capital projects that benefit the entire watershed, and capital projects less than \$500,000, will be funded through a VRWJPO ad valorem tax over the entire Watershed. For capital projects that benefit some parts of the Watershed more than others, the VRWJPO may consider distributing the costs (or a portion of the costs) on a subwatershed basis.

To promote cooperative efforts, the VRWJPO will seek grants and other cost-share opportunities for appropriate implementation activities.

8.1 VRWJPO COST SHARING POLICY

The VRWJPO's cost sharing policy provides guidance regarding the cost sharing between the VRWJPO and its potential partners for various watershed management efforts within the Vermillion River Watershed. The policy reflects a presumed level of watershed benefit and local benefit accruing from various types of projects or activities, based on the VRWJPO's priorities for improvement. The VRWJPO will base its participation in a particular proposed project on an evaluation of other factors, including:

- Budgeting
- Available funding
- Merit
- Feasibility
- Risk
- Consideration of other proposed projects.

PRIORITIES FOR IMPROVEMENT

The VRWJPO's highest priorities for improvements within the watershed are:

- Protecting and preserving the conveyance capacity of the Vermillion River and its primary tributaries: the South Branch; Etter Creek; and North, Middle and South Creeks.
- Completing TMDL analyses on those water resources identified by the MPCA as impaired.
- Achieving required pollutant load reductions identified in approved TMDLs (e.g., addressing failing ISTS).
- Establishing buffers for water quality improvement in riparian areas.

- Correcting existing erosion problems in the main stem and its primary tributaries.
- Reducing flooding in areas with known flooding problems.
- Preserving and improving habitat and suitable stream conditions in those portions of the main stem and its primary tributaries designated by the Minnesota DNR as trout streams, through in-stream actions and actions throughout the watershed (e.g., thermal protection measures).
- Restoring streambank native vegetation.
- Increasing flood storage in critical subwatersheds.
- Delineating flood zones on the primary tributaries where they have not been delineated or mapped.
- Addressing surface water impacts on water supply aquifers.

The next level of priorities for improvement are:

- Restoring riparian native vegetation within buffer zones.
- Acquiring public easements in critical flood storage and groundwater recharge areas.
- Promoting agricultural and urban BMPs that reduce erosion and sedimentation, herbicide and pesticide application, manure, and other nutrients/pollutants, and exclude livestock.
- Enhancing wildlife habitat.
- Protecting river and stream navigability.
- Improving public access to the Vermillion River and other public waters.
- Addressing non-TMDL water quality concerns.

These priorities may be amended by the VRWJPO Joint Powers Board from time to time.

WATERSHED BENEFIT

Watershed benefit is defined as achieving in whole or part a high-priority watershed need as described in this policy.

The VRWJPO's policy is that any project or activity not included under this policy is of local benefit and should be funded by the benefiting or proposing local government(s). Routine maintenance, required mitigation, land acquisition, and storm drainage system construction are generally of local benefit, except and unless those activities are an integral component of a project previously defined as a watershed priority need and inclusion of those items is approved by the VRWJPO Joint Powers Board.

COST SHARING POLICY

1. For those projects listed in this policy as being of highest VRWJPO priority, the study, analysis, design, construction, and implementation of such projects or activities are determined to be of watershed-wide benefit.
 - The cost of study, analysis, and design of projects or activities will be funded up to 100 percent by the VRWJPO for projects or activities on public property, or within the streambanks of the main stem and the primary tributaries.

- The cost of study, analysis, and design of projects or activities on private property will be eligible for funding from the VRWJPO up to 50 percent of the total cost. Requirements of funding include execution of any required easements as well as execution of a ten-year maintenance agreement.
 - Construction or implementation activities will be funded up to 100 percent by the VRWJPO for projects or activities on public property or within the streambanks of the main stem and the primary tributaries with the exception of flood storage projects. The VRWJPO will fund up to 25 percent of the cost of regional flood storage projects that have a demonstrable flood storage benefit to the watershed.
 - Construction or implementation activities on private property will be eligible for funding from the VRWJPO up to 50 percent of the total cost. Requirements of funding include execution of any required easements as well as execution of a ten-year maintenance agreement.
2. For those projects listed in this policy as being of the next highest level of VRWJPO priority: study, analysis, design, construction, and implementation of projects or activities are determined to be of partial watershed-wide benefit.
- Study, analysis, and design of projects or activities will be funded up to 50 percent by the VRWJPO for projects or activities on public property or within the streambanks of the main stem and the primary tributaries. The balance of funding is the responsibility of the benefiting or proposing local government(s).
 - The cost of study, analysis, and design of projects or activities on private property will be eligible for funding from the VRWJPO up to 25 percent of the total cost. Requirements of funding include execution of any required easements as well as execution of a ten-year maintenance agreement.
 - Construction or implementation activities will be funded up to 50 percent by the VRWJPO for projects or activities on public property or within the streambanks of the main stem and the primary tributaries. The balance of funding is the responsibility of the benefiting or proposing local government(s).
 - Construction or implementation activities on private property will be eligible for funding from the VRWJPO up to 25 percent of the total cost. Requirements of funding include execution of any required easements as well as execution of a ten-year maintenance agreement.

By agreement of a majority of its members the VRWJPO Joint Powers Board may choose to participate in the cost of other projects or activities not comprehended in this policy, or may adjust the level of VRWJPO funding for a project.

8.2 IMPACT OF IMPLEMENTATION PROGRAM ON RESIDENTS AND LOCAL GOVERNMENTS

The VRWJPO's portion of the implementation program will be funded through tax levies. These taxes will not directly affect local governments' finances since the VRWJPO tax levies do not apply toward local government levy limits. However, there would be a financial impact to the residents of the cities and townships that reside in the VRWJPO Watershed. The VRWJPO's intention is to limit additional requirements imposed on local units of government as much as possible, while still accomplishing the VRWJPO's purposes and implementing the Plan.

Table 8-3 shows the approximate financial burden on VRWJPO residents for various VRWJPO budget amounts and home values, shown as a tax per residence. Actual tax values will differ slightly due to tax increment financing, fiscal disparities, and changes in market valuation.

Some of the implementation program elements reflect the goals, policies and requirements of State and regional government agencies that local government units are required to address.

Local governments already have ordinances in place that address many of the VRWJPO requirement, including ordinances that address shorelands, floodplains, wetland protection, stormwater management, erosion control, and stormwater system maintenance.

Table 8.3:

Vermillion River Watershed Management Tax District
 Estimated Pay 2006 Taxes * (Dakota County)

Residential Property

Market Value	Tax Capacity	Levy											
		300,000	350,000	400,000	450,000	500,000	550,000	750,000	1,000,000	1,500,000	2,000,000	3,000,000	
Rate		0.1766%	0.2110%	0.2453%	0.2797%	0.3140%	0.3484%	0.4858%	0.6575%	1.0010%	1.3445%	2.0316%	
Various Values													
	150,000	1,500	\$ 2.65	\$ 3.16	\$ 3.68	\$ 4.20	\$ 4.71	\$ 5.23	\$ 7.29	\$ 9.86	\$ 15.02	\$ 20.17	\$ 30.47
	175,000	1,750	\$ 3.09	\$ 3.69	\$ 4.29	\$ 4.89	\$ 5.50	\$ 6.10	\$ 8.50	\$ 11.51	\$ 17.52	\$ 23.53	\$ 35.55
	185,000	1,850	\$ 3.27	\$ 3.90	\$ 4.54	\$ 5.17	\$ 5.81	\$ 6.44	\$ 8.99	\$ 12.16	\$ 18.52	\$ 24.87	\$ 37.58
	200,000	2,000	\$ 3.53	\$ 4.22	\$ 4.91	\$ 5.59	\$ 6.28	\$ 6.97	\$ 9.72	\$ 13.15	\$ 20.02	\$ 26.89	\$ 40.63
	225,000	2,250	\$ 3.97	\$ 4.75	\$ 5.52	\$ 6.29	\$ 7.07	\$ 7.84	\$ 10.93	\$ 14.79	\$ 22.52	\$ 30.25	\$ 45.71
	250,000	2,500	\$ 4.42	\$ 5.27	\$ 6.13	\$ 6.99	\$ 7.85	\$ 8.71	\$ 12.14	\$ 16.44	\$ 25.03	\$ 33.61	\$ 50.79
	275,000	2,750	\$ 4.86	\$ 5.80	\$ 6.75	\$ 7.69	\$ 8.64	\$ 9.58	\$ 13.36	\$ 18.08	\$ 27.53	\$ 36.98	\$ 55.87
	300,000	3,000	\$ 5.30	\$ 6.33	\$ 7.36	\$ 8.39	\$ 9.42	\$ 10.45	\$ 14.57	\$ 19.73	\$ 30.03	\$ 40.34	\$ 60.95
	325,000	3,250	\$ 5.74	\$ 6.86	\$ 7.97	\$ 9.09	\$ 10.21	\$ 11.32	\$ 15.79	\$ 21.37	\$ 32.53	\$ 43.70	\$ 66.03
	350,000	3,500	\$ 6.18	\$ 7.38	\$ 8.59	\$ 9.79	\$ 10.99	\$ 12.19	\$ 17.00	\$ 23.01	\$ 35.04	\$ 47.06	\$ 71.10
	375,000	3,750	\$ 6.62	\$ 7.91	\$ 9.20	\$ 10.49	\$ 11.78	\$ 13.06	\$ 18.22	\$ 24.66	\$ 37.54	\$ 50.42	\$ 76.18
	400,000	4,000	\$ 7.06	\$ 8.44	\$ 9.81	\$ 11.19	\$ 12.56	\$ 13.93	\$ 19.43	\$ 26.30	\$ 40.04	\$ 53.78	\$ 81.26
	425,000	4,250	\$ 7.51	\$ 8.97	\$ 10.43	\$ 11.89	\$ 13.35	\$ 14.81	\$ 20.65	\$ 27.95	\$ 42.54	\$ 57.14	\$ 86.34
	450,000	4,500	\$ 7.95	\$ 9.49	\$ 11.04	\$ 12.59	\$ 14.13	\$ 15.68	\$ 21.86	\$ 29.59	\$ 45.05	\$ 60.50	\$ 91.42
	475,000	4,750	\$ 8.39	\$ 10.02	\$ 11.65	\$ 13.28	\$ 14.92	\$ 16.55	\$ 23.07	\$ 31.23	\$ 47.55	\$ 63.87	\$ 96.50
	500,000	5,000	\$ 8.83	\$ 10.55	\$ 12.27	\$ 13.98	\$ 15.70	\$ 17.42	\$ 24.29	\$ 32.88	\$ 50.05	\$ 67.23	\$ 101.58
*Estimated TCAF		145,566,294											
(as of 07/27/05)													