

Agenda

Vermillion River Watershed Planning Commission

September 14, 2022 – 4:00 p.m., In-person and Teleconference via Microsoft Teams

- 1. Call to Order
- 2. Roll Call
- 3. Audience Comments on Items Not on the Agenda (please limit audience comments to five minutes)
- 4. Approval of Agenda Action
 5. Approval of Minutes from the July 13, 2022 Meeting Action
 6. Business Items

 a. Recommend Adoption of the Amendment to the Vermillion River Watershed Action
 Management Plan Implementation Section
- 7. Updates
 - a. Chairperson's Report
 - b. Staff Updates
- 8. Adjourn

Please note, the September 14, 2022 Watershed Planning Commission meeting will take place **in-person** in Conference Room A at the Extension and Conservation Center, 4100 220th Street West, Farmington Minnesota **and via teleconference** on the web-based application, Microsoft Teams.

Action

Microsoft Teams meeting

Join on your computer or mobile app

Click here to join the meeting Meeting ID: 221 617 335 587 Passcode: o9XGeW Download Teams | Join on the web Or call in (audio only) +1 651-273-3070,,563723302# United States, St. Paul Phone Conference ID: 563 723 302# Find a local number | Reset PIN



Other Information

Next Meeting Date: October 12, 2022 at 4:00 p.m.

Please confirm your attendance by contacting Mark Zabel at <u>mark.zabel@co.dakota.mn.us</u> You will be notified if the meeting is cancelled due to an anticipated lack of quorum.



Minutes

Vermillion River Watershed Planning Commission Meeting July 13, 2022 – 4:00 p.m. In-person and Zoom Videoconference

WPC Members in Attendance Mark Henry James Kotz Josh Borton Andy Riesgraf Steve Hamrick Chuck Clanton **Staff in Attendance** Travis Thiel, VRWJPO Brita Moore-Kutz, VRWJPO Mark Zabel, VRWJPO Others in Attendance Curt Coudron, Dakota County SWCD Valerie Neppl, Dakota County

1. Call to Order

The meeting was called to order at 4:01 p.m.

2. Roll Call

All members present.

3. Audience Comments on Items Not on the Agenda

None.

4. Approval of Agenda

Chair Henry called for any changes to the agenda. There were none.

Motion by Commissioner Borton, second by Commissioner Kotz, to approve the agenda as presented. The agenda was approved by a 6-0 vote.

5. Approval of Minutes from the April 13, 2022 Meeting

Chair Henry requested any adjustments to the minutes as presented. Upon hearing none, Chair Henry called for a motion to approve the minutes of the April 13, 2022 meeting of the WPC.

Motion by Commissioner Clanton, second by Commissioner Riesgraf, to approve the minutes of the April 13, 2022 meeting, as distributed. The minutes were approved by a 6-0 vote.

6. Business Items

a. Recommendation to release VRWJPO Plan Amendment to Plan Review Authorities for 30-day Public Review

Travis Thiel introduced the proposed Plan amendment and described the need for the amendment. The amendment is required to ensure that all potential projects are identified in the Plan document to be eligible for Watershed Based Implementation Funding program of the Minnesota Board of Water and Soil Resources. Projects that wee not originally included in the 2016-2025 Vermillion Watershed Management Plan include projects resulting from Watershed Restoration and Protection Strategies analysis, Total Maximum Daily Load Studies, other feasibility and assessment studies, and project identified by project partners that address goals of the Plan. The amendment also provides additional clarification on Plan elements based on new information learned in the last five years. The amendment indicates a \$1,243,000 increase in spending, which is offset b an increase of \$1,243,000 in revenue anticipated from Watershed Based Implementation Grant funding.

Commissioner Clanton asked for clarification of the prioritization of subwatersheds in the Plan. The priorities shown in the Plan remain, however, spending on implementation does not match the set priorities. This is largely due to needing willing landowners implementing projects.

Motion by Commissioner Clanton, second by Commissioner Borton, recommending approval of the amendment to the 2016-2025 Vermillion River Watershed Management Plan was unanimously adopted by a 6-0 vote.

b. Update on the Dakota County Agricultural Chemical Reduction Effort (ACRE) and Monitoring Well Network

Valerie Neppl presented on the Dakota County Agricultural Chemical Reduction Effort (ACRE) program being implemented through the Groundwater Protection Unit. The ACRE program is being initiated as a result of the Dakota County Groundwater Plan. The Groundwater Plan was adopted in January of 2021. The Groundwater Plan is a planning effort under authority of Minnesota Statute 103B and is therefore a plan eligible for funding similar to the Watershed Management Plans as discussed in the previous item. The Groundwater Plan identified agricultural chemicals, specifically nitrates and pesticides, are a significant concern in groundwater in Dakota County, especially in the south and southeast portions of the County. The ACRE Plan was the first effort resulting from the adoption of the Dakota County Groundwater Plan. The ACRE Plan will be out for public review starting July 20th for a 45-day review. The Minnesota Rural Water Association and the Minnesota Board of Water and Soil Resources published guidance in 2021 identifying practices that are most effective in protecting groundwater and drinking water. This is the guiding framework in the ACRE Plan. Tier 1 identifies nitrate using the right nutrient, at the right rate, during the right time, in the right place. Tier 2 looks at using other cropping and cropping practices other than just corn and soybeans. Tier 3 looks at taking portions of the landscape out of the cropping rotation using conversion to perennial cover such as native prairie plantings. Going forward it may require implementing of all three tiers in different locations to address the nitrate levels in out groundwater. Everything is voluntary within this Plan. Three rounds of outreach were performed with rural and agricultural interested parties with surveys asking for input on the Plan. An Agricultural Advisory Group was formed to get further input in more detail. There were town hall meetings as well as meetings with townships and cities. There were overarching themes. Most farmers want to do the right thing as they live here and expect their operation to stay in their families. Voluntary practices are preferred and are expected to be supported through incentives. The SWCD was identified as the most trusted resource. The overall goal of ACRE is to reduce agricultural chemicals, specifically nitrates and pesticides to below levels which could impact human health of the environment. Outcome measures for this goal are to:

- measure the levels of nitrate in private drinking water wells with the target to reduce levels to less than 5% of wells above standards within a township.

- no public water supply wells exceeding the standard.
- median values of nitrates below standards
- no private drinking water wells exceed 50% of drinking water guidelines
- reducing chloride levels from agricultural sources

Strategies to address this are to:

- 1- Develop information for decision making (monitoring, modeling, and surveys)
- 2- Communication, outreach, and education
- 3- Technical assistance
- 4- Financial incentives

Commissioner Henry asked if dust control chemicals is a large contributor to chloride in groundwater. Valerie responded that she did not know how much dust control contributes but it is not among the top three which are: deicing salt, water softeners, potash fertilizer.

There was some discussion of cover crops and perennial crop alternatives including camelina and kernza.

The Groundwater Protection Unit is working on developing a grant program for the implementation of drinking water treatment systems for low income households on private well water sources used for drinking water that exceed drinking water standards. Valerie noted that in areas of the County with high nitrates even if all sources of nitrate were completely addressed it would still take time for a response in the groundwater and so treatment systems may be required for some time into the future.

The Groundwater Protection Unit is working with the Dakota County SWCD in implementing a Minnesota Department of Health grant for updating the Dakota County Model Mining

Ordinance. This is another action resulting from actions identified in the Dakota County Groundwater Plan.

The Groundwater Protection Unit is doing a feasibility study through a redevelopment block grant to look at the possibility for a rural water system for the portions of rural Dakota County where water quality is an issue.

c. Report on Measurable Outcomes as Identified in the 2016-2025 Vermillion River Watershed Management Plan

Brita Moore-Kutz presented a summary of information contained in the report. Brita highlighted specific areas. The report is in the order of the goals and measures within the 2016-2025 Vermillion River Watershed Management Plan. The report shows where we are improving in water quality. Brita highlighted changes in outreach where website use has increased significantly in the past year. Commissioner Riesgraf noted that the number of site visit views are up, the duration is shortened. This report is not a requirement, it is provided for the benefit of being able to track progress and trends.

7. Updates

a. Chairperson's Report

Commissioner Henry asked a general question about the potential impact of pesticides. He mentioned that there has been a great deal of progress in habitat development but wildlife (pheasants) are not as prominent and is wondering if pesticides may not be a factor. Commissioner Riesgraf asked if there is similar effects seen in neighboring states. Zabel mentioned that more intense spring rain events during nesting season could also be a factor and so there may be difficulty in pointing to a single factor that is impacting pheasant populations. Commissioners also discussed presence of other wildlife (deer, turkeys, coyotes, opossums, etc.) that seem to be thriving.

Commissioner Henry also mentioned a field event being held at Kurt Kimber's farm which will include a highlight of Kernza as an alternative crop.

b. Staff Updates

Brita Moore-Kutz reported on developments for the We Are Water exhibit and events. Brita distributed a post card and bookmark with information relevant to water and the We Are Water exhibit and activities. Brita invited Commissioners to be a volunteer docent at the exhibit. Brita also mentioned that the Dakota County Fair is coming up next month and the VRWJPO will have a presence in the Natural Resources Building along with the Dakota County Groundwater Protection and Water Resources Units, Minnesota DNR, Dakota County SWCD, and Trout Unlimited. There will be a "Water Bar" at the display as part of the We Are Water activities.

Curt Coudron reported that Landscaping for Clean Water workshops are moving forward. There are a lot of cover crop contracts in place including 700 acres of new contracts and about 300

acres of previous contracts for a total of about 1000 acres of cover crop contracted in the Vermillion River Watershed. Commissioner Clanton asked how many have participated and have not continued. Curt responded that there are some contracts where a cropping rotation change makes it infeasible for cover cropping and so those situations do not continue. Curt also noted that there are fields where the producer is doing cover cropping on their own without contracting for cost share and those acres have not been tracked.

Mark Zabel reported that the VRWJPO has been selected for a Performance Review and Assistance Program review. Mark provided an overview of what that will entail for the VRWJPO in completing the review. Mark noted that there is a survey that is included in the review which goes out to partners for their input and that will include members of the Watershed Planning Commission. Mark mentioned that he is currently working on developing the draft budget for 2023. Mark presented an overview of current planning draft for the 2023 VRWJPO Budget. A formal presentation of the draft budget will be presented to the WPC at the August 10, 2022 meeting for recommendation to the Vermillion River Joint Powers Board.

Commissioner Clanton mentioned that the Watershed Planning Commission still has three vacancies in membership. Brita informed members that there had been no applications. There was an interested party who unfortunately does not reside in the watershed. Zabel encouraged members to recruit anyone interested to apply. Zabel did acknowledge the Commissioner Clanton did try to get an eligible applicant. Commissioner Henry had also put staff in touch with a potential applicant who declined at this time. Brita mentioned that she will try contacting him again next year. Commissioner Henry also mentioned that he has some contacts in Scott County that he will approach on this. Commissioner Riesgraf asked if the time of the meeting might be a hindrance to people applying? Zabel mentioned that people who have expressed interest have never asked about the meeting time. Zabel commented that the meeting time is not firm and the WPC can choose to meet at a different time.

Commissioner Henry commended and thanked staff.

8. Adjourn

Motion by Commissioner Clanton, second by Commissioner Kotz, to adjourn the meeting at 5:46 p.m. The motion passed on an 6-0 vote.

6a. Recommend Adoption of the Amendment to the Vermillion River Watershed Management Plan Implementation Section

Meeting Date:9/14/2022Item Type:Regular-ActionContact:Travis ThielTelephone:952-891-7546Prepared by:Travis ThielReviewed by:N/A

N/A



PURPOSE/ACTION REQUESTED

• Recommend adoption of the amendment to the Vermillion River Watershed Management Plan Implementation Section

SUMMARY

Vermillion River Watershed Joint Powers Organization (VRWJPO) staff have prepared a VRWJPO Watershed Management Plan (Plan) Amendment that revises the Implementation Plan section. The revised Implementation Plan section incorporates additional activities from the Vermillion River Watershed Restoration and Protection Strategy (WRAPS) that were not originally incorporated when the Plan was adopted 2016. Other revisions include updates to reflect additional information and studies completed since the Plan was adopted, provide additional specificity to existing Implementation Plan activities, and assumptions regarding future Watershed-Based Implementation Funding (WBIF) grants revenues.

The Minnesota Board of Water and Soil Resources (BWSR) has indicated this project should follow the process for a minor plan amendment as written in Minnesota Rule 8410.0140 (Rule). The Rule requires that the organization must send copies of the amendments to the plan review authorities for review and comment allowing at least 30 days for receipt of comments. At the July 28, 2022 meeting, the Vermillion River Watershed Joint Power Board (VRWJPB) approved the release of the proposed Plan Amendment to plan review authorities for a 30-day review and comment.

No substantive or negative comments have been received to date.

Staff requests the Vermillion River Watershed Planning Commission recommend adoption of the amendment to the Vermillion River Watershed Management Plan Implementation Section.

RESOLUTION

6a. Recommend Adoption of the Amendment to the Vermillion River Watershed Management Plan Implementation Section

WHEREAS, the VRWJPO adopted its current Watershed Management Plan (Plan) in 2016 and is required to implement the plan over a ten-year period; and

WHEREAS, amendments to the plan are required to accommodate changes to the Plan over the course of implementation during the ten-year period; and

WHEREAS, staff have identified the need to amend the Plan to incorporate changes to the Implementation Plan section of the plan; and

WHEREAS, the Implementation Plan section of the Plan is being revised to incorporate additional activities from the Vermillion River Watershed Restoration and Protection Strategy (WRAPS) that were not originally incorporated when the Watershed Plan was adopted 2016, plus other revisions that include updates to reflect additional information and studies completed since the Plan was adopted, provide additional specificity to existing Implementation Plan activities, and assumptions regarding future Watershed-Based Implementation Funding (WBIF) grants revenues; and

WHEREAS, the Minnesota Board of Water and Soil Resources (BWSR) has indicated it should follow the minor amendment process; and

WHEREAS, Minnesota Rule 8410.0140, Subpart 2 requires that the organization must send copies of the amendments to the plan review authorities for review and comment allowing at least 30 days for receipt of comments; and

WHEREAS, the Vermillion River Watershed Joint Powers Board approved the release of the proposed Plan amendment to plan review authorities for a 30-day review and comment period at its July 28, 2022 meeting; and

WHEREAS, no substantive or negative comments have been received to date.

NOW, THEREFORE, BE IT RESOLVED, the Vermillion River Watershed Planning Commission recommend adoption of the amendment to the Vermillion River Watershed Management Plan Implementation Section.

Section 7: Implementation Plan

7.0 Introduction

This section describes the Implementation Plan, as well as how activities were selected for implementation within the 10-year timeframe of the 2016-2025 Vermillion River Watershed Management Plan.

The implementation section of the Plan identifies specific, measurable actions necessary to achieve goals identified in Section 6: Goals, Objectives, and Actions.

These actions were suggested during the public involvement process or taken from the Vermillion River Watershed Restoration and Protection Strategy (WRAPS), geomorphic assessments, subwatershed assessments, partner Capital Improvement Plans (CIPs), and other previously completed planning documents.

The process of "blending" action steps from so many different sources into a coherent implementation plan was a challenge. An implementation table containing all recommended actions individually would be exhaustive, duplicative, and lacking in focus and priority.

The VRWJPO contracted with Emmons & Olivier Resources (EOR) to develop a process for an implementation plan. The VRWJPO wanted an implementation plan that would be true to source materials (WRAPS, geomorphic assessments, etc.) as well as the priorities expressed by stakeholders and the public.

Figure 7.0.1: VRWJPO Implementation Plan Development Process summarizes the steps taken to achieve the implementation plan.

An action in Section 6: Goals, Objectives, and Actions in the Implementation Plan are statements of intent by the VRWJPO. Implementation depends on future decisions by the Vermillion River Watershed Joint Powers Board (VRWJPB), which budgets for and authorizes initiatives. In many cases, implementation requires participation of other parties.

The VRWJPO is committed to regular evaluation of its programs, projects, and capital improvements. The VRWJPO will periodically (at least every two years) review its progress towards implementing this Plan. In response to feedback, new information, changes in priorities, or new technical approaches, the VRWJPO may revise or amend the Implementation Plan.

In 2022, VRWJPO staff reviewed the implementation activities for each subwatershed and made adjustments to each subwatershed management plan to reflect items that were not originally incorporated from the WRAPS, outcomes of new assessments and studies, and other knowledge gained as the Plan was implemented up until 2022. These changes demonstrate flexibility and adaptation based on the needs of the water resources in the VRWJPO.

Figure 7.0.1: VRWJPO Implementation Plan Development Process					
Step 1: Compile Potential	Step 2: Evaluate	Step 3: Identify Watershed-	Step 4: Develop	Step 5: Prioritize	
Implementation Activities	Implementation Activities	wide Implementation	Subwatershed Management	Implementation Activities	
		Activities	Plans		
Populated table with	Sorted implementation	Implementation activities that	Implementation activities that	Implementation activities in	
implementation activities	activities by VRWJPO role:	could occur anywhere within	are unique to a specific area	individual subwatershed were	
found in the Goals,	Administration and	the watershed are included in	were identified in individual	prioritized by the VRWJPO.	
Objectives, and Actions	Operations; Coordination and	the Implementation Plan	subwatershed management	Estimates were made of the	
(GOA), WRAPS, geomorphic	Collaboration; Land and	Summary ("the big table").	plans.	percentage of VRWJPO	
assessments, Vermillion River	Water Treatment; Monitoring			funding and effort that would	
Headwaters assessment, and	and Assessment; Public			be expended on each	
others.	Communication and			subwatershed.	
	Outreach; Regulation; and				
	Research and Planning.				
Evaluated whether specific	Made certain that	Implementation activities that	Implementation activities	Ensured that all	
activities had been	implementation activities	are currently being	identified in geomorphic	implementation activities had	
implemented; if yes, removed	(now sorted by VRWJPO role)	performed or are ongoing	assessments were cross-	been evaluated, prioritized,	
them from the table.	were assigned a goal and	responsibilities were grouped	referenced with projects in	and included in "the big	
	objective to track its origins in	in one line item in "the big	member communities' CIP to	table," with cost estimates	
	the GOA.	table" – Staff Function.	see if there was overlap and	based on the VRWJPO's	
			an opportunity to partner.	annual budget projections	
				over the next 10 years.	
Contacted member		Implementation activities	After filling in each		
communities (cities, counties)		assumed to be new functions	subwatershed management		
to request Capital		or projects of the VRWJPO	plan, total annual costs for		
Improvement Plans to		are listed separately in "the	implementation activities was		
identify opportunities for		big table."	calculated for that		
collaboration.			subwatershed and included in		
			"the big table."		

7.1 Subwatershed Management Plans

The development of specific subwatershed management plans allows the VRWJPO to prioritize its projects among various subwatersheds based on resource conditions, impacts on other subwatersheds, or other issues. For example, a water quality improvement project implemented in an upstream subwatershed will benefit the resources downstream.

The VRWJPO staff developed a prioritization for subwatersheds based on these factors. (See Figure 7.1.1: Subwatershed Priorities.) The priority factor is the percentage of available project funding to be allocated for projects in specific subwatersheds to fund identified projects.

Figure 7.1.1: Subwatershed Priorities			
Subwatershed	Priority Factor		
Upper Main Stem	25		
South Creek	20		
North Creek	15		
South Branch Vermillion	15		
Middle Creek	10		
Middle Main Stem	7		
Lower Main Stem	5		
Mississippi River Direct	3		

Implementation projects depend on a variety of factors, including partner participation, opportunity, and available staff time. The annual budget allocations for projects in each subwatershed are contingent on VRWJPB approvals.

After implementing the Plan for five years, the subwatershed management plans were adjusted in 2022 to reflect challenges with project opportunities, challenges and opportunities finding cooperative landowners, newly identified projects based on current data, and new grant funding sources. This adjustment to the subwatershed management plans results in changes in the proposed funding allocation for each subwatershed. The proposed funding allocation does not fully align with the priorities identified in Figure 7.1.1 based on challenges with project opportunities in each subwatershed.

The subwatershed management plans (Figures 7.2 through 7.9) consist of all of the potential projects that have been identified for the given subwatershed. The categories highlighted in beige represent those projects identified in geomorphic or subwatershed assessments. For example, Figure 7.3 South Creek Subwatershed, includes a category "Culvert/crossing" that includes several specific projects identified in the South Creek geomorphic assessment.

The projects in white are those that are recommended in the WRAPS, partner CIP plans, <u>projects identified in a</u> <u>subwatershed assessment</u>, or other planning documents.

Clearly, the VRWJPO will not be able to complete all of the projects listed in the subwatershed plans within its current budget structure. Each of the subwatershed management plan figures includes funding estimates based on:

- All potential projects that have been identified within the subwatershed.
- A prioritized list of projects to becompleted within the subwatershedgiven a \$500,000 annual capitalimprovement budget.
- ≈ A prioritized list of projects to be completed within the subwatershed given the VRWJPO's existing annual budget, after watershed-wide initiatives have been allocated.

It should be noted that the costs for activities identified as nutrient management practices and agricultural BMPs anticipated to be just a fraction of the costs required for these practices and will need to be supplemented by State or other local funding.

Consultants <u>and staff</u> developed cost estimates for each activity in the subwatershed plans. Cost estimates were identified in the geomorphic assessments; the VRWJPO used the midrange of the cost estimates in the subwatershed management plans. To reduce project costs, the VRWJPO will continue to collaborate with partners.

Consultants <u>and staff</u> reviewed the capital improvement programs or other planning documents of local partners to determine where work within the watershed is being proposed. Some proposed partner projects – such as road reconstruction, facility upgrades, or residential developments – can be significantly improved by installing stormwater management or treatment practices concurrently. Partners can incorporate BMPs that protect infrastructure, reduce impacts of new impervious surface, reduce and treat stormwater, build resilience to weather events, and add landscape interest.

VRWJPO cost share funding can provide partners these benefits at a reduced cost. At the same time, the VRWJPO achieves its water and land improvement goals while working efficiently and economically in concert with activities already underway.

7.2 Upper Main Stem Subwatershed

The Upper Main Stem Subwatershed is the top priority for implementation projects. The subwatershed includes two reaches of the Vermillion River (520 and 517). Potential projects are shown in Figure 7.2.1.: Upper Main Stem Subwatershed Management Plan.

Figure 7.2.1: Upper Main Stem Subwatershed Management Plan

Upper Main Stem Subwatershed Management Plan	Original Scenario- (All Activities)	500K Annual Scenario 1	Current Balance Scenario
Vermillion Headwaters Subwatershed Assessment BMPs	\$ 137,720	\$ 137,720	\$ 137,720
Bemis Wetland Project	\$30,000		
Subtotal	\$ 137,720	\$ 137,720	\$ 137,720
Culverts/crossings	\$ 500,000		\$ 406,030
Riparian buffers	\$ 250,000		
Natural Channel Restoration	\$ 250,000		
Streambank stabilization	\$ 750,000	\$ 1,112,280	
Additional projects identified in future geomorphic assessment	\$ 500,000		
Future Geomorphic Subtotal	\$ 2,250,000		
Ten Year Total Budget (25% of total)	\$ 2,417,720	\$ 1,250,000	\$ 543,750



Upper Main Stem Subwatershed Management Plan (2022 Amendment)	Estimated Cost
Vermillion Headwaters Subwatershed Assessment BMPs	\$125,000
Wetland restoration and water storage practices	650.000
<u>Bemis Wetland Project</u>	\$50,000
Bacteria reduction practices (e.g. septic, livestock, etc.)	\$20,000
<u>Subtotal</u>	\$195,000
Stream channel improvements	
<u>Culverts/crossings</u>	
<u>Riparian buffers</u>	¢200.000
Natural Channel Restoration	\$500,000
<u>Streambank stabilization</u>	
Additional projects identified in future geomorphic	
Budget Total	\$495,000

A geomorphic assessment has not been conducted for this subwatershed, so dollar amounts shown for these activities (shaded beige in the figure) were estimated based on expenditures found in other, similar subwatersheds. Note that the dollar amount to be spent on projects-

identified in the geomorphic assessments is lumped for the two budget scenarios. The specific geomorphic assessment projects to be conducted will be determined based on the evaluation criteria and priorities established within the assessment.

7.3 South Creek Subwatershed

The South Creek Subwatershed was identified as one of the top priorities for implementation projects. The subwatershed includes impaired reach 527 and Lake Marion. Potential projects are identified in Figure 7.3.1.: South Creek Subwatershed Management Plan.

Figure 7.3.1: South Creek Subwatershed Management Plan

South Creek Subwatershed Management Plan	Original Scenario- (All Activities)	500K Annual Scenario 1	Current Balance- Scenario
Bacteria Feasibility Study	\$ 25,000		
Bacteria Project	\$ 125,000		
BMP retrofits Lakeville downstream of Marion Lake.	\$ 300,000	\$ 300,000	\$ 300,000
BMPs for Hamburg Ave. re-construction in reaches 570, 715	\$ 150,000		
Subtotal	\$ 600,000	\$ 300,000	\$ 300,000
Bank Stabilization	\$ 18,750	_	\$ 135,000
Culvert/crossing	\$ 131,250		
Infastructure/Bank Stabilization	\$ 18,750		
Infrastructure	\$ 393,750	\$ 700 000	
Natural Channel Restoration	\$ 2,343,750		
Riparian Management	\$ 1,087,500		
Geo Morph Subtotal	\$ 3,993,750		
Ten Year Total Budget (20% of total)	\$ 4,593,750	\$ 1,000,000	\$ 435,000



South Creek		Estimated Cost
Subwatershed M	lanagement Plan (2022 Amendment)	Estimated Cost
South Creek BMF	<u>Pretrofits</u>	
•	BMP retrofits from South Creek Downtown/ Industrial Park SWA	<u>\$200,000</u>
•	BMPs for Hamburg Ave. re-construction	
Lake Marion Prot	tection Stormwater Improvements	<u>\$50,000</u>
<u>Subtotal</u>		<u>\$250,000</u>
Stream channel i	mprovements	
•	Bank Stabilization	
•	Culvert/crossing	
•	Infrastructure/Bank Stabilization	\$201 200
•	Infrastructure	<u>3331,200</u>
•	Natural Channel Restoration	
•	Riparian Management	
•	Geo Morph Subtotal	
	Budget Total	\$641,200

The projects highlighted in beige were identified in the <u>geomorphic assessment that was done for South Creek</u>, available on the VRWJPO website. Note that the dollar amount to be spent on projects identified in the geomorphic assessments is lumped for the two budget scenarios. The specific geomorphic assessment projects to be conducted will be determined based on the evaluation criteria established within the assessment.

7.4 North Creek Subwatershed

The North Creek Subwatershed was identified as one of the top priorities for implementing projects. The subwatershed includes three impaired reaches of North Creek (545, 670 and 671). Potential projects are identified in Figure 7.4.1.: North Creek Subwatershed Management Plan.

Figure 7.4.1: North Creek Subwatershed Management Plan

North Creek	Original Scenario	500K Annual	Current Balance
Subwatershed Management Plan	(All Activities)	Scenario 1	Scenario
Bacteria Feasibility Study	\$ 25,000		\$-
Bacteria Project	\$ 75,000		\$-
SW Storage in Headwaters	\$ 300,000	\$ 150,000	\$ 150,000
SW Retrofits: Pilot Knob	\$ 275,000	\$ 125,000	\$ 125,000
Assess weirs/dams and backwaters	\$ 85,000	\$ 85,000	
Subtotal	\$ 760,000	\$ 360,000	\$ 275,000
Bank Stabilization	\$ 37,500		
Crossing/culvert	\$ 937,500		
Grade Stabilization	\$ 281,250		
Infrastructure	\$ 150,000	\$ 390,000	\$ 51,250
Natural Channel Restoration	\$ 731,250		
Riparian Management	\$ 187,500		
Geo Morph Subtotal	\$ 2,512,500		
Ten Year Total Budget (15% of total)	\$ 3,085,000	\$ 750,000	\$ 326,250



North Creek Subwatershed Management Plan (2022 Amendment)		Estimated Cost
Alimagnet Lake	External Load Phosphorus Reduction BMPs	
•	Enhanced Street Sweeping	\$25,000
•	Public land water quality improvements	<u> 723,000</u>
•	Stormwater retrofits	
Alimagnet Lake	Internal Load Phosphorus Reduction BMPs	
•	Lake Alum or Drawdown Feasibility Study	
•	Lake Alum Treatment or Lake Drawdown	<u>\$400,000</u>
•	Fisheries Management	
•	Lake Shoreline and Buffer Improvements	
East Lake External Load Phosphorus Reduction BMPs		
● <u>Cre</u>	Stormwater Improvement or retrofit BMPs from North ek/East Lake SWAs	<u>\$100,000</u>
•	Enhanced Street Sweeping	
•	Lake Shoreline and Buffer Improvements	

East Lake Internal Load Phosphorus Reduction BMPs	
<u>Fisheries Management</u>	
• <u>Fish barrier</u>	
Lake Alum Feasibility Study	
Lake Alum Treatment	
North Creek Stormwater Improvement BMPs	
Stormwater Improvement BMPs from North Creek/East Lake	
<u>SWA</u>	67F 000
Dodd Blvd Stormwater Treatment BMP	<u>\$75,000</u>
Foxborough Park Area Stormwater Retrofit Projects	
<u>Buffer Improvements</u>	
Long/Farquar Lake stormwater improvements BMPs	
Stormwater improvement BMPs from Long/Farquar TMDL	<u>\$100,000</u>
Implementation Plan	
<u>Subtotal</u>	<u>\$900,000</u>
Stream channel improvements	
Bank Stabilization	
Culvert/crossing	
Infrastructure/Bank Stabilization	¢50.000
Infrastructure	<u>330,000</u>
Natural Channel Restoration	
Riparian Management	
Geo Morph Subtotal	
Budget Total	<u>\$950,000</u>

The projects highlighted in beige were identified in the <u>geomorphic assessment that was done for North Creek</u> and its tributaries, available on the website. Note that the dollar amount to be spent on projects identified in the geomorphic assessments is lumped for the two budget scenarios. The specific geomorphic assessment projects to be conducted will be determined based on the evaluation criteria established within the assessment.

7.5 South Branch Vermillion Subwatershed

The South Branch Vermillion Subwatershed was identified as one of the top priorities for implementing projects. The subwatershed includes South Branch reach 707. Potential projects are identified in Figure 7.5.1.: South Branch Vermillion Subwatershed Management Plan.

Figure 7.5.1: South Branch Vermillion Subwatershed Management Plan

South Branch Vermillion	Original Scenario	500K Annual	Current Balance
Subwatershed Management Plan	(All Activities)	Scenario 1	Scenario
Woodchip bioreactors and other N removal BMPs	\$ 75,000	\$ 75,000	\$ 75,000
Riparian Buffers	\$ 250,000	\$ 250,000	\$ 125,625
Natural Channel Restoration	\$ 100,000	\$ 100,000	\$ 125,625
Culverts/crossings	\$ 50,000	\$ 50,000	\$ 50,000
Ten Year Total Budget (15% of total)	\$ 475,000	\$ 475,000	\$ 376,250



South Branch Vermillion Subwatershed Management Plan (2022 Amendment)	Estimated Cost
Woodchip bioreactors and other N removal BMPs	<u>\$75,000</u>
Nutrient management practices	
<u>Cover crops</u>	<u>\$15,000</u>
Perennial crops	
Best management practices identified in South Branch Vermillion SWA	<u>\$134,700</u>
Wetland Restoration and Water Storage Practices	<u>\$244,400</u>
<u>Subtotal</u>	<u>\$469,100</u>
Stream channel improvements	
<u>Riparian buffers</u>	¢126 700
<u>Natural Channel Restoration</u>	<u>\$130,700</u>
<u>Culverts/Crossings</u>	
Budget Total	<u>\$605,800</u>

A geomorphic assessment has not been conducted for this subwatershed yet so the dollar amounts shown for these activities (shaded beige in the figure) were estimated based on expenditures found in other, similar subwatersheds. The specific geomorphic assessment projects to be conducted will be determined based on the evaluation criteria and priorities established within the assessment.

A geomorphic assessment was conducted by the Minnesota Department of Natural Resources in 2020. The assessment was not conducted in the same manner as other geomorphic assessments conducted by the VRWJPO that focus on project identification, and this assessment primarily focused stream classification based on field surveys and visual observations. As a result, it is more difficult to develop an implementation plan for stream channel improvements, but VRWJPO staff identified potential projects and estimated costs based on the information available.

7.6 Middle Creek Subwatershed

The Middle Creek Subwatershed was identified as a lower priority for implementing projects. The subwatershed includes two impaired reaches of Middle Creek (548 and 668). Potential projects are identified in Figure 7.6.1.: Middle Creek Subwatershed Management Plan.

Figure 7.6.1: Middle Creek Subwatershed Management Plan

Middle Creek Subwatershed Management Plan	Original Scenario (All Activities)	500K Annual Scenario 1	Current Balance Scenario
Headwater Stream Ponds (upstream of 195th St)	\$ 200,000	\$ 100,000	\$ 100,000
Bacteria Feasibility Study	\$ 25,000		θ
Bacteria Project	\$ 125,000		θ
Headwaters Cost Share	\$ 25,000	\$ 25,000	θ
Connect re-constructed area in reach 547 downstream of 195th Street	\$_	θ	θ
Subtotal	\$ 375,000	\$ 125,000	\$ 100,000
Bank Stabilization	\$ 56,250		
Crossing/culvert	\$ 356,250		
Grade Stabilization	\$ 262,500]	
Infrastructure	\$ 37,500	\$ 275 000	\$ 117 500
Natural Channel Restoration	\$ 1,068,750	- 3 373,000 - -	9 117,500
Riparian Management	\$ 112,500		
Geo Morph Subtotal	\$ 1,893,750		
Ten Year Total Budget (10% of total)	\$ 2,268,750	\$ 500,000	\$ 217,500



Middle Creek	Estimated Cost
Wotland Posteration and Water Storage Practices	\$75,000
Wetland Restoration and Water Storage Flactices	373,000
Headwater Improvement Cost Share	<u>\$25,000</u>
<u>Subtotal</u>	<u>\$100,000</u>
Stream channel improvements	
<u>Bank Stabilization</u>	
<u>Crossing/culvert</u>	
Grade Stabilization	<u>\$260,000</u>
Infrastructure	
<u>Natural Channel Restoration</u>	
<u>Riparian Management</u>	
Budget Total	<u>\$360,000</u>

The projects highlighted in beige were identified in the <u>geomorphic assessment that was done for Middle Creek</u> and its tributaries, available on the website. Note that the dollar amount to be spent on projects identified in the geomorphic assessments is lumped for the two budget scenarios. The specific geomorphic assessment projects to be conducted will be determined based on the evaluation criteria established within the assessment.

7.7 Middle Main Stem Subwatershed

The Middle Main Stem Subwatershed was identified as a lower priority for implementing projects. The subwatershed includes Vermillion River reach 507. Potential projects are identified in Figure 7.7.1.: Middle Main Stem Subwatershed Management Plan.

Figure 7.7.1: Middle Main Stem Subwatershed Management Plan

Middle Main Stem **Original Scenario** 500K Annual **Current Balance Subwatershed Management Plan** (All Activities) Scenario 1 Scenario Study to determine SW pond temperature \$ 25,000 \$ 25,000 \$ 25,000 **Subtotal** \$ 25,000 \$ 25,000 \$ 25,000 **Bank Stabilization** \$ 337,500 \$ 637,500 Culvert/crossing **Infrastructure** \$ 131,250 \$ 325,000 \$ 127,250 Natural Channel Restoration \$ 2,231,250 \$ 600,000 Riparian Management \$ 3,937,500 Geo Morph Subtotal \$ 3,962,500 \$ 350,000 \$ 152,250 Ten Year Total Budget (7% of total)



Middle Main Stem	Estimated Cast
Subwatershed Management Plan (2022 Amendment)	Estimated Cost
Stormwater Volume and/or Pollutant Reduction BMPs	
<u>Stream temperature reduction BMPs</u>	¢125.000
<u>SW pond temperature reduction BMPs</u>	<u>\$125,000</u>
Urban stormwater BMPs	
Nutrient management practices	
<u>Cover crops</u>	<u>\$15,000</u>
Perennial crops	
Agricultural BMPs	<u>\$25,000</u>
Wetland Restoration and Water Storage Practices	<u>\$75,000</u>
<u>Subtotal</u>	<u>\$240,000</u>
Stream channel Improvements	
Bank Stabilization	
<u>Culvert/crossing</u>	¢E0.000
Infrastructure	<u>330,000</u>
<u>Natural Channel Restoration</u>	
Riparian Management	
Budget Total	<u>\$290,000</u>

The projects highlighted in beige were identified in the <u>geomorphic assessment that was done in the Empire Flowages</u>, available on the website. Note that the dollar amount to be spent on projects identified in the geomorphic assessments is lumped for the two budget scenarios. The specific geomorphic assessment projects to be conducted will be determined based on the evaluation criteria established within the assessment.

7.8 Lower Main Stem Subwatershed

The Lower Main Stem Subwatershed was identified as a lower priority for implementing projects. The subwatershed includes Vermillion River reach 692. Potential projects are identified in Figure 7.8.1.: Lower Main Stem Subwatershed Management Plan.

Figure 7.8.1: Lower Main Stem Subwatershed Management Plan

Lower Main Stem	Original Scenario	500K Annual	Current Balance
Subwatershed Management Plan	(All Activities)	Scenario 1	Scenario
Riparian Buffers	\$ 250,000	\$ 50,000	\$ 54,375
Urban BMP retrofit opportunities in residential areas of Hastings	\$ 450,000	\$ 150,000	
Streambank Stabilization	\$ 250,000	\$ 50,000	\$ 54,375
Ten Year Total Budget (5% of total)	\$ 950,000	\$ 250,000	\$ 108,750



Lower Main Stem Subwatershed Management Plan (2022 Amendment)	Estimated Cost
Urban BMP retrofit opportunities	<u>\$37,750</u>
Wetland Restoration and Water Storage Practices	<u>\$10,000</u>
Nutrient management practices	
<u>Cover crops</u>	<u>\$15,000</u>
Perennial crops	
Best management practices identified in Lower Mainstem South SWA	<u>\$45,000</u>
<u>Subtotal</u>	<u>\$107,750</u>
Stream channel Improvements	
Bank Stabilization	¢55.250
Infrastructure	<u>333,230</u>
Riparian Management	
Budget Total	<u>\$163,000</u>

A geomorphic assessment has not been conducted for this subwatershed yet so the dollar amounts shown for these activities (shaded beige in the figure) were estimated based on expenditures found in other, similar subwatersheds. The specific geomorphic assessment projects to be conducted will be determined based on the evaluation criteria and priorities established within the assessment.

The projects highlighted in beige were identified in the geomorphic assessment that was done in the Lower Mainstem, available on the website. Note that the dollar amount to be spent on projects identified in the geomorphic assessments is lumped for the two budget scenarios. The specific geomorphic assessment projects to be conducted will be determined based on the evaluation criteria established within the assessment.

7.9 Mississippi River Direct Subwatershed

The Mississippi River Direct Subwatershed was identified as a lower priority for implementing projects. The subwatershed includes the Ravenna Coulees. Potential projects are identified in Figure 7.9.1.: Mississippi River Direct Subwatershed Management Plan.

Figure 7.9.1: Mississippi River Direct Subwatershed Management Plan

Mississippi Direct Subwatershed Management Plan	Original Scenario- (All Activities)	500K Annual Scenario 1	Current Balance Scenario
Ag BMPS in Upstream Areas	\$ <u>25,000</u>	\$ 25,000	\$ 25,000
Riparian Buffers	\$ 50,000	\$ 50,000	\$ 50,000
Urban BMP retrofit opportunities in residential areas of Hastings	\$ 300,000		
Ravenna Coulee 1, West Drainage, PP01 Grade Stabilization	\$ 25,000	\$ 25,000	
Ten Year Total Budget (3% of total)	\$ 400,000.00	<u>\$ 100,000.00</u>	\$ 75,000.00



Mississippi Direct Subwatershed Management Plan (2022 Amendment)	Estimated Cost
Water Storage in Upstream Areas	<u>\$10,000</u>
Urban BMP retrofit opportunities	<u>\$37,750</u>
Nutrient management practices • Cover crops • Perennial crops	<u>\$15,000</u>
Agricultural BMPs	<u>\$15,000</u>
<u>Subtotal</u>	<u>\$77,750</u>
Stream channel Improvements • Riparian Buffers • Etter Creek improvement and ravine stabilization projects • Other ravine stabilization projects	<u>\$75,000</u>
Budget Total	<u>\$152,750</u>

The projects highlighted in beige were identified in the <u>geomorphic assessment that was done in the Etter Creek/ Ravenna Coulees</u>, available on the website. Note that the dollar amount to be spent on projects identified in the geomorphic assessments is lumped for the two budgetscenarios. The specific geomorphic assessment projects to be conducted will be determined based on the evaluation criteria established within the assessment.

7.10 Implementation Plan Table

Figure 7.10.1: Implementation Plan Table uses the VRWJPO roles and Watershed Plan goals to provide cost estimates for the Section 6 actions not included in the subwatershed plans.

Those actions that can be taken by VRWJPO staff as part of current operations are included in the "Staff Function" line in the Implementation Plan Table. An annual budget of \$240,000 over each of the next 10 years for staff functions encompasses many of the actions listed in Section 6.

Those actions that require additional resources (planning, development, policy, consultation, etc.) are specifically listed in the table, with cost estimates. The subwatershed plan costs are summarized and listed in the Land and Water Treatment category.

Where implementation activities are dependent upon one another (e.g. water quality improvement project dependent upon the completion of a feasibility study and/or modeling effort), the relationship is reflected in the schedule.

Implementation activities and cost estimates are taken from previous studies or projects. In other cases, the costs are estimates based on current understanding of the activity's scope. Cost estimates are shown as either a one-time cost (typical of feasibility studies and capital improvement projects) or as annual costs for ongoing programs. In general, the Implementation Plan provides a planning-level projection that can be used as a starting point for the detailed annual budgeting process.

The implementation plan table is organized by the roles of the VRWJPO as defined in Section 6: Goals, Objectives, and Actions. For each of the VRWJPO roles, the plan table provides a budget for general staff functions.

7.11 VRWJPO Financing

Dakota and Scott counties jointly fund the administration and activities of the VRWJPO, as specified in the Joint Powers Agreement (see Appendix A). The funding is provided through the counties' annual property tax levies, using the following process:

- ≈ Dakota and Scott counties provide the VRWJPO with estimates of Vermillion River Watershed Management Tax District tax capacity.
- ≈ In August, the VRWJPO staff submits
 a preliminary annual budget and
 Vermillion River Watershed

Management Tax District Levy for the subsequent year to the VRWJPB.

- ≈ The VRWJPB holds a public hearing and adopts the proposed budget and levy amounts for the next year.
- ≈ In September, the Dakota County and Scott County Boards certify the preliminary levy amounts allocated to the portions of the watershed in each County according to tax capacity.
- ≈ In December, as the annual budget cycle ends, the VRWJPO staff updates the proposed budget to a final version for the subsequent year. The VRWJPB adopts the final budget and levy.
- ≈ In December, the Dakota County and Scott County Boards certify the final Vermillion River Watershed Management Tax District levy.

The Vermillion River Watershed Management Tax District levy is a primary, but not the only, source of funding for VRWJPO activities. The VRWJPO also pursues grant opportunities, partnerships, or coordinated efforts that align with Watershed Plan goals and needs. The VRWJPO may also pursue other alternative funding options as identified in Minnesota Statutes 103B, if these options are consistent with the Joint Powers Agreement.

Figure 7.10.1: Implementation Plan Table

VRWJPO Roles	Implementation Initiatives	Grant Costs											
and Goals		Eligibility	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	10-Year Total
					• • • • • • • • •								
Administrati	on and Operations		\$ 245,000	\$ 245,000	\$ 240,000	\$ 240,000	\$ 240,000	\$ 240,000	\$ 240,000	\$ 240,000	\$ 240,000	\$ 240,000	\$ 2,410,000
	Staff Function		\$ 240,000	\$ 240,000	\$ 240,000	\$ 240,000	\$ 240,000	\$ 240,000	\$ 240,000	\$ 240,000	\$ 240,000	\$ 240,000	\$ 2,400,000
	Establish a riparian habitat improvement program that includes tree shading in trout stream	Yes											
Goal F	reaches		\$ 5,000.00	Tree shading efforts	are included within e	each of the individua	I subwatershed mar	agement plans					5000
	Use restorable wetland tools and inventories to develop partnerships and implement restoration	Yes											
Goal A	projects.		\$ -	\$ 5,000.00									5000
Coordination	n & Collaboration		\$ 20,000	\$ 20,000	\$ 30,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 210,000
	Staff Function		See initial Staff	See initial Staff	See initial Staff	See initial Staff	See initial Staff	See initial Staff	See initial Staff	See initial Staff	See initial Staff	See initial Staff	
			Function	Function	Function	Function	Function	Function	Function	Function	Function	Function	\$ -
	Collaborate with Dakota and Scott County Land Conservation staff to identify high priority												
	riparian habitat and assist in easement acquisition and restoration or protection through cost-		See previous item	See previous item	See previous item	See previous item	See previous item	See previous item	See previous item	See previous item	See previous item	See previous item	
	share and incentives		#1 under Climate	#1 under Climate	#1 under Climate	#1 under Climate	#1 under Climate	#1 under Climate	#1 under Climate	#1 under Climate	#1 under Climate	#1 under Climate	
			Change above	Change above	Change above	Change above	Change above	Change above	Change above	Change above	Change above	Change above	
													\$-
	Work with partners and landowners to protect wetlands and restore wetlands with strategic												
	value in flood protection and pollutant filtration through conservation easement, fee title, tile		See following	See following item	See following item	See following item	See following item	See following item	See following item	See following item	See following item	See following item	
	removal, revegetation, and other techniques		item	-	-	_	-	-	-	-	-	-	\$ -
	Assist Dakota County and Scott County Land Protection programs in acquiring permanent			İ							İ		
	conservation easements in riparian areas in the Vermillion River Watershed												
Goal A	conservation casements in ripulation areas in the vernimon river watershea												
			\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 200,000
	Work with landowners and other agencies to eliminate fencing across public waters and												
	associated potential liabilities (e.g., Vermillion River and tributaries).												
			See item under	See item under	See item under	See item under	See item under	See item under	See item under	See item under	See item under	See item under	
			L&WT, WQ	L&WT, WQ	L&WT, WQ	L&WT, WQ	L&WT, WQ	L&WT, WQ	L&WT, WQ	L&WT, WQ	L&WT, WQ	L&WT, WQ	
													¢ .
	Consider developing stormwater management system maintenance guidance for watershed												Ŷ
			ć	ć	¢ 10.000	ć	ć	ć	ć	ć	ć	ć	¢ 10.000
			ş -	<i>э</i> -	\$ 10,000	ş -	Ş -	<i>э</i> -	, -	ş -	ş -	Ş -	ş 10,000
	Assist with buffer acquisition, riparian plantings, shoreline restoration, acquisition and/or		See previous item										
	removal of structures that degrade the corridor		#1 under Climate	See previous item	See previous item	See previous item	See previous item	See previous item	See previous item	Ś -	Ś -	\$ -	
			Chanae above	,	,	,	,	,					
													Ş -
Land and W	ater Treatment		\$ 243,475	\$ 278,475	\$ 313,475	\$ 293,475	\$ 283,475	\$ 313,475	\$ 288,475	\$ 268,475	\$ <u>268,475</u>	\$ <u>268,475</u>	\$ <u>2,819,750</u>
Land and Wa	ater Treatment		<u>\$ 385,775</u>	<u>\$ 420,775</u>	<u>\$ 455,775</u>	<u>\$ 435,775</u>	<u>\$ 425,775</u>	<u>\$ 455,775</u>	<u>\$ 430,775</u>	<u>\$ 410,775</u>	<u>\$ 410,775</u>	<u>\$ 410,775</u>	<u>\$ 4,242,750</u>
	Staff Function		See initial Staff	See initial Staff	See initial Staff	See initial Staff	See initial Staff	See initial Staff	See initial Staff	See initial Staff	See initial Staff	See initial Staff	
			Function	Function	Function	Function	Function	Function	Function	Function	Function	Function	\$ -
	Implement activities identified in the North Creek Subwatershed Management Plan	Yes											
			\$ 32,625	\$ 32,625	\$ <u>32,625</u>	\$ <u>32,625</u>	\$ 32,625	\$ <u>32,625</u>	\$ <u>32,625</u>	\$ <u>32,625</u>	\$ <u>32,625</u>	\$ <u>32,625</u>	\$ 326,250
	Implement activities identified in the Middle Creek Subwatershed Management Plan	Yes	\$ 21,750	\$ 21,750	\$ 21,750	\$ 21,750	\$ 21,750	\$ 21,750	\$ 21,750	\$ 21,750	\$ 21,750	\$ 21,750	\$ 217,500
	Implement activities identified in the South Creek Subwatershed Management Plan	Yes	\$ 43,500	\$ 43.500	\$ 43,500	\$ 43,500	\$ 43,500	\$ 43.500	\$ 43,500	\$ 43,500	\$ 43,500	\$ 43,500	\$ 435,000
	Implement activities identified in the Upper Mainstern Subwatershed Management Plan	Yes	\$ 54,375	\$ 54.375	\$ 54.375	\$ 54.375	\$ 54.375	\$ 54.375	\$ 54.375	\$ 54.375	\$ 54.375	\$ 54.375	\$ 543,750
Goal A	Implement activities identified in the South Proper Vermillion Subwatershed Management Dian	Yos	\$ 37.625	¢ 27.625	<u>¢ 27.675</u>	<u>¢ 27.625</u>	<u>¢ 27.625</u>	<u>¢ 27.625</u>	<u>¢ 27.675</u>	<u>¢ 27.635</u>	<u>¢ 27.675</u>	<u>¢ 27.675</u>	<u>¢ 276.250</u>
SoarA	Implement activities identified in the Middle Mainstern Subwatershed Management Plan	Ves	\$ 15.225	\$ 15 225	\$ 15.225	\$ 15.225	\$ 15.225	<u>\$</u> 15 225	<u>\$ 15.225</u>	\$ 15.225	\$ 15.225	\$ 15.225	\$ 152.250
	Implement activities identified in the Lower Mainstern Subwatershed Management Dian	Vec	<u>\$ 10.875</u>	\$ 10.97E	\$ 10.87E	\$ 10.87E	<u>Ś</u> 10 975	<u>\$ 10,225</u>	<u>\$ 10 875</u>	\$ 10.87E	<u>Ś 10 87</u> E	\$ 10.87E	\$ 102,250
	Implement activities identified in the Mississieni Diver Divert Schurtzerheid Meneren (12)	Vec	+ 10,073	÷ 10,873	÷ 10,8/3	y 10,873	÷ <u>10,8/3</u>	÷ ±0,8/3	÷ 10,8/3	÷ 10,8/3	÷ 10,8/3	÷ 10,8/3	÷ 100,730
	minipremient activities identified in the mississippi Kiver Direct Subwatershed Management Plan	+85	ć 7.000	ć 7.500	ć 7.500	ć 7.500	ć 7.000	ć 7.500	ć 7.500	ć 7.500	ć 7.000	ć 7.000	ć 75.000
	Conduct Subwatarshad Accorsmonts		¢ 7,500	¢ 7,300	¢ 7,500	¢ 7,500	¢ 7,000	¢ 7,300	¢ 7,300	پالادر، پ د	φ /,300 ¢	پ (۱٫۵۵۷	¢ /3,000
-	Contract Subwatersned Assessments		÷ 20,000	⇒ <u>20,000</u>	÷ 20,000	÷ 20,000	⇒ <u>20,000</u>	⇒ <u>20,000</u>	÷ 20,000	÷	÷	÷	⇒ 140,000
	Implement activities identified in the North Creek Subwatershed Management Plan	Yes	<u>> 95,000</u>	<u>> 95,000</u>	\$ 95,000	<u>> 95,000</u>	<u>> 95,000</u>	<u>> 95,000</u>	<u>> 95,000</u>	<u>> 95,000</u>	<u>> 95,000</u>	<u>> 95,000</u>	<u>> 950,000</u>
	Implement activities identified in the Middle Creek Subwatershed Management Plan	Yes	<u>\$ 36,000</u>	<u>\$ 36,000</u>	<u>\$ 36,000</u>	<u>\$ 36,000</u>	<u>\$ 36,000</u>	<u>\$ 36,000</u>	<u>\$ 36,000</u>	<u>\$ 36,000</u>	<u>\$ 36,000</u>	<u>\$ 36,000</u>	<u>s 360,000</u>
	Implement activities identified in the South Creek Subwatershed Management Plan	Yes	<u>\$</u> 64,120	<u>\$</u> 64,120	<u>\$</u> 64,120	<u>\$</u> 64,120	<u>\$</u> 64,120	<u>\$</u> 64,120	<u>\$</u> 64,120	<u>\$</u> 64,120	<u>\$</u> 64,120	<u>\$</u> 64,120	<u>\$ 641,200</u>
	Implement activities identified in the Upper Mainstem Subwatershed Management Plan	Yes	<u>\$ 49,500</u>	<u>\$</u> 49,500	<u>\$</u> 49,500	<u>\$ 49,500</u>	<u>\$</u> 49,500	<u>\$</u> 49,500	<u>\$</u> 49,500	<u>\$</u> 49,500	<u>\$</u> 49,500	<u>\$</u> 49,500	<u>\$ 495,000</u>
Goal A	Implement activities identified in the South Branch Vermillion Subwatershed Management Plan	Yes	<u>\$ 60,580</u>	<u>\$ 60,580</u>	<u>\$ 60,580</u>	<u>\$ 60,580</u>	<u>\$ 60,580</u>	\$ 60,580	<u>\$ 60,580</u>	<u>\$ 60,580</u>	<u>\$ 60,580</u>	<u>\$ 60,580</u>	<u>\$ 605,800</u>
	Implement activities identified in the Middle Mainstem Subwatershed Management Plan	Yes	\$ 29,000	\$ 29,000	\$ 29,000	\$ 29,000	\$ 29,000	\$ 29,000	\$ 29,000	\$ 29,000	\$ 29,000	\$ 29,000	\$ 290,000
			\$ 16300	\$ 16,300	\$ 16,300	\$ 16,300	\$ 16,300	\$ 16,300	<u>\$ 16,300</u>	\$ 16,300	<u>\$ 16,300</u>	\$ 16,300	\$ 163,000
	Implement activities identified in the Lower Mainstem Subwatershed Management Plan	Yes	2 10,000										¢ 152.750
	Implement activities identified in the Lower Mainstem Subwatershed Management Plan Implement activities identified in the Mississippi River Direct Subwatershed Management Plan	Yes	\$ 15,275	<u>\$ 15,275</u>	<u>\$ 15,275</u>	<u>\$ 15,275</u>	<u>\$ 15,275</u>	<u>\$ 15,275</u>	<u>\$ 15,275</u>	<u>\$ 15,275</u>	<u>\$ 15,275</u>	<u>\$ 15,275</u>	3 132,730
	Implement activities identified in the Lower Mainstem Subwatershed Management Plan Implement activities identified in the Mississippi River Direct Subwatershed Management Plan Conduct Subwatershed Assessments	Yes	<u>\$ 15,275</u> <u>\$ 20,000</u>	\$ 15,275 \$ 20,000	<u>\$ 15,275</u> <u>\$ 20,000</u>	<u>\$ 15,275</u> <u>\$ 20,000</u>	<u>\$ 15,275</u> <u>\$ 20,000</u>	<u>\$ 15,275</u> <u>\$ 20,000</u>	<u>\$ 15,275</u> <u>\$ 20,000</u>	<u>\$ 15,275</u> <u>\$ -</u>	<u>\$ 15,275</u> <u>\$ -</u>	<u>\$ 15,275</u> <u>\$ -</u>	<u>\$ 140,000</u>
	Implement activities identified in the Lower Mainstem Subwatershed Management Plan Implement activities identified in the Mississippi River Direct Subwatershed Management Plan Conduct Subwatershed Assessments Identify urban/suburban developed areas without adequate or any stormwater controls	<u>Yes</u>	\$ 15,275 \$ 20,000	<u>\$ 15,275</u> <u>\$ 20,000</u>	\$ 15,275 \$ 20,000 \$ 25,000	<u>\$ 15,275</u> <u>\$ 20,000</u>	<u>\$ 15,275</u> <u>\$ 20,000</u>	<u>\$ 15,275</u> <u>\$ 20,000</u>	<u>\$ 15,275</u> <u>\$ 20,000</u>	<u>\$ 15,275</u> <u>\$</u> -	<u>\$ 15,275</u> <u>\$</u> -	<u>\$ 15,275</u> <u>\$</u> -	<u>\$ 140,000</u> \$ 25,000
	Implement activities identified in the Lower Mainstem Subwatershed Management Plan Implement activities identified in the Mississippi River Direct Subwatershed Management Plan Conduct Subwatershed Assessments Identify urban/suburban developed areas without adequate or any stormwater controls Develop outreach and cost-share incentives for homeowners, homeowners' associations and	Yes	\$ 15,275 \$ 20,000	<u>\$ 15,275</u> <u>\$ 20,000</u>	\$ 15,275 \$ 20,000 \$ 25,000	\$ 15,275 \$ 20,000	<u>\$ 15,275</u> <u>\$ 20,000</u>	<u>\$ 15,275</u> <u>\$ 20,000</u>	<u>\$ 15,275</u> <u>\$ 20,000</u>	<u>\$ 15,275</u> <u>\$</u> -	<u>\$ 15,275</u> <u>\$</u> -	<u>\$ 15,275</u> <u>\$</u> -	<u>\$ 140,000</u> \$ 25,000
	Implement activities identified in the Lower Mainstem Subwatershed Management Plan Implement activities identified in the Mississippi River Direct Subwatershed Management Plan Conduct Subwatershed Assessments Identify urban/suburban developed areas without adequate or any stormwater controls Develop outreach and cost-share incentives for homeowners, homeowners' associations and businesses in areas without stormwater controls to install stormwater rate and volume control	Yes	\$ 15,275 \$ 20,000	<u>\$ 15,275</u> <u>\$ 20,000</u>	\$ 15,275 \$ 20,000 \$ 25,000	\$ 15,275 \$ 20,000	<u>\$ 15,275</u> <u>\$ 20,000</u>	<u>\$ 15,275</u> <u>\$ 20,000</u>	<u>\$ 15,275</u> <u>\$ 20,000</u>	<u>\$ 15,275</u> <u>\$ -</u>	<u>\$ 15,275</u> <u>\$</u> -	<u>\$ 15,275</u> <u>\$</u> -	\$ 132,730 \$ 140,000 \$ 25,000
	Implement activities identified in the Lower Mainstem Subwatershed Management Plan Implement activities identified in the Mississiopi River Direct Subwatershed Management Plan Conduct Subwatershed Assessments Identify urban/suburban developed areas without adequate or any stormwater controls Develop outreach and cost-share incentives for homeowners, homeowners' associations and businesses in areas without stormwater controls to install stormwater rate and volume control BMPs	Yes	\$ 15,275 \$ 20,000	\$ 15,275 \$ 20,000	\$ 15,275 \$ 20,000 \$ 25,000 10000	\$ 15,275 \$ 20,000	<u>\$ 15,275</u> <u>\$ 20,000</u> 15000	<u>\$ 15,275</u> <u>\$ 20,000</u> 20000	<u>\$ 15,275</u> <u>\$ 20,000</u> 20000	<u>\$ 15,275</u> <u>\$ -</u> 20000	<u>\$ 15,275</u> <u>\$ -</u> 20000	<u>\$ 15,275</u> <u>\$ -</u> 20000	\$ 132,730 \$ 140,000 \$ 25,000 150000
Goal D	Implement activities identified in the Lower Mainstem Subwatershed Management Plan Implement activities identified in the Mississippi River Direct Subwatershed Management Plan Conduct Subwatershed Assessments Identify urban/suburban developed areas without adequate or any stormwater controls Develop outreach and cost-share incentives for homeowners, homeowners' associations and businesses in areas without stormwater controls to install stormwater rate and volume control BMPs Research and make recommendations about BMPs suitable for ultra-urban conditions (no room	Yes	<u>\$ 15,275</u> <u>\$ 20,000</u>	\$ 15,275 \$ 20,000 10000	\$ 15,275 \$ 20,000 \$ 25,000 10000 10000	<u>\$ 15,275</u> <u>\$ 20,000</u> 15000	<u>\$ 15,275</u> <u>\$ 20,000</u> 15000	<u>\$ 15,275</u> <u>\$ 20,000</u> 20000	<u>\$ 15,275</u> <u>\$ 20,000</u> 20000	<u>\$ 15,275</u> <u>\$ -</u> 20000	<u>\$ 15,275</u> <u>\$ -</u> 20000	\$ 15,275 \$ 20000	\$ 132,730 \$ 140,000 \$ 25,000 150000

Provide cost-share or other incentives for producers using cover crops or nutrient management											
plans		\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 225,000

Figure 7.10.1: Implementation Plan Table

VRWIPO Roles	Implementation Initiatives	Grant							Costs								
and Goals		Eligibility	2	2016	2	017	2018	2019	2020		2021	2022	2023	2024	2025	10	-Year Total
		0 1															
	Descereb strategies for water use to use or infiltration that minimize groundwater use at mining																
	Research strategies for water use, re-use, or inflitration that minimize groundwater use at mining																
Goal C	Sites																
					\$	-	\$ 10,000	\$-	\$	-	\$ 25,000	\$-	\$-	\$-	\$-	\$	35,000
Monitoring a	nd Assessment		\$	202,500	\$	202,500	\$ 227,500	\$ 202,500	\$ 192,	500	\$ 232,500	\$ 192,500	\$ 192,500	\$ 192,500	\$ 192,500	\$	2,030,000
	Staff Function		See init	itial Staff	See initia	al Staff	See initial Staff	See initial Staff	See initial Sta	ff	See initial Staff	See initial Staff	See initial Staff	See initial Staff	See initial Staff		
			Functio	on	Function		Function	Function	Function	F	Function	Function	Function	Function	Function	\$	-
	Add continuous dissolved oxygen (DO) monitoring to Monitoring Network sampling for reaches																
	listed as impaired for DO		~	10.000	ć	10.000	ć 10.000	ć 10.000	ć		ć	ć	ć	ć	ć	~	40,000
Carla	Collect and analyze surface water quality menitoring data and report annually on condition		Ş	10,000	Ş	10,000	\$ 10,000	\$ 10,000	Ş	-	ş -	ş -	\$ -	ş -	\$ -	Ş	40,000
Goal A	collect and analyze surface water quality monitoring data and report annually on condition,		¢	192 500	ć	102 500	\$ 102.500	\$ 192.500	¢ 107	500	\$ 192.500	\$ 192.500	\$ 192.500	\$ 192.500	\$ 102.500	¢	1 925 000
	Complete geomorphic assessments on the South Branch and Lower Main stem Vermillion River		Ŷ	152,500	Ş	152,500	\$ 152,500	\$ 152,500	Ş 152,	,500	\$ 152,500	\$ 152,500	\$ 152,500	\$ 152,500	\$ 152,500	Ş	1,525,000
	(Hwy 52 to Hastings).		Ś	-	Ś		\$ 25.000	s -	Ś	-	\$ 40.000	ś -	s -	ś -	s -	Ś	65.000
Public Com	nunication and Outreach		\$	221.000	\$	226.000	\$ 231,000	\$ 226.000	\$ 226.	000	\$ 221.000	\$ 226.000	\$ 226.000	\$ 221.000	\$ 221.000	\$	2.245.000
	Staff Function		\$	220,000	\$	220,000	\$ 220,000	\$ 220,000	\$ 220	,000	\$ 220,000	\$ 220,000	\$ 220,000	\$ 220,000	\$ 220,000	\$	2,200,000
	Host VRWJPO watershed tours for elected and appointed officials to highlight demonstrations of		1			,		. ,									
Goal E	innovative technology, successful water quality and quantity improvement practices, and																
	restoration activities		\$	1,000	\$	1,000	\$ 1,000	\$ 1,000	\$ 1	,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$	10,000
	Collaborate with partners on turf and fertilizer management workshops for facility managers of	Yes															
	businesses, parks, schools, and others						\$ 5,000		\$ 5	,000			\$ 5,000			\$	15,000
	Continue to promote and support workshops on ice/snow management and turfgrass																
Goal B	maintenance																
Gourb					\$	5,000		\$ 5,000				\$ 5,000				\$	15,000
	Consider facilitating a watershed- or county-wide outreach and education campaign to increase	Yes															
	awareness about the urban and rural land use contributions to nitrate contamination of																
	groundwater						\$ 5,000									\$	5,000
Goal A	Implement outreach activities identified in the WRAPS Civic Engagement Plan							•							• • • • • • • • •	Ş	-
Regulation			\$	100.000	S	100.000	\$ 100.000	S 100.000	IS 100.	000	\$ 100.000	\$ 100.000	1\$ 100,000	IS 100 000	\$ 100.000	S S	1.000.000
	Chaff Franchise		ć	100,000	÷	100,000	¢ 100,000	¢ 100,000	ć 100	000	¢ 100,000	¢ 100,000	¢ 100,000	¢ 100,000	¢ 100,000	Ψ ¢	1,000,000
Bosoarah an	Staff Function		\$	100,000	\$	100,000	\$ 100,000	\$ 100,000	\$ 100,	000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	₽ \$ €	1,000,000
Research an	Staff Function d Planning Staff Function		\$ \$ \$	100,000 10,000	\$ \$	100,000 35,000	\$ 100,000 \$ 10,000 \$ 10,000	\$ 100,000 \$ 165,000 See initial Staff	\$ 100, \$ 45,	000 000	\$ 100,000 \$ 10,000 \$ 10,000	\$ 100,000 \$ 160,000 \$ 160,000	\$ 100,000 \$ -	\$ 100,000 \$ 10,000 \$ 10,000	\$ 100,000 \$ 150,000 Son initial Staff	\$ \$	1,000,000 595,000
Research an	Staff Function d Planning Staff Function		\$ See init	100,000 10,000 itial Staff	\$ \$ See initia	100,000 35,000 al Staff	\$ 100,000 \$ 10,000 See initial Staff Function	\$ 100,000 \$ 165,000 See initial Staff Function	\$ 100, \$ 45, See initial Sta	000 000 ff	\$ 100,000 \$ 10,000 See initial Staff Euroption	\$ 100,000 \$ 160,000 See initial Staff Function	\$ 100,000 \$ - See initial Staff Euroction	\$ 100,000 \$ 10,000 See initial Staff Function	\$ 100,000 \$ 150,000 See initial Staff Function	\$ \$ \$	1,000,000 595,000
Research an	Staff Function d Planning Staff Function Propose demonstration or research projects that have the potential to protect the brown trout	Yes	\$ \$ See init Function	100,000 10,000 itial Staff on	\$ \$ See initia Function	100,000 35,000 al Staff	\$ 100,000 \$ 10,000 \$ 10,000 See initial Staff Function	\$ 100,000 \$ 165,000 See initial Staff Function	\$ 100, \$ 45, See initial Sta Function	000 000 ff F	\$ 100,000 \$ 10,000 \$ 10,000 See initial Staff Function	\$ 100,000 \$ 160,000 See initial Staff Function	\$ 100,000 \$ - See initial Staff Function	\$ 100,000 \$ 10,000 \$ 10,000 See initial Staff Function	\$ 100,000 \$ 150,000 See initial Staff Function	♀ \$ \$ \$	1,000,000 595,000
Research an	Staff Function d Planning Staff Function Propose demonstration or research projects that have the potential to protect the brown trout population from thermal impacts	Yes	\$ See init Function	100,000 10,000 itial Staff on	\$ \$ See initia Function	100,000 35,000 al Staff	\$ 100,000 \$ 10,000 \$ 10,000 See initial Staff Function	\$ 100,000 \$ 165,000 See initial Staff Function	\$ 100, \$ 45, See initial Sta Function	000 000 ff F	\$ 100,000 \$ 10,000 \$ 10,000 See initial Staff Function	\$ 100,000 \$ 160,000 See initial Staff Function	\$ 100,000 \$ - See initial Staff Function	\$ 100,000 \$ 10,000 See initial Staff Function	\$ 100,000 \$ 150,000 See initial Staff Function	\$ \$ \$	1,000,000 595,000
Research an Goal G	Staff Function d Planning Staff Function Propose demonstration or research projects that have the potential to protect the brown trout population from thermal impacts	Yes	\$ \$ See init Function	100,000 10,000 itial Staff	\$ \$ See initia Function	100,000 35,000 al Staff	\$ 100,000 \$ 10,000 See initial Staff Function	\$ 100,000 \$ 165,000 See initial Staff Function	\$ 100, \$ 45, See initial Sta Function	000 000 ff F	\$ 100,000 \$ 10,000 See initial Staff Function	\$ 100,000 \$ 160,000 See initial Staff Function	\$ 100,000 \$ - See initial Staff Function	\$ 100,000 \$ 10,000 See initial Staff Function	\$ 100,000 \$ 150,000 See initial Staff Function	\$ \$ \$ \$	1,000,000 595,000 -
Research an Goal G	Staff Function d Planning Staff Function Propose demonstration or research projects that have the potential to protect the brown trout population from thermal impacts Conduct o follow up of watershad loadewapers in 2017 (five upon offset the University of	Yes	\$ \$ See init Function	100,000 10,000 itial Staff	\$ See initia Function	100,000 35,000 al Staff	\$ 100,000 \$ 10,000 See initial Staff Function	\$ 100,000 \$ 165,000 See initial Staff Function \$ 150,000	\$ 100, \$ 45 , See initial Sta Function	0000 000 ff F F	\$ 100,000 \$ 10,000 See initial Staff Function	\$ 100,000 \$ 160,000 See initial Staff Function \$ 150,000	\$ 100,000 \$ - See initial Staff Function	\$ 100,000 \$ 100,000 \$ \$ 100,000 \$ \$ 100,000 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ 100,000 \$ 150,000 See initial Staff Function \$ 150,000	\$ \$ \$ \$ \$	1,000,000 595,000 - 450,000
Research an Goal G Goal E	Staff Function d Planning Staff Function Propose demonstration or research projects that have the potential to protect the brown trout population from thermal impacts Conduct a follow-up of watershed landowners in 2017 (five years after the University of Minnesota surger)	Yes	\$ \$ See init Function	100,000 10,000 itial Staff on	\$ See initia Function	100,000 35,000 al Staff	\$ 100,000 \$ 10,000 See initial Staff Function	\$ 100,000 \$ 165,000 See initial Staff Function \$ 150,000 \$	\$ 100, \$ 45, See initial Sta Function	000 000 ff F	\$ 100,000 \$ 10,000 \$ 10,000 \$ Function	\$ 100,000 \$ 160,000 \$ 160,000 \$ 160,000 \$ 150,000	\$ 100,000 \$ - See initial Staff Function	\$ 100,000 \$ 100,000 See initial Staff Function	\$ 100,000 \$ 150,000 \$ 150,000 \$ 150,000 \$ 150,000 \$ 150,000	\$ \$ \$ \$ \$	1,000,000 595,000 - 450,000
Research an Goal G Goal E	Staff Function d Planning Staff Function Propose demonstration or research projects that have the potential to protect the brown trout population from thermal impacts Conduct a follow-up of watershed landowners in 2017 (five years after the University of Minnesota survey). Coardinate agencies to monitor condition and trends in groundwater levels and	Yes	\$ See init Function \$	100,000 10,000 itial Staff on	\$ See initia Function	100,000 35,000 al Staff 10,000	\$ 100,000 \$ 10,000 \$ 10,000 See initial Staff Function \$ -	\$ 100,000 \$ 165,000 See initial Staff Function \$ 150,000 \$ -	\$ 100, \$ 45, See initial Sta Function \$	000 000 Fff F	\$ 100,000 \$ 10,000 \$ 10,000 \$ 10,000 \$ 10,000 \$ 10,000 \$ 10,000 \$ 10,000 \$ 10,000 \$ 10,000 \$ 10,000 \$ 10,000 \$ -	\$ 100,000 \$ 160,000 \$ 160,000 \$ 150,000 \$ 150,000 \$ -	\$ 100,000 \$ - See initial Staff Function	\$ 100,000 \$ 100,000 \$ 10,000 See initial Staff Function \$ -	\$ 100,000 \$ 150,000 \$ 150,000 \$ 150,000 \$ 150,000 \$ 150,000	\$ \$ \$ \$ \$ \$	1,000,000 595,000 - 450,000 10,000
Research an Goal G Goal E	Staff Function d Planning Staff Function Propose demonstration or research projects that have the potential to protect the brown trout population from thermal impacts Conduct a follow-up of watershed landowners in 2017 (five years after the University of Minnesota survey). Coordinate with other agencies to monitor condition and trends in groundwater levels and contaminant concentrations	Yes	\$ See init Function \$	100,000 10,000 itial Staff on	\$ See initia Function \$	100,000 35,000 al Staff 10,000	\$ 100,000 \$ 10,000 \$ 10,000 See initial Staff Function \$ -	\$ 100,000 \$ 165,000 See initial Staff Function \$ 150,000 \$ -	\$ 100; \$ 45; See initial Sta Function \$	000 000 Ff F	\$ 100,000 \$ 10,000 \$ 10,000 See initial Staff Function \$ -	\$ 100,000 \$ 160,000 \$ 160,000 See initial Staff Function \$ 150,000 \$ -	\$ 100,000 \$ - See initial Staff Function \$ -	\$ 100,000 \$ 10,000 \$ 10,000 See initial Staff Function \$ -	\$ 100,000 \$ 150,000 \$ 150,000 See initial Staff Function \$ 150,000 \$ 150,000	\$ \$ \$ \$ \$	1,000,000 595,000 - 450,000 10,000
Research an Goal G Goal E Goal B	Staff Function d Planning Staff Function Propose demonstration or research projects that have the potential to protect the brown trout population from thermal impacts Conduct a follow-up of watershed landowners in 2017 (five years after the University of Minnesota survey). Coordinate with other agencies to monitor condition and trends in groundwater levels and contaminant concentrations	Yes	\$ \$ See init Function \$ \$	100,000 10,000 itial Staff on	\$ See initia Function \$	100,000 35,000 al Staff 10,000	\$ 100,000 \$ 10,000 \$ 10,000 See initial Staff Function \$ -	\$ 100,000 \$ 165,000 See initial Staff Function \$ 150,000 \$ -	\$ 100, \$ 45, See initial Sta Function \$	000 FFF FFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	\$ 100,000 \$ 10,000 \$ 10,000 See initial Staff Function \$ -	\$ 100,000 \$ 160,000 \$ 160,000 See initial Staff Function \$ 150,000 \$ -	\$ 100,000 \$ - See initial Staff Function \$ -	\$ 100,000 \$ 10,000 \$ e initial Staff Function \$ -	\$ 100,000 \$ 150,000 \$ 150,000 See initial Staff Function \$ 150,000 \$ 150,000	\$ \$ \$ \$ \$	1,000,000 595,000 - 450,000 10,000
Research an Goal G Goal E Goal B	Staff Function d Planning Staff Function Propose demonstration or research projects that have the potential to protect the brown trout population from thermal impacts Conduct a follow-up of watershed landowners in 2017 (five years after the University of Minnesota survey). Coordinate with other agencies to monitor condition and trends in groundwater levels and contaminant concentrations	Yes	\$ See init Function \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	100,000 10,000 itial Staff on - 10,000	\$ See initia Function \$	100,000 35,000 al Staff 10,000	\$ 100,000 \$ 100,000 \$ 10,000 See initial Staff Function \$ - \$ 10,000	\$ 100,000 \$ 165,000 See initial Staff Function \$ 150,000 \$ -	\$ 100, \$ 45, See initial Sta Function \$ \$ \$ 10, \$	000 FFF FFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	\$ 100,000 \$ 10,000 \$ 10,000 See initial Staff Function \$ -	\$ 100,000 \$ 160,000 \$ 160,000 See initial Staff Function \$ 150,000 \$ - \$ 10,000	\$ 100,000 \$ - See initial Staff Function \$ -	\$ 100,000 \$ 10,000 \$ e initial Staff Function \$ \$ 10,000	\$ 100,000 \$ 150,000 \$ 150,000 \$ 150,000 \$ 150,000 \$ -	\$ \$ \$ \$ \$ \$ \$ \$	1,000,000 595,000 - 450,000 10,000 50,000
Research an Goal G Goal E Goal B	Staff Function d Planning Staff Function Propose demonstration or research projects that have the potential to protect the brown trout population from thermal impacts Conduct a follow-up of watershed landowners in 2017 (five years after the University of Minnesota survey). Coordinate with other agencies to monitor condition and trends in groundwater levels and contaminant concentrations Evaluate need for new Watershed Standards on aggregate mining, if research shows potential	Yes Yes	\$ See init Function \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	100,000 10,000 itial Staff on - 10,000	\$ \$ See initial Function \$	100,000 35,000 al Staff 10,000	\$ 100,000 \$ 10,000 \$ 10,000 \$ 10,000 \$ 10,000 \$ - \$ 10,000	\$ 100,000 \$ 165,000 See initial Staff Function \$ 150,000 \$ -	\$ 100, \$ 45, See initial Sta Function \$ \$ \$ 10, \$	000 F 000 F F - ,000 F -	\$ 100,000 \$ 10,000 \$ 10,000 See initial Staff Function \$ -	\$ 100,000 \$ 160,000 \$ 160,000 \$ 160,000 \$ 150,000 \$ - \$ 150,000 \$ -	\$ 100,000 \$ - See initial Staff Function \$ -	\$ 10,000 \$ 10,000 \$ e initial Staff Function \$ \$ 10,000	\$ 100,000 \$ 150,000 \$ 150,000 \$ 150,000 \$ 150,000 \$ -	• • · · · · · · · · · · · · · · · · · · · · · · · ·	1,000,000 595,000 - 450,000 10,000 50,000
Research an Goal G Goal E Goal B	Staff Function d Planning Staff Function Propose demonstration or research projects that have the potential to protect the brown trout population from thermal impacts Conduct a follow-up of watershed landowners in 2017 (five years after the University of Minnesota survey). Coordinate with other agencies to monitor condition and trends in groundwater levels and contaminant concentrations Evaluate need for new Watershed Standards on aggregate mining, if research shows potential water resource impacts	Yes Yes	\$ See init Function \$ \$ \$	100,000 10,000 itial Staff n - 10,000 -	\$ \$ See initial Function \$ \$	100,000 35,000 al Staff 10,000 25,000	\$ 100,000 \$ 10,000 \$ 10,000 \$ - \$ - \$ 10,000 \$ -	\$ 100,000 \$ 165,000 See initial Staff Function \$ 150,000 \$ - \$ -	\$ 100, \$ 45, See initial Sta Function \$ \$ 10, \$	000 F 000 F F - ,000 F -	\$ 100,000 \$ 10,000 \$ 10,000 \$ 10,000 \$ 10,000 \$ 10,000 \$ - \$ - \$ -	\$ 100,000 \$ 160,000 \$ 160,000 \$ 160,000 \$ 150,000 \$ - \$ 150,000 \$ - \$ 10,000 \$ -	\$ 100,000 \$ - See initial Staff Function \$ - \$ - \$ -	\$ 10,000 \$ 10,000 \$ 10,000 \$ enitial Staff Function \$ - \$ 10,000 \$ - \$ 10,000 \$ -	\$ 100,000 \$ 150,000 See initial Staff Function \$ 150,000 \$ - \$ -	• • · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · ·	1,000,000 595,000 - 450,000 10,000 50,000 25,000
Research an Goal G Goal E Goal B	Staff Function d Planning Staff Function Propose demonstration or research projects that have the potential to protect the brown trout population from thermal impacts Conduct a follow-up of watershed landowners in 2017 (five years after the University of Minnesota survey). Coordinate with other agencies to monitor condition and trends in groundwater levels and contaminant concentrations Evaluate need for new Watershed Standards on aggregate mining, if research shows potential water resource impacts Review existing research on aggregate mining impacts on water and groundwater, in conditions	Yes Yes Yes	\$ \$ \$ See init Function \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	100,000 10,000 itial Staff on - 10,000	\$ \$ See initia Function \$ \$	100,000 35,000 al Staff 10,000 25,000	\$ 100,000 \$ 10,000 \$ 10,000 \$ - \$ - \$ 10,000 \$ -	\$ 100,000 \$ 165,000 See initial Staff Function \$ 150,000 \$ - \$ -	\$ 100, \$ 45, See initial Sta Function \$ \$ 10, \$	000 0 000 7 ff 7 	\$ 100,000 \$ 10,000 \$ 10,000 \$ 10,000 \$ 10,000 \$ 10,000 \$ \$ 10,000 \$ \$ 10,000 \$ \$ - \$ -	\$ 100,000 \$ 160,000 \$ 160,000 \$ 160,000 \$ 150,000 \$ 150,000 \$ - \$ 10,000 \$ -	\$ 100,000 \$ 100,000 \$ - See initial Staff Function \$ - \$ - \$ -	\$ 10,000 \$ 10,000 \$ 10,000 \$ enitial Staff Function \$ - \$ 10,000 \$ - \$ 10,000 \$ -	\$ 100,000 \$ 150,000 \$ 150,000 \$ 150,000 \$ 150,000 \$ - \$ 150,000 \$ -	\$ \$	1,000,000 595,000 - 450,000 10,000 50,000 25,000
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