Lower Minnesota River Corridor Management Plan



Lower Minnesota River Watershed District

Revision 0 2022

Lower Minnesota River Corridor Management Plan

prepared for

Lower Minnesota River Watershed District Chaska, Minnesota

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prepared by



Young Environmental Consulting Group, LLC

www.youngecg.com Brooklyn Center, Minnesota

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LIST OF ABBREVIATIONS

Abbreviation	Term/Phrase/Name
ADA	American Disabilities Act
BMP	Best Management Practice
BWSR	Board of Water and Soil Resources
CIP	Capital Improvement Plan
LMRWD	Lower Minnesota River Watershed District
MDH	Minnesota Department of Health
MNDNR	Minnesota Department of Natural Resources
MPCA	Minnesota Pollution Control Agency
PCBs	Polychlorinated Biphenyls
TMDL	Total Maximum Daily Load
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service
WD	Watershed District
WMO	Watershed Management Organization

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This plan would not have been possible without the support and partnership of agencies, organizations, and other stakeholders who are vested in the future of the Lower Minnesota River. We extend sincere appreciation to the following organizations (in alphabetical order) for their contributions to this plan.

- Board of Soil and Water Resources
- Carver Soil and Water Conservation District
- City of Bloomington
- City of Carver
- City of Chanhassen
- City of Eagan
- City of Eden Prairie
- City of Mendota Heights
- City of Savage
- City of Shakopee
- Dakota County
- Isaac Walton League of America, Minnesota Valley Chapter
- Lower Minnesota River Watershed District Board of Managers, Citizen Advisory Committee, and staff
- Metropolitan Council
- Minnesota Pollution Control Agency
- Scott County
- Shakopee Mdewakanton Sioux Community
- Riley-Purgatory Bluff Creek Watershed District
- Three Rivers Park District

1.0 PLAN INTRODUCTION, PURPOSE, AND SCOPE

The Lower Minnesota River and its watershed are unlike any other. The Lower Minnesota River corridor is dynamic, offering a vital ecosystem for many species both in the river and on land while also supplying water for recreation, growing crops, manufacturing, energy, and transport. From recreation to agriculture and development, the corridor and the way it is managed have a direct impact on people's lives and the overall integrity of the river system.

Upstream pressures result in many impacts seen in the Lower Minnesota River watershed. These pressures result in a decrease in water quality, an increase in flooding, the loss of wetlands, and continuous change in the landscape. The Lower Minnesota River Watershed District is situated downstream of the Minnesota River and therefore has been experiencing a significant impact on water quality at the watershed caused by the negative effects of the upstream pressures.

As threats to the future of the river and its water quality continue, the district is working to develop coordinated efforts with its partners to reduce the negative impacts and search for opportunities inside and outside its boundaries to mitigate those effects. The district and its partners are committed to developing a vision to be implemented through this plan to recover aquatic biodiversity, restore the natural river system and floodplain, and clean up polluted waters for people and nature to thrive.

1.1 Purpose, Scope, and Organization

Minnesota's history and environmental policies, as well as several programs designed to improve fishability and swimming activities, have led to the development of the Lower Minnesota River Corridor Management Plan. Furthermore, when actions are taken by the district or its partners, they should be informed by existing conditions and plans. This plan ensures that these actions are coordinated with others' activities to minimize conflicts and promote efficiencies of time and costs.

Our purpose in building this management plan is to create a shared vision and framework with stakeholders and describe how to achieve this vision. The Lower Minnesota River Corridor Management Plan focuses on the Lower Minnesota River within the Lower Minnesota River Watershed District from the confluence of the Minnesota and Mississippi Rivers upstream to Carver, Minnesota, and the adjoining lands to the river as shown in Figure 1-1.

Figure 1-1: LMRWD Corridor Management Plan Scope of the Lower Minnesota River Corridor Management Plan



Although the plan concentrates on the Lower Minnesota River Watershed, it is important to recognize that substantial water quality improvements depend on complete and integrated watershed approaches. Therefore, the scope of this plan extends beyond the district's boundary to include the Lower Minnesota River Watershed and the Minnesota River in its entirety. The district recognizes that legislative action may be required to support the initiatives defined in this plan that are outside the watershed district boundary. Regardless of boundary lines, the district seeks to build this vision through cooperation and collaboration with those directly and indirectly affected by the river.

The river is a complex natural system and a shared resource where varied interests such as recreation and commerce converge. The intended outcome of the plan is the development of a shared vision between the district and state, regional, and local public entities for maximizing public benefits, including the following:

- Identification of shared public values that form the basis of the project.
- Engagement and support from the stakeholders about the opportunities the development of the corridor management plan can provide.
- Creation of a greater understanding of the Lower Minnesota River Corridor and its landscape.
- Description of a desired future for the river and discussion of how change in the surrounding landscape can help attain this future.
- A structure or framework for implementing the vision.
- Methods to resolve conflicts between human investments and river dynamics in the most economically and ecologically sustainable manner.

The result of this work will be a multipurpose plan that will serve as a guiding document among political jurisdictions and agencies. The plan will help stakeholders to create a new foundation for cooperation and strategic financial investments that can provide multiple benefits.

1.2 Relationships to Other Plans

One of the first steps in identifying the common issues among stakeholders within the Lower Minnesota River Corridor was to develop an understanding of the relationships among the current planning documents. We compiled and reviewed comprehensive, natural resources, and local surface water management plans, as well as any other plans that reference water resources from the cities, counties, watershed districts, and watershed management organizations along the corridor. We identified the information from relevant data sources within the Lower Minnesota River Corridor. We did not review any data sources from before 2010 unless they were still relevant. Once we reviewed the relevant data, we

extracted all issues, goals, strategies, policies, projects, and capital improvement plans (CIPs) related to the Lower Minnesota River or waterbodies and areas that could impact the river. The extracted data were then reviewed and synthesized into a data synthesis matrix (Appendix A).

Throughout the review of this information, common themes began to emerge, and we prioritized them in every source we researched. These common themes include people, water, funding, infrastructure, and threats, and they are defined below:

People

People refers to how humans can influence the management, placement, and displacement of water resources, funding, infrastructure construction and maintenance, and response to threats on the corridor.

Water

Water refers to all natural water resources and involves the management of water quality and quantity, erosion control, resource protection, smart land use decisions, stormwater reuse, and the protection and restoration of natural water systems that affect the Minnesota River Corridor.

Funding

Funding refers to local financial resources that can be leveraged to undertake projects that have the potential to preserve, protect, and restore water and natural resources within the lower Minnesota River Corridor. Without appropriate funding, many of the projects and initiatives needed to make noticeable differences will not be feasible.

Infrastructure

Infrastructure refers to anything municipalities do to support the sustainable functionality of their communities. This can be carried out through proper land use management, incorporating best management practices for new and redevelopment projects, looking for opportunities to prevent new and correct past drainage issues, and ensuring that storm sewer systems are properly operated and maintained.

Threats

Threats refer to the natural and anthropogenic effects on infrastructure, property, and water and natural resources throughout the lower Minnesota River Corridor. As weather patterns change, the need to address threats becomes more urgent.

Recognizing these significant shared themes among stakeholders, as presented in planning documents, and the district, Lower Minnesota River stakeholders began building the vision and framework for the plan. The five themes and the initial process of building the vision and framework are explored further in *Section 3. Stakeholder Engagement.*

2.0 CORRIDOR CONDITIONS

The Lower Minnesota River Corridor has a unique past that weaves together geology, ecology, biology, and human history and has shaped the culture and society around the river that we know today. The following section will characterize the Lower Minnesota River's history and provide an overview of the key issues that prompted the creation of this plan.

2.1 Characterizing the Lower Minnesota River Watershed

The Lower Minnesota River Watershed entails 1,835 square miles of Southeast Central Minnesota, making it the twelfth largest Hydrologic Unit Codes-8 (HUC-8) watershed within the state (Minnesota Pollution Control Agency, 2017a). The segment of river within the watershed extends 87 miles from East Central Renville County to Southwestern Ramsey County area, where the Lower Minnesota River intersects with the Mississippi River in the city of St. Paul. The watershed includes roughly 120 square miles of lakes and approximately 2,482 miles of water flowing from tributaries, including agricultural ditches, streams, and rivers (Minnesota Pollution Control Agency, 2017a). Within the Lower Minnesota River Watershed, the district encompasses the most downstream 80 square miles of the river basin (Lower Minnesota River Watershed District, 2018) as shown in Figure 2-1.





The watershed encompasses a diverse cross-section of land use, public values, local funding, and active local government units. The Western portion of the watershed is predominantly row crop agriculture transitioning to urban residential sprawl and industrial development, with most of this property being privately owned. Population densities vary drastically from West to East. Populations are projected to grow in the metro counties, requiring both additional housing to be built and land to be transitioned from agriculture (Minnesota Pollution Control Agency, 2017a).

2.2 Water Quality

According to the Metropolitan Council, the overall water quality of the Minnesota River is poor in comparison to other rivers in the region (Metropolitan Council, 2018). The following sections outline the history of the river and the origin of some of the current challenges the Lower Minnesota River faces.

2.2.1 Historic Land Use Patterns and Water Quality Conditions

The Minnesota River Watershed was formed during several periods of glaciation. During these glaciation periods, glacial till, the material scraped and carried by the ice, was deposited in distinct layers. As the glaciers receded, a large portion of northwestern Minnesota and other parts of the continent were covered by Lake Agassiz, which was larger than all the Great Lakes combined. As Lake Agassiz drained, it created multiple outlets. One of these outlets is named Glacial River Warren, and it carved out and created the very wide and deep channel of the Minnesota River valley (Minnesota River Basin Data Center, 2004).

After Lake Agassiz stopped flowing into Glacial River Warren, the headwaters of the Minnesota River became the Little Minnesota River with its headwaters near Veblen, South Dakota, on the border between Minnesota and South Dakota. The Minnesota River then flows into Big Stone Lake where it outlets continue flowing southeasterly through rich wetlands, prairies, granite outcroppings, wooded hills, farm fields, and various cities to Mankato. From Mankato it flows northeast toward its confluence with the Mississippi River in St. Paul, Minnesota (Minnesota River Basin Data Center, 2004). As the river meanders across the Minnesota River valley, it creates a large floodplain that is bordered by terraces of rock, sand, and gravel. Over the thousands of years since Lake Agassiz drained, the high terraces have been rounded off and affected by erosion. The subsequent evolution of the river created the existing floodplains, forests, and wetlands that exist today (Minnesota River Basin Data Center, 2004)

2.2.2 Agricultural Impacts

The rich prairie soils deposited in the Minnesota River watershed provided ideal soils for crop production on lands that were traditionally grasslands and wetlands. For this reason, agriculture has historically been and remains one of Minnesota's major industries. Agriculture is an integral part of modern society, providing raw materials that are needed in manufacturing and a food system that can remain with the local economy because the produce is locally produced. Minnesota achieved its peak in cultivated farmland in 1945. Increased demand for food after World War II resulted in massive agricultural drainage projects to create more cropland, and commercial fertilizers and pesticides were introduced to boost yields (Minnesota River Basin Data Center, 2011). From about 1951–1961, the Minnesota River 2011).

Today, the Lower Minnesota River basin includes a dramatic transition from row-crop agriculture in the west to sprawling suburban residential communities and urban industry in the east (Figure 2-2; Minnesota Pollution Control Agency, 2017a).





Over 80% of the Minnesota River basin is used for agriculture (Minnesota Pollution Control Agency, 2017b). Some agricultural lands remain within the district, but they are amid the growing Twin Cities Metropolitan Area.

Rural agriculture has impacted the Minnesota River by carrying fertilizer, eroded soil particles, pesticides, nutrients, and bacteria from treated fields and animal feedlots. The drain tile and ditches have rapidly conveyed water and field runoff to the river (Metropolitan Council, 2018). Groundwater use for irrigation can also influence the river because the river and its tributary streams are supplied by groundwater discharge.

2.2.3 Development Impacts

The western portion of the watershed originally contained tail grass and wet prairies, and the eastern portion comprised the "Big Woods" of oak, maple, basswood, and hickory (Minnesota Pollution Control

Agency, 2017a). However, in 1852, the Treaty of Traverse de Sioux introduced Minnesota to settlement by Europeans, displacing the indigenous Dakota tribe (Minnesota Pollution Control Agency, 2017a).

The Minnesota River experienced steamboat travel during the 1860s, followed by the construction of bridges (Minnesota River Data Center, 2011). During this time, the Minnesota River experienced historic flooding, destroying bridges and making steamboat travel difficult (Minnesota River Data Center, 2011). At about the same time, the Minnesota River was starting to see impacts on its natural waters.

Industrial prosperity began in the 1930s. Some of the businesses included what is now known as *Green Giant*, a vegetable-canning industry (Minnesota River Data Center, 2011). Another business included taking the mussels from the river to make buttons and cement (Minnesota River Data Center, 2011). The Minnesota River saw increased pollution from these industrial uses, and significant damage was caused by land and water practices occurring along the river system.

There are few elements in the current landscape of the corridor that have not been altered by agriculture and urban development. Within the current urban areas of the corridor, previously vegetated areas are being converted into impervious surfaces (e.g., roads, roofs, parking lots, etc.), resulting in increased runoff rates (Lower Minnesota River Watershed District, 2018). Potential issues resulting from the impact of stormwater runoff on water quality include the introduction of toxic pollutants, reductions in water quality and clarity, negative impacts on wildlife habitat, and wildlife injury or death (Lower Minnesota River Watershed District, 2018).

2.2.4 **Pollution and Impairments**

The earliest known pollution in the river stems back to the 1860s (Minnesota River Basin Data Center, 2011). During this time, when water-borne traffic was increasing along with changes in land use and dumping activities, pollution in the river was notable (Minnesota River Basin Data Center, 2011). A number of federal regulations were enacted and implemented to regulate dumping and point sources into navigable waters because of the amount of pollution in public waters caused by these practices

As industry and development expanded in the years following these regulations, the water quality of the Minnesota River continued to decline. Routine water quality monitoring within the Minnesota River began in the 1970s (Minnesota River Basin Data Center, 2011). By 1975, a fish consumption advisory was in place for the Minnesota River because of elevated PCBs (Minnesota River Basin Data Center, 2011). In 1985, the river's low dissolved oxygen was identified as a problem because of elevated sediment and nutrient loading (Minnesota River Basin Data Center, 2011). Presently, the river is impaired

by fecal coliform, dissolved oxygen, mercury in fish tissue and the water column, nutrients, PCB in fish tissue, and turbidity (Minnesota Pollution Control Agency, 2017a).

The Minnesota River is not the only impaired waterbody within the corridor. According to the Minnesota Pollution Control Agency's (MPCA) monitoring assessment report (2017a), violations of state water quality standards are common. Several waterbodies within the district are currently on the MPCA's list of impaired waters. Lakes and streams on the list do not meet federal water quality standards for designated uses. For each waterbody on the list, the MPCA is required to conduct a study to determine the allowable total maximum daily load (TMDL) for each pollutant that exceeds the standards. Impaired waters within the district are summarized in Table 2-1.

Impaired Water	Affected Use	Pollutant or Stressor
Minnesota River	Aquatic Recreation	Fecal Coliform
Minnesota River	Aquatic Life	Dissolved oxygen
Minnesota River	Aquatic Consumption	Mercury in Fish Tissue
Minnesota River	Aquatic Consumption	Mercury in the Water Column
Minnesota River	Aquatic Recreation	Nutrients
Minnesota River	Aquatic Consumption	PCB in Fish Tissue
Minnesota River	Aquatic Life	Turbidity
Dean Lake	Aquatic Recreation	Nutrients
Snelling Lake	Aquatic Consumption	Mercury in Fish Tissue
Bluff Creek	Aquatic Life	Fish and Biological Assessments
Bluff Creek	Aquatic Life	Turbidity
Nine Mile Creek	Aquatic Life	Chloride
Nine Mile Creek	Aquatic Life	Fish and Biological Assessments
Nine Mile Creek	Aquatic Recreation	E. Coli
Riley Creek	Aquatic Life	Turbidity
Riley Creek	Aquatic Recreation	E. Coli
Riley Creek	Aquatic Life	Fish and Biological Assessments
Purgatory Creek	Aquatic Recreation	Escherichia coli
Purgatory Creek	Aquatic Life	Fish and Biological Assessments
Credit River	Aquatic Life	Chloride
Credit River	Aquatic Recreation	Escherichia coli
Credit River	Aquatic Life	Fish and Biological Assessments
Unnamed Creek	Aquatic Recreation	Fecal Coliform
Carver Creek	Aquatic Recreation	Fecal Coliform

 Table 2-1: Impaired Waters in the Lower Minnesota River Watershed District

Impaired Water	Affected Use	Pollutant or Stressor
Carver Creek	Aquatic Life	Turbidity
Carver Creek	Aquatic Life	Fish and Biological Assessments
Carver Creek	Aquatic Life	Nutrients
Chaska Creek	Aquatic Recreation	Fecal Coliform
East Creek	Aquatic Life	Turbidity
East Creek	Aquatic Recreation	Fecal Coliform
East Creek	Aquatic Life	Chloride
East Creek	Aquatic Life	Fish and Biological Assessments
Sand Creek	Aquatic Life	Turbidity
Sand Creek	Aquatic Life	Fish and Biological Assessments
Sand Creek	Aquatic Life	Nutrients
Assumption Creek	Aquatic Life	Fishes Bioassessments

Impaired waters are also represented in Figure 2-3.





In the heavily agricultural setting of the Minnesota River Watershed, the tilled soils are more susceptible to erosion, which likely contributes to the higher evels of pollutants in the river (Metropolitan Council, 2018). Closer to the urbanized cities of Minneapolis and St. Paul, bacteria and chloride levels have been notably higher at Fort Snelling, and these contaminants are typically linked to pollution from developed areas (Metropolitan Council, 2018).

2.2.5 Decision Making on Individual Properties and Water Quality

The actions taken by decision-makers, whether they reduce or compound pollution concerns, make up another factor that affects the Lower Minnesota River's water quality. Approximately 65 percent of the corridor land is privately owned. It is important to recognize that private land ownership and the complex set of issues that can meld on a single property may ultimately contribute pollution to the Lower Minnesota River. For example, invasive plant species like buckthorn can crowd out native or desirable vegetation, degrade wildlife habitat, and contribute to erosion (Minnesota Department of Natural Resources, n.d.). Buckthorn does not have a natural control to curb its growth, so it spreads easily and can increase erosion and sedimentation to waterbodies, thus negatively impacting water quality (Minnesota Department of Natural Resources, n.d.).

2.3 Natural Areas and Habitat

Natural resources in the LMRWD serve many purposes, and the resources that remain in their natural condition are protected mostly within the corridor along the Minnesota River Valley.

2.3.1 Corridor Habitat Conditions

There are approximately 14,000 acres of existing wildlife refuges, parks, trails, and open space along the Minnesota River corridor that are managed by the Minnesota Valley National Wildlife Refuge (NWR; Lower Minnesota River Watershed District, 2018). The Minnesota Valley NWR was established through the efforts of local citizen groups to protect the Lower Minnesota River valley (Lower Minnesota River Watershed District, 2018).

The Minnesota Valley NWR covers 70 miles along the Minnesota River from Henderson to Bloomington, bordering the Minnesota River and providing critical habitat to migratory waterfowl and wildlife, as well as recreational opportunities for outdoor enthusiasts (Figures 2-4).



Figure 2-4: LMRWD Corridor Management Plan Minnesota River Valley National Wildlife Refuge

2.3.2 Adjoining Habitat

Beyond the Lower Minnesota River, the adjoining habitat contains several tributary streams, lakes, and wetlands (Figure 2-5). The Minnesota Department of Natural Resources (MNDNR) has designated some of the lake and stream resources as trout habitats because they provide a consistent supply of cold, oxygenated water, shade, and adequate nutrient inputs (Lower Minnesota River Watershed District, 2018).





Many of the tributary streams enter the corridor from outside the LMRWD boundary. However, both urbanization and agricultural practices have caused water quality issues, such as erosion and sedimentation, in these streams (Lower Minnesota River Watershed District, 2018).

Many of the wetlands within the corridor are in the Minnesota River floodplain. As flooding occurs along the river, the floodwater may introduce river-associated pollutants to these natural ponding areas (Lower Minnesota River Watershed District, 2018). The wetlands also face development pressures, which could result in further degradation (Lower Minnesota River Watershed District, 2018).

Some of the wetlands within the district are calcareous fens, which require specific hydrologic and chemical conditions. The MNDNR designated the Seminary and Savage Fens as scientific and natural areas because of the uniqueness of the native plants and animals that thrive in these features. Many factors threaten the health of calcareous fens, including changing groundwater conditions, stormwater runoff,

sedimentation, and invasive plants (Lower Minnesota River Watershed District, 2018). These fens are highly dependent on the quantity, quality, and management of the groundwater that feeds them and on the control of invasive species. Because they are so dependent on groundwater discharge, it is important to understand the subsurface hydrology and demarcation of recharge areas in the calcareous fens. (Lower Minnesota River Watershed District, 2018).

2.3.3 Aquatic Habitat

Because of its threatened status, the Minnesota River does not support healthy aquatic habitat (Minnesota Pollution Control Agency, 2017b). The influx of sediment and nutrients has threatened populations of fish, insects, and mussels. Monitoring the numbers and types of aquatic insects and other organisms shows that the river cannot support healthy populations (Minnesota Pollution Control Agency, 2017b). The variable flows and unstable channel create conditions that are unfavorable for more immobile organisms, like aquatic insects and mussels (Minnesota Pollution Control Agency, 2017b).

2.4 Current Land Use and Urban Development

The following sections outline current and planned land use information that guides zoning and subsequent land use decisions within the corridor.

2.4.1 Current and Planned Use

The Lower Minnesota River Valley corridor presently includes diverse land use patterns, including commercial, industrial, residential, institutional, mixed-use development, agricultural and farmland, and parks and green space. Current land use data from 2020 is represented in Figure 2-6. The corridor is within a developing metropolitan area, and adjacent lands are highly desirable for development. Available open space is primarily public land and is located in the Minnesota River's floodplain. The remaining parks and open spaces are managed locally by counties and municipalities in the region.





Considering current and planned land use, land usage should remain stable for the next 20 years. Most land use changes will take place south of the Minnesota River, where agricultural and forested lands are expected to shift to single family development, which has the potential to affect the corridor's natural resources. Planned land use information for the year 2040 is shown in Figure 2-7.





2.5 Recreational Opportunities

The corridor offers many natural amenities that provide recreational opportunities for various audiences. The following section describes some of the available recreational opportunities within the corridor.

2.5.1 Parks and Trails in the Corridor

Open space is mainly located in and along the Minnesota River's floodplain and consists almost entirely of public lands, which are administered federally by the United States Fish and Wildlife Service in the Minnesota Valley NWR (Lower Minnesota River Watershed District, 2018). The MNDNR manages the parks and opens spaces in the Minnesota Valley State Recreation Area and Fort Snelling State Park and scientific and natural areas at the state level.

One of the notable trail segments within the corridor includes the Minnesota Valley Trail. The Minnesota Valley Trail was authorized by the state legislature in 1969. Federal legislation entitled *The Minnesota*

Valley National Wildlife Refuge Act of 1976 declared that the congressional policy would preserve the Minnesota River Valley and, as a federal action, establish the 9,500-acre Minnesota Valley National Wildlife Refuge plus an adjacent 8,000-acre wildlife recreation area (Lower Minnesota River Watershed District, 2018). Most of this area is within the district's boundary. The DNR Division of Parks and Recreation manages the state trail. Management objectives are to develop an accessible, scenic, and recreational travel route between Fort Snelling State Park and Le Sueur (Lower Minnesota River Watershed District, 2018). This trail links with other metro area trails to provide hiking, biking, horseback riding, snowmobiling, and cross-country skiing opportunities for recreational users (Lower Minnesota River Minnesota River Watershed District, 2018).

Localized flooding often impairs access to facilities along the Minnesota River. When flooding occurs, it can overwhelm boat landings, parks, and trails, creating damaged trails and unsafe fishing and boating (Lower Minnesota River Watershed District, 2018).

The trail network within the corridor is depicted in Figure 2-8.



Figure 2-8: LMRWD Corridor Management Plan Public Trails

2.5.2 In-River Recreation

Both private pleasure craft and commercial traffic navigate the Minnesota River within the district. Recreational activities include fishing and the use of pleasure boats, canoes, and personal watercraft (Lower Minnesota River Watershed District, 2018). However, safety and access constraints can limit recreational users' ability to interact with the river. For example, safety can become a concern when commercial and recreational users intersect. Recreational access can be limited by the number of access points (Figure 2-9; Lower Minnesota River Watershed District, 2018). Finally, though the river offers excellent fishing opportunities, anglers should consult the fish consumption advisories from the Minnesota Department of Health before eating fish from the Lower Minnesota River (Minnesota Pollution Control Agency, 2017a).



Figure 2-9: LMRWD Corridor Management Plan Public Access Points

2.6 Coordination and Management in the Corridor

Several agencies and organizations are tasked with protecting the river and the surrounding landscape, as well as improving water quality within the corridor. The following agencies may have a jurisdictional role in the implementation of this plan.

2.6.1 Public Agencies and Roles

Within the corridor, there are many public agencies that are active, including the following agencies:

2.6.1.1 Local

Cities: Cities have broad powers and are responsible for developing comprehensive plans and operating ordinances addressing erosion and sediment control, stormwater runoff quality and volume, grading, and zoning.

Counties: Counties are the administrative arms of the state and carry out certain mandates. They can also administer land use controls in areas outside of cities.

Soil and Water Conservation District: Soil and water conservation district boundaries follow the county lines. They are primarily responsible for soil information, maps of agricultural land, and wetland mapping. They often coordinate with cities and counties for special improvement projects, like drainage and flood control, and work with landowners on various conservation projects.

Townships: Townships govern land mostly outside of cities and can either retain land use control or delegate this authority to the county in which they reside. Like cities, townships can also develop plans and operate ordinances.

2.6.1.2 State

Board of Water and Soil Resources (BWSR): BWSR seeks to improve and protect Minnesota's water and soil resources by working collaboratively with local organizations and private landowners. Their primary tasks include implementation of the state's soil and water conservation policies, comprehensive local water management plans, and the Wetland Conservation Act. BWSR is also the administrative agency for soil and water conservation districts, watershed districts, metropolitan watershed management organizations, and county water managers in Minnesota.

Metropolitan Council: The Metropolitan Council collects and treats wastewater, and they play an important role in metropolitan-area water quality monitoring and reporting, providing regional surface water planning and other plan reviews for watershed plans, funding for regional parks and trails, etc.

Minnesota Department of Health (DOH) – The Minnesota DOH is responsible for protecting drinking water and groundwater, and overseeing groundwater well construction, permitting, and maintenance. They are also instrumental in determining fish consumption advisories for the state's water resources.

Minnesota Department of Natural Resources (MNDNR): The MNDNR is the primary entity responsible for trout stream management, groundwater appropriations, and boat safety. They also enforce the Wetland Conservation Act, permit shore land and aquatic plant management control, and manage the majority of the state-owned land in the district, including Fort Snelling State Park, wildlife management areas, and scenic and natural areas.

Minnesota Pollution Control Agency (MPCA): The MPCA has been delegated permitting authority to administer the National Pollutant Discharge Elimination Permitting Program in Minnesota. The MPCA is

also the responsible authority for other state permits, including septic systems, feedlot permitting and enforcement, managing the state list of special and impaired waters, and collecting water quality monitoring data to support their work.

2.6.1.3 Federal

United States Army Corps of Engineers (USACE): The USACE administers Section 10 of the Rivers and Harbors Act (regulating placement of structures and work in navigable United States waters), and the Section 404 permit (regulating excavation of wetlands and discharge of dredged or fill material into United States waters). The USACE also provides engineering services and operates and maintains water resources and civil projects, including maintaining navigation on the Minnesota River.

United States Fish and Wildlife Service (USFWS): The USFWS manages fish and wildlife resources in the public trust. Their focus is mainly on management of national wildlife refuges, endangered species, and invasive species.

2.6.2 Other Notable Nonprofits or Environmental Groups

In addition to the public agencies, there are multiple non-profit environmental groups that are active within the corridor, including, but not limited to:

Citizens Advisory Committee (CAC): The Lower Minnesota River Watershed District's CAC is a volunteer advisory group appointed annually by the District's Board of Managers. The CAC engages with citizens in the community in actions that protect, improve, and restore water resources within the district, and advises the managers on matters affecting the interests of the district, such as providing feedback on plans, priorities, initiatives, etc.

Friends of the Minnesota Valley: The Friends of the Minnesota Valley is a nonprofit organization with the mission to preserve and protect the natural resources of the Minnesota River Watershed through partnership with government agencies and other nonprofit organizations. This group organizes volunteers to collect water quality data across the Minnesota River basin and monitor agricultural drainage improvements that have the potential to increase water flow.

Izaak Walton League of Minnesota (Minnesota Valley Chapter): The Izaak Walton League of Minnesota is a conservation organization that trains and equips volunteers in water quality monitoring efforts. The organization strives to conserve, restore, and promote the sustainable use and enjoyment of natural resources.

Trout Unlimited: Trout Unlimited is a national nonprofit group that works to conserve, protect, and restore cold water fisheries and their watersheds in North America through education, restoration projects, fundraising, and advocacy.

Although multiple agencies and organizations have distinct roles with direct ties to the corridor, a formal means to ensure the coordination of these entities and their efforts does not currently exist. Therefore, this plan and the outcomes from the shared vision and approach seek to unite these groups on a collective mission to protect and preserve the future of the river and the corridor.

3.0 STAKEHOLDER ENGAGEMENT

Stakeholder engagement was a critical component in the development of this plan. Various groups with vested interests in the lower Minnesota River were brought together by the district to listen to, collaborate with, and influence a shared vision and framework for the corridor. Below is a summary of the processes and outcomes resulting from the stakeholder engagement activities that supplemented this plan.

3.1 Stakeholder Workshop: A River Worth Protecting

On December 16, 2021, the first workshop for the corridor management plan was held. Before the meeting, a survey was distributed to the workshop participants to garner feedback from the stakeholders on district and community priorities. The meeting took place virtually and was recorded with 21 participants in attendance. The meeting started with a brief welcome and introduction from Linda Loomis, District Manager for the Lower Minnesota River Watershed District and Della Young, District Technical Consultant from Young Environmental Consulting Group, Inc. The meeting included an overview of the project and its purpose, along with a summary of the survey results. The survey results included some of the comments received and asked the stakeholders to provide feedback on each of the themes (water, threats, people, funding, and infrastructure) and priorities for the plan. The complete survey, including responses and comments, is provided in Appendix B.

Among the comments received during the people and infrastructure theme discussion were concerns about environmental justice, as well as ADA-compliant access to the Minnesota River and improved fishing opportunities. The need to promote cultural history with a focus on indigenous people was identified. A need to provide recreational opportunities was suggested. Working with legislators on management solutions upstream of the Lower Minnesota River Watershed was also highlighted as a priority.

During the water theme discussion, comments received included concerns over state-threatened fish species, such as the Black Buffalo and Paddlefish, as well as the need for the state to fund upstream projects and projects identified in city, county, watershed district, or watershed management organization plans. In addition, the state needs to address climate change and find ways to mitigate the changes in the future. Another issue discussed is the requirement to change drainage laws to require water storage and consider downstream impacts with drainage projects.

3.2 Focus Groups

Focus groups were scheduled after the kickoff workshop to allow the stakeholders to evaluate specific practices, activities, and actions responsible for the prioritized themes facing the Minnesota River system

and the lower Minnesota River specifically. A total of three separate focus group meetings on threats, waters, and people, funding, and infrastructure were held in 2022 and the outcomes are summarized in the following section.

3.2.1 Threats

The first focus group meeting was held on January 20, 2022, to discuss threats. *Threats* refers to the natural and anthropogenic impacts on infrastructure, property, and water and natural resources throughout the lower Minnesota River corridor. The primary goal of the threats meeting was for the group to describe their beliefs about what caused the threats and consider potential mitigation solutions.

Previously, stakeholders had identified the top three threats as impaired waters, erosion, and climate change, and the group had a focused discussion for each threat that addressed the following questions:

- 1. What practices, activities, and actions are responsible for this threat?
- 2. What conventional and out-of-the-box practices should the district implement (or partner with other organizations to implement) to mitigate the threat?
- 3. What are the gaps between the threat and conventional, unproven, or innovative solutions?

Five common themes emerged from the group's feedback on practices, activities, and actions that are responsible for the prioritized threats. The following is a summary of the five themes.

Altered Hydrology

- Altered hydrology is a threat that results in impaired waters and erosion.
- Upstream needs to stop sending too much water downstream.
- Slowing down the water is important. Potential fixes included extended detention and infiltration to improve baseflow conditions, mimic hydrology, or utilize flow duration curves.
- More water storage could be incorporated into drainage improvement projects.

People

- There is concern that the funding necessary for certain projects may not exist. We need to identify the potential to pull limited resources together and address the various issues because of the collaborative efforts organized by this plan.
- Water management on private property needs to be enhanced. Behavioral change is needed; misinformation should be addressed through education.

Urbanization and Development

- Decreasing water storage capacity and poor lawn management practices
- The belief that roadside sections must be urbanized with curb and gutter
- Increased runoff from increased impervious surfaces, including runoff from lawn and turf

Streambank and Drainage Area Health

- Wind erosion, soil management and health, increases in agricultural drainage
- Improved agricultural practices
- Restore easy-to-fix tiled wetlands
- Establish a minimum buffer rule

Then and Now (History, Geology, and Climate Change)

- Increased frequency and intensity of precipitation is projected to be the result of climate change.
- Loss of floodplain, shoreland, and wetlands will result in habitat loss and river degradation.
- Channel stabilization, floodplain restoration, wetland improvement, lakes, and wetlands internal loading controls (e.g., alum) to control legacy nutrient loading.
- Invasive species management (e.g., buckthorn)

A complete summary of the focus group meeting is available in Appendix C.

3.2.2 Water

The next focus group meeting was initially tabled to convene a BWSR watershed-based implementation funding process, and was held on July 13, 2022, to discuss water. *Water* refers to all natural water resources and involves the management of water quality and quantity, erosion control, resource protection, smart land use decisions, TMDLs and stormwater reuse, and protection and restoration of natural water systems affecting the Minnesota River corridor.

The primary goal for the water focus group was to identify how the threats from the previous focus group meeting impact each water subtheme and to begin thinking about policies, programs, or actions that could mitigate the threats and protect these water resources. To help center the discussion, the group was asked to review the five threats from the last meeting and identify which were the most urgent to address. The group identified the top threats as streambank and drainage area health and altered hydrology. Breakout groups then reviewed impacts from these threats to floodplains, groundwater, surface waters, and
stormwater; however, not every group was able to discuss every threat for each water category due to time constraints. The following is a summary of the comments received for the water categories.

Floodplains

- Altered Hydrology
 - The floodplain is disconnected from water bodies.
 - Floodplain modification has enabled development.
 - o Loss of storage in upstream areas has resulted in increased downstream flooding.
 - Everything is going faster, and water moves faster than it used to.
- Urbanization and Development
 - Urban development regulations are successful, and cities are doing a better job of managing the water; however, cities do not have control over what individual property owners do.

Groundwater

- Altered Hydrology
 - Intense storms result in more runoff and less infiltration.
 - Too many people have overtaxed our resources.
 - Unrealistic or unnatural expectations are caused by lack of understanding.
 - Introduction of pollutants from infiltration (because of land use practices)
- Urbanization and Development
 - Introduction of pollutants from infiltration (because of regulatory requirements to prioritize infiltration)
- Streambank and Drainage Area Health
 - Stream loss and baseflow impacts
 - Climate Change, Geology, and History
 - Drought restrictions affecting water use

Surface Waters

- Altered Hydrology
 - Increased drainage results in increased flow volumes.
 - Increased erosion and sedimentation, and nutrient pollution
 - Impaired habitat
- People

- \circ $\;$ Landscape modification and intensive land use impacts slopes and diverts water.
- Introduction of invasive species

Stormwater

- Altered Hydrology
 - Increased flows result in localized flooding.
 - Storm sewer and other designs are based on 10-year storm events and many storms exceed this design.
 - Impacts to water quality
- Urbanization and Development
 - Impacts on water quality
- Streambank and Drainage Area Health
 - Enhanced agricultural retention upstream of the LMRWD
 - Altered drainage has negatively impacted natural hydrology patterns.

A complete summary of the focus group meeting is available in Appendix D.

3.2.3 People, Funding, and Infrastructure

The final focus group meeting was held on August 17, 2022, to discuss people, funding, and infrastructure. *People* refers to how humans can influence the management, placement, and displacement of water resources. *Funding* includes the financial resources available to leverage local resources to undertake projects with the potential to preserve, protect, and restore water and natural resources within the lower Minnesota River corridor. *Infrastructure* refers to anything organizations do to support the sustainable functionality of their communities.

The main premise of the people, funding, and infrastructure meeting was to identify potential mitigation measures and funding opportunities to resolve some of the threats that had been previously identified. Participants were invited to respond to the following questions:

- 1. Where do we need to focus the education campaigns? Who is the audience?
- 2. What partnerships can make the dollars go farther in mitigating altered hydrology impacts and protecting streambanks and drainage areas?

In summary, residents, property managers, and homeowner association management companies were recommended as target audiences for educational campaigns to encourage actions and behavior changes around the use of native vegetation, lawn management, implementation of residential stormwater BMPs, and erosion prevention.

Participants also recommended partnerships with other WMOs or WDs, large corporations on development projects, local businesses (e.g., native plant nursery), and public agencies (e.g., BWSR, DNR) to share funding resources to mitigate potential threats in the corridor.

A complete summary of the focus group meeting is available in Appendix E.

3.3 Final Open House

The draft framework for the Corridor Management Plan was presented on September 7, 2022, at an open house held at Fort Snelling State Park. Thirteen people attended the open house event. The open house format was informal, with posterboards stationed throughout the meeting space for attendees to review a summary of each focus group meeting and input that was received. Participants were also invited to participate in a canoe paddling activity on the Lower Minnesota River that included a route around Pike Island. Each station included space for attendees to provide comments and add new ideas. Generally, there was consensus among the participants about the feedback that had been collected at the previous focus group meetings. A complete summary of the feedback from the open house is available in Appendix F.

4.0 FRAMEWORK: PRINCIPLES AND GOALS

The results of identifying common issues among stakeholders, describing the watershed, and engaging with stakeholders during the series of focus group meetings provided the essential guidance to create a foundation for cooperation and strategic investments that can provide multiple benefits. The following framework for the Lower Minnesota River corridor management plan is based on guiding principles, goals, and objectives for why the plan was prepared and what the plan should provide.

4.1 Guiding Principles

The guiding principles for this plan are a summary of collective values gathered from the stakeholders who participated in the focus groups. These guiding principles serve as the overall planning approach for protecting the Lower Minnesota River and leveraging resources within the Lower Minnesota River Basin.

- 1. The Lower Minnesota River is a significant water resource and protecting the river is a universal responsibility.
- The corridor management plan development process is open to all stakeholders with the goal of creating a shared vision that includes actionable solutions (activities, programs, studies, projects, policies) to mitigate the Minnesota River system's challenges.
- 3. The corridor management plan will encourage collaboration and communication among landowners, public entities, businesses, institutions, and others for sharing pooled resources.

4.2 Goals and Objectives

The following goals and objectives are the outcomes captured by the corridor management plan:

- 1. Goal: Improve water quality and quantity in agricultural, residential, urban, and open space locations.
 - Objective: Identify partners and projects to encourage water storage opportunities upstream of the Lower Minnesota River Corridor.
 - Objective: Address increases in agricultural drainage with improved agricultural practices, such as drainage, soil health, wind erosion, incentivizing farmers, and increased education.
 - Objective: Identify opportunities to work with large corporations and development projects to integrate BMPs in development designs that can be used as demonstrations.
- 2. Goal: Reduce erosion and preserve soil health.

- Objective: Reduce or eliminate erosion by encouraging best practices for soil health and water management on private property.
- Objective: Incentivize erosion repair for both public and private entities through grants, efficient permitting, and partnership opportunities.
- Objective: Manage invasive species through continued removal, monitoring, and introduction of native plants.
- 3. Goal: Improve streambank and drainage area health.
 - Objective: Protect bluffs, floodplains, and flood fringes by managing impacts from development.
 - Objective: Restore natural flood storage by reconnecting floodplain to waterbodies and restoring natural hydrology patterns.
 - Objective: Maximize infiltration to contribute to base flows and reduce runoff.
- 4. Goal: Identify and leverage new funding for restoration and preservation activities.
 - Objective: Leverage federal funding opportunities to diversify and maximize available funding opportunities.
 - Objective: Establish or reinvigorate new partnerships to share resources.
 - Objective: Continue to participate in BWSR's "One Watershed, One Plan".
- 5. Goal: Provide education and outreach to increase awareness about the corridor and the issues that threaten the future of the river.
 - Objective: Focus on active ownership and stewardship by stakeholders, especially youth and young adults.
 - Objective: Provide targeted outreach to lawn care businesses and property management on best management practices for their services and waste management.
 - Objective: Partner with other neighboring WMOs and WDs on educational efforts to promote consistent messaging throughout the corridor and beyond.
 - Objective: Create and share compelling messages to help audiences understand the *why* of the message and call to action, while also understanding that their actions and behaviors have quantifiable results.
 - Objective: Encourage and promote access to the river corridor to enable recreation and ADA-compliant access opportunities.

5.0 PLAN IMPLEMENTATION

Improving the water quality in the Lower Minnesota River is a challenging long-term effort and requires both small- and large-scale efforts by public and private groups. As noted, one of the most significant challenges faced by the Lower Minnesota River corridor is overcoming the impacts from the upper portion of the watershed that affect the water's quality as it flows through agricultural areas and down through the more urban lower watershed. The quality of the Minnesota River depends on the land and resource management decisions of landowners and managers throughout the watershed and is especially important for those who live and work along its banks. Therefore, the future of the Lower Minnesota River is dependent on the coordinated efforts by the entities described in this plan to implement a collective mission to protect and preserve the future of the river and the corridor.

Unlike a capital improvement plan with an organized structure, the Lower Minnesota River Corridor Management Plan's framework will utilize strategic and opportunistic approaches to implement the defined goals and objectives. Strategic approaches will be implemented through targeted outreach and project development efforts with public and private groups. Opportunistic approaches will work with willing private landowners and district partners on a project basis. Long-term endeavors include ongoing coordinated public projects and management efforts. The district will implement the plan's framework over time using various methods, including the following:

- 1. Continued collaboration with stakeholders to implement and support corridor projects.
- Increased awareness and understanding about the Lower Minnesota River and the LMRWD's unique water resources.
- 3. Leveraged funding from new and existing sources to support corridor projects and initiatives and support potential opportunities in the upper watershed.
- 4. Performance of ongoing maintenance and monitoring of projects to maximize the district's investments and water quality improvements, including documentation of successes and failures to improve the Lower Minnesota River Watershed and Corridor.
- 5. Enforcement of the district's rules to continue to protect water resources and facilitate equitable development activities.

6.0 NEXT STEPS

This plan provides for a comprehensive and consistent voice to manage the Lower Minnesota River throughout its watershed and across municipal boundaries. It lays out the goals, strategies, and responsibilities for conserving and enhancing the Lower Minnesota River's most valuable qualities with a focus on management in upstream areas, and places where growth rates continue to challenge both manmade and natural environments. Five themes were identified as the focus points for the plan:

- 1. Water
- 2. People
- 3. Infrastructure
- 4. Threats
- 5. Funding

The goal of the plan is to preserve the character and integrity of the Minnesota River and its corridor by protecting its natural, historic, and scenic resources as well as to ensure the river's continued use as a multi-use river. This was accomplished by bringing stakeholders together to focus on improving water quality, improving the connectivity of natural habitats, and improving the public's knowledge about the importance of the Minnesota River.

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APPENDIX A - DATA SYNTHESIS MATRIX

Data Synthesis Matrix for the Lower Minnesota River Corridor Management Plan

				Data Synthesis Matrix for the Lower Minnesota River Corridor Management Plan				
			pe of Goal or					Issue Issue
		Ac	tion (General		Currently not Duplic		Issue	Category Category
Issue ID Source ID2	Issues Identified	Issue Subject or	Specific)	Mitigation Actions Recommended/ future desires CIP estimated date	CIP Cost categorized Categorized Categorized	ries? Issue Category	Issue Category2 Category	/3 4 5
				The City will be an active participant with the MPCA and the Watershed				
	Minnesste Diver Facto Coroli Identified			Districts to set Total Maximum Daily Loads (TMDLs) for the impaired waters in				
	Minnesota River, Eagle Creek. Identified by the MPCA as impaired waters.	Water Quality So		the City and to help meet the requirements outlined in the TMDL Implementation Plans once they are complete.				
J1 MP5 Shakopee SW	by the MPCA as impaired waters.	water quality Spi	ecific goal	The City has developed an illicit discharge ordinance, trains staff on illicit		Impaired.TMDL		
				discharge annually, and sends notifications if illicit discharge is observed. In				
				addition, the City will educate the public as a part of MS4 SWPPP minimum				
J10 MP5 Shakopee SW	Illicit discharge	Water Quality Ge	eneral goal	control measures.		Public engagem	ant education	
JIO WPS Shakopee SW	Lake Susan - Eurasian watermilfoil, curly	Water Quality Ge	eneral goar	reduction of nuisance invasive/exotic species, reduction of rough fish		Fublic eligageti	enteducation	
J100 MP26 Chanhassen SW	leave pondweed, control rough fish	Water Quality Spo	ecific goal	population		Invasives		
Sido Wirzo chainassen Sw	Lake St. Joe - in-lake phosphorous	water quality 5p	eenne goar	population		1114031463		
1101 MP26 Chanbassen SW	treatment	Water Quality Spe	ecific goal	Improving water quality trends		Impaired.TMDL		
	Work to achieve water quality standards							
	in lakes, streams, and wetlands							
	consistent with intended use and			Require that development and redevelopment projects demonstrate no net				
	classification and State of Minnesota			increase in the annual mass of total suspended solids (TSS) or total				
J102 MP7 Eden Prairie SW	water quality standards.	Water Quality Ge	eneral goal	phosphorous (TP) leaving the site compared to pre-development conditions.		Impaired.TMDL		
	Work to achieve water quality standards							
	in lakes, streams, and wetlands			Require the use of green infrastructure techniques such as MIDS during				
	consistent with intended			development review through a Green Infrastructure Analysis to meet				
	use and classification and State of			infiltration				
J103 MP7 Eden Prairie SW	Minnesota water quality standards.		eneral goal	and reduce pollutant and nutrient loading to water resources where feasible.		Low Impact Dev	el	
	Work to achieve water quality standards							
	in lakes, streams, and wetlands			Work in partnership with the Watershed Districts, DNR, adjacent property				
	consistent with intended			owners, and other interested parties to restore creeks, creek banks, and gullies				
	use and classification and State of			for health, safety, and ecological integrity, using bioengineering for stabilization				
J104 MP7 Eden Prairie SW	Minnesota water quality standards.	Water Quality Ge	eneral goal	projects where feasible.		Cooperation		
	Protect downstream water resources,							
	reduce the potential for flooding, and							
	minimize related public capital and maintenance expenditure necessary to							
	control excessive volumes and rates of			Manager flag delaits and initial in a second and with all City, where and find and				
1405 MDZ Edge Deside OW	runoff and to mitigate erosion	Weter Owertite		Manage floodplain activities in accordance with all City, state, and federal	×.	fleed	Sediment.Erosion	
J105 MP7 Eden Prairie SW	funori and to mitigate erosion	Water Quantity Ge	eneral goal	regulations.	ť	Flood	Sediment.Erosion	
	Protect and/or restore wetlands to							
	improve or maintain their functions and			Continue to act as the responsible Local Government Unit (LGU) for				
	values in accordance with the Minnesota			administration of the Minnesota Wetland Conservation Act (WCA) for project				
	Wetland Conservation Act and the City's			sites that have wetlands in the Lower Minnesota River and Riley-Purgatory-				
J106 MP7 Eden Prairie SW	Wetland Protection ordinance.		eneral goal	Bluff Creek Watershed Districts.		Wetlands		
	Protect and/or restore wetlands to							
	improve or maintain their functions and							
	values in accordance with the Minnesota	3		Continue to require the establishment and maintenance of buffers around				
	Wetland Conservation Act and the City's			wetlands as set forth in the City's Wetland Protection ordinance and as				
J107 MP7 Eden Prairie SW	Wetland Protection ordinance.	Wetlands Ge	eneral goal	outlined in Watershed District standards and rules.		Wetlands		
				Require infiltration of stormwater and resulting groundwater recharge where it				
	Work to prevent contamination of the			is feasible and does not pose a threat to groundwater quality, in accordance				
	aquifers, promote groundwater recharge	1		with the Minnesota Department of Health's Evaluating Proposed Storm Water				
	and encourage water conservation			Infiltration Projects in Vulnerable Wellhead Protection Areas and the City's				
J108 MP7 Eden Prairie SW	practices.	Groundwater Ge	eneral goal	NPDES MS4 Stormwater Permit requirements.	Y	Stormwater	Groundwater	
	Work to prevent contamination of the							
	aquifers, promote groundwater recharge							
	and encourage water conservation							
J109 MP7 Eden Prairie SW	practices.	Groundwater Ge	eneral goal	Require proper well abandonment.		Groundwater		
	Increase public involvement and knowledge in management and			Conduct a public involvement process when considering public policies				
J119 MP7 Eden Prairie SW	protection of water resources.	Education Ge	eneral goal	Conduct a public involvement process when considering public policies impacting water and natural resources.		Public engagem	ent education	
STT2 MEA EGEN MULLE EG	shoreland, floodplain, and erosion	Ge	and al goal	The City will continually evaluate these ordinances and will update them as		Fublic engagem	enceducation	
J12 MP5 Shakopee SW	control	Water Quality Ge	eneral goal	needed. The City will continue to enforce all ordinances as necessary.	v	Flood	Sediment.Erosion	
Size Wird Shakopee SW	Add nature-based or natural resource	Ge Ge	ci ai gudi			nodu	Scamencerosion	
	compatible park recreation and services							
J120 CP4 Co-Dakota	that people expect and appreciate.	Recreation Ge	eneral goal	Welcome visitors of all backgrounds, interests, and abilities to their parks.	x			
	Develop a network of collaboratively			······································				
	operated greenways to link parks and			Protect, restore, and connect Dakota County's urban natural areas and open				
J121 CP4 Co-Dakota	popular destinations	Recreation Ge	eneral goal	space (green infrastructure), using regional greenways as a framework.	Y	Development	Corridors Coopera	tion
	Develop a network of collaboratively							
	operated greenways to link parks and							
J122 CP4 Co-Dakota	popular destinations	Recreation Ge	eneral goal	Provide convenient and accessible recreational open space.	Y	Development	Corridors Coopera	tion
	Develop a network of collaboratively							
	operated greenways to link parks and			Create Greenway Collaboratives to achieve mutual objectives for greenways				
J123 CP4 Co-Dakota	popular destinations		eneral goal	and trails.	Y	Development	Corridors Coopera	tion
	Protect and manage natural and cultural			Implement the 2017 Natural Resources Management Plan to manage				
	resources and green infrastructure in			vegetation, water, and wildlife in regional parks, park reserves, county parks,				
J124 CP4 Co-Dakota	Dakota County		eneral goal	regional greenways, and park conservation areas.		Corridors		
	Protect and manage natural and cultural							
	resources and green infrastructure in			Protect, design, and maintain scenic park viewsheds to enhance visitor				
J125 CP4 Co-Dakota	Dakota County	Recreation Ge	eneral goal	experience.		Open and Gree	1	
	Protect and manage natural and cultural			N () () () () () () () () () (
	resources and green infrastructure in			Protect park cultural resources and offer appropriate opportunities for visitors				
J126 CP4 Co-Dakota	Dakota County	Recreation Ge	eneral goal	to experience them.		Open and Gree	1	

		Protect and manage natural and cultural					
1127 604	4 Co-Dakota	resources and green infrastructure in Dakota County	Recreation	General goal	Acquire and protect park and greenway lands through a strategic and comprehensive approach.		Corridors
J127 CP4	+ CO-Dakota	Protect and manage natural and cultural		General goal	comprenensive approach.		corridors
		resources and green infrastructure in			Develop and enhance collaborations for County parkland and greenway		
1128 CP4	4 Co-Dakota	Dakota County	Recreation	General goal	acquisition and protection.	v	Corridors Cooperation
J128 CF4	+ CO-Dakola	Build awareness of Parks, inform and	Recleation	General goal	Engage the public in meaningful and diverse ways, through communication and	1	condors cooperation
1120 CP4	4 Co-Dakota	engage the public	Recreation	General goal	chigos de pone in recompre alla artese ways, chigos connuncertor and		Public engagement.education
5125 Cr4	* CO-Dakota	engage the public	Recreation	General goal	The City will continue to implement and enforce erosion control measures from		rubic engagement.education
					construction activity as required by the NPDES permit requirements. In		
					addition, the City will continue to inspect waterbodies and evaluate the water		
J13 MP5	5 Shakopee SW	construction site erosion control	Water Quality	General goal	quality benefit of stormwater ponds to identify maintenance needs.	Y	Stormwater Sediment Erosion
		Support and encourage orderly			Support land use patterns that are compatible with the Metropolitan Council's		
J130 CP4	4 Co-Dakota	development.	Land Use	General goal	Thrive MSP 2040 and local comprehensive plans.		Development
		Support and encourage orderly		Ū.	Review city, township, and regional plans for compatibility with County plans		
J131 CP4	4 Co-Dakota	development.	Land Use	General goal	and potential impact on County services or facilities		Development
		Support and encourage orderly		0	Assist redevelopment efforts through the County's Environmental Assessment		
J132 CP4	4 Co-Dakota	development.	Land Use	General goal	and Remediation program (brownfields).		Development
		Support land use and transportation					
		options that create places where people			Support city land use planning efforts to create walkable areas along regional		
J133 CP4	4 Co-Dakota	can live without an automobile.	Land Use	General goal	transit corridors and station locations.		Corridors
		Preserve vital functions of natural					
		systems by strategically and					
		collaboratively improving Dakota			Protect, connect, and enhance natural areas, wetlands, stream corridors, open		
J134 CP4	4 Co-Dakota	County's green infrastructure.	Land Use	General goal	space, agricultural working lands, parks, and greenways.	Y	Corridors Cooperation
		Preserve vital functions of natural					
1		systems by strategically and					
1		collaboratively improving Dakota			Identify and map opportunities to enhance Dakota County's green		
J135 CP4	4 Co-Dakota	County's green infrastructure.	Land Use	General goal	infrastructure.		Cooperation
		Preserve vital functions of natural					
1		systems by strategically and					
1		collaboratively improving Dakota			Lead and manage multi-agency collaborative approaches for green		
J136 CP4	4 Co-Dakota	County's green infrastructure.	Land Use	General goal	infrastructure protection and restoration priorities.		Cooperation
		Conserve and protect natural resources					
		in Dakota County, including air quality,					
		water, soil, productive farmland, mineral	s				
		(bedrock, sand, and gravel aggregates),					
J137 CP4	4 Co-Dakota	vegetation, and wildlife.	Land Use	General goal	Provide education on natural resource management and conservation. X		
		Conserve and protect natural resources					
		in Dakota County, including air quality,					
		water, soil, productive farmland, mineral	s				
		(bedrock, sand, and gravel aggregates),					
J138 CP4	4 Co-Dakota	vegetation, and wildlife.	Land Use	General goal	Advocate for effective and equitable natural resource management. X		
					Collaborate to protect and connect resource lands that enhance natural		
J139 CP4	4 Co-Dakota	Land Resources Policies	Land Use		systems functions.		Cooperation
114 MP	5 Shakopee SW	Erosion and stabilization issues along the Minnesota River.	Erosion & Sediment		The City will coordinate with the Lower Minnesota River Watershed District to identify stabilization options and priority areas.		Sediment Frosion
J14 MP5	'5 Snakopee SW	Minnesota River.	Erosion & Sediment	General goal	Avoid impacts to significant natural areas; when unavoidable, mitigate loss at		Sediment.Erosion
11.40 CD4	4 Co-Dakota	Land Resources Policies	Land Use				
J140 CP4							
	+ CO-Dakota		Earld Ose		equal value. X		
1141 CD4					Avoid fragmenting natural areas and corridors; when unavoidable, mitigate loss		Corridor
J141 CP4	4 Co-Dakota	Land Resources Policies	Land Use		Avoid fragmenting natural areas and corridors; when unavoidable, mitigate loss at equal or greater value within Dakota County.		Corridors
	4 Co-Dakota	Land Resources Policies	Land Use		Avoid fragmenting natural areas and corridors; when unavoidable, mitigate loss at equal or greater value within Dakota County. Discourage use of high value wetlands for stormwater management when	•	
					Avoid fragmenting natural areas and corridors; when unavoidable, mitigate loss at equal or greater value within Dakota County. Discourage use of high value wetlands for stormwater management when alternatives exist.	Y	Corridors Unique.Sensitive.h Stormwater
J142 CP4	4 Co-Dakota 4 Co-Dakota	Land Resources Policies Land Resources Policies	Land Use		Avoid fragmenting natural areas and corridors; when unavoidable, mitigate loss at equal or greater value within Dakota County. Discourage use of high value wetlands for stormwater management when alternatives exist. Encourage infiltration of stormwater where appropriate, protection of natural	Y	Unique.Sensitive.h Stormwater
J142 CP4	4 Co-Dakota	Land Resources Policies	Land Use		Avoid fragmenting natural areas and corridors; when unavoidable, mitigate loss at equal or greater value within Dakota County. Discourage use of high value wetlands for stormwater management when alternatives exist. Encourage infiltration of stormwater where appropriate, protection of natural areas, and provision of open space.	Y	
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				Support protection of unique water resources, including but not limited to		
J158 CP4 Co-Dakota	Water Management Policies	Water Quality Ge	eneral goal	wetlands, fens, springs, and trout streams.	Y	Unique.Sensitive.h Trout.Fen
				Use and encourage others to use riparian land easement and buffer programs		
J159 CP4 Co-Dakota	Water Management Policies	Water Quality Ge	eneral goal	to improve water quality. X		
				he City is completing a targeted BMP study to identify project opportunities		
	The downtown Shakopee area is			throughout the downtown Shakopee area. Implement water quality BMPs		
	completely developed with little to no			during redevelopment projects based on stormwater requirements and to the	N.	
J16 MP5 Shakopee SW	stormwater management.	Land Use Ge	eneral goal	maximum extent feasible. Participate cooperatively with watershed management organizations, as	Ŷ	Stormwater Development
J160 CP4 Co-Dakota	Water Management Policies	Water Quality Ge	eneral goal	appropriate.		Cooperation
	Water Management Pondes	Water quality de	cherar goar	Protect shoreland and floodplain areas to preserve and enhance surface water		
				quality, prevent economic loss, and conserve the natural environment through		
J161 CP4 Co-Dakota	Water Management Policies		eneral goal	County Ordinance No. 50.		Flood
J162 CP4 Co-Dakota	Water Management Policies	Water Quality Ge	eneral goal	Collaborate with others in the control of aquatic invasive species.	Y	Invasives Cooperation
J163 CP4 Co-Dakota	Water Management Policies	Water Quality Ge	eneral goal	Work with local communities and state agencies to identify and implement TMDL waste-load allocation reduction projects required under the MS4 permit.		Impaired.TMDL
J163 CP4 Co-Dakota	Sufficient and sustainable high quality	water Quality Ge	eneral goal	Protect a sustainable and sufficient water supply through collaboration,		Impaired. I MDL
J164 CP4 Co-Dakota	water supplies.	Water Quality Ge	eneral goal	regulation, water conservation, and education.		Cooperation
	Sufficient and sustainable high quality		800	Prevent groundwater and surface water degradation from point and non-point		
J165 CP4 Co-Dakota	water supplies.	Water Quality Ge	eneral goal	sources.		Groundwater
	Sufficient and sustainable high quality					
J166 CP4 Co-Dakota	water supplies.	Water Quality Ge	eneral goal	Increase community awareness of water resource and supply issues.		Public engagement.education
1167 CD4 C- D-L	Sufficient and sustainable high quality	Water Quality	onoral c!	Work with state, sectional, and local pasteers on water supply issues		Connection
J167 CP4 Co-Dakota	water supplies. Sufficient and sustainable high quality	Water Quality Ge	eneral goal	Work with state, regional, and local partners on water supply issues. Work to identify high quality infiltration areas to be protected from		Cooperation
J168 CP4 Co-Dakota	water supplies.	Water Quality Ge	eneral goal	contamination and to utilize for maintaining future groundwater recharge.		Groundwater
Co Danota		Contraction of the second seco	Booi			
				Support the reinvigoration of the city's existing neighborhood commercial areas		
	City's land use mix is maintained with a			through redevelopment into neighborhood-oriented mixed-use centers,		
	healthy balance between residential,			improving transit options, providing links to neighborhood amenities and		
	commercial, industrial/office, and			cultural facilities, encouraging live/work units, and allowing higher residential		
J169 CP12 Ci-Burnsville	park/open space.	Land Use Ge	eneral goal	densities to support neighborhood commercial operations and services.		Open and Green
				continue to implement community education to increase residents awareness		
J17 MP5 Shakopee SW	local water education	Water Quality Ge	eneral goal	and reduce violations concerning proper water resource management		Public engagement.education
	City's land use mix is maintained with a		800	Preserve open space to protect sensitive natural		
	healthy balance between residential,			areas and enhancement of wildlife habitats through use of the Open Space land		
	commercial, industrial/office, and			use designation, Conservancy Zoning District, and Environmental Overlay		
J170 CP12 Ci-Burnsville	park/open space.	Land Use Ge	eneral goal	District zoning tools		Unique.Sensitive.high value
	Burnsville's physical character and identity is enhanced through property					
	identity is enhanced through property maintenance, redevelopment, and new			Preserve and maintain natural, recreational, historical and cultural landmarks		
J171 CP12 Ci-Burnsville	development.	Land Use Ge	eneral goal	that are unique and essential to Burnsville's identity.		Development
			cherdi godi	Preserve and incorporate outstanding natural (such		bereitignient
	New development and redevelopment			as woodlands, steep slopes, wetlands), cultural, historical and unique features		
J172 CP12 Ci-Burnsville	projects incorporate creative site design	. Land Use Ge	eneral goal	as part of development projects.	Y	Unique.Sensitive.h Development Steep slopes
	New development and redevelopment					
	occurs in an environmentally sensitive			Protect environmentally sensitive features through		
J173 CP12 Ci-Burnsville	manner, preserving and restoring natura resources.		eneral goal	preservation, best management practices, green/sustainable design and construction techniques.	N.	Unique.Sensitive.h Development
J1/3 CP12 CI-Burnsville	Job creation, retention and enhanced tax		eneral goal	Focus and promote the City's redevelopment efforts in the following areas: (a)	Ŷ	Unique.Sensitive.n Development
	base are assured by growth,			Heart of the City (HOC) (b) Orange Line Bus Rapid Transit (BRT) Station Areas		
	redevelopment, and sustained viability o	f		(c) Cliff Road Business Park (d) Burnsville Center/County Road 42 Corridor (e)		
J174 CP12 Ci-Burnsville	commercial and industrial properties.		eneral goal	Minnesota River Quadrant (MRQ)		Development
				Support preservation of historic sites by private parties by directing interested		
1175 0010 010 11	Historic and environmental resources are			parties to existing resources at		
J175 CP12 Ci-Burnsville	protected as required by state statutes.	Land Use Ge	eneral goal	the local, state and federal levels. X Continue to preserve open space, natural beauty, and critical environmental		
J176 CP12 Ci-Burnsville	Energy reduction	Land Use Spe	pecific goal	areas		Open and Green
a se ci cantonic						
J177 CP12 Ci-Burnsville	Sustainable water supply	Land Use Spe	pecific goal	Include the provision and protection of local water supply at planning concepts. X		
J178 CP12 Ci-Burnsville	Sustainable water supply	Land Use Spe	pecific goal	Continue to protect groundwater		Groundwater
				Direct development and to development is a manage consistent with		
J179 CP12 Ci-Burnsville	Sustainable water supply	Land Use Spe	pecific goal	Direct development and re-development in a manner consistent with watershed health. X		
11.5 CF12 CPDUTISVILE	Sustainable water supply	cand use Spe	scenic guai	The City will continue to complete inspections of the stormwater infrastructure		
				and evaluate BMP effectiveness as required by the MPCA's MS4 NPDES Permit.		
				The City of Shakopee is responsible for maintenance of its stormwater system		
	Aging infrastructure and reduced			in conformance with the MPCA's MS4 Program. This includes maintenance of		
	effectiveness of water quality BMPs			pipes, outlets, constructed ponds, lakes, wetlands, ditches, swales, and other		
J18 MP5 Shakopee SW	throughout the City.		eneral goal	drainage ways.		Stormwater
J180 CP12 Ci-Burnsville	Sustainable water supply		pecific goal	Coordinate regional planning for a resilient municipal water supply. X		
J181 CP12 Ci-Burnsville	Efficient use of infrastructure and land	Land Use Spe	pecific goal	Provide infrastructure and design to support walkability & connectivity X Develop a Tree Canopy Assessment Plan that includes strategies to		
				Develop a Tree Canopy Assessment Plan that includes strategies to protect/expand use of native species, as well as evaluate the ecosystem		
J182 CP12 Ci-Burnsville	Natural resource conservation	Land Use Spe	pecific goal	services provided by the existing urban forest.		Vegetation
				Continue to promote environmental stewardship by educational programs in		
J183 CP12 Ci-Burnsville	Natural resource conservation		pecific goal	areas of environmental science		Public engagement.education
J184 CP12 Ci-Burnsville	Natural resource conservation	Land Use Spe	pecific goal	Provide experiences for children in local natural environments.		Public engagement.education

				Consider developing an Insect Assessment Plan to identify the existence and threats posed by invasive/non-beneficial insects.		
J185 CP12 Ci-Burnsville	Natural resource conservation	Land Use S	pecific goal	threats posed by invasive/non-beneficial insects.		Invasives
J186 CP12 Ci-Burnsville	Natural resource conservation		pecific goal	Continue to protect and enrich the urban forest and biodiversity	х	114031463
				Provide and promote green linkages that allows non-car commuters to get		
J187 CP12 Ci-Burnsville	Climate Resiliency	Land Use S	pecific goal	anywhere		Open and Green
	Climate Desiliance	Logd Has		Promote climate awareness and adaptation preparedness by educational		Dublic concerns a durable.
J188 CP12 Ci-Burnsville	Climate Resiliency	Land Use S	pecific goal	programs. Enhance and connect Burnsville's recognized amenity		Public engagement.education
				areas (MRQ, HOC, Burnsville Center, Southcross Business Park, Ridges Medical		
	Burnsville's identity as an attractive and			Campus, Cliff Road Business Park) with improved pedestrian and bicycle		
	desirable place in which to live, work,			facilities, "high impact" streetscapes, water features, public areas, way finding		
J189 CP12 Ci-Burnsville	shop and play is actively promoted.	Economic Development G	General goal	signage, public art, and signature buildings.	х	
				As accumulated sediment is identified to be dredged from stormwater ponds,		
J19 MP5 Shakopee SW	Polycyclic aromatic hydrocarbons	Water Quality G	Seneral goal	the City will follow protocol for testing the sediment for PAHs and disposal of dredged material properly.	v	Stormwater Sediment.Erosion
315 WF5 Shakopee SW	Burnsville's identity as an attractive and	water quality G	Jeneral goal			Stornwater Sedimentatiosion
	desirable place in which to live, work,			Showcase the Minnesota River through amenities, trails, lighting, and building		
J190 CP12 Ci-Burnsville	shop and play is actively promoted.	Economic Development G	General goal	orientation.		Increase River Use
	Burnsville's identity as an attractive and			Maintain the vision of a unique and high quality development future for the		
J191 CP12 Ci-Burnsville	desirable place in which to live, work, shop and play is actively promoted.	Economic Development G	Seneral goal	Minnesota River Quadrant, following the expiration of the gravel mine and closure of Waste Management Burnsville Sanitary Landfill.		Development
JIJI CP12 CI-BUILISVILLE	shop and play is actively promoted.	Economic Development e	Bellel al guai	To reclaim the Minnesota Riverfront for public access/recreation, open space,		Development
J192 CP12 Ci-Burnsville	Minnesota River Quadrant (MRQ)	Economic Development S	pecific goal	natural habitat, as well as unique high density housing options		Increase River Use
		·				
				Convert the Burnsville Sanitary Landfill site, following its closure, to an 18-hole		
J193 CP12 Ci-Burnsville	Minnesota River Quadrant (MRQ)	Economic Development S	pecific goal	championship golf course Create a new 340-acre freshwater lake, following closure of the Kraemer	х	
J194 CP12 Ci-Burnsville	Minnesota River Quadrant (MRQ)	Economic Development S	pecific goal	Create a new 340-acre treshwater lake, following closure of the Kraemer Quarry	v	
3154 CF12 CF-burnsville	Winnesota Kiver Quadrant (WinQ)	Economic Development 5	pecific goal	Redevelop areas adjacent to the east side of the new lake with a mix of land	^	
				uses, including hotels, offices, residential, and class A office in signature iconic		
				buildings with recreational opportunities linked to the		
J195 CP12 Ci-Burnsville	Minnesota River Quadrant (MRQ)	Economic Development S	pecific goal	lake and river	Y	Development Increase River Use
J196 CP12 Ci-Burnsville	Minnesota River Quadrant (MRQ)	Economic Development S	pecific goal	Aesthetic, purposeful, attractive re-use of properties located at North Gateway along I-35W, an important gateway into the community	v	
J196 CP12 CI-BURNSVIIIe	Minnesota River Quadrant (MRQ)	Economic Development S	pecific goai	Redevelop the I-35W corridor with high quality office/showroom development		
J197 CP12 Ci-Burnsville	Minnesota River Quadrant (MRQ)	Economic Development S	pecific goal	on the west and commercial development on the east		Development
				Provide an area in the southwest part of the MRQ for heavy industrial uses,		
J198 CP12 Ci-Burnsville	Minnesota River Quadrant (MRQ)	Economic Development S	pecific goal	existing and relocated	х	
				Redevelop and enhance the Highway 13 corridor with a mix of high quality		
				kedevelop and ennance the Highway 13 corridor with a mix of high quality businesses, including office/showroom in the southeast, industrial in the south		
				central area, commercial/mixed use in the southwest, and mixed-use at the		
J199 CP12 Ci-Burnsville	Minnesota River Quadrant (MRQ)	Economic Development S	pecific goal	County Road 5/Highway 13 intersection		Development
		·		Dean Lake Wetland was recently reclassified from a lake to a wetland. The City		
				will work with the Lower Minnesota River Watershed District (LMRWD) on		
				studies related to water quality and overall health of Dean Lake Wetland. It is		
J2 MP5 Shakopee SW	Dean Lake Wetland poor water quality	Water Quality S	pecific goal	anticipated that the Watershed District will be the lead, but the City should assist and provide support to the Watershed District.		Wetlands
32 WPS Shakopee SW	Dean Lake Wettand poor water quanty	water quality 5	pecific goal	assist and provide support to the watershed district.		wettallus
				One significant contributor to elevated chloride concentrations in surface water		
				and groundwater is road salt application during the winter. The City will		
				continue to implement chloride best management practices such as reducing		
				salt use on roadways and implement prewetting and anti-icing strategies. The		
J20 MP5 Shakopee SW	Chloride	Water Quality G	Seneral goal	City will also continue to educate private business owners and residents about correct salt application, and improve policies designating salt usage.		Groundwater
J200 CP12 Ci-Burnsville	Minnesota River Quadrant (MRQ)		pecific goal	Explore opportunities for sustainable energy development and generation		Development
				Work with the development community and property owners to utilize green		
J201 CP12 Ci-Burnsville	Minnesota River Quadrant (MRQ)	Economic Development S	pecific goal	building techniques and energy efficient site design	Y	Development Low Impact Devel
1000 0040 010 ····				Establish transit, walking, and bike trail connections within the MRQ and to		
J202 CP12 Ci-Burnsville	Minnesota River Quadrant (MRQ)	Economic Development S	pecific goal	other areas of the city and the City of Savage Provide high-tech communications, fiber, wireless and other cutting edge		Increase River Use
				Provide high-tech communications, fiber, wireless and other cutting edge technologies and encourage the development community to install these		
J203 CP12 Ci-Burnsville	Minnesota River Quadrant (MRQ)	Economic Development S	pecific goal	systems at the time of development and redevelopment		Development
	Minnesota River Quadrant (MRQ) Energy					·
J204 CP12 Ci-Burnsville	reduction		pecific goal	Consider utilization of district energy (using lake for heat exchange)	х	
1205 (012 010 11	Minnesota River Quadrant (MRQ) Energy			Use walkable and transit-oriented developments where development is		Davidsonant
J205 CP12 Ci-Burnsville	reduction Minnesota River Quadrant (MRQ)	Economic Development S	pecific goal	planned		Development
J206 CP12 Ci-Burnsville	Sustainable water supply	Economic Development S	pecific goal	Consider installation of district level greywater reuse infrastructure	х	
	Minnesota River Quadrant (MRQ)			Ensure new and redevelopment meet the City's water resources management		
J207 CP12 Ci-Burnsville	Sustainable water supply	Economic Development S	pecific goal	plan development standards		Development
	Minnesota River Quadrant (MRQ)					
J208 CP12 Ci-Burnsville	Sustainable water supply	Economic Development S	pecific goal	Implement green/living streets policies/standards upon redevelopment	Y	Development Low Impact Devel
J209 CP12 Ci-Burnsville	Minnesota River Quadrant (MRQ) Sustainable food system operations	Economic Development S	pecific goal	Support aquaculture as a potential land use	x	
seas of its circuitisville	Increased demand for public access	Sectorine Development 5	Pecilie guai	The City will continue to work to improve public access and/or trail systems for	~	
	and/or trail systems for waterbodies			waterbodies within the city as part of the current Parks and Recreation Master		
J21 MP5 Shakopee SW	within the City.	Recreation G	General goal	Plan.		Trails
	Minnesota River Quadrant (MRQ)					
J210 CP12 Ci-Burnsville	Sustainable food system operations Minnesota River Quadrant (MRQ)	Economic Development S	pecific goal	Consider allowing small scale farming on capped landfills		Agriculture
J211 CP12 Ci-Burnsville	Sustainable food system operations	Economic Development S	pecific goal	Continue to allow small scale farming in floodplains		Flood
or it or burnsville	castamatic rood system operations	a sevelopment	Soai			

	Minnesota River Quadrant (MRQ)				
J212 CP12 Ci-Burnsville	efficient use of infrastructure and land Minnesota River Quadrant (MRQ) natura	Economic Development	Specific goal	Create multimodal connected streets and places X	
J213 CP12 Ci-Burnsville	resource conservation	Economic Development	Specific goal	Restore disturbed floodplain, and remediation of the old landfill	Flood
JZIS CHIZ CHBUHISVIILE	Minnesota River Quadrant (MRQ) climate		Specific goal	Consider an urban company and remensioner or the remember of another	1000
J214 CP12 Ci-Burnsville	resiliency	Economic Development	Specific goal	is proposed Y	Development Low Impact Devel
	Minnesota River Quadrant (MRQ) climate				a color a construction of the construction of
J215 CP12 Ci-Burnsville	resiliency	Economic Development	Specific goal	Allow for green roofs	Open and Green
	Minnesota River Quadrant (MRQ) climate				
J216 CP12 Ci-Burnsville	resiliency	Economic Development	Specific goal	Implement stormwater reuse (evaporated heat loss)	Stormwater
	Promote protection, conservation, and enhancement of natural resources within				
	Burnsville for the community's long-term			Manage the community's wildlife resources to protect and preserve native	
J217 CP12 Ci-Burnsville	use.	Wildlife	General goal	habitat and wildlife, and to protect human safety.	Vegetation
	Promote protection, conservation, and				
	enhancement of natural resources within	1		Develop, redevelop, and maintain an organized system of open space, trails for	
	Burnsville for the community's long-term	1		biking and running, greenways, corridors, and active and passive parks to	
J218 CP12 Ci-Burnsville	use.	Natural Resources	General goal	improve community character and protect natural resources.	Corridors
	Preserve, enhance, and restore the				
	Minnesota River Valley as a natural area				
J219 CP12 Ci-Burnsville	and for public use with compatible private amenities.	Recreation	General goal	Maximize appropriate recreational opportunities, business and economic activities in concert with overall river valley development.	Increase River Use
JZ15 CF12 CFDUITSVIIIE	private amenities.	Necreation	General godi	The Lower Minnesota River Dissolved Oxygen TMDL was approved in 2004,	Increase river use
				with the Implementation Plan being approved in 2006. The City has continued	
				to require stormwater BMPs for new and redevelopment and have also	
				implemented BMPs during City projects to reduce TP loading to the Minnesota	
	The Minnesota River has been listed as			River. The City will work with the MPCA, Watershed Districts, and Watershed	
	impaired by the MPCA for Fecal Coliform			Management Organizations to develop Total Maximum Daily Loads (TMDLs) for	
J22 MP8 Savage SW	Mercury, PCB, Dissolved oxygen	Water Quality	General goal	the impaired waters within their boundaries. Y	Stormwater Impaired.TMDL
	Preserve, enhance, and restore the Minnesota River Valley as a natural area				
	and for public use with compatible			In addition to open space preservation, promote recreation and cultural	
J220 CP12 Ci-Burnsville	private amenities.	Recreation	General goal	opportunities associated with the Minnesota River corridor.	Increase River Use
SEED OF TE OF DURING THE	Preserve, enhance, and restore the	hereadon	General Sour		indease invertose
	Minnesota River Valley as a natural area			Participate with other organizations, agencies and land owners to enhance, and	
	and for public use with compatible			restore the Minnesota River and adjacent lands for public use and as valuable	
J221 CP12 Ci-Burnsville	private amenities.	Recreation	General goal	wildlife habitat.	Increase River Use
				Continue to work with the U.S. Army Corps of Engineers and Lower Minnesota	
	Preserve, enhance, and restore the			River Watershed District to allow dredge material sites at the Burnsville	
	Minnesota River Valley as a natural area and for public use with compatible			Sanitary Landfill Inc. (BSLI) landfill and Kraemer sites on a short term, interim basis provided the sites are out of view of the Gateway Area. Discourage	
J222 CP12 Ci-Burnsville	private amenities.	Dredge	Specific goal	dredge spoil sites in other areas of the MRQ and east of I-35W.	Navigation.boating
	Preserve, enhance, and restore the	Breege	Specific Boar		http://www.bourney
	Minnesota River Valley as a natural area			Support the Minnesota Pollution Control Agency (MPCA) and Environmental	
	and for public use with compatible			Protection Agency's (EPA)	
J223 CP12 Ci-Burnsville	private amenities.	Water Quality	Specific goal	efforts to close Freeway Landfill in an environmentally sustainable manner. X	
	Protect, improve and recognize the				
	importance of			Work with the regional and state agencies, as well as the local water	
J224 CP12 Ci-Burnsville	preserving the community's valuable water resources and open space.	Water Quality		management organizations, to meet the water quality goals established for the Minnesota River and other waters in Burnsville.	Cooperation
JZZ# CP12 CI-BurnsVIIIe	water resources and open space.	water Quality		Develop programs to preserve, maintain, further enhance and prevent	cooperation
				degradation of surface water resources and interconnected groundwater	
				resources, including lakes, ponding areas, drainage areas, and wetlands by:	
				- Protecting lakes and other water bodies from negative impacts of	
				development, including pollution, sedimentation, and native vegetation	
				removal.	
				- Protecting both surface and ground water from pollutants, including	
	Destant income and second it			hazardous waste, fertilizers, and pesticides.	
	Protect, improve and recognize the importance of			 Protecting surface water from intrusive vegetation that would disturb or destroy its natural ecosystem. 	
	importance of preserving the community's valuable			that would disturb or destroy its natural ecosystem. - Evaluating the use of mitigation measures in the development process to	
J225 CP12 Ci-Burnsville	water resources and open space.	Water Quality	Specific goal	preserve and enhance existing wetlands through the development process. Y	Sediment.Erosion Groundwater
	Partner with private and public sector			Preserve and expression of the second s	
	organizations to maximize the			natural habitat corridors that connect to existing and planned facilities/natural	
J226 CP12 Ci-Burnsville	preservation of natural resources.	Natural Resources	General goal	areas.	Corridors
	Ensure that the development of the MRC	·			
	is not only a commercial success, but tha	t			
J227 CP12 Ci-Burnsville	high quality natural resource and recreational values are also achieved.	Natural Recourses	Conoral!		Development
J227 CP12 CI-Burnsville	Encourage conservation of water	Natural Resources	General goal	Educate property owners and businesses about future cost savings with the use	Development
J228 CP12 Ci-Burnsville	resources.	Water Quantity	General goal	of native plantings, less manicured lawns and tree plantings.	Vegetation
J229 CP12 Ci-Burnsville	TMDL	Water Quantity	Specific goal	Minnesota River TMDL	Impaired.TMDL

				The City will implement the AUAR Mitigation Plan for the Savage Fen Area. This	
				The UTY will implement the AUAR Mitigation Plan for the Savage Fen Area. This includes no new or expanded discharges into the Fen. A Stormwater	
				Management Plan for the Savage Bluff Area was first completed in 2011. This	
				Management Plan to the Savage but Area was inst Completed in 2011. This Plan identified future surface water management for the bluff area upstream	
				of the Savage Fen wetland complex. The primary goals of the study were to	
				or the savage remembership to complex, the primary goals of the study were to a void impacts to the Savage Frem and other natural resources due to stormwater	
				avoid impacts to the sarage reliand other instances due to storing and the sarage reliances due to storing and the sarage reli	
				development of the remaining undeveloped properties that currently drain or	
				could potentially drain to the Savage Fen. Implementation items that were	
				identified included regional facilities,	
	There are concerns that, if not properly			ravine stabilization and water quality retrofits. In 2014, a first phase	
	managed, the quality of stormwater			Stormwater Management Plan was also completed that analyzed the existing	
	runoff entering the Savage Fen complex			capacity of the storm sewer system that discharges to the Credit River to the	
	may have an adverse effect			east. The City will continue to study this area and will identify implementation	
J23 MP8 Savage SW	on the stability of the Fen.		Specific goal	items from the various plans to limit impacts from future development. Y	Stormwater Steep slopes Trout.Fen
J230 CP12 Ci-Burnsville	Invasive Species		Specific goal		Invasives
J231 CP12 Ci-Burnsville	Groundwater Sustainability		Specific goal		Groundwater
J232 CP12 Ci-Burnsville	Climate Change		Specific goal	X	
J233 CP12 Ci-Burnsville	Stormwater System Maintenance	Water Quantity S	Specific goal	Take advantage of opportunities for sustainable land uses, compact housing	Stormwater
J234 CP12 Ci-Burnsville	Natural environment energy reduction	Open Space S	Specific goal	Take advantage of opportunities for sustainable and uses, compact nousing and open spaces	Open and Green
J234 CP12 CI-Burnsville	Natural environment energy reduction	Open space S	specific goal	and open spaces	Open and Green
				Take advantage of integrated park and wildlife corridor opportunities to create	
J235 CP12 Ci-Burnsville	Natural environment energy reduction	Wildlife	Specific goal	better wildlife as well as human bik/pedestrian connections and travel	Corridors
J236 CP12 Ci-Burnsville	Natural environment energy reduction		Specific goal	Encourage low-maintenance, native, pollinator-supporting landscaping	Vegetation
	Natural environment sustainable water			Implement land restoration projects to restore/maintain infiltration and native	
J237 CP12 Ci-Burnsville	supply	Water Quality S	Specific goal	landscapes	Vegetation
	Natural environment sustainable water				
J238 CP12 Ci-Burnsville	supply	Water Reuse S	Specific goal	Identify and capitalize upon water reuse projects X	
J239 CP12 Ci-Burnsville	Natural environment sustainable water supply	Water Quality S	Specific goal	Contribute to pollutant reductions necessary to bring impaired waters into compliance with state water quality standards	Impaired.TMDL
32.37 CF12 CI-BUINSVINE	Eagle Creek has been noted as having	water Quality S	sharun Rogi	Compinance with state water quality statuarus	mparcu.rMDL
	poor water quality due to E. coli.			The City will work with LMRWD to complete a study to identify BMPs aimed at	
	Temperature patterns have also been			reducing the watershed load to the creek for E. coli. The City will continue to	
J24 MP8 Savage SW	noted as a concern within the Creek.	Water Quality S	Specific goal	work with the LMRWD as they monitor the temperature patterns of the Creek.	Monitoring
	Natural environment sustainable water			Pursue stormwater management initiatives by participating in local/regional	
J240 CP12 Ci-Burnsville	supply Natural environment efficient use of	Water Quality S	Specific goal	partnerships to develop innovative and consistent practices	Stormwater
J241 CP12 Ci-Burnsville	infrastructure and land	Water Quality	Specific goal	Protect steep slopes, bluffs, and other sensitive environmental features Y	Unique.Sensitive.h Steep slopes
J241 Cr12 Cr-burnsvine	Natural environment natural resource	water quanty .	Specific goal	riotect steep slopes, brans, and other sensitive environmental reactives	onique.sensitive.n steep slopes
J242 CP12 Ci-Burnsville	conservation	Invasive Species S	Specific goal	Conduct programs to remove/mitigate invasive species	Invasives
	Natural Resource Management Plan			Increase green space and usage of infiltration techniques to replenish	
J243 CP12 Ci-Burnsville	Sustainable Water Supply	Water Quantity S	Specific goal	groundwater	Groundwater
J244 CP12 Ci-Burnsville	Natural Resource Management Plan efficient use of infrastructure and land	Land Use S	Specific goal	Work with partners to conserve land	Cooperation
J244 CP12 CI-Burnsville	Natural Resource Management Plan	Land Use S	specific goai	work with partners to conserve rand	Cooperation
J245 CP12 Ci-Burnsville	natural resource conservation	Open Space S	Specific goal	Continue natural vegetation conversion for passive park areas	Vegetation
	Wetland Protection and Management				•
J246 CP12 Ci-Burnsville	Plan Sustainable Water Supply	Wetlands S	Specific goal	Restore wetlands to promote groundwater recharge	Groundwater
	Wetland Protection and Management				
J247 CP12 Ci-Burnsville	Plan Natural Resource Conservation Wetland Protection and Management	Wetlands S	Specific goal	Implement wetland restoration projects identified in inventory Continue protection of wetlands to provide water and natural habitat	Wetlands
J248 CP12 Ci-Burnsville	Plan Climate Resiliency	Wetlands	Specific goal	continue protection or wetains to provide water and natural montat	Wetlands
senter en barristine	Water Resources Management	Wettands .	Specific Boar	Implement daylighting of surface water resources strategies (restore natural	Telendo -
J249 CP12 Ci-Burnsville	Sustainable Water Supply	Water Quality S	Specific goal	channels and corridors) where appropriate	Corridors
				Construct drainage improvements to correct flooding and drainage related	
J25 MP8 Savage SW	Downtown Savage localized flooding	Flooding 0	General goal	issues at each of these locations.	Flood
J250 CP12 Ci-Burnsville	Water Resources Management Sustainable Water Supply	Water Quality	Enocific goal	Shift the emphasis of stormwater infrastructure towards capture, infiltration, and utilization	Stormwater
JZJU CP12 CI-Burnsville	Water Resources Management Natural	Water Quality S	Specific goal	Identify and capitalize on opportunities to convert vegetation to passive park	Stoffiwater
J251 CP12 Ci-Burnsville	Resource Conservation	Open Space S	Specific goal	spaces	Vegetation
			· · ·	Consider the establishment of buffer standards (minimum 50 foot width) for	
				lands located adjacent to major natural open space areas such as Murphy-	
	Natural Environment Area - natural			Hanrehan Park Reserve, Rudy L. Kramer Nature Preserve and the Minnesota	
J252 CP12 Ci-Burnsville	resources	Buffer S	Specific goal	Valley National Wildlife Refuge	Open and Green
				Partner with Kraemer Mining and Manufacturing (KMM) to establish water quality goals, a healthy lake fishery, protection measures for future drinking	
	Natural Environment Area - water			water resources, development standards, and to establish shorelines that are	
J253 CP12 Ci-Burnsville	resources	Water Quality S	Specific goal	naturally shaped and aesthetically pleasing	Cooperation
				Coordinate with the City of Savage, Scott and Dakota Counties and the	
	Work to integrate multiple methods of			Metropolitan Council to identify the area where the Minnesota River Greenway	
	transportation into the existing and			and Black Dog segment of the Big Rivers Regional Trail will be connected. Focus	
J254 CP12 Ci-Burnsville	future transportation system that are safe and convenient	Transportation	General goal	on the westerly extension of 124th Street as a possible trail corridor for the new connection. Y	Corridors Increase River Use
32.54 CF12 CI-BUITISVIIIE	Work to coordinate the development of	mansportation (uerierai goai	ier conceton. Y	
	the transportation needs of the MRQ			Work with MnDOT and Dakota County to determine the access needs of MRQ	
J255 CP12 Ci-Burnsville	development.	Transportation 0	General goal	to the state and county roadway systems.	Development
				Complete trail connections on Cliff Road, the Lake Marion Regional Trail and	
J256 CP12 Ci-Burnsville	Expand non-motorized use	Transportation S	Specific goal	along the Minnesota River	Increase River Use
	Ensure that development and			Continue to require the dedication of park land, or payment of cash in lieu of	
	redevelopment provides for adequate			Land, for all commercial, industrial, and residential development, in accordance	
J257 CP12 Ci-Burnsville	parks and open space.	Open Space 0	General goal	with the park dedication policy, Subdivision Ordinance and state law.	Development

J284 CP20 Ci-Eagan	natural resources goals/policies	Education	General goal	To create and support initiatives that encourage residents and neighborhood groups to take specific actions, to become involved, and to join together to	
J284 CP20 Ci-Eagan	natural resources goals/policies	Education	General goal		
		Education	General goal	in order to protect them from detrimental impacts.	Public engagement.education
J283 CP20 Ci-Eagan	natural resources goals/policies	Recreation	General goal	and learn about the natural environment. X To expand knowledge and understanding of natural resources and ecosystems	
1202 0020 01 5			Conservations	To provide high quality opportunities for residents and visitors to experience	
J282 CP20 Ci-Eagan	natural resources goals/policies	Erosion & Sediment	General goal	quality, plant communities, and natural habitats.	Sediment.Erosion
J281 CP20 Ci-Eagan	natural resources goals/policies	Wildlife	General goal	foster biological diversity. To control runoff and erosion to prevent negative impacts to surface water	Natural Resource Protection
				To protect and preserve rare or endangered flora and fauna, where feasible, to	
J280 CP20 Ci-Eagan	natural resources goals/policies	Open Space	General goal	To work with Dakota County and other agencies to maintain and acquire, where feasible, natural greenway corridors to foster ecosystem continuity.	Corridors
J28 MP8 Savage SW	invasive species	Water Quality	General goal	address areas as needed. Y	Monitoring Invasives
J279 CP20 Ci-Eagan	natural resources goals/policies Vegetation management due to aquatic	Open Space	General goal	expanses of natural landscapes. Monitor any known areas where aquatic invasive species are prevalent and	Open and Green
				wildlife habitats by minimizing fragmentation of previously uninterrupted	
				To protect and properly manage large public open spaces and to preserve significant elements of the "pre-development" natural environment and	
J278 CP20 Ci-Eagan	natural resources goals/policies	Natural Resources	General goal	groundwater recharge areas, and wildlife habitats.	Groundwater
				To provide adequate protection, preservation and enhancement of natural resources such as scenic views, woodlands, prairies, lakes, wetlands,	
J277 CP20 Ci-Eagan	trail development	Recreation	General goal	recreational needs while accommodating a variety of skill levels	Development
				Develop an interconnected system of trails that serve transportation and	
J276 CP20 Ci-Eagan	Natural resource preservation	Open Space	Specific goal	preservation methods and regulations are described in the park plan as well as the Water Quality and Wetland Management Plan.	Corridors
				preservation and an assessment of programs, policies, and resource	
				considerations; preservation of the community's historical perspective; and to provide environmental education. The rationale supporting resource	
				water detention and aquatic recharge areas; visual relief and aesthetic	
				movement corridors; preservation of rare or endangered flora and fauna; storm	
J275 CP20 Ci-Eagan	Open and Green Space	Open Space	Specific goal	needed for the public good. Y Preservation efforts are important to the maintenance of wildlife habitat and	Unique.Sensitive.h Corridors
				contribute to an established park or greenway or that provide another feature	
				a case by case basis and strive to acquire only those that have unique and/or vanishing natural characteristics that need to preserved, that significantly	
C C C C C C C C C C C C C C C C C C C				The goal for open space should be to evaluate remaining undeveloped areas on	
J274 CP20 Ci-Eagan	Minnesota Riverfront	Recreation	Specific goal	continuing to develop greenway trails and corridor for this area as part of their Visioning process. Y	Corridors Navigation.boating Increase River Use
				additional attraction for Eagan residents and employees. Dakota County is	
				to this area in the future to leverage the natural beauty and river access into an	
				needs to be done with State and Federal agencies to determine what, if any, types of recreational and public amenities or increased access could be added	
				remains somewhat limited, although having improved over time. Research	
J273 CP20 Ci-Eagan	Recreation strategies	Recreation	General goal	value will accrue to the residents of Eagan Access to the Minnesota riverfront area along the northwest border of Eagan	Open and Green
				Protect and, as feasible, increase open space and natural resources where clear	•
J272 CP20 Ci-Eagan	Recreation strategies	Recreation	General goal	commutes, recreational activity, and access to facilities by means other than private motor vehicles	Vegetation
				Provide trails and alternative methods of transportation to make possible commutes, recreational activity, and access to facilities by means other than	
J271 CP20 Ci-Eagan	Recreation strategies	Recreation	General goal	public demand warrants the action	Cooperation
				Identify opportunities to partner with interested parties for the development of new and unique and special facilities where either economic criteria or	
J270 CP20 Ci-Eagan	Open and Green Space		General goal	Acquire other significant resources as opportunities arise	Open and Green
J27 MP8 Savage SW	Eutrophication	Water Quality	General goal	residents on use of fertilizers, lawn care practices, and pet waste management to minimize algae blooms, etc.	Stormwater
	· · · · · · · · · · · · · · · · · · ·		-	Continue to improve stormwater treatment practices. Continue to educate	
J268 CP20 Ci-Eagan J269 CP20 Ci-Eagan	Open and Green Space Open and Green Space		General goal General goal	Preserve/Maintain green space and open space Obtain high quality natural areas for continuous greenways	Open and Green Corridors
J267 CP20 Ci-Eagan J268 CP20 Ci-Eagan	Year Round Open and Green Space		General goal	Preserve and restore habitat for plants and animals	Natural Resource Protection Open and Green
	Provide Healthy Living Opportunities			· · · · · · · · · · · · · · · · · · ·	
J266 CP20 Ci-Eagan	Provide Healthy Living Opportunities Year Round		General goal	Support and facilitate trails, sidewalks, and on-street bikeways for recreation and transportation	Trails
J265 CP20 Ci-Eagan	placemaking		General goal	Creating more pedestrian and bicycle links to parks and green spaces.	Open and Green
J264 CP20 Ci-Eagan	connections	Land Use	General goal	Facilitate connections to the greater metropolitan area through enhanced transit connections to major destinations like downtown St. Paul. X	
J263 CP20 Ci-Eagan	active and healthy living			support walking and biking with additional trails and connections	Trails
J262 CP20 Ci-Eagan	sustainability and resilience strategies	Land Use	General goal	Encourage the use of stormwater management techniques which have a low impact on the environment while providing an attractive community amenity	Stormwater
J261 CP20 Ci-Eagan	sustainability and resilience strategies	Land Use	General goal	long-term conservation easements, buffers and acquisitions.	Open and Green
J260 CP20 Ci-Eagan	sustainability and resilience strategies	Land Use	General goal	sensitive areas, including water bodies and wetlands Support the protection of open spaces and important natural features through	Unique.Sensitive.high value
	and a local data and a second s			Support appropriate separation between development and ecologically	Unious Completion bish unlug
J26 MP8 Savage SW	13 near the downtown area limits development.	Flooding	Specific goal	MINDINK, and LMRWD. Y	Flood Development
	Credit River floodway south of Highway			could be revised. Once the study is completed it will be shared with FEMA, MnDNR. and	
and a reasonable	ke er			A study began in the fall of 2019 to determine if the Credit River floodway	
J259 CP12 Ci-Burnsville	redevelopment provides for adequate parks and open space.	Open Space	General goal	Support development of the Minnesota Riverfront area of the MRQ for public park and recreation facilities and natural open space. Y	Development Increase River Use
	Ensure that development and				
J258 CP12 Ci-Burnsville	redevelopment provides for adequate parks and open space.	Open Space	General goal	the landfill (upon review and evaluation of a need for golf course facilities at that time).	Development
	Ensure that development and			(open to the public), on the Burnsville Sanitary Landfill site following closure of	
				Support the development and operation of a private golf course and clubhouse	

J286 CP20 Ci-Eagan	Resource Protection and Management	Open Space Ger	neral goal	The City will strive to maintain existing natural greenway corridors connecting parks and open space.	Corridors
				The City will continue to identify and acquire, when feasible, significant habitat	
				areas and areas of unique plant and animal species to ensure their preservation	
J287 CP20 Ci-Eagan	Resource Protection and Management	Wildlife Ger	neral goal	for posterity.	Unique.Sensitive.high value
				The City will support efforts of the Metropolitan Parks and Open Space	
				Commission, Dakota County, the Minnesota Department of Natural Resources, and the U.S. Fish and Wildlife Service to protect and preserve endangered and	
J288 CP20 Ci-Eagan	Resource Protection and Management	Open Space Ger	neral goal	threatened species and their natural habitats.	Open and Green
	Resource Protection and Management		incrui goui	The City will continue to initiate inventories and analyses of its natural	open and oreen
J289 CP20 Ci-Eagan	Resource Protection and Management	Natural Resources Ger	neral goal	resources. X	
	Water quality on the Credit River is being	g			
	impacted by stream bank erosion.			The City will continue to address Credit River erosion issues as well as erosion	
	Significant improvements have been made but many smaller opportunities for	_		that is tributary to Credit River. A stream assessment will be completed with partnerships from various agencies to identify specific areas in need of	
J29 MP8 Savage SW	improvement are available.			shoreline restoration.	Sediment Frosion
J25 IVIPO Savage SVV	improvement are available.	water quanty Spe	ecific goal	The City will continue to monitor the condition of priority water and forest	Sediment.Elosion
				resources at a frequency and intensity sufficient to assess trends in their	
J290 CP20 Ci-Eagan	Resource Protection and Management	Natural Resources Ger	eneral goal	conditions over the long term.	Monitoring
				The City is committed to initiating and working with other organizational units	
				to develop and test new techniques that will improve the effectiveness of	
J291 CP20 Ci-Eagan	Resource Protection and Management	Natural Resources Ger	neral goal	natural resource management efforts. X The City will protect lakes and wetlands from impacts of land development and	
				re-development activities, to the extent technically and financially feasible,	
J292 CP20 Ci-Eagan	Lakes and Wetlands	Water Quality Ger	eneral goal	through control of stormwater runoff pollutants from watersheds.	Stormwater
				The City will manage lakes and wetlands using scientifically-based, common	
				sense approaches that meet or exceed regional, state, and federal regulatory	
J293 CP20 Ci-Eagan	Lakes and Wetlands	Water Quality Ger	neral goal	requirements.	Wetlands
				The City will manage lakes to achieve clear water conditions with abundant and	
J294 CP20 Ci-Eagan	Lakes and Wetlands	Water Quality Ger	neral goal	diverse native-dominated plant communities and according to individual lake management plans.	Vegetation
J254 CP20 CI*Eagaii	Lakes and Wetlands	water quality Ger	illeral goal	The City will manage fisheries populations in lakes using the best available	vegetation
				science, data, and expert advice, considering available resources and expected	
J295 CP20 Ci-Eagan	Lakes and Wetlands	Water Quality Ger	neral goal	fishing pressure. X	
				The City will continue to take a pro-active approach in efforts to identify and	
				treat diseased trees in a timely manner through implementation of the City's	
J296 CP20 Ci-Eagan	Tree Preservation	Invasive Species Ger	neral goal	Shade Tree Disease program. The City will conduct ongoing public awareness and education programs to	Invasives
J297 CP20 Ci-Eagan	environmental education and awareness	Education	neral goal	enhance knowledge of the City's natural resources and environment.	Public engagement.education
JZ57 CF20 CF28gan	Provide a park system that is safe,		inerai goai	emance knowledge of the City's natural resources and environment.	rubic engagement.education
	accessible, and equitable in its offerings				
	to all of Mendota Heights' residents,			Create and maintain a park system that provides the optimum amount of active	
J298 CP19 Ci-Mendota Heig		Recreation Ger	neral goal	and passive open space for the enjoyment of all Mendota Heights residents.	Open and Green
	Provide a park system that is safe, accessible, and equitable in its offerings				
	to all of Mendota Heights' residents,			Plan and build safe connections for pedestrians and bicyclists within and	
J299 CP19 Ci-Mendota Heig		Recreation Ger	neral goal	between park facilities and major destinations in the community	Trails
				The City will cooperate with the Cooperators of the PLOC to evaluate channel	
				capacity and flooding concerns, and support operation and maintenance to	
				address channel capacity, flooding, and erosion. As development occurs along	
				the PLOC, the city will work with the PLOC cooperators to evaluate	
J3 MP5 Shakopee SW	Flooding and erosion	Flooding Spe	ecific goal	opportunities to improve and address any channel capacity, flooding, and/or erosion issues. Y	Flood Sediment.Erosion Cooperation
35 IVIES SILakopee SW	Erosion control at construction sites	rioounig Spe	eenie goai	er usion rissues.	nood seument.crosion cooperation
	continues to be an area with opportunity	/		Provide inspections of all construction sites. Continue to implement City's MS4	
J30 MP8 Savage SW	for improvement.		eneral goal	SWPPP.	Sediment.Erosion
	Use the park system as a means to				
	enhance and sustain the environment of				
J300 CP19 Ci-Mendota Heig	each neighborhood and the city as a	Water Quality Ger	ineral goal	Ensure that stormwater is managed in park facilities in a manner that protects and preserves water quality and the ecology of the watershed.	Stormwater
1300 CF13 CI-IVIENDOLA Heig	Cooperate with Dakota County and	water quality Gel	eneral goal	and preserves water quality and the ecology of the watershed.	Storniwater
	surrounding communities in park and			Improve and expand safe bicycle and pedestrian connections to city parks and	
J301 CP19 Ci-Mendota Heig	nts recreation facilities and programming	Recreation Ger	eneral goal	other community destinations.	Cooperation
	Develop a professional, comprehensive,			Develop capabilities to monitor and implement the Natural Resources	
	strategic Natural Resources Managemen	t		Management Plan through city staff expertise, as well as through partnerships	
1202 CD10 CLM	Plan for city-wide natural areas and	Network Deservoires		with community groups, volunteers, and adjacent communities and agencies,	Maritanian Development
J302 CP19 Ci-Mendota Heig	its natural resources.	Natural Resources Ger	eneral goal	thus recognizing the interconnectedness of ecosystems. Y Develop site-specific management plans that identify and prioritize	Monitoring Development
	Develop a professional, comprehensive,			opportunities to enhance and protect the city's high-quality areas and address	
	strategic Natural Resources Managemen	t		significant issues, such as: vegetation plans, tree planting plans, tree	
	Plan for city-wide natural areas and			inventories, green infrastructure, surface waters, roadside restoration, wildlife	
J303 CP19 Ci-Mendota Heig		Natural Resources Ger	eneral goal	management, tree diseases, pests, and invasive species Y	Invasives Development Low Impact Devel
	Develop a professional, comprehensive,				
	strategic Natural Resources Managemen Plan for city-wide natural areas and	τ		Sock partnerships and grant experimities to help implement patient exercises	
J304 CP19 Ci-Mendota Heig		Natural Resources Ger	neral goal	Seek partnerships and grant opportunities to help implement natural resources goals	Development
SSG4 CF15 CHWIENUOLd Helg	Develop a professional, comprehensive,	Gel Gel	anci di gudi	Pono	ocyclopment
	strategic Natural Resources Managemen	t			
	Plan for city-wide natural areas and			Protect steep slopes, bluffs, and other sensitive areas from erosion and other	
J305 CP19 Ci-Mendota Heig	nts natural resources.	Erosion & Sediment Ger	eneral goal	threats, specifically throughout the development process Y	Unique.Sensitive.h Development Sediment.Erosic Steep slopes

Protect, connect, restore, buffer, and			
manage natural areas, wildlife habitat,		Monitor tree disease and pest outbreaks (i.e. Emerald Ash Borer) with the	
and other natural resources, for high		implementation of control and replanting programs, such as an Integrated Pest	
ecological quality and diversity of plant		Management program, for current tree diseases as well as emerging diseases	
J306 CP19 Ci-Mendota Heights and animal species	Invasive Species General goal	and bests. Y	Monitoring Invasives
Protect, connect, restore, buffer, and	Invasive species General goal		Wohltoning invasives
manage natural areas, wildlife habitat.			
and other natural resources, for high			
ecological quality and diversity of plant		Continue to partner with outside agencies and community groups to monitor	
J307 CP19 Ci-Mendota Heights and animal species	Invasive Species General goal	and control invasive species and noxious weeds. Y	Monitoring Invasives
Protect, connect, restore, buffer, and			
manage natural areas, wildlife habitat,			
and other natural resources, for high		Restore areas throughout the city with pollinator-friendly or native species to	
ecological quality and diversity of plant		protect and enhance habitat for , native pollinators and birds in accordance with	
J308 CP19 Ci-Mendota Heights and animal species	Pollinator General goal	City Resolution 2016-01 (see Appendix - E).	Vegetation
Protect, connect, restore, buffer, and	Poliiliatoi Gelielai goai	City Resolution 2010-01 (see Appendix - E).	vegetation
manage natural areas, wildlife habitat,			
and other natural resources, for high			
ecological quality and diversity of plant			
J309 CP19 Ci-Mendota Heights and animal species	Wildlife General goal	Monitor wildlife populations and address over-population as needed.	Monitoring
		Previously addressed by improvements to storm sewer systems. Currently	
J31 MP8 Savage SW Potential impacts to Eagle Creek.	Water Quality Specific goal	monitored by Eagle Creek Aquatic Management Area Committee.	Monitoring
Protect, connect, restore, buffer, and		· · · · · ·	
manage natural areas, wildlife habitat,			
and other natural resources, for high			
ecological quality and diversity of plant			
		Look for appartualities to reduce or minimize impagnious course situ wide	
J310 CP19 Ci-Mendota Heights and animal species	Water Quality General goal	Look for opportunities to reduce or minimize impervious cover city-wide. X	
Protect, connect, restore, buffer, and			
manage natural areas, wildlife habitat,			
and other natural resources, for high		Emphasize the use of, and identify areas including public open space and park	
ecological quality and diversity of plant		land, that could be restored to include native species, pollinator plants, wildlife	
J311 CP19 Ci-Mendota Heights and animal species	Open Space General goal	habitat, or turf alternatives.	Open and Green
Protect and restore the natural ecologic	cal		
functions of the city's water resources		Work with partners to implement projects and develop and support programs	
with emphasis on the improvement of		that encourage infiltration, to reduce stormwater runoff and pollution to water-	
J312 CP19 Ci-Mendota Heights stormwater management.	Water Quality General goal	bodies	Stormwater
ssie er is er mendeta negnes stormater management.	Water Quality Center ungour	5000	Storinieter
Protect and restore the natural ecologic			
functions of the city's water resources	ai	Work with partners to monitor Aquatic Invasive Species (AIS). Set goals for AIS	
with emphasis on the improvement of		removal and management, and reintroduction of native species. Educate	
J313 CP19 Ci-Mendota Heights stormwater management.	Invasive Species General goal	lakeshore owners and residents about AIS Y	Stormwater Monitoring Invasives
Protect and restore the natural ecologic	.al	Identify areas within the city, including public and private land that are lacking	
functions of the city's water resources		adequate stormwater treatment, and other stormwater BMPs. Implement	
with emphasis on the improvement of		projects to establish functioning stormwater treatment in order to protect and	
J314 CP19 Ci-Mendota Heights stormwater management.	Water Quality General goal	improve the city's water resources.	Stormwater
Protect and restore the natural ecologic	;al		
functions of the city's water resources			
with emphasis on the improvement of		Implement the city's Local Surface Water Management Plan (LSWMP) through	
J315 CP19 Ci-Mendota Heights stormwater management.	Water Quality General goal	the use of ordinances, policies, and development standards.	Stormwater
Protect and restore the natural ecologic	al		
functions of the city's water resources			
		Corrections toward monthing the Minneseta Dollution Control Agency/s	
with emphasis on the improvement of	Water Ovality	Carry out steps toward meeting the Minnesota Pollution Control Agency's	Character
J316 CP19 Ci-Mendota Heights stormwater management.	Water Quality General goal	(MPCA) Swimmable, Fishable, Fixable water quality standards.	Stormwater
Destant and entered in the start of the	1		
Protect and restore the natural ecologic	.01		
functions of the city's water resources			
with emphasis on the improvement of			
with emphasis on the improvement of J317 CP19 Ci-Mendota Heights stormwater management.	Water Quality General goal	Manage public riparian areas to be resilient to stormwater runoff.	Stormwater
J317 CP19 Ci-Mendota Heights stormwater management.	Water Quality General goal	Manage public riparian areas to be resilient to stormwater runoff.	Stormwater
J317 CP19 Ci-Mendota Heights stormwater management. Enhance and provide public education	Water Quality General goal	Manage public riparian areas to be resilient to stormwater runoff.	Stormwater
J317 CP19 Ci-Mendota Heights stormwater management.	Water Quality General goal	Manage public riparian areas to be resilient to stormwater runoff.	Stormwater
J317 CP19 Ci-Mendota Heights stormwater management. Enhance and provide public education	Water Quality General goal	Manage public riparian areas to be resilient to stormwater runoff.	Stormwater
J317 CP19 Ci-Mendota Heights stormwater management. Enhance and provide public education and understanding of nature, natural	Water Quality General goal		Stormwater
J317 CP19 Ci-Mendota Heights stormwater management. Enhance and provide public education and understanding of nature, natural systems, and environmental issues by providing program, materials, and		Continue to develop, improve, and expand audiences through the use of diverse methods of education and outreach including: programs, field trips,	Stormwater
J317 CP19 Ci-Mendota Heights stormwater management. Enhance and provide public education and understanding of nature, natural systems, and environmental issues by providing programs, materials, and information; while promoting a culture	of	Continue to develop, improve, and expand audiences through the use of diverse methods of education and outreach including: programs, field trips, brochures, exhibits, signage, articles, website, video, social media, service	
J317 CP19 Ci-Mendota Heights stormwater management. Enhance and provide public education and understanding of nature, natural systems, and environmental issues by providing program, materials, and	of	Continue to develop, improve, and expand audiences through the use of diverse methods of education and outreach including: programs, field trips,	Stormwater Public engagement education
J317 CP19 Ci-Mendota Heights stormwater management. Enhance and provide public education and understanding of nature, natural systems, and environmental issues by providing programs, materials, and information; while promoting a culture. J318 CP19 Ci-Mendota Heights stewardship on public and private lands	of	Continue to develop, improve, and expand audiences through the use of diverse methods of education and outreach including: programs, field trips, brochures, exhibits, signage, articles, website, video, social media, service	
J317 CP19 Ci-Mendota Heights stormwater management. Enhance and provide public education and understanding of nature, natural systems, and environmental issues by providing programs, materials, and information; while promoting a culture J318 CP19 Ci-Mendota Heights stewardship on public and private lands Enhance and provide public education	of	Continue to develop, improve, and expand audiences through the use of diverse methods of education and outreach including: programs, field trips, brochures, exhibits, signage, articles, website, video, social media, service	
J317 CP19 Ci-Mendota Heights stormwater management. Enhance and provide public education and understanding of nature, natural systems, and environmental issues by providing programs, materials, and information; while promoting a culture J318 CP19 Ci-Mendota Heights stewardship on public and private lands Enhance and provide public education and understanding of nature, natural	of	Continue to develop, improve, and expand audiences through the use of diverse methods of education and outreach including: programs, field trips, brochures, exhibits, signage, articles, website, video, social media, service	
J317 CP19 Ci-Mendota Heights stormwater management. Enhance and provide public education and understanding of nature, natural systems, and environmental issues by providing programs, materials, and information; while promoting a culture J318 CP19 Ci-Mendota Heights stewardship on public and private lands Enhance and provide public education and understanding of nature, natural systems, and environmental lissues by	of	Continue to develop, improve, and expand audiences through the use of diverse methods of education and outreach including: programs, field trips, brochures, exhibits, signage, articles, website, video, social media, service learning, and community gatherings and events.	
J317 CP19 Ci-Mendota Heights stormwater management. Enhance and provide public education and understanding of nature, natural systems, and environmental issues by providing programs, materials, and information; while promoting a culture J318 CP19 Ci-Mendota Heights stewardship on public and private lands Liste Enhance and provide public education and understanding of nature, natural systems, and environmental issues by providing programs, materials, and	of General goal	Continue to develop, improve, and expand audiences through the use of diverse methods of education and outreach including: programs, field trips, brochures, exhibits, signage, articles, website, video, social media, service learning, and community gatherings and events. Collaborate with other agencies, such as Watershed Districts, Watershed	
J317 CP19 Ci-Mendota Heights stormwater management. Enhance and provide public education and understanding of nature, natural systems, and environmental issues by providing programs, materials, and information; while promoting a culture J318 CP19 Ci-Mendota Heights stewardship on public and private lands Enhance and provide public education and understanding of nature, natural systems, and environmental issues by providing programs, materials, and information; while promoting a culture	of Education General goal	Continue to develop, improve, and expand audiences through the use of diverse methods of education and outreach including: programs, field trips, brochures, exhibits, signage, articles, website, video, social media, service learning, and community gatherings and events. Collaborate with other agencies, such as Watershed Districts, Watershed Management Organizations, and surrounding County and Metropolitan Cities	Public engagement.education
J317 CP19 Ci-Mendota Heights stormwater management. Enhance and provide public education and understanding of nature, natural systems, and environmental issues by providing programs, materials, and information; while promoting a culture J318 CP19 Ci-Mendota Heights stewardship on public and private lands Liste Enhance and provide public education and understanding of nature, natural systems, and environmental issues by providing programs, materials, and	of Education General goal	Continue to develop, improve, and expand audiences through the use of diverse methods of education and outreach including: programs, field trips, brochures, exhibits, signage, articles, website, video, social media, service learning, and community gatherings and events. Collaborate with other agencies, such as Watershed Districts, Watershed Management Organizations, and surrounding County and Metropolitan Cities to share information and ideas regarding natural resources. Y	
J317 CP19 Ci-Mendota Heights stormwater management. Enhance and provide public education and understanding of nature, natural systems, and environmental issues by providing programs, materials, and information; while promoting a culture J318 CP19 Ci-Mendota Heights stewardship on public and private lands Enhance and provide public education and understanding of nature, natural systems, and environmental issues by providing programs, materials, and information; while promoting a culture	of Education General goal	Continue to develop, improve, and expand audiences through the use of diverse methods of education and outreach including: programs, field trips, brochures, exhibits, signage, articles, website, video, social media, service learning, and community gatherings and events. Collaborate with other agencies, such as Watershed Districts, Watershed Management Organizations, and surrounding County and Metropolitan Cities to share information and ideas regarding natural resources. Work to minimize rundif Volume to the Crefit River by minimizing runoff from	Public engagement.education
J317 CP19 Ci-Mendota Heights stormwater management. Enhance and provide public education and understanding of nature, natural systems, and environmental issues by providing programs, materials, and information; while promoting a culture J318 CP19 Ci-Mendota Heights stewardship on public and private lands Enhance and provide public education and understanding of nature, natural systems, and environmental issues by providing programs, materials, and information; while promoting a culture	of Education General goal	Continue to develop, improve, and expand audiences through the use of diverse methods of education and outreach including: programs, field trips, brochures, exhibits, signage, articles, website, video, social media, service learning, and community gatherings and events. Collaborate with other agencies, such as Watershed Districts, Watershed Management Organizations, and surrounding County and Metropolitan Cities to share information and ideas regarding natural resources. Work to minimize runoff volume to the Credit River by minimizing runoff from new development. And redevelopment. This includes continued implementation	Public engagement.education
J317 CP19 Ci-Mendota Heights stormwater management. Enhance and provide public education and understanding of nature, natural systems, and environmental issues by providing programs, materials, and information; while promoting a culture J318 CP19 Ci-Mendota Heights stewardship on public and private lands Enhance and provide public education and understanding of nature, natural systems, and environmental issues by providing programs, materials, and information; while promoting a culture	of Education General goal	Continue to develop, improve, and expand audiences through the use of diverse methods of education and outreach including: programs, field trips, brochures, exhibits, signage, articles, website, video, social media, service learning, and community gatherings and events. Collaborate with other agencies, such as Watershed Districts, Watershed Management Organizations, and surrounding County and Metropolitan Cities to share information and ideas regarding natural resources. Work to minimize runoff volume to the Credit River by minimizing runoff from new development and redevelopment. This includes continued implementation of the City's stormwater volume reduction Orlinance and Policy. The City will	Public engagement.education
J317 CP19 Ci-Mendota Heights stormwater management. Enhance and provide public education and understanding of nature, natural systems, and environmental issues by providing programs, materials, and information; while promoting a culture J318 CP19 Ci-Mendota Heights stewardship on public and private lands Enhance and provide public education and understanding of nature, natural systems, and environmental issues by providing programs, materials, and information; while promoting a culture	of Education General goal	Continue to develop, improve, and expand audiences through the use of diverse methods of education and outreach including: programs, field trips, brochures, exhibits, signage, articles, website, video, social media, service learning, and community gatherings and events. Collaborate with other agencies, such as Watershed Districts, Watershed Management Organizations, and surrounding County and Metropolitan Cities to share information and ideas regarding natural resources. Work to minimize runoff Volume to the Creft River by minimizing runoff from new development and redevelopment. This includes continued implementation of the City's stormwater volume reduction Ordinance and Policy. The City will also look	Public engagement.education
J317 CP19 Ci-Mendota Heights stormwater management. Enhance and provide public education and understanding of nature, natural systems, and environmental issues by providing programs, materials, and information; while promoting a culture J318 CP19 Ci-Mendota Heights stewardship on public and private lands Enhance and provide public education and understanding of nature, natural systems, and environmental issues by providing programs, materials, and information; while promoting a culture	of Education General goal	Continue to develop, improve, and expand audiences through the use of diverse methods of education and outreach including: programs, field trips, brochures, exhibits, signage, articles, website, video, social media, service learning, and community gatherings and events. Collaborate with other agencies, such as Watershed Districts, Watershed Management Organizations, and surrounding County and Metropolitan Cities to share information and ideas regarding natural resources. Work to minimize runoff volume to the Credit River by minimizing runoff from new development and redevelopment. This includes continued implementation of the City's stormwater volume reduction Orlinance and Policy. The City will	Public engagement.education
J317 CP19 Ci-Mendota Heights stormwater management. Enhance and provide public education and understanding of nature, natural systems, and environmental issues by providing programs, materials, and information; while promoting a culture J318 CP19 Ci-Mendota Heights stewardship on public and private lands Enhance and provide public education and understanding of nature, natural systems, and environmental issues by providing programs, materials, and information; while promoting a culture J319 CP19 Ci-Mendota Heights stewardship on public and private lands Runoff volumes may be impacting the Runoff volumes may be impacting the	of Education General goal	Continue to develop, improve, and expand audiences through the use of diverse methods of education and outreach including: programs, field trips, brochures, exhibits, signage, articles, website, video, social media, service learning, and community gatherings and events. Collaborate with other agencies, such as Watershed Districts, Watershed Management Organizations, and surrounding County and Metropolitan Cities to share information and ideas regarding natural resources. Work to minimize runoff Volume to the Creft River by minimizing runoff from new development and redevelopment. This includes continued implementation of the City's stormwater volume reduction Ordinance and Policy. The City will also look	Public engagement.education
J317 CP19 Ci-Mendota Heights stormwater management. Enhance and provide public education and understanding of nature, natural systems, and environmental issues by providing programs, materials, and information; while promoting a culture J318 CP19 Ci-Mendota Heights stewardship on public and private lands Enhance and provide public education and understanding of nature, natural systems, and environmental issues by providing programs, materials, and information; while promoting a culture J319 CP19 Ci-Mendota Heights stewardship on public and private lands Runoff volumes may be impacting the Runoff volumes may be impacting the	of Education General goal of Education General goal	Continue to develop, improve, and expand audiences through the use of diverse methods of education and outreach including: programs, field trips, brochures, exhibits, signage, articles, website, video, social media, service learning, and community gatherings and events. Collaborate with other agencies, such as Watershed Districts, Watershed Management Organizations, and surrounding County and Metropolitan Cities to share information and ideas regarding andural resources. Work to minimize runoff volume to the Credit River by minimizing runoff from new development and redevelopment. This includes continued implementation of the City's stormwater volume reduction Ordinance and Policy. The City will also look to identify volume reduction practices within Community Park to limit	Public engagement.education
J317 CP19 Ci-Mendota Heights stormwater management. Enhance and provide public education and understanding of nature, natural systems, and environmental issues by providing programs, materials, and information; while promoting a culture J318 CP19 Ci-Mendota Heights stewardship on public and private lands Enhance and provide public education and understanding of nature, natural systems, and environmental issues by providing programs, materials, and information; while promoting a culture J319 CP19 Ci-Mendota Heights stewardship on public and private lands Runoff volumes may be impacting the Runoff volumes may be impacting the	of Education General goal of Education General goal	Continue to develop, improve, and expand audiences through the use of diverse methods of education and outreach including: programs, field trips, brochures, exhibits, signage, articles, website, video, social media, service learning, and community gatherings and events. Collaborate with other agencies, such as Watershed Districts, Watershed Management Organizations, and surrounding County and Metropolitan Cities to share information and Ideas regarding natural resources. Work to minimize rundif Volume to the Credit River by minimizing runoff from new development and redevelopment. This includes continued implementation of the City's stormwater volume reduction Ordinance and Policy. The City will also look to identify volume reduction practices within Community Park to limit stormwater discharge to the Credit River. The City will parket binit	Public engagement education Public engagement Cooperation

	Enhance and provide public education				
	and understanding of nature, natural				
	systems, and environmental issues by		Develop and promote stormwater educational outreach programs, using		
	providing programs, materials, and		available programs offered through outside agencies, and utilizing volunteer		
	information; while promoting a culture of	f	groups such as Master Gardeners, Master Water Stewards, and Master		
320 CP19 Ci-Mendota Height	s stewardship on public and private lands		Naturalists.	Y	Stormwater Public engagement.education
	Enhance and provide public education				
	and understanding of nature, natural				
	systems, and environmental issues by				
	providing programs, materials, and		Implement, encourage, and sustain collaborative city programs such as		
		4			
221 CD10 Ci Maadata Usiaha	information; while promoting a culture of ts stewardship on public and private lands		residential curb-cut rain gardens and green infrastructure, throughout road re- construction projects	v	Public engagement Cooperation
321 CP19 CI-Mendola Height	is stewardship on public and private lands	Education General goal	construction projects	t	Public engagement cooperation
	Coheren and annuide sublic education				
	Enhance and provide public education				
	and understanding of nature, natural				
	systems, and environmental issues by		Develop and implement city-led initiatives to engage citizens in the		
	providing programs, materials, and		stewardship and care of natural areas and infrastructure through programs		
	information; while promoting a culture of		such as Adopt-a-Park, Adopt-a-Roadside Pollinator Planting, Adopt-a-		
322 CP19 Ci-Mendota Height	s stewardship on public and private lands	Education General goal	Boulevard, Adopt-a-Tree, and Adopt-a-Storm Drain.		Public engagement.education
	Enhance and provide public education		Implement, evaluate, or enhance citizen participation in monitoring		
	and understanding of nature, natural		programs such as the Wetland Health Evaluation Program (WHEP), State and		
	systems, and environmental issues by		Metropolitan Council water monitoring programs, as well as other Citizen		
	providing programs, materials, and		Science monitoring programs that monitor vegetation, aquatic invasive species,		
	information; while promoting a culture of	f	as well as those programs that monitor wildlife such as birds, bats, bees,		
323 CP19 Ci-Mendota Height	s stewardship on public and private lands		aquatic wildlife, and insects	Y	Monitoring Invasives Public engagement.education
	Proactively maintain public health and			· · · · · ·	
	safety during extreme weather and		Consider conducting a Population Vulnerability Assessment and Climate		
	climate-related and other unforeseen		Adaptation Framework plan to outline priority vulnerabilities and identify		
324 CP19 Ci-Mendota Height		Climate Change General goal	available resources to strengthen community capacity to respond	v	
524 CF19 CI-IVIEITUDIa Heigitt	is events	Climate change General goal	Adopt a new MRCCA ordinance overlay district compliant with the goals and	^	
			policies of the MRCCA plan, and with Minnesota Rules, part 6106.0070, Subp. 5		
	Cuide lead use and development and				
	Guide land use and development and redevelopment activities consistent with		Content of Ordinances; and work collaboratively with the MnDNR to address flexibility with the ordinance, if needed, and as noted in previous sections of		
325 CP19 Ci-Mendota Height		t Mississippi River Critical Corridor / General goal	this Plan.	Y	Development Cooperation
	Protect Primary Conservation Areas and				
	minimize impact to PCAs from public and		Adopt a new MRCCA ordinance overlay district compliant with the goals and		
	private development and land use		policies of the MRCCA plan, and with Minnesota Rules, part 6106.0070, Subp. 5		
	activities (landscape maintenance, river		Content of Ordinances; and work with the MnDNR on flexibility with the		
326 CP19 Ci-Mendota Height	ts use, walking/hiking, etc.).	Mississippi River Critical Corridor / General goal	ordinance as noted in previous sections of this Plan.		Development
	Protect Primary Conservation Areas and				
	minimize impact to PCAs from public and	(
	private development and land use				
	activities (landscape maintenance, river		Support mitigation of impacts to PCAs through: subdivisions/PUDs,		
327 CP19 Ci-Mendota Height	ts use, walking/hiking, etc.).	Mississippi River Critical Corridor / General goal	variances, CUPs, and other permits.	Y	Development Low Impact Devel
	Protect Primary Conservation Areas and				
	minimize impact to PCAs from public and	í.			
	private development and land use				
	activities (landscape maintenance, river		Prioritize the restoration and protection of Native Plant Communities and		
328 CP19 Ci-Mendota Height		Mississippi River Critical Corridor / General goal	natural vegetation in riparian areas a high priority during development.		Development
	Protect Primary Conservation Areas and				
	minimize impact to PCAs from public and	1	Support alternative design standards that protect the Local Government Units		
	private development and land use		(LGU's) identified PCAs, such as conservation design, transfer of development		
	activities (landscape maintenance, river		density, or other zoning and site design techniques that achieve protection or		
329 CP19 Ci-Mendota Height		Mississippi River Critical Corridor / General goal	restoration of primary conservation areas.	v	Development Low Impact Devel
525 CF15 CFWenuota Height	is use, working/linking, etc.j.	wississippi River critical corridor / defieral goal	Provide education to residents and businesses on BMPs that can be	T	Development LOW Impact Devel
	Lawn and shoreline maintenance		implemented at the source to reduce runoff and pollutants. This is being done		
			implemented at the source to reduce runoff and pollutants. This is being done through the		
22 MD9 5 044	practices may adversely affect water resource.	Water Quality General goal			Dublic opportunit education
33 MP8 Savage SW	resource. Protect Primary Conservation Areas and	Water Quality General goal	Scott Clean Water Education Program as well as City of Savage efforts.		Public engagement.education
	minimize impact to PCAs from public and				
	private development and land use		Protect and prioritize through permanent protection measures, such as public		
	activities (landscape maintenance, river		acquisition, conservation easement, deed restrictions, etc., which protect PCAs		
330 CP19 Ci-Mendota Height		Mississippi River Critical Corridor / General goal	in the corridor.		Development
	Protect Primary Conservation Areas and				
	minimize impact to PCAs from public and				
	private development and land use				
	activities (landscape maintenance, river		Create and update ordinances that protect and minimize impacts to PCAs from		
331 CP19 Ci-Mendota Height		Mississippi River Critical Corridor / General goal	public and private vegetation management activities.		Development
	Protect Primary Conservation Areas and	¥			
	minimize impact to PCAs from public and				
	private development and land use				
	activities (landscape maintenance, river		Work with adjacent communities to determine appropriate protection of		
332 CP19 Ci-Mendota Height		Mississippi River Critical Corridor / General goal	identified PCAs		Development
USE OF IS COMENDOLA REIGHT	Protect native and existing vegetation	mostopp fiver critical corridor / defieral goal			bereiopinent
	during the development process and				
	require restoration if any is removed by				
	development. Priorities for restoration				
	shall include stabilization of erodible		Seek opportunities to restore vegetation to protect and enhance PRCVs		
	soils, riparian buffers and bluffs or steep				
333 CP19 Ci-Mendota Height		Mississippi River Critical Corridor / General goal	identified in this Plan.	ΥΥ	Development Steep slopes
333 CP19 Ci-Mendota Height		Mississippi River Critical Corridor / General goal		Y	Development Steep slopes

	Protect native and existing vegetation				
	during the development process and				
	require restoration if any is removed by				
	development. Priorities for restoration				
	shall include stabilization of erodible		Seek opportunities to restore vegetation in restoration priority areas identified		
	soils, riparian buffers and bluffs or steep		in this Plan through the CUP, variance, vegetation permit and subdivision/ PUD		
J334 CP19 Ci-Mendota Heigh		Mississippi River Critical Corridor / General		v r	evelopment Steep slopes
	Protect native and existing vegetation	mississippi niver endear cornadi / deneral	ui P		evelopment steep sopes
	during the development process and				
	require restoration if any is removed by				
	development. Priorities for restoration				
	shall include stabilization of erodible				
	soils, riparian buffers and bluffs or steep		Sustain and enhance ecological functions (habitat value) during vegetation		
J335 CP19 Ci-Mendota Heigh		Mississippi River Critical Corridor / General	al restorations.	Y C	evelopment Steep slopes
	Protect native and existing vegetation				
	during the development process and				
	require restoration if any is removed by				
	development. Priorities for restoration				
	shall include stabilization of erodible		Evaluate proposed development sites for erosion prevention and bank and		
	soils, riparian buffers and bluffs or steep		slope stabilization issues and require restoration as part of the development		
J336 CP19 Ci-Mendota Heigh		Mississippi River Critical Corridor / General		v r	evelopment Sediment.Erosion Steep slopes
1550 CF15 CFWEHOOLa Heigh	Protect and enhance the city's open	wississippi liver citical corridor / delierar	ai process.	1 6	evelopment Sediment. Erosion Steep slopes
	space and recreational facilities within				
1007 0040 7111	the MRCCA through appropriate land use		Encourage creation, connection, and maintenance of open space and		
J337 CP19 Ci-Mendota Heigh	its guiding and zoning implementation	Mississippi River Critical Corridor / General	al recreational facilities that provide access to the river.	C	pen and Green
	Protect and enhance the city's open				
	space and recreational facilities within				
	the MRCCA through appropriate land use	2	Identify and encourage connections of CA-SR land to existing and planned parks		
J338 CP19 Ci-Mendota Heigh	ts guiding and zoning implementation	Mississippi River Critical Corridor / General	al and trails within the city.	C	pen and Green
	Protect and enhance the city's open				
	space and recreational facilities within		Encourage land dedication requirements be incorporated into the city's park		
	the MRCCA through appropriate land use	3	dedication ordinance and park planning that provide public connections to the		
1339 CP19 Ci-Mandota Hoide	its guiding and zoning implementation	Mississippi River Critical Corridor / General;		·	pen and Green
1555 CF15 CI-IMeliuota Heigi	its guiding and zoning implementation	wississippi kiver critical corridor / deneral	ai nver, where possible.		pen and Green
			The City will implement community education as part of their MS4 program to		
			increase residents' awareness and reduce violations concerning proper water		
			resource management. The City will continue to provide education content and		
			opportunities to residents, businesses, developers, and others. These		
	Need for local water education programs	5	efforts may include regular notices in the City's bi-monthly newsletter, articles		
	to increase public awareness of local		in the local paper, postings on the City website, and flyers in the utility bill. The		
	water management and improve the		City will coordinate with the watersheds and County to improve the efficiency		
J34 MP8 Savage SW	quality of stormwater runoff.	Water Quality General	of educational efforts and reduce duplication.	s	tormwater
	Protect and enhance the city's open		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
	space and recreational facilities within		Require new development to identify significant natural features such as steep		
	the MRCCA through appropriate land use		slopes, bluffland, vegetation, etc., and protect such features into perpetuity		
1340 CB10 Ci Mondota Hoigh	its guiding and zoning implementation	Mississippi River Critical Corridor / General ;			teep slopes
1540 CF15 CI-IMERIDOLA Heigi	Provide effective stormwater	wississippi kiver critical corridor / deneral	ai though a conservation easement, or similar.		eep slopes
	management and protection for existing				
			and a second second second		
	lands throughout the community, and		Maintain and improve the following in the community and other		
	ensure future		affected jurisdictions: - Water quality and quantity; - Erosion and sediment		
	development/redevelopment areas do		control; - Public water bodies, including lakes, streams and wetlands; - Public		
	not pose any threat or create any		participation, information, and education; - Maintenance and inspection; -		
	harmful impacts to surrounding areas		Recreation, fish and wildlife; and - Analyze and consider appropriate measures		
J341 CP19 Ci-Mendota Heigh	ts and water features	Water Quality General		Y S	tormwater Development Sediment.Erosion
		· · · · · · · · · · · · · · · · · · ·	Carefully monitor, inspect and permit municipal separate storm sewer system		· · · · · · · · · · · · · · · · · · ·
			(MS4) regulatory activities throughout the city, to ensure the reduction to the		
	Implement the Surface Water		amount of sediment and other pollutants entering water bodies from city		
J342 CP19 Ci-Mendota Heigh		Water Quality General		v	tormwater Monitoring Sediment Frosion
55-2 CF15 CFWIetruota Heigr	in a monagement rian	defieral	Cooperate with local watershed groups to ensure compliance with policies and	1 3	animates monitoring seument.crosion
	International states Conference Mathematic				
1010 0010	Implement the Surface Water		standards in the SWMP, and provide for any changes or amendments as		
J343 CP19 Ci-Mendota Heigh		Water Quality General	al recommended or needed.	C	ooperation
	Maintain and improve the wastewater				
	system to serve existing and future		Continue to implement the annual sanitary sewer lining program in areas		
J344 CP19 Ci-Mendota Heigh		Water Quality General	al suspected to have Inflow and infiltration (I/I) potential	C	evelopment
	Insure a comprehensive overall				
	transportation system relating to				
	vehicular travel and roadways, airports				
	and airspace, mass transit, walking,		Work with Mendota and Mendota Heights on corridor study of Hwy 13 for		
J345 CP18 Ci-Lilydale	biking and Freightways	Recreation Specific		x	
	0	specific	Work with local volunteers interested in native plant restoration, invasive		
J346 CP18 Ci-Lilydale	Parks and trails	Education General		v 1.	vasives Public engagement.education
5545 CF16 CFLIYUBLE	Protect, conserve and enhance natural	General General	or species control and water management issues	1 II	
	resources and environmentally sensitive				
	areas within and adjacent to the city for				
	the communities long term				
		4	encourage additional open space for protection of rare and endangered species		
	environmental benefit and to protect an	u			
	environmental benefit and to protect an preserve the biological functions of the	u	and their habitats especially along shorelines areas and to increase and restore		
J347 CP18 Ci-Lilydale				Y L	nique.Sensitive.h Corridors
J347 CP18 Ci-Lilydale	preserve the biological functions of the	Open Space General		ΥL	nique.Sensitive.h Corridors
J347 CP18 Ci-Lilydale	preserve the biological functions of the River corridor. Work to protect the Mississippi River and	Open Space General			nique.Sensitive.h Corridors
	preserve the biological functions of the River corridor. Work to protect the Mississippi River and Critical Areas corridor for its long term	Open Space General ; d	al wildlife habitat and biological diversity in new development projects		
J347 CP18 Ci-Lilydale J348 CP18 Ci-Lilydale	preserve the biological functions of the River corridor. Work to protect the Mississippi River and	Open Space General	al wildlife habitat and biological diversity in new development projects		nique.Sensitive.h Corridors nique.Sensitive.h Corridors

	enhance the community character and					
	identify while preserving and enhancing					
	the River corridors natural aesthetic.					
	Cultural, and historical value for public			conserve scenic, environmental, recreational, mineral, economic, cultural and		
J349 CP18 Ci-Lilydale	use	Natural Resources	General goal	historic resources and functions in the river corridor		Corridors
	There is a variance between hydrologic					
	and geographic boundaries of Watershee	ł				
	Districts and Watershed Management			City will work with Watersheds and WMOs to redefine their boundaries to		
J35 MP8 Savage SW	Organizations.	Water Quality	General goal	match the hydrologic boundaries within the City. X		
	enhance the community character and					
	identify while preserving and enhancing					
	the River corridors natural aesthetic.					
	Cultural, and historical value for public			encourage open space land use for the protection of any historical,		
J350 CP18 Ci-Lilydale	use	Open Space	General goal	archeological or cultural resources		Corridors
	work in Lilydale will be managed for non-			development, redevelopment and other projects within the tributary		
J351 CP18 Ci-Lilydale	degradation to surface water	Water Quality	General goal	watershed will be designed to preserve or improve existing water quality		Natural Resource Protection
	work in Lilydale will be managed for non-	-				
J352 CP18 Ci-Lilydale	degradation to surface water	Water Quality	General goal	address mandatory TMDL requirements		Impaired.TMDL
	work in Lilydale will be managed for non-	-				
J353 CP18 Ci-Lilydale	degradation to surface water	Water Quality	General goal	cooperate with local agencies to conduct water quality monitoring	Y	Monitoring Cooperation
	work in Lilydale will be managed for non-					
J354 CP18 Ci-Lilydale	degradation to surface water	Water Quality	General goal	work with local agencies to establish water quality goals for surface waters X		
	work in Lilydale will be managed for non-	-				
J355 CP18 Ci-Lilydale	degradation to surface water	Water Quality	General goal	asses and prioritize shoreland restoration areas		Natural Resource Protection
	work in Lilydale will be managed for non-			design streambank stabilization and streambed control measures for energy		
J356 CP18 Ci-Lilydale	degradation to surface water	Water Quality	General goal	dissipation		Sediment.Erosion
	operate, manage and maintain Lilydale's		-			
	stormwater system to ensure proper					
J357 CP18 Ci-Lilydale	functioning	Water Quality	General goal	implement BMPs		Stormwater
	operate, manage and maintain Lilydale's	•				
	stormwater system to ensure proper					
J358 CP18 Ci-Lilydale	functioning	Water Quality	General goal	inspect BMPs		Stormwater
	operate, manage and maintain Lilydale's	· ·	-			
	stormwater system to ensure proper					
J359 CP18 Ci-Lilydale	functioning	Water Quality	General goal	inspect, operate, maintain and repair stormwater system		Stormwater
,	Need to preserve open spaces and allow					
	for connections between open species to	0				
	promote native species and additional			The City will look into opportunities to identify new open space areas and will		
J36 MP8 Savage SW	water quality benefits.	Water Quality	General goal	continue to preserve existing open spaces.		Open and Green
				new development BMPs requiring minimum 50% removal of TP for runoff and		
J360 CP18 Ci-Lilydale	improve quality of stormwater runoff	Water Quality	General goal	no net increase of TSS or TP loading to downstream water.		Stormwater
J361 CP18 Ci-Lilydale	improve quality of stormwater runoff	Water Quality	General goal	redevelopment results in 80% TSS and 50% TP reductions		Stormwater
	implement soil protection and			land disturbing activities will comply with Lilydale's Bluff Management Plan and		
J362 CP18 Ci-Lilydale	sedimentation controls	Erosion & Sediment	General goal	WMO/WD standards		Sediment.Erosion
				Provide for public and institutional uses that connect natural, cultural and		
J363 CP17 Ci-Mendota	Land use	Natural Resources	General goal	recreational resources X		
				Encourage commercial uses that build on the City's proximity to the Mississippi		
J364 CP17 Ci-Mendota	Land use	Natural Resources	General goal	and Minnesota Rivers.		Increase River Use
				Work with applicable government agencies to encourage development of river		
				frontage in Fort Snelling State Park to encourage enjoyment of riverfront in		
J365 CP17 Ci-Mendota	Land use	Natural Resources	General goal	Mendota		Increase River Use
				Connect parks, trails and open space between residential neighborhoods,		
J366 CP17 Ci-Mendota	Parks and trails	Recreation	General goal	downtown, and regional recreational facilities		Open and Green
				A bike trial along Highway 13 that connects to the Big Rivers Regional Trail and		
				Fort Snelling State Park, as well as to the Sibley House Historic Site and		
J367 CP17 Ci-Mendota	Parks and trails	Recreation	General goal	Veterans Park		Trails
				Restrict or prohibit development on wetlands and other natural features that		
J368 CP17 Ci-Mendota	Water Resources	Water Quality	General goal	serve important environmental functions		Wetlands
				Protect the limited water resources of the City to promote aesthetic qualities,		
J369 CP17 Ci-Mendota	Water Resources	Water Quality	General goal	natural habitat areas and ground water recharge.		Natural Resource Protection
	Increased flows to the Credit River from					
	development south of the City of Savage			Continue to implement stormwater management practices to mitigate		
	This may increase erosion and flooding			development impacts to the Credit River within Savage and to work with Scott		
J37 MP8 Savage SW	along the River within the City of Savage	Water Quality	General goal	WMO to manage areas south of the City.	Υ	Stormwater Flood Development Low Impac Sediment.
				Maintain and enhance the storm water drainage system in the City and		
J370 CP17 Ci-Mendota	Water Resources	Water Quality	General goal	improve the quality of storm water runof X		
				Support the inclusions of additional storm water management capacities to		
J371 CP17 Ci-Mendota	Resilience	Climate Change	General goal	account for changing rainfall patterns. X		
				Promote education and awareness regarding hazards and risks in the		
J372 CP17 Ci-Mendota	Resilience	Climate Change	General goal	community		Public engagement.education
J373 CP17 Ci-Mendota	Resilience	Climate Change	General goal	Mitigate the potential negative impacts of climate change on the community X		
				Collaborate with the Minnesota Department of Transportation to provide		
				crosswalks, bike trails, and landscaping along Highway 13 to improve the		
				pedestrian environment and attractiveness of the corridor for residents,		
				businesses and reinvestment.	Υ	Corridors Cooperation
J374 CP17 Ci-Mendota	Transportation	Transportation	General goal			
				Support a multi-modal transportation system that provides for safe and		
J374 CP17 Ci-Mendota J375 CP17 Ci-Mendota	Transportation Transportation	Transportation Transportation	General goal	convenient movement of vehicles, pedestrians, and bicyclists X		
				convenient movement of vehicles, pedestrians, and bicyclists X Big Rivers Regional Trail trailhead facilities at two locations in Mendota the		
				convenient movement of vehicles, pedestrians, and bicyclists X Big Rivers Regional Trail trailhead facilities at two locations in Mendota the intersection of Highway 13, on the east end of the city, and at D Street would		
				convenient movement of vehicles, pedestrians, and bicyclists X Big Rivers Regional Trail trailhead facilities at two locations in Mendota the intersection of Highway 13, on the east end of the city, and at D Street would provide safe access to the trail. Currently, a trailhead parking lot exists adjacent		
				convenient movement of vehicles, pedestrians, and bicyclists X Big Rivers Regional Trail trailhead facilities at two locations in Mendota the Intersection of Highway 13, on the east end of the city, and at D Street would provide safe access to the trail. Currently, a trailhead parking lot exists adjacent to the Sibley House Historic Site A description of proposed trailhead facilities		
J375 CP17 Ci-Mendota	Transportation	Transportation	General goal	convenient movement of vehicles, pedestrians, and bicyclists X Big Rivers Regional Trail trailhead facilities at two locations in Mendota the intersection of Highway 13, on the east end of the city, and at D Street would provide safe access to the trail. Currently, a trailhead parking lot exists adjacent to the Sibley House Historic Site A description of proposed trailhead facilities at these locations, included in the Big Rivers Regional Trail Development Plan,		
				convenient movement of vehicles, pedestrians, and bicyclists X Big Rivers Regional Trail trailhead facilities at two locations in Mendota the Intersection of Highway 13, on the east end of the city, and at D Street would provide safe access to the trail. Currently, a trailhead parking lot exists adjacent to the Sibley House Historic Site A description of proposed trailhead facilities		Corridors

				A bike trail along Main Street, connecting Big Rivers Regional Trail at the end of the city and the MNDOT parking lot near the Mendota Bridge, would provide a more direct consection to the exploration and downstrom.	
J377 CP17 Ci-Mendota	Transportation	Recreation So	pecific goal	more direct connection to the sub regional trail system and downtown Mendota. In addition, this trail could connect to Veterans Park in Lowertown.	Trails
SSC CETT CENTENUULA	manaportation	Sp	Sectine guar	menoous in oounon, nila taal toulo colliect to vetelalia raik III Lowellowii.	110113
	Mississippi National River and Recreation			Encourage development and redevelopment consistent with the designation of	
J378 CP17 Ci-Mendota	Area Comprehensive Management Plan	Open Space Sp	pecific goal	the city as part of the Urban Open Space District of the Critical Area	Open and Green
	Mississippi National River and Recreation			Encourage development in the river corridor that is consistent with the Metropolitan Council's place and polices and with the capacity of the regional	
J379 CP17 Ci-Mendota	Area Comprehensive Management Plan	Economic Development So	pecific goal	Metropolitan Council's plans and polices, and with the capacity of the regional systems. Y	Development Corridors
and a set of mendoto	Identify developing areas that drain into	op		apor a	
	other jurisdictions and evaluate				
J38 MP8 Savage SW	infrastructure needs or planning	Water Quality Sp	pecific goal	end of pipe discharge evaluations	Development
	Mississippi National River and Recreation				
J380 CP17 Ci-Mendota	Area Comprehensive Management Plan		pecific goal	Prohibit development on slopes exceeding 18 percent	Sediment Frosion
				· · · · · · · · · · · · · · · · · · ·	
	Mississippi National River and Recreation			Require erosion control measures for development on slopes exceeding 12	
J381 CP17 Ci-Mendota	Area Comprehensive Management Plan	Erosion & Sediment Sp	pecific goal	percent, but not exceeding 18 percent.	Sediment.Erosion
	Mississippi National River and Recreation				
J382 CP17 Ci-Mendota	Area Comprehensive Management Plan		pecific goal	Prohibit alteration to slopes exceeding 18 percent.	Sediment.Erosion
				Prohibit clear cutting of slopes exceeding 12 percent; permit selective cutting	
	Mississippi National River and Recreation			and trimming of vegetation on slopes exceeding 12 percent only under a permit	
J383 CP17 Ci-Mendota	Area Comprehensive Management Plan	Natural Resources Sp	pecific goal	from the City Council	Vegetation
	Mississippi National River and Recreation				
1384 CP17 Ci-Mendota	Area Comprehensive Management Plan		pecific goal	Prohibit development of new buildings within 40 feet of the bluffline.	Development
citit ci in ci mendota		spread and	Booi		
	Mississippi National River and Recreation				
J385 CP17 Ci-Mendota	Area Comprehensive Management Plan	Natural Resources Sp	pecific goal	Protect environmentally sensitive areas.	Unique.Sensitive.high value
	Mississippi National River and Recreation			Coordinate with the Minnesota Department of Transportation, Fort Snelling State Park and Mendota Heights to reduce runoff that would impact the	
J386 CP17 Ci-Mendota	Area Comprehensive Management Plan		eneral goal	state Park and Mendota Heights to reduce runoff that would impact the residents, businesses, the river and the river corridor	Corridors
and a set of mendote	Achieve water quality goals in lakes,				
	streams, and wetlands consistent with				
1207 0400 0 11 11-7	their intended use and established	Matter Overlite		The City will play an active role in participating in TMDL studies for impaired	Interviewed TADI
J387 MP9 Burnsville WR	classification. Achieve water quality goals in lakes.	Water Quality Ge	eneral goal	waters to which the City has discharges.	Impaired.TMDL
	streams, and wetlands consistent with			The City will work with the WMOs in developing and implementing water	
	their intended use and established			quality improvement plans and achieving the load reductions necessary to	
J388 MP9 Burnsville WR		Water Quality Ge	eneral goal	meet TMDLs	Impaired.TMDL
	Manage flooding and minimize related				
	public capital and maintenance expenditure necessary to control			The City shall attempt to acquire easements covering public ponds, wetlands,	
J389 MP9 Burnsville WR		Water Quantity Ge	eneral goal	The city anian attempt to acquire case interaction covering pound prints, we tain as, for a second s	High value easeme Flood
			-		
	Elevated levels of chloride				
	concentrations have been found in stormwater ponds, surface water bodies.				
	and groundwater throughout the Twin				
	Cities Metropolitan Area. At levels				
	exceeding the water quality standards,			The City will continue to implement chloride best management practices such	
	chloride can be toxic to aquatic life and			as reducing salt use on roadways, education to private business owners and	
J39 MP8 Savage SW	can make drinking water sources not economically feasible to treat.	Water Quality Sp	pecific goal	residents about correct salt application, and improve policies designating salt usage Y	Stormwater Groundwater
122 INLS 29A96 2M	economically reasible to treat.	water quality Sp	pecific goal	Usage Y Horizontal, terrestrial buffer zones are encouraged around existing wetlands	stormwater Groundwater
				and stormwater ponds. New development or redevelopment projects must	
				provide a buffer zone around wetlands and are encouraged to provide buffers	
				around existing stormwater ponds. Buffers are required around new storm	
	Minimize soil erosion through increased			ponds, resulting from new development or re-development. Buffers shall be maintained in native vegetation, to provide habitat for wildlife. (See also Table	
J390 MP9 Burnsville WR		Erosion & Sediment Ge	eneral goal	maintained in native vegetation, to provide nabitat for wildlife. (See also Lable 19) Y	Stormwater Sediment Frosion
JULIA WILL DUITISVILLE WK	Minimize soil erosion through increased	crosion a seament de	chici ai guai	The City will maximize the use of bioengineering approaches whenever	Stormater Sedmenterosion
J391 MP9 Burnsville WR		Erosion & Sediment Ge	eneral goal	practicable for slope stabilization and permanent erosion control projects.	Sediment.Erosion
	Increase public participation and				
J392 MP9 Burnsville WR	knowledge in management of the water resources.	Education Ge	eneral goal	The City will establish model interpretive sites for public education.	Public engagement.education
3332 IVIES DUITISVILLE WK	Implement a comprehensive water	Cutation Ge	eneral guar	The City will continue to cooperate with all public agencies to conduct	
J393 MP9 Burnsville WR	resource-monitoring program.	Monitoring Ge	eneral goal	monitoring projects and share monitoring data with them. Y	Monitoring Cooperation
	Implement a comprehensive water				
J394 MP9 Burnsville WR	resource-monitoring program.	Monitoring Ge	eneral goal	The City will continue citizen-monitoring programs.	Monitoring
J395 MP9 Burnsville WR	Manage water recreation activities and improve fich and wildlife habitat	Percention 0	onoral c!	The City shall support programs for controlling exotic and invasive species of	Invasives
ULA RAINE RAINER AND COCCU	improve fish and wildlife habitat. Manage water recreation activities and	Recreation Ge	eneral goal	plants and animals. The City will Promote intergovernmental cooperation in protecting and	IIIVdSIVES
J396 MP9 Burnsville WR		Natural Resources Ge	eneral goal	improving areas with shared responsibility	Cooperation
	•			The City will encourage development along the Minnesota River Valley Area	
	Manage water recreation activities and			which will enhance its use as a recreational area and support the preservation	
J397 MP9 Burnsville WR	improve fish and wildlife habitat.	Natural Resources Ge	eneral goal	of natural resources in a manner consistent with this Plan.	Natural Resource Protection

1	Maintain regulatory authority at the loca	l				
	level while recognizing the role of other					
	local, state and federal entities and					
	complying with specified programs and			The City shall inform WMOs of projects within the respective jurisdictions		
J398 MP9 Burnsville WR	requirements	Regulatory Genera	al goal	which impact strategic waterbodies or MnDNR Public Waters. X		
	Establish funding sources to finance			The City shall encourage the WMOs to finance inter-community issues and		
J399 MP9 Burnsville WR	water resources management activities	Finance Genera	al goal	projects. X		
	Stormwater flow - Shakopee Historic					
	District - along Highway 101 is			The City will continue to work with project stakeholders to identify short- and		
	impacting/degrading historical and					a
J4 MP5 Shakopee SW	cultural resources. Ensure stormwater runoff from new	Rate Control Specifi	ic goai	long-term solutions for addressing the concern at this location.		Stormwater
	development and redevelopment sites is					
	regulated to maintain or reduce runoff					
	rates and volumes, and reduce pollutant			Implement stormwater volume, quality and rate-control criteria in District		
140 MP21 Nine Mile Creek	WR loadings to receiving waters.	Water Quality Genera	al goal	rules.	v	Stormwater Development
J400 MP9 Burnsville WR	TMDL	Water Quantity Specific Water Quantity Specific	ic goal	Minnesota River TMDL		Impaired.TMDL
1400 INFS Burnsville Wit	THE	water quantity Specifi	ic goai	The City's fertilizer ordinance prohibits fertilizers near water bodies, requires		inpared. INDE
				commercial applicators to be licensed, and requires everyone to use		
				phosphorus-free fertilizer unless a soil test is conducted to verify the need for		
J401 MP9 Burnsville WR	Fertilizer Application	Water Quality Specifi	ic goal	phosphorus.		Impaired.TMDL
				Approximately 229 properties in southwest Burnsville continue to be served by		·
				on-site waste water systems. In Burnsville, these systems are regulated by City		
				Code Chapter 11, Subsurface Sewage Treatment Systems (SSTS) that was		
J402 MP9 Burnsville WR	ISTS	Water Quality Specifi		adopted in 2011. X		
				Burnsville has developed a multi-layered groundwater model focusing on the		
				Burnsville well field, Kraemer Quarry, Black Dog Fen and Savage Fen. The model		
				will be utilized in design of groundwater withdrawal and minimization of		
				impacts to protected surface waters. The City is currently working with the		
				Minnesota Department of Natural Resources and Metropolitan Council in		
J403 MP9 Burnsville WR	Groundwater Sustainability	Water Quantity Genera	al goal	developing a groundwater management plan.	Y	Groundwater Trout.Fen
				the updated Atlas 14 depths and distributions and will endeavor to continue to		
J404 MP9 Burnsville WR	Resilience	Climate Change Genera		adapt its policies and standards with the climate change trends. X		
J405 MP14 Mendota Heights		Water Quantity Specifi	ic goal	Minnesota River TMDL		Impaired.TMDL
	Stormwater discharge into Gun Club Lake					
J406 MP14 Mendota Heights	s SV Fen	Water Quantity Specifi	ic goal	the City is looking to incorporate the Twin Cities Metropolitan Area Chloride	Ŷ	Stormwater Trout.Fen
J407 MP14 Mendota Heights	au Chlasida	Water Quantity Specifi		Management Plan to reduce salt use during winter applications.		Impaired.TMDL
J407 MP14 Mendota Heights	s sy chioride	Water Quantity Specifi	ic goal	Approximately 40 septic systems exist in the City. City ordinance requires		Impaired. I MDL
				inspections of the systems. The Mendota Heights ordinance that regulates		
				septic systems is identical to that of Dakota County and meets all Metropolitan		
J408 MP14 Mendota Heights	SV ISTS	Water Quality Specifi	ic goal	Council and MPCA requirements X		
	Soil erosion along the bluffs and at					
	construction sites is a potential source of					
J409 MP14 Mendota Heights		Erosion & Sediment Genera	al goal			Sediment Frosion
				ensure, through LSWMP review, implementation of stormwater management		Seument erosion
	Manage stormwater collaboratively with			standards and criteria. With LGUs to implement demonstration		
J41 MP21 Nine Mile Creek V	Manage stormwater collaboratively with WR other local governments.	Water Quality Genera			Ŷ	Stormwater Cooperation
J41 MP21 Nine Mile Creek V	WR other local governments.	Water Quality Genera		standards and criteria. With LGUs to implement demonstration	Y	
J41 MP21 Nine Mile Creek	WR other local governments. Mendota Heights drainage system in	Water Quality Genera		standards and criteria. With LGUs to implement demonstration	Y	
J41 MP21 Nine Mile Creek	WR other local governments. Mendota Heights drainage system in some detail. One of the primary	Water Quality Genera	al goal	standards and criteria. With LGUs to implement demonstration projects/programs. Provide technical assistance	Y	
J41 MP21 Nine Mile Creek 1	WR other local governments. Mendota Heights drainage system in some detail. One of the primary discharges from this system occurs	Water Quality Genera	al goal	standards and criteria. With LGUs to implement demonstration projects/programs. Provide technical assistance	Y	
J41 MP21 Nine Mile Creek 1	WR other local governments. Mendota Heights drainage system in some detail. One of the primary discharges from this system occurs through a 54-inch pipe into the	· · · · · · · · · · · · · · · · · · ·	al goal	standards and criteria. With LGUs to implement demonstration projects/programs. Provide technical assistance The Quarry Island fen lies within the jurisdiction of the LMRWD and the district is considering whether to pursue a detailed assessment and monitoring	Y	
J41 MP21 Nine Mile Creek	WR other local governments. Mendota Heights drainage system in some detail. One of the primary discharges from this system occurs through a 54-inch pipe into the Minnesota Department of Transportation	· · · · · · · · · · · · · · · · · · ·	al goal	standards and criteria. With LGUs to implement demonstration projects/programs. Provide technical assistance The Quarry Island fen lies within the jurisdiction of the LMRWD and the district is considering whether to pursue a detailed assessment and monitoring program for this fen. Regardless of what the watershed does toward studying	Y	
J41 MP21 Nine Mile Creek	WR other local governments. Mendota Heights drainage system in some detail. One of the primary discharges from this system occurs through a 54-inch pipe into the Minnesota Department of Transportation (MnDOT) system adjacent to and under	· · · · · · · · · · · · · · · · · · ·	al goal	standards and criteria. With LGUs to implement demonstration projects/programs. Provide technical assistance The Quary Island fen lies within the jurisdiction of the LMRWD and the district is considering whether to pursue a detailed assessment and monitoring program for this fen. Regardless of what the watershed does toward studying the area, it is highly likely that the LMRWD and DNR will pursue a project to	Y	
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J41 MP21 Nine Mile Creek	WR other local governments. Mendota Heights drainage system in some detail. One of the primary discharges from this system occurs through a 34-inch pipe into the Minnesota Department of Transportation (MnDOT) system adjacent to and under Trunk Highway 13. The highway system carries MnDOT and Mendota Heights runoff water into the	· · · · · · · · · · · · · · · · · · ·	al goal	standards and criteria. With LGUs to implement demonstration projects/programs. Provide technical assistance The Quarry Island fen lies within the jurisdiction of the LMRWD and the district is considering whether to pursue a detailed assessment and monitoring program for this fen. Regardless of what the watershed does toward studying the area, it is highly likely that the LMRWD and DNR will pursue a project to reroute this drainage around the fen and into Gun Club Lake. The City and	Y	
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J410 MP14 Mendota Heights J411 MP14 Mendota Heights J412 MP14 Mendota Heights	WR other local governments. Mendota Heights drainage system in some detail. One of the primary discharges from this system occurs through a 54-inch pipe into the Minnesota Department of Transportation (MnDOT) system adjacent to and under Trunk Highway 13. The highway system carries MnDOT and Mendota Heights runoff water into the Quarry Island fen, as indicated by the Sy flow arrows on Figure 5. Intercommunity water resources issues planning shall consider alternative SY solutions Sy River bluffs Work with LMRWMO, LMRWD, and neighboring communities to maintain and/or enhance the water quality of Mendota Heights' lakes, wetlands,	Water Quality Specifi Drainage Genera Open Space Genera	al goal ic goal al goal al goal	standards and criteria. With LGUs to implement demonstration projects/programs. Provide technical assistance The Quarry Island fen lies within the jurisdiction of the LMRWD and the district is considering whether to pursue a detailed assessment and monitoring program for this fen. Regardless of what the watershed does toward studying the area, it is highly likely that the LMRWD and DNR will pursue a project to reroute this drainage around the fen and into Gun Club Lake. The CIty and MnDOT are likely to be financial participants in this project when it becomes a reality. The CIty's share of the project cost could be substantial. Given this, the implementation section of this SWMP includes an item for the Quarry Island fen storm drainage project thin an unknown date for implementation All drainage studies or feasibility studies, whether by a watershed organization or municipality, leading to projects in a subwatershed with an intercommunity drainage issue and shall consider the total intercommunity project cost. Work with the DNR and watershed organizations on cooperative and collaborative projects in the public lands below the river bluffs.	Y	Stormwater Cooperation Monitoring Trout.Fen Vegetation Cooperation
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1410 MP14 Mendota Heights 1411 MP14 Mendota Heights 1412 MP14 Mendota Heights 1413 MP14 Mendota Heights	WR other local governments. Mendota Heights drainage system in some detail. One of the primary discharges from this system occurs through a 54-inch pipe into the Minnesoto Department of Transportation (MnDOT) system adjacent to and under Trunk Highway 13. The highway system carries MnDOT and Mendota Heights runoff water into the Quarry Island fen, as indicated by the ssy flow arrows on Figure 5. Intercommunity water resources issues planning shall consider alternative ssy low at the MNWO, LMRWD, and neighboring communities to maintain and/or enhance the water quality of Mendota Heights' lakes, wetlands, SS Vitreams, and other water resources. Sy vater resource aesthetics inform and educate the public concerning unban stormwater management and the problems pollutants cause if allowed to enter into S water resources.	Water Quality Specifi Drainage Genera Open Space Genera Water Quality Genera	ic goal al goal al goal al goal al goal	standards and criteria. With LGUs to implement demonstration projects/programs. Provide technical assistance The Quary Island fen lies within the jurisdiction of the LMRWD and the district is considering whether to pursue a detailed assessment and monitoring program for this fen. Regardless of what the watershed does toward studying the area, it is highly likely that the LMRWD and DNR will pursue a project to reroute this drainage around the fen and into Gun Club Lake. The CIty and MnDOT are likely to be financial participants in this project when it becomes a reality. The CIty's share of the project cost could be substantial. Given this, the implementation section of this SWMP includes an item for the Quary Island fen storm drainage project with an unknown date for implementation All drainage issue shall consider the inpact of the project on the drainage issue and shall consider the inpact of the project cost. Work with an intercommunity drainage issue shall consider the inpact of the project cost. Work with the DNR and watershed organizations on cooperative and collaborative projects in the public lands below the river bluffs. Support water quality monitoring efforts being undertaken by the LMRWMO and LMRWD. Water resources shall be maintained in such a manner as to preserve or restore their intrinsic aesthetic qualities and wildlife habitat	Υ	Stormwater Cooperation Monitoring Trout.Fen Vegetation Cooperation Monitoring
J410 MP14 Mendota Heights J411 MP14 Mendota Heights J412 MP14 Mendota Heights J413 MP14 Mendota Heights J414 MP14 Mendota Heights J415 MP14 Mendota Heights	WR other local governments. Mendota Heights drainage system in some detail. One of the primary discharges from this system oncurs through a 54-inch pipe into the Minnesota Department of Transportation (MnDOT) system adjacent to and under Trunk Highway 13. The highway system carries MnDOT and Mendota Heights runoff water into the Quarry Island fen, as indicated by the syst flow arrows on Figure 5. Intercommunity water resources issues planning shall consider alternative Sy solutions Sy River bluffs Work with LMRWMO, LMRWD, and neighboring communities to maintain and/or enhance the water quality of Mudota Heights' lakes, wetlands, Sy streams, and other water resources. Protect and denhance fish and wildlife Inform and educate the public concerning urban stormwater management and the problems pollutants cause if allowed to enter into SY water resources.	Water Quality Specifi Drainage Genera Open Space Genera Water Quality Genera Water Quality Genera Education Genera	ic goal al goal al goal al goal al goal al goal	standards and criteria. With LGUs to implement demonstration projects/programs. Provide technical assistance The Quary Island fen lies within the jurisdiction of the LMRWD and the district is considering whether to pursue a detailed assessment and monitoring program for this fen. Regardless of what the watershed does toward studying the area, it is highly likely that the LMRWD and DNR will pursue a project to reroute this drainage around the fen and into Gon Club Lake. The Clty and MnDOT are likely to be financial participants in this project when it becomes a reality. The Clty's share of the project cost could be substantial. Given this, the implementation section of this SWMP includes an item for the Quary Island fen storm drainage project with an unknown date for implementation or municipality, leading to projects in a subwatershed with an intercommunity drainage issue hell consider the impact of the project on the drainage issue and shall consider the total intercommunity project cost. Work with the DNR and watershed organizations on cooperative and collaborative projects in the public lands below the river bluffs. Support water quality monitoring efforts being undertaken by the LMRWMO and LMRWD. Water resources shall be maintained in such a manner as to preserve or restore their intrinsic aesthetic qualities and wildlife habitat	Y Y Y	Stormwater Cooperation Stormwater Cooperation Monitoring Natural Resource Protection Stormwater Public engagement.education
J410 MP14 Mendota Heights J411 MP14 Mendota Heights J412 MP14 Mendota Heights J413 MP14 Mendota Heights J414 MP14 Mendota Heights	WR other local governments. Mendota Heights drainage system in some detail. One of the primary discharges from this system oncurs through a 54-inch pipe into the Minnesota Department of Transportation (MnDOT) system adjacent to and under Trunk Highway 13. The highway system carries MnDOT and Mendota Heights runoff water into the Quarry Island fen, as indicated by the syst flow arrows on Figure 5. Intercommunity water resources issues planning shall consider alternative Sy solutions Sy River bluffs Work with LMRWMO, LMRWD, and neighboring communities to maintain and/or enhance the water quality of Mudota Heights' lakes, wetlands, Sy streams, and other water resources. Protect and denhance fish and wildlife Inform and educate the public concerning urban stormwater management and the problems pollutants cause if allowed to enter into SY water resources.	Water Quality Specifi Drainage Genera Open Space Genera Water Quality Genera Water Quality Genera Education Genera	ic goal al goal al goal al goal al goal al goal	standards and criteria. With LGUs to implement demonstration projects/programs. Provide technical assistance The Quary Island fen lies within the jurisdiction of the LMRWD and the district is considering whether to pursue a detailed assessment and monitoring program for this fen. Regardless of what the watershed does toward studying the area, it is highly likely that the LMRWD and DNR will pursue a project to reroute this drainage around the fen and into Gun Club Lake. The CIty and MnDOT are likely to be financial participants in this project when it becomes a reality. The CIty's share of the project cost could be substantial. Given this, the implementation section of this SWMP includes an item for the Quary Island fen storm drainage project with an unknown date for implementation All drainage issue shall consider the inpact of the project on the drainage issue and shall consider the inpact of the project cost. Work with an intercommunity drainage issue shall consider the inpact of the project cost. Work with the DNR and watershed organizations on cooperative and collaborative projects in the public lands below the river bluffs. Support water quality monitoring efforts being undertaken by the LMRWMO and LMRWD. Water resources shall be maintained in such a manner as to preserve or restore their intrinsic aesthetic qualities and wildlife habitat	Y Y	Stormwater Cooperation Monitoring Trout.Fen Vegetation Cooperation Monitoring Natural Resource Protection

				Control development in floodplains and floodways including those subject to				
				FEMA studies (Mississippi and Minnesota Rivers) and those that are not				
J417 MP14 Mendota Heights SV Floodplain D	evelopment (Floodplain	General goal	regulated by FEMA studies like ponds, wetlands, lakes, and channels within the City limits	v	Flood	Development	
	its are one of the greatest	riooupiani	Serieral goal			FIUUU	Development	
	e ecological integrity of the			This NRMP provides a foundation for strategic prioritization of ecological				
	l areas. Removal and control			restoration and management, including the control of invasive vegetation.				
	egetation often takes a			Through increased funding, partnerships, and volunteer engagement, the City				
concerted ef	fort followed by long-term			can address this critical need, significantly improving the ecological quality of				
J418 MP19 Mendota Heights NI monitoring a		Invasive Species 0		its natural areas	Y	Monitoring	Invasives	Public engagement.education
Climate chan	nge presents its own suite of	· · · · · · · · · · · · · · · · · · ·						
challenges. P	Predictions for the Twin							
	suggest warmer							
	es (especially during winter),							
	tributing to changes in							
	ibution and new invasions by							
	its and pests from the south.							
	on of more severe storms							
	ater potential for flooding							
	especially along already			While the City has little control over the climate, it can plan and manage its				
	eams such as Big	Climate Change 0		natural resources for greater resilience despite predicted changes in temperature and precipitation			Flood	Sediment.Erosion
J419 MP19 Mendota Heights NI Foot/Intersta	ate valley Creek.	Climate Change C	General goal		Ŷ	Invasives	FIOOD	Sediment.Erosion
				Work with local governments in identifying high-priority areas, planning, and development of regional stormwater management facilities to enhance				
				treatment and provide flexibility for stormwater management compliance as				
Promoto roa	ional stormwater			redevelopment occurs. Establish a regional stormwater-management				
J42 MP21 Nine Mile Creek WR management		Water Quality 0		compliance option in the NMCWD rules.		Stormwater		
	nge presents its own suite of		goai					
	Predictions for the Twin							
	suggest warmer							
temperature	es (especially during winter),							
which is cont	tributing to changes in							
	ibution and new invasions by							
	nts and pests from the south.							
	on of more severe storms							
	ater potential for flooding							
	especially along already							
	eams such as Big			Tree canopy protection and augmentation can help mitigate localized heat				
J420 MP19 Mendota Heights NI Foot/Intersta	ate Valley Creek.	Climate Change 0	General goal	islands, discussed above.	Y	Invasives	Flood	Sediment.Erosion
	nge presents its own suite of Predictions for the Twin							
	suggest warmer es (especially during winter),							
	tributing to changes in							
	ibution and new invasions by							
	its and pests from the south.							
	on of more severe storms							
	ater potential for flooding							
	especially along already							
	eams such as Big			There are many additional climate resilience and adaptation strategies beyond				
J421 MP19 Mendota Heights NI Foot/Intersta	ate Valley Creek. 0	Climate Change 0	General goal	the scope of this project (see the City's 2040 Comprehensive Plan).	Y	Invasives	Flood	Sediment.Erosion
	of Mendota Heights is							
	Multiple ownerships make							
	ale conservation challenging,			The City is well positioned to work with its partners and private landowners				
	e systematic and contiguous			within the City to more effectively and efficiently achieve its natural resources				
	vasive vegetation, which			goals. Some private land opportunities are discussed above under the invasive				
J422 MP19 Mendota Heights NI readily crosse The City's de	es property lines. F velopment density	Private land 0	General goal	vegetation and climate change challenges.		Invasives		
	oftops, roadways, parking							
	sults in significant							
	runoff from impervious							
	example, one inch of rainfall							
	quare foot roof will yield							
	ly 600 gallons of runoff							
(Minnesota F								
	ncy 2017). This results in							
polluted, hig	h-energy, erosive flows that							
	ng and degrade streams,			While not a focus of this NRMP, there are many stormwater best management				
	d other downstream			practices (BMPs) that can help reduce the adverse impacts of runoff. Many of				
J423 MP19 Mendota Heights NI waterbodies.		Erosion & Sediment 0	General goal	these will require or benefit from partnering with private landowners.	Y	Stormwater	Flood	Development Sediment.Erosion
	rmwater capture and reuse							
	noff volume and conserve					<i>.</i> .		
J43 MP21 Nine Mile Creek WR groundwater	r. (Groundwater 0	General goal	Work with others to evaluate and implement reuse. Update NMCWD rules as needed and implement	т	Stormwater	Groundwater	
J44 MP21 Nine Mile Creek WR Manage rund	off to prevent erosion	Water Quality 0	General goal	Update NMCWD rules as needed and implement through permitting program.		Sediment.Erosion		
	undwater recharge by	water quanty t	Seneral goal	an on Brannan B krokinin		Scamencerosion		
	ig stormwater infiltration							
	reas with high recharge			Work with others to evaluate and implement infiltration projects that promote				
J45 MP21 Nine Mile Creek WR potential.		Groundwater 0		groundwater recharge.	Y	Stormwater	Groundwater	
				The City will work with the watershed districts to address concerns with				
J451 MP5 Shakopee SW AIS		Wildlife 0	General goal	aquatic invasive species in public waters.		Invasives		

	Control or manage sediment discharge			Require the use of BMPs for erosion and sediment control as specified in the						
	into surface water resources and			Minnesota Stormwater Manual (MPCA, 2005), as may be amended, and						
1452 MP7 Eden Prairie SW	drainage ways.	Erosion & Sediment	General goal	watershed district requirements.			х			
	Support water recreation activities and fish and wildlife habitat by									
	implementation of programs to maintain			Preserve vegetative buffers around wetlands and riparian areas to provide						
J453 MP7 Eden Prairie SW	or improve water quality.	Recreation	General goal	habitat for wildlife.				Y	Wetlands	Natural Resource Protection
	Support water recreation activities and		0							
	fish and wildlife habitat by									
	implementation of programs to maintain			Balance water recreational activities with water quality, habitat, and Aquatic						
J454 MP7 Eden Prairie SW	or improve water quality. Support water recreation activities and	Recreation	General goal	Invasive Species (AIS) issues.					Invasives	
	fish and wildlife habitat by									
	implementation of programs to maintain			Explore new opportunities to integrate surface water based recreation						
J455 MP7 Eden Prairie SW	or improve water quality.	Recreation	General goal	activities and wildlife interests within wildlife corridors.			х			
	Support water recreation activities and									
	fish and wildlife habitat by									
J456 MP7 Eden Prairie SW	implementation of programs to maintain or improve water quality.	Recreation	General goal				×			
J456 MP7 Eden Prairie SW	or improve water quality. Support water recreation activities and	Recreation	General goal	Enhance recreational opportunities and access to the creek corridor.			X			
	fish and wildlife habitat by									
	implementation of programs to maintain			Maintain the natural beauty, accessibility, and wildlife habitat for the creek						
J457 MP7 Eden Prairie SW	or improve water quality.	Recreation	General goal	corridors.			х			
	Support water recreation activities and									
	fish and wildlife habitat by									
J458 MP7 Eden Prairie SW	implementation of programs to maintain or improve water quality.	Recreation	General goal	Support programs for monitoring and managing exotic and invasive species.					Invasives	
sauce and cuer raine SW	Support water recreation activities and	neereation	General Boar	Manage the spread of AIS through programs such as watercraft inspection						
	fish and wildlife habitat by			programs, harvesting, herbicide treatments of invasive species, and water						
	implementation of programs to maintain			quality and vegetation monitoring. The annual program will be coordinated						
J459 MP7 Eden Prairie SW	or improve water quality.	Recreation	General goal	with the Watershed Districts.					Invasives	
J46 MP21 Nine Mile Creek V	up Manitan District Inland			develop and document lake monitoring plan. Collect, interpret and report water quality data. Establish citizen monitoring program.						
J46 MP21 Nine Mile Creek V	Support water recreation activities and	Water Quality	General goal	water quality data. Establish citizen monitoring program.					Monitoring	
	fish and wildlife habitat by			Design and construct lake outlets to provide a barrier to upstream migration of						
	implementation of programs to maintain			rough fish, and evaluate and maintain existing barriers as needed in						
J461 MP7 Eden Prairie SW	or improve water quality.	Recreation	General goal	coordination with the Watershed Districts.						
				develop and document stream monitoring plan. Maintain and operate flow and						
J47 MP21 Nine Mile Creek V	up Marsitan District stores			sampling stations. Monitor water quality, fish community, macroinvertebrates, stream habitat.						
J47 MP21 Nine Mile Creek V	VR Monitor District streams Conduct targeted monitoring to assess	Water Quality	General goal	stream habitat.					Monitoring	
J48 MP21 Nine Mile Creek V		Water Quality	General goal	Conduct targeted monitoring					Monitoring	
	Minimize water quality impacts from new	v								
	development, redevelopment, and land									
J49 MP21 Nine Mile Creek V	VR disturbing activities.	Water Quality	General goal	Implement stormwater management rules through permitting program				Y	Stormwater	Development
				The City will continue to review and evaluate capacity and condition of storm sewer during development/redevelopment projects and street reconstruction						
	Old Downtown undersized pipes leading			projects. The City will evaluate the need for redevelopment requirements						
J5 MP5 Shakopee SW	to localized roadway flooding	Flooding	Specific goal	specific for this area to improve this issue.					Flood	
				conduct inventory, develop targeted management strategy, work with						
J50 MP21 Nine Mile Creek V	VR AIS	Water Quality	General goal	stakeholder's			х			
				Volume reduction and rate control in the Bluff Creek drainage are to reduce						
J500 MP26 Chanhassen SW	Lower Bluff Creek TMDL Implementation	Water Quality	CIP	channel and gully erosion and sedimentation into the Creek. Includes LMRWD Bluff Creek Restoration Project and Erosion Repair Project	2018-2022		\$1,450,000	Y	CIPs.Projects	Impaired.TMDL
JSUU IVIP20 Chaimassen SVV	Minnesota River Bank Stabilization	water quality	CIF	Collaboration project with Lower Minnesota River Watershed District to	2018-2022		\$1,430,000	T	CIPS.Projects	Impaired. I MDL
J501 MP7 Eden Prairie SW	Project	Water quality	CIP	stabilize a section of the Minnesota River along Old Riverview Road .	2023-2024		\$350,000	Y	Sediment.Erosion	CIPs.Projects
				Blue Lake Channel (East) Regional Storm Pond - It is important to control rates						
				to manage the stormwater system and protect/reduce the potential for						
				flooding in the downstream Prior Lake Outlet Channel. If there is infiltration,						
				the project may reduce share outlined in the Prior Lake Outlet Channel Agreement. This project can provide water quality benefits by reducing						
	Blue Lake Channel (east) regional storm			sediment and phosphorus to help meet water quality goals and NPDES MS4						
J502 MP5 Shakopee SW	pond - rate control	Water Quality	CIP	requirements.		2021	\$750,000	Y	Stormwater	CIPs.Projects
				Blue Lake Channel (West) Regional Storm Pond - It is important to control rates						· · ·
				to manage the stormwater system and protect/reduce the potential for						
				flooding in the downstream stormwater system. It may also provide water						
1500 MOS Challenge Chil	Blue Lake Channel (west) regional storm	Water Ovality	CID	quality benefit by reducing sediment and phosphorus to help meet water		2022	6750.000	×	Ch	CID- Designate
J503 MP5 Shakopee SW	pond - rate control	Water Quality	CIP	quality goals and NPDES MS4 requirements. Ridge Creek Park and Prior Lake Outlet Channel Improvements		2023	\$750,000	Y	Stormwater	CIPs.Projects
				- The channel improvements include realignment of the Prior Lake Outlet						
				Channel to better handle increased run-off due to development, incorporating						
	Ridge Creek Park and Prior Lake Outlet			water quality BMPs to reduce sediment and phosphorus, and wetland						
J504 MP5 Shakopee SW	Channel Improvements	Water Quality	CIP	enhancement.			\$1,200,000	Y	Flood	CIPs.Projects
				Prior Lake Outlet Channel (PLOC) Improvements - Maintenance and			tween			
				improvements to the PLOC. There is a Memorandum of Agreement between the City of Shakopee, City of Prior Lake, Shakopee Mdewakanton Sioux			0,000 & 00,000			
	Prior Lake Outlet Channel (PLOC)			Community, and Prior Lake-Spring Lake Watershed District that requires the			pending			
J505 MP5 Shakopee SW	Improvements	Water Quality	CIP	Cooperators to maintain the channel and crossings.	2020-2028 & 2029-2033		year	Y	Flood	CIPs.Projects
· · · · · ·	Keller Lake to MN River Water Level H&H	1	-							
J506 CP12 Ci-Burnsville	Analysis and Report	Water Quality	CIP	Keller Lake to MN River Water Level H&H Analysis and Report		2019	\$75,000	Y	Flood	CIPs.Projects
Ci-Mendota										
J507 CP20 Heights	Lake Augusta Erosion	Water Quality	CIP	Lake Augusta Erosion		2020	\$150,000	Y	Sediment.Erosion	n CIPs.Projects

			Schroeder's Acres Park/Savage Fen Stormwater Management Project - This					
			project will evaluate options for incorporating stormwater wetland and					
			irrigation reuse systems on the site and address phosphorous, temperature,					
	Schroeder's Acres Park/Savage Fen Storm		metals, E. coli and runoff volume in Eagle Creek. Partner with LMRWD and					
J508 MP8 Savage SW	water Management Project	Water Quality CIP	DNR.	2022	\$190,000	Y	Stormwater	CIPs.Projects
			Credit River CLOMR, Floodplain Management, and Stormwater Evaluation - The					
	Credit River CLOMR, Floodplain Manage		City is currently completing a study to evaluate the floodway associated with the downtown area, floodplain management, and stormwater management					
J509 MP8 Savage SW	ment, and Stormwater Evaluation	Water Quality CIP	needs for potential future development/redevelopment.	2020	\$76,873	v	Flood	CIPs.Projects
1505 Wird Savage Sw	ment, and stornwater Evaluation	water quality Cir	participate in TMDL and WRAPS. Promote implementation. Develop and	2020	<i>\$10,015</i>		11000	ch's.riojecis
J51 MP21 Nine Mile Creek	WRITMDI	Water Quality General					Impaired.TMDL	
			Credit River Streambank Erosion - The City will work with its partner agencies					
			to complete a streambank assessment of the Credit River. Various areas have					
			been noted as having streambank and bluff erosion. Ravines discharging to the					
J510 MP8 Savage SW	Credit River Streambank Erosion	Water Quality CIP	Credit River in Savage have been stabilized.	2021	\$5,000			
			Consider implementation of recommended programs and projects from UAAs,					
			TMDL, and WRAPS studies.					
			Work with cities and other stakeholders to promote implementation of					
			recommendations from UAA, TMDL, and WRAPS studies. Develop and maintain					
J52 MP21 Nine Mile Creek	Implement water quality management /	Water Quality General	a system to track pollutant load reductions achieved toward meeting UAA, oal TMDL, and/or WRAPS goals.				Impaired.TMDL	
J52 MP21 Nine Mile Creek V	WR improvement actions	water Quality General	IMDL, and/or WKAPS goals. Identify and target priority chloride sources to Nine Mile Creek. Work with				Impaired. I NIDL	
			winter salt applicators to reduce salt usage on roadways and other hard					
			surfaces. Implement District cost-share program to support reduction of salt					
			use on roadways, parking lots, and sidewalks. Conduct educational					
J53 MP21 Nine Mile Creek	WR Chloride	Water Quality General					Impaired.TMDL	
			Identify and target areas prone to erosion. Conduct stream stabilization					
			improvement projects. Implement stormwater management rules through the					
	Improve the stability of Nine Mile Creek		NMCWD permitting program. Identify and implement stormwater volume					
J54 MP21 Nine Mile Creek V	WR and reduce erosion.	Water Quality General				Y	Stormwater	Sediment.Erosion
			Work with cities and developers to provide					
			access to water resources through the					
			development/redevelopment process or in					
			conjunction with NMCWD water management					
IFF AAD21 Alian Adile Constant	Enhance access to water resources, while		projects, while protecting and conserving natural oal areas.				Natural Resource	Destanting
J55 MP21 Nine Mile Creek	WR protecting and conserving natural areas.	Open space General	Implement natural area and habitat improvements as part of NMCWD capital				Natural Resource	Protection
	Protect and enhance natural areas to		improvement projects. Partner with other local governments, agencies, and					
	improve fish and wildlife habitat, water		other organizations to pursue natural area, recreation, and habitat protection					
J56 MP21 Nine Mile Creek	WR quality and recreational opportunities	Recreation General					Cooperation	
			Evaluate Nine Mile Creek corridor for opportunities to restore natural function					
	Maintain natural stream corridor		and scenic values. Partner with other local governments and private					
	qualities for recreational users and		landowners to improve stream corridor through buffers, riparian plantings and					
J57 MP21 Nine Mile Creek V	WR general public.	Recreation General	oal restoration projects.				Corridors	
	Avoid negative impacts and fragmenting of locally and regionally significant		Work with other local governments to identify locally and regionally significant					
	natural areas and corridors when		natural areas and corridors and promote preservation and/or management of					
158 MP21 Nine Mile Creek	WR feasible, and mitigate when unavoidable.	Recreation General					Corridors	
350 IN 21 INTERNE CICCU	Work with other local governments to						comuois	
	adopt land use and development							
	ordinances or other regulatory controls							
	to complement NMCWD's wetland							
	protection rule and achieve no net loss of		Establish an incentive program for implementation of wetland buffer areas on					
J59 MP21 Nine Mile Creek V	WR wetland acreage, function, and value.	Wetlands General	oal private properties.				Development	
	Upper Valley Drainage Ditch south of		we way the strategy of the strategy of the					
	Highway 169 and east of Old Brick Yard		The City will work with the watershed to complete a feasibility study to					
	Road does not have capacity for drainage		evaluate capacity and water quality at this regional facility. Implementation of improvements to the regional facility are dependent on development.				Develo	
J6 MP5 Shakopee SW	from future development. Achieve no net loss of wetland acreage,	Drainage	improvements to the regional facility are dependent on development.				Development	
	function, and values on District-		Pursue wetland enhancement, restoration, and creation opportunities to					
J60 MP21 Nine Mile Creek		Wetlands General					Wetlands	
in 11 Nine whe cleek		delieral	Inventory wetlands within the watershed, including delineation, functions and					
			values assessment. Compile and track wetland functions and values					
			assessments conducted within the Nine Mile Creek watershed. Identify rare					
			and high-quality wetland plant communities, and sensitive habitats and animal					
			and plant species for protection. Develop wetland restoration and protection					
			plan to address high-quality wetlands areas, sensitive habitats and plant					
			species, and rare, endangered, and threatened plants and animals within					
	Protect and restore high-quality wetland		watershed. Partner with other local governments to identify and implement					
	areas, sensitive habitats, sensitive animal		wetland restoration opportunities. Work with other local governments and					
	and plant species, and rare or		natural resource agencies to manage invasive species and restore native					
J61 MP21 Nine Mile Creek	WR endangered species.	Wetlands General	oal species.			Y	Unique.Sensitive	.h Invasives
			Develop a second value and the local second s					
			Develop a groundwater monitoring plan, including consideration of monitoring groundwater levels and contaminant concentrations. Continue collection of					
			groundwater levels and contaminant concentrations. Continue collection of static groundwater levels from observation wells throughout the watershed.					
			static groundwater levels from observation wells throughout the watershed. Study the interaction of groundwater and surface water resources in the Nine					
			Study the interaction of groundwater and surface water resources in the Nine Mile Creek watershed to better understand the impacts of groundwater on					
	Collect and evaluate data relevant to		lake, wetland and stream hydrology and to identify areas with high aquifer					
	increasing the District's understanding of		recharge potential. Summarize groundwater monitoring data annually in the					
1	WR groundwater resources.	Groundwater General				Y	Monitoring	Groundwater
J62 MP21 Nine Mile Creek V							-	

		Collaborate with others to research infiltration impacts on groundwater and		
		develop a consistent approach to protecting areas sensitive to groundwater		
Cooperate with other state and local		contamination. Collaborate with other agencies to enhance groundwater		
J63 MP21 Nine Mile Creek WR agencies to identify and fill data gaps.	Groundwater General goal	monitoring efforts.	Y	Unique.Sensitive.h Monitoring Cooperation Groundwater
		Support the MDH and other state, regional, and local agencies in implementing		
		wellhead protection programs and plans within the District. Partner with		
		Hennepin County, other local water management organizations, cities, and		
Participate in regional groundwater		state agencies to develop a regional groundwater management plan, and		
J64 MP21 Nine Mile Creek WR planning efforts.	Groundwater General goal	participate in regional groundwater planning efforts.		Groundwater
		Require cities to adopt and implement a groundwater-conservation policy.		
		Work with cities and state agencies to promote the use of, and reduce		
Promote groundwater conservation and		regulatory barriers to, stormwater reuse. Encourage cities to develop		
J65 MP21 Nine Mile Creek WR sustainable groundwater use.	Groundwater General goal	groundwater sustainability goal(s).	Y	Stormwater Groundwater
		Identify and map areas in the watershed based on potential for (and limitations		
		to) groundwater recharge. Work with cities to encourage recharge within their		
Promote groundwater recharge –		regulatory controls and other guidance, especially where it will protect and		
especially where it will protect and		improve groundwater-dependent natural resources. Seek opportunities to		
improve ground-water dependent		incorporate recharge into District projects, especially where it will protect and		
J66 MP21 Nine Mile Creek WR natural resources.	Groundwater General goal	improve groundwater-dependent natural resources.		Groundwater
		Participate in local and regional land use planning efforts to identify		
		opportunities to achieve District goals, objectives and policies. Inform local and		
Collaborate with cities to identify and		regional land use planning efforts by providing information and analysis		
promote water resource improvement		regarding opportunities for improved water resources management and		
opportunities as part of local or regiona	I	protection. Provide assistance to cities to incorporate low impact development		
J67 MP21 Nine Mile Creek WR planning efforts.	Land Use General goal	requirements into local controls.		Cooperation
Require development, redevelopment				· · ·
and other land-disturbing activities				
within the watershed to prevent impact	ts	Implement District rules through the permitting program. Ensure coordination		
on water resources, including cumulativ		of the District's regulatory program with local land use controls to support the		
J68 MP21 Nine Mile Creek WR impacts.	Land Use General goal	District's policies and objectives.	Y	Development Low Impact Devel
	Land Ose General goal			
Ensure that impacts of development on				
water resources, including cumulative		Assist cities in understanding the individual and cumulative impacts of		
J69 MP21 Nine Mile Creek WR impacts, are understood and considered	d. Land Use General goal	development on water resources.	×	Development Low Impact Devel
105 INP21 Nine Nine Creek WK impacts, are understood and considered	deneral goal	development on water resources.		Development Low Impact Devel
		The City will continue to provide frequent maintenance, monitor and evaluate		
17 MP5 Shakopee SW Localized flooding issues	flanding Conservational		×	Manifestina Florad
	Flooding General goal	short- and long-term solutions for addressing the concern at this location.	ř	Monitoring Flood
Prevent floodplain encroachment in order to maintain no net loss of		Work with cities to identify floodplain areas and permissible land uses. Work		
		with cities to develop and distribute educational materials on floodplain		
J70 MP21 Nine Mile Creek WR floodplain storage	Land Use General goal	locations, protection, and floodplain land use restrictions.		Flood
		Work with other local governments to establish natural vegetated buffers on all		
The natural function of the floodplain as	S	publicly owned lands adjacent to Nine Mile Creek and stormwater detention		
a floodwater storage area will be		areas. Pursue opportunities to preserve, restore, and		
J71 MP21 Nine Mile Creek WR protected from encroachment.	Flooding General goal	manage floodplain wetlands.	Y	Stormwater Flood
		Assist cities in identifying and prioritizing flooding problems identified using		
		Atlas 14 precipitation frequency estimates. Assist cities in identifying		
		improvement alternatives to address regional flooding		
Work with cities to address increased		problems. Assist cities in implementing infrastructure		
flood potential from NOAA Atlas 14		improvements to address regional flooding problems. Work with cities to		
J72 MP21 Nine Mile Creek WR precipitation frequency depths.	Flooding General goal	incorporate flood risk information into local land-use controls.		Flood
		Assess increased flood risk due to predicted climate changes. Work with cities		
Understand and address the potential for	or	and stakeholders to understand the increased flood risks and identify potential		
increased flood risk due to predicted		adaptation strategies. Review District rules and policies for adequacy under		
J73 MP21 Nine Mile Creek WR changes in climate.	Flooding General goal	climate change scenario(s).		Flood
		Evaluate impacts and develop a District climate change adaptation strategy to		
		identify natural and water resource vulnerabilities to climate change and		
		potential adaptation strategies. Work with other local governments and other		
		stakeholders to educate regarding the impacts of climate change and assist in		
		developing city specific climate change adaptation strategies. Work with other		
Promote climate change adaptation to		local governments to implement climate change adaptation strategies.		
minimize property damage and impacts		Collaborate with other natural resource management agencies to utilize		
J74 MP21 Nine Mile Creek WR to District natural and water resources.		current data and develop shared strategies.		Cooperation
	ceneral goal	Develop and promote volunteer opportunities at Nine Mile Creek Discovery		
		Point. Continue to develop and promote educational programming that builds		
		the connection between people and nature. Promote and work to increase		
Provide opportunities to engage the		participation in Discovery Point programming. Use the District's website		
public and promote a stewardship		communication methods such as social media to engage the public and		
J75 MP21 Nine Mile Creek WR principle.	Education General goal	promote stewardship of the District water and natural resources.		Public engagement.education
J75 MP21 Nine Mile Creek WR principle. Coordinate education and outreach	Concation General goal	promote stewardship of the district water and natural resources.		rubiic engagement.euucation
efforts and promote efficient and				
efforts and promote efficient and effective education and outreach		Assist in distributing materials or promoting programs douglaged by ether		
		Assist in distributing materials or promoting programs developed by other		
through partnerships with cities, other		organizations. Assist in promoting, developing, and/or implementing education		
local and state agencies, nonprofits, and		and outreach programs and materials in partnership with other organizations.		
J76 MP21 Nine Mile Creek WR other organizations.	Education General goal	Meet yearly with cities to coordinate education and outreach efforts.		Public engagement.education
		Assist in distributing materials or promoting programs developed by other		
		Financially sponsor programs and the development of new education programs,		
Engage new and maintain existing		when		
J77 MP21 Nine Mile Creek WR partnerships.	Education General goal	appropriate.		Public engagement.education
	Education General goal	organizations. Assist in promoting, developing, and/or implementing education and outreach programs and materials in partnership with other organizations. Financially sponsor programs and the development of new education programs, when		Public engagement.education

		Coordinate water resource management			Identify opportunities to incorporate water resource management efforts into		
		efforts and collaborate with District			capital improvement projects and major redevelopment projects. Provide		
		partners, including residents, cities,			financial and technical assistance to District partners for water resource		
		pertinent governmental units, and other			management and protection activities. Promote innovative water resource		
		organizations, to promote efficiency and			management through implementation of District projects and support of		
		cost effective use of funds for water			projects by District partners. Coordinate water quality monitoring efforts to		
J78	MP21 Nine Mile Creek W		Water quality	General goal	avoid redundancy.	Ŷ	Monitoring Cooperation
179		Explore reductions in discharge rate in			Review of proposed development projects, Hydrologic / hydraulic models,		
179	MP26 Chanhassen SW	the Bluff Creek System	Water quality	Specific goal	Analysis of downstream impacts	x	
		Protect groundwater levels within the			The City of Shakopee will work with the Lower Minnesota River Watershed		
		Eagle Creek Watershed to protect the			District and City of Savage regarding groundwater studies contributing to the		
18	MP5 Shakopee SW	Boiling Springs and Fen areas.	Groundwater	Specific goal	Eagle Creek Boiling Springs and Fen areas.	Y	Groundwater Trout.Fen
J80	MP26 Chanhassen SW	Evaluate highwater levels on Lotus Lake	Water quality	Specific goal	identify opportunities for volume and water quality benefits	X	
		Explore water quality improvement					
		projects on Riley and Lotus Lakes for					
J81	MP26 Chanhassen SW	anticipated TMDL Participate in TMDL studies for Riley and	Water quality	Specific goal	Install BMPs, improve water quality, increase treatment capacity		Impaired.TMDL
		Lotus lakes		a	implement recommendations		
J82	MP26 Chanhassen SW		Water quality	Specific goal	implement recommendations		Impaired.TMDL
183	MP26 Chanhassen SW	Continue water quality monitoring on local lakes	Manage and Inc.	Conservations			Monitoring
183	MP26 Channassen SW	Complete neighborhood studies and	Water quality	General goal	assess data, management approach adjustments		Monitoring
184	MP26 Chanhassen SW	implement treatment BMPs	Manage and Inc.	Conservations		v	
184	WP26 Channassen SW	Implement the wetland management	Water quality	General goal	complete projects, establish treatment capacity	*	
		program described in Section V of this					
J85	MP26 Chanhassen SW	Program described in Section V of this Plan	Wetlands	General goal	complete annual WMP activities, implement projects, create new wetlands		Wetlands
182	wiPzo Criannassen SW	continue to implements erosion	weildnus	General goal	complete annual while activities, implement projects, create new Wellands		wetiditus
J86	MP26 Chanhassen SW	continue to implements erosion sediment control program	Erosion & Sediment	General goal	Implement projects		Sediment.Erosion
190	WIF20 Cirdfindssen SW	Explore opportunities for erosion	crosion & sequinent	General goal	implement projecta		Jeument.cr05001
		protection and bank stabilization at key					
J87	MP26 Chanhassen SW	storm system conveyances and outlets	Erosion & Sediment	General goal	install BMPs, reduce bank erosion, reduce gullies and washouts		Sediment.Erosion
181	WIF20 CIIdfilldSSeff SW	Explore opportunities for grant program	LI USIUN & Seument	General goal	nistan own s, reduce ballk erosion, reduce guilles and washouts		Jeument.cr05001
188	MP26 Chanhassen SW	funding	Finance	General goal	complete study, implement changes to assessments and / or utility rates	×	
199	WIF20 Citalinassen SW	Continue to implement the City's NPDES		General goal	complete story, implement changes to assessments and y or utility lates	^	
189	MP26 Chanhassen SW	Permit program SWPPP.	Regulatory	General goal	program assessment	x	
105	Wir 20 Channassen Sw	renne program Swirtr.	Regulatory	General goal	program assessment	~	
					The city will participate in the development of TMDL Studies. One completed		
					TMDL study which addresses dissolved oxygen and phosphorus load allocations		
					identified a 30% reduction in non-point source phosphorus loads from		
					permitted Municipal Separate Storm Sewer Systems (MS4) communities. There		
					is a TMDL study for turbidity in development but is not yet completed. The City		
					will continue to implement Shakopee's Comprehensive Surface Water		
					Management Plan, meet requirements associated with the City's MS4 National		
	1405 CL 1 CL	The Minnesota River is impaired for			Pollutant Discharge Elimination System (NPDES) Permit, and implement its		
19	MP5 Shakopee SW	nutrients and turbidity.	Water Quality	General goal	Pollutant Discharge Elimination System (NPDES) Permit, and implement its SWPPP to address non-point source pollution.		Impaired.TMDL
19	MP5 Shakopee SW	nutrients and turbidity. Maintain consistency with Watershed	Water Quality	General goal			Impaired.TMDL
19		nutrients and turbidity. Maintain consistency with Watershed Management Organization Plan Goals			SWPPP to address non-point source pollution.		Impaired.TMDL
190 19	MP5 Shakopee SW MP26 Chanhassen SW	nutrients and turbidity. Maintain consistency with Watershed Management Organization Plan Goals and Policies	Water Quality Regulatory	General goal General goal		x	Impaired.TMDL
	MP26 Chanhassen SW	nutrients and turbidity. Maintain consistency with Watershed Management Organization Plan Goals and Policies Remain involved in local educational	Regulatory	General goal	SWPPP to address non-point source pollution.	x	
J91	MP26 Chanhassen SW MP26 Chanhassen SW	nutrients and turbidity. Maintain consistency with Watershed Management Organization Plan Goals and Policies Remain involved in local educational campaigns	Regulatory Education	General goal General goal	SWPPP to address non-point source pollution. plan updates as needed distribute products/information		Public engagement.education
	MP26 Chanhassen SW MP26 Chanhassen SW	nutrients and turbidity. Maintain consistency with Watershed Management Organization Plan Goals and Policies Remain involved in local educational campaigns Publish water resources articles	Regulatory	General goal	SWPPP to address non-point source pollution.		
J91	MP26 Chanhassen SW MP26 Chanhassen SW	nutrients and turbidity. Maintain consistency with Watershed Management Organization Plan Goals and Policies Remain involved in local educational campaigns Publish water resources articles Lake Ann - Eurasian watermifoli, curly	Regulatory Education	General goal General goal	SWPPP to address non-point source pollution. plan updates as needed distribute products/information place articles in quarterly Chanhassen Connection newsletter		Public engagement.education
J91 J92	MP26 Chanhassen SW MP26 Chanhassen SW MP26 Chanhassen SW	nutrients and turbidity. Maintain consistency with Watershed Management Organization Plan Goals and Policies Remain Involved in local educational campaigns Publish water resources articles Lake Ann - Eurasian watermilfoil, curly leave pondweed, water quality	Regulatory Education Education	General goal General goal General goal	SWPPP to address non-point source pollution. plan updates as needed distribute products/information place articles in quarterly Chanhassen Connection newsletter reduction of Eurasian watermilfoll, curly leave pondweed. Improving water		Public engagement education Public engagement education
J91	MP26 Chanhassen SW MP26 Chanhassen SW	nutrients and turbidity. Maintain consistency with Watershed Management Organization Plan Goals and Policies Remain involved in local educational campaigns Publish water resources articles Lake Ann - Eurasian watermifoli, curly leave pondweed, water quality monitoring	Regulatory Education	General goal General goal	SWPPP to address non-point source pollution. plan updates as needed distribute products/information place articles in quarterly Chanhassen Connection newsletter		Public engagement.education
J91 J92 J93	MP26 Chanhassen SW MP26 Chanhassen SW MP26 Chanhassen SW MP26 Chanhassen SW	nutrients and turbidity. Maintain consistency with Watershed Management Organization Plan Goals and Policies Remain involved in local educational campaigns Publish water resources articles Lake Ann - Eurasian watermifoli, curly leave pondweed, water quality monitoring Christmas Lake - 1994 lake management	Regulatory Education Education Water Quality	General goal General goal General goal Specific goal	SWPPP to address non-point source pollution. plan updates as needed distribute products/information place articles in quarterly Chanhassen Connection newsletter reduction of Eurasian watermilfoil, curly leave pondweed. Improving water quality trends		Public engagement education Public engagement education
J91 J92	MP26 Chanhassen SW MP26 Chanhassen SW MP26 Chanhassen SW	nutrients and turbidity. Maintain consistency with Watershed Management Organization Plan Goals and Policies Remain involved in local educational campaigns Publish water resources articles Lake Ann - Eurasian watermilfoil, curly leave pondweed, water quality monitoring Christmas Lake - 1994 lake management plan recommendations	Regulatory Education Education	General goal General goal General goal	SWPPP to address non-point source pollution. plan updates as needed distribute products/information place articles in quarterly Chanhassen Connection newsletter reduction of Eurasian watermilfoll, curly leave pondweed. Improving water		Public engagement education Public engagement education
J91 J92 J93	MP26 Chanhassen SW MP26 Chanhassen SW MP26 Chanhassen SW MP26 Chanhassen SW	nutrients and turbidity. Maintain consistency with Watershed Management Organization Plan Goals and Policies Remain involved in local educational campaigns Publish water resources articles Lake Ann - Eurasian watermilfoli, curly leave pondweed, water quality monitoring Christmas Lake - 1994 lake management plan recommendations Lotus Lake - invasive/exotic species,	Regulatory Education Education Water Quality	General goal General goal General goal Specific goal	SWPPP to address non-point source pollution. plan updates as needed distribute products/information place articles in quarterly Chanhassen Connection newsletter reduction of Eurasian watermilfoil, curly leave pondweed. Improving water quality trends		Public engagement education Public engagement education
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191 192 193 194 195 196 197 198 199 199 K1	MP26 Chanhassen SW MP26 Chanhassen SW	nutrients and turbidity. Maintain consistency with Watershed Management Organization Plan Goals and Policies Remain Involved in local educational campaigns Publish water resources articles Lake Ann - Eurasian watermilfoil, curly leave pondweed, water quality monitoring Christmas Lake - 1994 lake management Jan recommendations Lotus Lake - invasive/exortic species, Eurasian watermilfoil, curly leave pondweed, purple loosestrife Lake Lucy - curly leave pondweed, complete a lake and vegetation management plan Lake Minewsha - monitor adjacent wetlands, Eurasian watermilfoil, curly leave pondweed, purple loosestrife Rice Lake March - 1994 lake management plan recommendations, curly leaf pondweed Lake Killey - Support the implementation of water quality treatment practices throughout the watershed Critical and sensitive features Minnesota River Corridor trail search to connect with the Minnesota River	Regulatory Education Education Water Quality t Water Quality LAND USE AND GROWTH MANAGE	General goal General goal General goal Specific goal Specific goal Specific goal Specific goal Specific goal Specific goal Specific goal Specific goal	SWPPP to address non-point source pollution. plan updates as needed distribute products/information place articles in quarterly Chanhassen Connection newsletter reduction of Eurasian watermilfoll, curly leave pondweed. Improving water quality trends Improving water quality trends reduction of nuisance invasive/exotic species reduction of nuisance invasive/exotic species. reduction of nuisance invasive/exotic species, Improving water quality trends reduction of nuisance invasive/exotic species, Improving water quality trends reduction of nuisance invasive/exotic species, Improving water quality trends reduction of nuisance invasive/exotic species, Improving water quality trends reduction of nuisance invasive/exotic species, Improving water quality trends reduction of nuisance invasive/exotic species, Improving water quality trends reduction of nuisance invasive/exotic species, Improving water quality trends reduction of nuisance invasive/exotic species, Improving water quality trends improving water quality trends identify and evaluate all critical and sensitive environmental features in Scott County, Reason: It is important to identify and map all environmental features that should be protected before any land use changes occur. Minnesota River Extension Regional Trail Search Corridor [20] This corridor would connect with the Minnesota River Greenway (a portion of which is the Big Rivers Regional Trail) Backa County and follow the Minnesota River to	x x	Public engagement education Public engagement education Monitoring Invasives Invasives Invasives Invasives Unique.Sensitive.high value
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J91 J92 J93 J94 J95 J96 J97 J98 J99 K1	MP26 Chanhassen SW MP26 Chanhassen SW	nutrients and turbidity. Maintain consistency with Watershed Management Organization Plan Goals and Policies Remain involved in local educational campaigns Publish water resources articles Lake Ann - Eurasian watermilfoil, curly leave pondweed, water quality monitoring Lotus Lake - invasive/exotic species, Eurasian watermilfoil, curly leave pondweed, purple loosestrife Lake Lury - curly leave pondweed, complete a lake and vegetaion management plan Lake Minewshata - monitor adjacent wetlands, Eurasian watermilfoil, curly leave pondweed, purple loosestrife Rice Lake Marsh - 1994 lake management plan recommendations, curly leaf pondweed Lake Minewshata - monitor adjacent wetlands, Eurasian watermilfoil, curly leave pondweed, purple loosestrife Rice Lake Marsh - 1994 lake management plan recommendations, curly leaf pondweed Critical and sensitive features Minnesota River Corridor trail search to connect with the Minnesota River Greenway	Regulatory Education Education Water Quality t Water Quality LAND USE AND GROWTH MANAGE	General goal General goal General goal Specific goal Specific goal Specific goal Specific goal Specific goal Specific goal Specific goal Specific goal	SWPPP to address non-point source pollution. plan updates as needed distribute products/information place articles in quarterly Chanhassen Connection newsletter reduction of Eurasian watermilfoli, curly leave pondweed. Improving water quality trends improving water quality trends reduction of nuisance invasive/exotic species reduction of nuisance invasive/exotic species, Improving water quality trends reduction of nuisance invasive/exotic species, Improving water quality trends reduction of nuisance invasive/exotic species, Improving water quality trends reduction of nuisance invasive/exotic species, Improving water quality trends reduction of nuisance invasive/exotic species, Improving water quality trends reduction of nuisance invasive/exotic species, Improving water quality trends reduction of nuisance invasive/exotic species, Improving water quality trends reduction of nuisance invasive/exotic species, Improving water quality trends reduction of nuisance invasive/exotic species, Improving water quality trends improving water quality trends Improving water quality trends identify and evaluate all critical and sensitive environmental features in Scott County. Reason: It is important to identify and map all environmental features that should be protected before any land use changes occur. Minnesota River Exension Regional Trail is Datota County and follow the Minnesota River to The Landing near Shakopee If the proposed end land use of the aggregate mining site is for natural area conservation of wildlife protection or if it is determined that a proposed end use for development is unlikely for a given property, requirements in the mining germit should be put in place to ensure ecological enhancement and	x x	Public engagement education Public engagement education Monitoring Invasives Invasives Invasives Invasives Unique.Sensitive.high value
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ј91 ј92 ј93 ј94 ј95 ј96 ј97 ј98 ј99 к1 к10	MP26 Chanhassen SW MP26 Chanhassen SW	nutrients and turbidity. Maintain consistency with Watershed Management Organization Plan Goals and Policies Remain involved in local educational campaigns Publish water resources articles Lake Ann - Eurasian watermilfoli, curly leave pondweed, water quality monitoring Lotus Lake - 1994 lake management plan recommendations Lotus Lake - invasive/exotic species, Eurasian watermilfoli, curly leave pondweed, purple loosestrife Lake Lucy - curly leave pondweed, compiete a lake and vegetation management plan Lake Minnewashta - monitor adjacent wetlands, Eurasian watermilfoli, curly leave pondweed, purple loosestrife Mice Lake Marsh - 1994 lake management plan recommendations, curly leaf pondweed, purple loosestrife Mice Lake Marsh - 1994 lake management plan recommendations, curly leaf pondweed curtical and sensitive features Minnesota River Corridor trail search to connect with the Minnesota River Greenway Preserve and protect non-metallic	Regulatory Education Education Water Quality t Water Quality LAND USE AND GROWTH MANAGE	General goal General goal General goal Specific goal Specific goal Specific goal Specific goal Specific goal Specific goal Specific goal Specific goal Specific goal	SWPPP to address non-point source pollution. plan updates as needed distribute products/information place articles in quarterly Chanhassen Connection newsletter reduction of Eurasian watermilfoli, curly leave pondweed. Improving water quality trends improving water quality trends reduction of nuisance invasive/exotic species reduction of nuisance invasive/exotic species, Improving water quality trends reduction of nuisance invasive/exotic species, Improving water quality trends reduction of nuisance invasive/exotic species, Improving water quality trends reduction of nuisance invasive/exotic species, Improving water quality trends reduction of nuisance invasive/exotic species, Improving water quality trends reduction of nuisance invasive/exotic species, Improving water quality trends reduction of nuisance invasive/exotic species, Improving water quality trends reduction of nuisance invasive/exotic species, Improving water quality trends reduction of nuisance invasive/exotic species, Improving water quality trends improving water quality trends Improving water quality trends identify and evaluate all critical and sensitive environmental features in Scott County. Reason: It is important to identify and map all environmental features that should be protected before any land use changes occur. Minnesota River Exension Regional Trail is Datota County and follow the Minnesota River to The Landing near Shakopee If the proposed end land use of the aggregate mining site is for natural area conservation of wildlife protection or if it is determined that a proposed end use for development is unlikely for a given property, requirements in the mining germit should be put in place to ensure ecological enhancement and	x x	Public engagement education Public engagement education Monitoring Invasives Invasives Invasives Invasives Unique.Sensitive.high value

	Deposition of till by glaciers and incision							
	by the Minnesota River have created a							
	geologic setting that is naturally highly							
	erosive and very susceptible to increased							
	erosion and mass wasting, where shallow							
	lakes are predominant, and where							
	terraces along the Minnesota River have							
	shallow depths to bedrock and are highly							
	susceptible to groundwater							
K101 MP15 Scott	contamination.	Erosion and Pollution	General Issue	\ \	/ Se	ediment.Erosion	Groundwater	
	The landscape of the watershed has been							
K102 MP15 Scott	significantly altered by agriculture.	Land Use	General Issue		A	griculture		
	Stability of streambanks and aquatic							
	habitat has been impacted by changes to							
	streamside vegetation, channel							
1400 NIDIE 6 11	alterations, ditching and wetland							
K103 MP15 Scott	drainage.	Land use	General Issue			Vetlands		
K104 MP15 Scott	Surface water quality is impaired.	Surface Water Quality	General Issue		In	mpaired.TMDL		
	D.1.1.							
	Public awareness of water resource issues is limited, and a large number of							
	citizens do not believe that they have the							
	ability to implement conservation or that							
K105 MD15 C			Conservations		0			
K105 MP15 Scott	conservation will make a difference. Urban development has altered the	Public Investment	General Issue		Pi	ublic engagement.	education	
	landscape and additional development is							
K106 MP15 Scott	landscape and additional development is expected.	Land Use	General Issue			evelopment		
KIGO WIFID SCOLL	Localized flooding issues are a concern in		General ISSUE		Di	evelopment		
	Jordan, and lakes throughout the SWMO							
	are experiencing high water levels and/o							
K107 MP15 Scott	outlet issues.	Flooding	General Issue		ci,	lood		
1207 WIT15 SCOLL	Upstream portions of the Sand Creek		General 1350E		FI			
	Watershed and eastern areas of the							
	Credit River Watershed are not in the							
K108 MP15 Scott	jurisdictional boundary of the SWMO.	Cross Jurisdiction	General Issue	x				
	,			Sand Creek at Jordan—achieve 40% of the load reduction necessary to achieve				
				the TSS equivalency concentration for meeting the turbidity standard based on				
	Impaired Waters with detailed study or			the 2010 study. Estimated mass of this reduction is 300 Tons/day under high				
K109 MP15 Scott	TMDL Complete	Surface Water Quality	Specific goal	flows. By 2025	In	npaired.TMDL		
	· · ·			·				
				Seek opportunities to share physical and financial resources with other				
				governmental units and special districts (cities, townships, law enforcement,				
				Three Rivers, school districts, adjacent counties, Metropolitan Council, State,				
	Find opportunities to share resources			and Federal) to provide and maintain an integrated parks and trails system with				
K11 CP1 Scott	and provide integrated parks and trails	Parks and trails	General goal	linkages between neighboring communities and publicly owned parkland.	Co	ooperation		
	· · ·			Create an improving trend for the parameters (total suspended solids, total				
	Impaired Waters without detailed study			phosphorus, water clarity, chlorophyll-a, bacteria) considered impaired. By				
K110 MP15 Scott	of TMDL (see 2018 Impaired Waters List)	Surface Water Quality	Specific goal	2025	In	mpaired.TMDL		
				Thole Lake is experiencing high water levels, and the outlet flow path is largely				
				a collection of private infrastructure which is also stressed. This study would				
	Thole Lake Outlet Stormwater			assess the problems identifying potential solutions and opportunities for				
K111 MP15 Scott	Assessment	Flooding	Specific Action	regional stormwater management.	r St	tormwater	Flood	CIPs.Projects
				The Campbell Lake area is the headwaters of Picha Creek, and is slated to be				
				annexed by the City of Prior Lake. This study would assess potential issues with				
	Campbell Lake (upper Picha Creek)			development, and identify potential opportunities for regional stormwater				
K112 MP15 Scott	Regional Stormwater Assessment	Flooding and Water Quality	Specific Action		/ St	tormwater	Flood	CIPs.Projects
				Eutrophication modeling was completed for Cedar Lake as part of the TMDL				
	Cedar Lake Water Quality Modeling			completed in 2010. However, since then conditions have significantly changed				
K113 MP15 Scott	Update	Water Quality	Specific Action	and the modeling needs to be updated.	(CI	IPs.Projects	mpaired.TMDL	
				These assessments will focus on various county ditches to develop long-term				
				multi-purpose management visions. The focus will be on those where the				
				agriculture drainage benefits have significantly declined such as CD4, which				
K114 MP15 Scott	Ditch Multiple Purpose Assessments	Public Ditch	Specific Action	covers portions of the Credit River.	r CI	IPs.Projects	Agriculture	
				City of Jordan has a large number of homes and businesses in the floodplain of				
	Sand Creek Flood Protection Feasibility			Sand Creek. This study will assess the feasibility of various mitigation options,				
K115 MP15 Scott	Analysis	Flooding	Specific Action	particularly levees and a bypass.* Y	r Fl	lood	CIPs.Projects	
				A draft TMDL has been completed for Thole Lake. This Subwatershed				
				Assessment will identify potential watershed based practices, and septic				
K116 MP15 Scott	Thole Lake Subwatershed Assessment	Curfe en Weter Quelity	Constitution And	system program opportunities to reduce phosphorus loading to the lake in		ID- Decision	mpaired.TMDL	
NITO MILIP PCOL	I NOIE LAKE SUDWATERSNED Assessment	Surface Water Quality	Specific Action	accordance with the TMDL when it is complete.	r Cl	IPs.Projects	mpaired. I MDL	
	McMahon Lake Outlet Feasibility			McMahon Lake is experiencing high water levels, which stay high since the lake does not have an outlet. This floods the public boat launch and is leading to				
	Assessment	Flooding and Surface Water Qual	it Specific Action	does not have an outlet. This floods the public boat launch and is leading to shoreline erosion. This study will examine the feasibility of an outlet.	/ "	lood	Sediment.Erosion	CIRs Projects
K117 MD1E Coott		rioouing and surrace water Qual	n specific Action	shoreline erosion. This study will examine the reasibility of an outlet. Yes the SWMO has completed 2 surveys of landowners, and has another underway	r Fl	1000	seument.crosion	CIFS.FIDJECIS
K117 MP15 Scott	Assessment							
K117 MP15 Scott	Assessment							
K117 MP15 Scott				regarding attitudes toward water resources and adoption of conservation. An				
	Social Attitudes Survey Regarding Water	Collective Action	Epocific A-+1-	additional one will be completed in 2024 to document any changes, and inform		ublic ongrasses :	aducation	
K117 MP15 Scott K118 MP15 Scott		Collective Action	Specific Action	additional one will be completed in 2024 to document any changes, and inform the next plan update.	Pi	ublic engagement.	education	
	Social Attitudes Survey Regarding Water	Collective Action	Specific Action	additional one will be completed in 2024 to document any changes, and inform the next plan update. Roberts Creek will be listed as impaired due to bacteria, TSS, and invertebrate	Pu	ublic engagement.	education	
	Social Attitudes Survey Regarding Water	Collective Action	Specific Action	additional one will be completed in 2024 to document any changes, and inform the next plan update. Roberts Creek will be listed as impaired due to bacteria, TSS, and invertebrate and fish bioassessments. A TMDL has not been completed, but has been	Pu	ublic engagement.	education	
	Social Attitudes Survey Regarding Water and Conservation	Collective Action	Specific Action	additional one will be completed in 2024 to document any changes, and inform the next plan update. Roberts Creek will be listed as impaired due to bacteria, TSS, and invertebrate and fish bioassessments. A TMDL has not been completed, but has been started. This Subvatershed Assessment will identify potential watershed based	Pu	ublic engagement.	education	
K118 MP15 Scott	Social Attitudes Survey Regarding Water and Conservation Roberts Creek Subwatershed			additional one will be completed in 2024 to document any changes, and inform the next plan update. Roberts Creek will be listed as impaired due to bacteria, TSS, and invertebrate and fish bioassessments. A TMDL has not been completed, but has been started. This Subwatershed Assessment will identify potential watershed based practices, and septic system program opportunities. It will be scheduled to				
	Social Attitudes Survey Regarding Water and Conservation Roberts Creek Subwatershed Assessment	Collective Action		additional one will be completed in 2024 to document any changes, and inform the next plan update. Roberts Creek will be listed as impaired due to bacteria, TSS, and invertebrate and fish bioassessments. A TMDL has not been completed, but has been started. This Subwatershed Assessment will identify potential watershed based practices, and septic system program opportunities. It will be scheduled to complement TMDL completion and synoptic monitoring.			education CIPs.Projects	Impaired.TMDL
K118 MP15 Scott	Social Attitudes Survey Regarding Water and Conservation Roberts Creek Subwatershed			additional one will be completed in 2024 to document any changes, and inform the next plan update. Roberts Creek will be listed as impaired due to bacteria, TSS, and invertebrate and fish bioassessments. A TMDL has not been completed, but has been started. This Subwatershed Assessment will identify potential watershed based practices, and septic system program opportunities. It will be scheduled to	r M			Impaired.TMDL

				This effort consists of feasibility assessments for the incorporation of water				
				quality components in regional stormwater management facilities being				
				contemplated by the City of Shakopee (city projects 19-03 and 22- 002). The				
				City of Shakopee will lead and manage this assessment. The SWMO's role is				
	City of Shakopee Regional Stormwater			advisory, and to pass through state Watershed Based Funding for the				
120 MP15 Scott	Feasibility Studies	Surface Water Quality Specifi	fic Action	assessment.	Y	Stormwater	CIPs.Projects	
				This effort consists of completing a feasibility study regarding runoff volume				
				control (including the reuse of stormwater) in the Twin Lakes area of the City of				
				Savage. This City of Savage will lead and manage this study. The SWMO's role is				
121 MP15 Scott	Twin Lakes Stormwater Volume Study	Surface Water Quality and Groups Specifi	fic Action	advisory, and to pass through state Watershed Based Funding for the study.	Y	Stormwater	Groundwater	CIPs.Projects
121 101115 50000	Twin Eakes Storniwater Volume Study	Surface water Quality and Ground Specifi	IIC ACTION	A Diagnostic Study, and Implementation Plan were completed in 2010 focusing		Stornwater	Groundwater	cir s.r tojects
				on reducing sediment and phosphorus pollution for Sand Creek and Cedar and				
				McMahon Lakes, Much of the plan has been implemented, and new data has				
				been collected by the MPCA (in support of developing WRAPS and TMDLs), Met				
				Council, and the SWMO. The update will revise current strategies and flesh out				
	Updating the Sand Creek Water Quality			additional strategies identified in pending WRAPs and TMDLs. It will then be				
122 MP15 Scott	Assessment and Implementation Plan	Surface Water Quality Specifi	fic Action	used to guide targeted implementation	v	Sediment.Erosion	CIPs Projects	Impaired.TMDL
122 101115 50000	/ bbcbmene and implementation man	Surface water Quality Specifi	IIC ACTION	This effort consists of reviewing the City of Prior Lake Drinking Water Supply		Jeument.crosion	cirs.riojects	impaired. INDE
				Management Area to develop a methodology for identifying probable locations				
				of abandoned/unsealed wells. Methodology developed could then be used				
				with other DWSMA's in the SWMO. Results will also be used to target contacts				
	City of Prior Lake DWSMA Abandoned			for the well sealing cost share practice implementation through the TACS				
123 MP15 Scott	Well Assessment	Groundwater Quality Specifi	fic Action		Y	Groundwater	CIPs.Projects	
		specifi		There are a number of ravines that the SWMO knows are eroding, but they are				
				not acute sources of sediment, not threatening infrastructure, or there are				
				other issues/questions that need to be resolved before deciding whether to				
				take on a project. For example, the SWMO knows that there are additional near				
				channel sediment sources along Sand Creek, Porter Creek, and Picha Creek in				
				addition to those that have already been stabilized, but staff is recommending				
				that the SWMO wait to see how sediment pollution is responding before				
				deciding to take on more capital improvement projects with respect to near				
124 MP15 Scott	Ravine instability	Erosion Potent	tial project	channel sources.	Y	Sediment.Erosion	Steep slopes	
				The SWMO may utilize DNA sampling to determine specific sources of the				
				bacteria and work with landowners on solutions. If the source is found to be				
				human, the SWMO will develop a targeted mailing promoting Scott County's				
				septic loan program to owners of older septic systems or systems that are				
				pumped frequently or not at all. If the source is found to be livestock, the				
				SWMO will work with landowners on land application of manure including				
				application amount, location and timing. The SWMO will also promote and				
				target other practices that help control bacteria through the Cost Share and				
125 MP15 Scott	Impaired Waters List - bacteria	Pollutants Specifi	fic action	Incentive Strategy	Y	CIPs.Projects	Impaired.TMDL	
				The SWMO will create awareness about the environmental impacts of chloride				
				through education, outreach, training, and other activities to local residents,				
126 MP15 Scott	Impaired Waters List - Chloride	Pollutants Specifi	fic action	public works departments, applicators, elected officials, and businesses.		Impaired.TMDL		
				The SWMO will collect more detailed data by monitoring local surface waters				
				for chloride concentrations to try to locate the "hotspots", track progress, track				
				trends, and understand where the sources may be coming from with respect to				
127 MP15 Scott	Impaired Waters List - Chloride	Pollutants Specifi	fic action	impaired surface waters (see Monitoring Strategy).	Ŷ	Monitoring	Impaired.TMDL	
				The SWMO will also require Local Governmental Units (LGUs) to detail how				
				they plan to manage road de-icing efforts to meet the Chloride TMDL in their				
128 MP15 Scott	Impaired Waters List - Chloride	Pollutants Specifi	fic action	Local Water Plans (LWP).	Y	CIPs.Projects	Impaired.TMDL	
				The SWMO will consider cost share for singular de-icing practices in the short				
				term if they meet the definition of innovative. For the long term the SWMO will				
				consider adding specific de-icing practices to the list of eligible practices as				
				they become commonly accepted. Consideration both short-term and long-				
				term for cost share needs to be consistent with the Technical Assistance and				
129 MP15 Scott	Impaired Waters List - Chloride	Pollutants Specifi	ric action	Cost Share (TACS) Program "Guiding Principles" presented in Section 5.	Ŷ	CIPs.Projects	Impaired.TMDL	
				Partner with professional and technical natural resource experts from local and				
				regional governmental units, such as the Minnesota Department of Natural				
	Destance with an end of the second se			Resources, the Scott Soil and Water Conservation District the Scott Watershed				
	Partner with governemental professional			Management Organization and together organizations to achieve mutual				
12 (01 (and technical natural resource experts to			resource preservation and restoration goals through grant partnerships, resource sharing and innovative collaborations.		Constantion		
13 CP1 Scott	achieve mutual goals	Parks and trails Generation	ral goal			Cooperation		
				The SWMO will also consider joint Capital Improvement Projects with LGUs				
				designed to switch over larger portions of an overall public works operation to accepted chloride reducing de-icing practices if the LGU has included a plan in				
				their LWP as described above, and as described under the Salt and Sanding				
				Practices Local Water Plans Strategy. To be considered the LGU must consult				
				with the SWMO, and submit their project for consideration. The SWMO will				
				base its decision and level of support using the criteria and priorities described				
130 MP15 Scott	Impaired Waters List - Chloride	Pollutants Specifi	fic action	under the Capital Improvements Strategy.	Y	CIPs.Projects	Impaired.TMDL	
				The SWMO will also monitor groundwater for chloride (see Monitoring				
131 MP15 Scott	Impaired Waters List - Chloride	Pollutants Specifi	fic action	Strategy).	Ŷ	Monitoring	Groundwater	Impaired.TMDL
				If groundwater monitoring finds that chloride is increasing and has the				
				potential to approach the Secondary Drinking Water Standard, the SMWO will				
				consider adding a water softener replacement incentive (to replace older water				
	International Mathematics Cold State			softeners with newer more efficient systems) as a practice eligible for cost				
132 MP15 Scott	Impaired Waters List - Chloride	Pollutants Specifi	ric action	share and incentives.	Ŷ	Monitoring	Groundwater	CIPs.Projects Impaired.TMDL

				With respect to chloride impairments in Sand Creek and Raven Stream, the	
				SWMO will also consider assisting public wastewater entities with chloride reduction (i.e., individual water softener rebate program) efforts if it is found	
				to be the most cost effective means of achieving necessary reductions.	
				to be the most cost effective means of achieving necessary reductions. Otherwise, the SWMO considers achieving reductions in wastewater a	
K133 MP15 Scott	Impaired Waters List - Chloride	Pollutants S	Specific action	responsibility of the NPDES permit holder. Y	CIPs.Projects Impaired.TMDL
	inpared Waters List Chloride			If water softening associated with rural individual well and septic system	en strojecto implifica (mol
				discharges are shown to be significant sources the SWMO will: a) first work	
				with the County to ensure septic systems are not failing and are not direct	
				discharges; and b) the SWMO will consider adding a water softener	
K134 MP15 Scott	Impaired Waters List - Chloride	Pollutants S	Specific action	rebate/incentive to the list of practices eligible for cost share and incentives. Y	CIPs.Projects Impaired.TMDL
				The SWMO will actively target nutrient management with respect to	
				phosphorus and in lakes where TMDLs have been completed. Active targeting	
				of watershed practice installation will be done through the Cost	
				Share and Incentive Strategy and the Capital Improvement Strategy following	
				the process laid	
				out in the Targeting Strategy. Active targeting for in-lake nutrient management will be implemented	
				following the Targeting Strategy, the Aquatic Invasive Species Strategy, and the	
				Capital	
K135 MP15 Scott	High nutrients	Pollutants S	nosific Action	Capital Improvement Strategy Y	Invasives CIPs.Projects Impaired.TMDL
KISS WITS SCOL	ngrindenens	roliutants	pecific Action	The SVMOW will passively promote practices that control or reduce phosphorus	invasives cirs.riojects impared.rivide
				or nitrates as a means of preventing increasing concentrations or new	
				impairments in the rest of the SWMO. Passive promotion will be through	
				general promotion of the Cost Share and	
K136 MP15 Scott	High nutrients	Pollutants S	pecific Action	Incentive Strategy. Y	CIPs.Projects Impaired.TMDL
				The SWMO will actively target nitrates in groundwater where information	· · ·
				suggests there is a risk. SWMO will complete monitoring as described in the	
				Monitoring Strategy. The SWMO will also target sensitive areas or areas where	
				nitrates are a	
				potential future issue. This targeting will promote practices that control the	
				leakage of nitrates	
				that are eligible for cost share and incentives. See Targeting Strategy for	
K137 MP15 Scott	High nutrients	Pollutants Ground Water S	Specific Action	additional detail. Y	Unique.Sensitive.h Monitoring Groundwater CIPs.Projects
				With this Plan update the SWMO is interested in demonstrations with	
				conservation drainage, cover crops, perennial crops,	
				projects that reduce the need of tile drainage, and projects that test or demonstrate more cost	
				effective ways of achieving desired outcomes. Proposed projects are screened	
				by the SWMO	
				and applications are processed through the Scott SWCD. It is anticipated that	
	Need for innovation to reduce tile			and applications are processed through the Scott SWCD. It is anticipated that this effort will	
				and applications are processed through the Scott SWCD. It is anticipated that this effort will decrease over time as suitable demonstrations are completed. Eligible	
K138 MP15 Scott	Need for innovation to reduce tile drainage and cost effectively achieve desired outcomes	Innovation and drainage S	Specific Project	and applications are processed through the Scott SWCD. It is anticipated that this effort will	CIPs.Projects Agriculture
K138 MP15 Scott	drainage and cost effectively achieve desired outcomes Watershed Management is a complex	Innovation and drainage S	Specific Project	and applications are processed through the Scott SWCD. It is anticipated that this effort will decrease over time as suitable demonstrations are completed. Eligible practices, and cost share	CIPs.Projects Agriculture
K138 MP15 Scott	drainage and cost effectively achieve desired outcomes Watershed Management is a complex endeavor. Authorities and	Innovation and drainage S	Specific Project	and applications are processed through the Scott SWCD. It is anticipated that this effort will decrease over time as suitable demonstrations are completed. Eligible practices, and cost share	CIPs.Projects Agriculture
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				Continuing to include financial assistance in the form of cost share and		
				incentives for voluntary practices that improve buffering such as filter strips,		
K149 MP15 Scott	Increase buffering			natural shoreline protection, and herbaceous or forested buffer establishment		Natural Resource Protection
K15 CP1 Scott	Surface Water Quality.	Surface Water Quality	General goal	To protect and improve surface water quality. Providing additional incentives or requiring the use of native plants with cost		Natural Resource Protection
K150 MP15 Scott	Increase buffering	Buffers	Specific Action	share and incentive practices.		Vegetation
	· · · · · · · · · · · · · · · · · · ·			Acknowledging and using the Other Waters Map/ Inventory (Map 7) created by		
				the Scott SWCD per Minnesota Statutes 103F.48, Subd. 4 to target voluntary		
				implementation of conservation practices, particularly those that improve		
				buffering. Other Waters Map 7 shows additional tributaries not under the		
				MDNR public waters jurisdiction identified by the Scott SWCD in 2017 using criteria developed jointly with watershed organizations in the county (Appendix		
K151 MP15 Scott	Increase buffering	Buffers	Specific Action		Y	Corridors CIPs.Projects
NIST WHIS SCOL	increase buriering	builets	opeenerieton	The SWMO will continue to promote the Scott SWCD tree program to Scott		
				County landowners and will add an option for woody vegetation to the 2018		
K152 MP15 Scott	Increase buffering	Buffers	Specific Action	PPM under the conservation cover practice.	Y	CIPs.Projects Vegetation
				Continuing to work in collaboration with Scott County Planning & Zoning, Parks,		
K153 MP15 Scott	Collaborating to implement Natural	Habitat	General	Public Works and willing landowners and developers to continue implementing	Y	Corridors Cooperation
K153 MP15 Scott	Areas Corridors legacy	Habitat	General	the purpose of the Natural Area Corridors legacy	Ť	corndors cooperation
				Incorporating habitat features in capital improvement projects when practical		
				(i.e., using natural channel restoration techniques and bioengineering as the		
K154 MP15 Scott	Capital improvement Projects	Habitat	Specific	preferred approach for addressing streambank, ravine and bluff erosion).	Y	Sediment.Erosion Steep slopes
				Promoting practices that provide multiple benefits (i.e., native grass planting		
K155 MP15 Scott	Multi purpose practices	Habitat	Specific	that improve habitat, moderate runoff, and improve soil health).		Vegetation
				The SWMO will continue to promote the Scott SWCD tree program to Scott County landowners and will require a minimum of ten (10) native species for		
K156 MP15 Scott	Species diversity	Diversity	Specific	projects unless the funding source requirements require more than ten.		Vegetation
	.,,	,		The SWMO and SWCD PPM includes practices that provide living cover such as		
				native grass plantings, contour buffer strips, filter strips, grassed waterways,		
K157 MP15 Scott	Living cover	Living cover	Specific	natural area shoreline, riparian buffers and cover crop		Vegetation
				the SWMO purchased a cover crop planter for landowners to rent to plant		
K158 MP15 Scott	Erosion and Runoff	Cover crops	Specific	cover crops so there will always be something growing and covering the soil in their fields		Sediment.Erosion
K158 MP15 Scott	Erosion and Runon	Cover crops	specific	SWMO and SWCD continuing to include cover crops in the PPM as an incentive		sediment.erosion
K159 MP15 Scott	Erosion and Runoff	Cover crops	Specific	practice for farmers		Sediment.Erosion
K16 CP1 Scott	Groundwater Management			To protect groundwater quality and supply		Groundwater
				WMO will also partner with SWCDs to support cover crops and perennial		
				vegetation demonstrations that include monitoring of soil physical conditions		
				in response to the demonstrations over time. The intent is that these		
K160 MP15 Scott	Frosion and Runoff	Cover crops	Specific	demonstration plots can also serve as sites for others to view the practices and for field training	v	Monitoring Sediment.Erosion
K160 MP15 Scott	Erosion and Runon	Cover crops	specific	In lakes where studies have demonstrated rough fish are a water quality	Ť	Monitoring Sediment.Erosion
				problem, and where rough fish control is part of an overall comprehensive		
				approach to improving lake quality, the SWMO will consider coordinating		
				efforts, and sharing the cost. Cost share will be considered up to 50% with a		
K161 MP15 Scott	Rough fish	Water Quality, AQUATIC INVASIVE	Specific	\$5,000 per year maximum		Invasives
				Land owners receiving cost share and/or incentives from the SWMO for the installation of oractices will be required to enter into a contract with the		
				SWMO or the Scott SWCD. This contract will require that they retain and		
				maintain the practices for a specific term (10 to 15 years depending on the		
				practice). Inspections will then be completed to assess whether maintenance is		
				practice). Inspections will then be completed to assess whether maintenance is occurring. Guidance will also be provided to all participants, and technical		
				occurring. Guidance will also be provided to all participants, and technical assistance will be available. In addition, periodic classes will be held as part of		
	Ensure that benefits resulting from water	r		occurring. Guidance will also be provided to all participants, and technical assistance will be available. In addition, periodic classes will be held as part of the Scott SWMO's Education and Outreach Program, such as prairie or		
K162 MD15 Scott	resource improvements enabled under		Specific	occurring. Guidance will also be provided to all participants, and technical assistance will be available. In addition, periodic classes will be held as part of the Scott SWMO's Education and Outreach Program, such as prairie or shoreline maintenance, to provide landowners the knowledge and tools to		Bublic answamant education
K162 MP15 Scott	resource improvements enabled under this Plan last into the future	Public Investment	Specific	occurring. Guidance will also be provided to all participants, and technical assistance will be available. In addition, periodic classes will be held as part of the Scott SWMO's Education and Outreach Program, such as prairie or		Public engagement.education
K162 MP15 Scott	resource improvements enabled under	Public Investment	Specific	occurring. Guidance will also be provided to all participants, and technical assistance will be available. In addition, periodic classes will be held as part of the Scott SWMO's Education and Outreach Program, such as prairie or shoreline maintenance, to provide landowners the knowledge and tools to		Public engagement.education
K162 MP15 Scott K163 MP15 Scott	resource improvements enabled under this Plan last into the future Ensure that benefits resulting from water resource improvements enabled under this Plan last into the future	Public Investment r Public Investment	Specific Specific	occurring. Guidance will also be provided to all participants, and technical assistance will be available. In addition, periodic classes will be held as part of the Scott SUMO'S faburation and Outreach Program, such as prairie or shoreline maintenance, to provide landowners the knowledge and tools to maintain their practices	x	Public engagement.education
	resource improvements enabled under this Plan last into the future Ensure that benefits resulting from water resource improvements enabled under this Plan last into the future Ensure that benefits resulting from water	Public Investment r Public Investment		occurring. Guidance will also be provided to all participants, and technical assistance will be available. In addition, periodic classes will be held as part of the Scott SUMCVS faducation and Outreach Program, such as paraire or shoreline maintenance, to provide landowners the knowledge and tools to maintain their practices Setting up a GIS "asset management system" for tracking and recording	x	Public engagement.education
K163 MP15 Scott	resource improvements enabled under this Plan last into the future Ensure that benefits resulting from water resource improvements enabled under this Plan last into the future Ensure that benefits resulting from water resource improvements enabled under	Public Investment r Public Investment r	Specific	occurring. Guidance will also be provided to all participants, and technical assistance will be available. In addition, periodic classes will be held as part of the Scott SWMO's Education and Outreach Program, such as prairie or shoreline maintenance, to provide landowners the knowledge and tools to maintain their practices Setting up a GIS "asset management system" for tracking and recording inspections and maintenance,	x	Public engagement.education
	resource improvements enabled under this Plan last into the future Ensure that benefits resulting from water resource improvements enabled under this Plan last into the future Ensure that benefits resulting from water	Public Investment r Public Investment r		occurring. Guidance will also be provided to all participants, and technical assistance will be available. In addition, periodic classes will be held as part of the Scott SWMO's Education and Outreach Program, such as prairie or shoreline maintenance, to provide landowners the knowledge and tools to maintain their practices Setting up a GIS "asset management system" for tracking and recording inspections and maintenance, Budgeting for, and Completing maintenance when needed	x	Public engagement.education
K163 MP15 Scott	resource improvements enabled under this Plan last into the future Ensure that benefits resulting from water resource improvements enabled under this Plan last into the future Ensure that benefits resulting from water resource improvements enabled under	Public Investment r Public Investment r	Specific	occurring. Guidance will also be provided to all participants, and technical assistance will be available. In addition, periodic classes will be held as part of the Scott SWMO's Education and Outreach Program, such as prairie or shoreline maintenance, to provide landowners the knowledge and tools to maintain their practices Setting up a GIS "asset management system" for tracking and recording inspections and maintenance, Budgeting for, and Completing maintenance when needed The SVMO will continue to use quantitative monitoring (pointintercept	x x	Public engagement.education
K163 MP15 Scott	resource improvements enabled under this Plan last into the future Ensure that benefits resulting from water resource improvements enabled under this Plan last into the future Ensure that benefits resulting from water resource improvements enabled under	Public Investment r Public Investment r	Specific	occurring. Guidance will also be provided to all participants, and technical assistance will be available. In addition, periodic classes will be held as part of the Scott SWMO's Education and Outreach Program, such as prairie or shoreline maintenance, to provide landowners the knowledge and tools to maintain their practices Setting up a GIS "asset management system" for tracking and recording inspections and maintenance, Budgeting for, and Completing maintenance when needed	x x	Public engagement.education
K163 MP15 Scott	resource improvements enabled under this Plan last into the future Ensure that benefits resulting from water resource improvements enabled under this Plan last into the future Ensure that benefits resulting from water resource improvements enabled under	Public Investment r Public Investment r	Specific	occurring. Guidance will also be provided to all participants, and technical assistance will be available. In addition, periodic classes will be held as part of the Scott SWMO's Education and Outreach Program, such as prairie or shoreline maintenance, to provide landowners the knowledge and tools to maintain their practices Setting up a GIS "asset management system" for tracking and recording inspections and maintenance, Budgeting for, and Completing maintenance when needed The SWMO will continue to use quantitative monitoring (pointintercept method) and Global Positioning System (GPS) mapping to assess lake aquatic plant communities on lakes we are managing for curly-leaf pondweed. The SWMO will	x x	Public engagement.education
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K163 MP15 Scott	resource improvements enabled under this Plan last into the future Ensure that benefits resulting from water resource improvements enabled under this Plan last into the future Ensure that benefits resulting from water resource improvements enabled under this Plan last into the future	Public Investment r Public Investment r Public Investment	Specific Specific	occurring. Guidance will also be provided to all participants, and technical assistance will be available. In addition, periodic classes will be held as part of the Scott SWMO's Education and Outreach Program, such as prairie or shoreline maintenance, to provide landowners the knowledge and tools to maintain their practices Setting up a GIS "asset management system" for tracking and recording inspections and maintenance, Budgeting for, and Completing maintenance when needed The SWMO will continue to use quantitative monitoring (pointintercept method) and Global Positioning System (GPS) mapping to assess lake aquatic plant communities on lakes we are managing for curly-leaf pondweed. The SWMO will continue to perform aquatic plant management activities (herbicide treatments or phosphorus inactivation) where aquatic plants have a demonstrated negative effect on water quality. Currently the SWMO is partnering on treatments for Cedar, O'Dowd, Thole, and McMahon Lakes. It is anticipated that an additional partnership will be started for Cleary Lake in 2019, and that efforts for Cedar Lake will be declining to a	х х ү	
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			TACS Will Target Well decommissioning in Drinking Water Supply Management					
			Areas and high					
High susceptibility areas	Groundwater S	specific	the SWMO				Groundwater	
			TACS will target Other areas identified in pending TMDLs and the Lower					
TMDLs and WRAPS	Water Quality S	Specific	Minnesota River Basin WRAPS				Impaired.TMDL	
			Wetland Bank Potential wetland bank by BWSR, Scott County Transportation					
			and Scott SWCD with potential to incorporate flood storage using additional					
Helena Twp Section 2	Wetland Management 0	JIP			2019 \$120,000	Y	Flood CIPs.Projects	
Flood Management	Flood Management 0	General goal	damaged by flood events.				Flood	
			Identified in subwatershed analysis of Cedar Lake watershed; carried over from					
Detention Basin	Wetland Management 0	CIP		Unknown	\$100,000	Y	CIPs.Projects Wetlands	
			Cedar Lake: \$1,100,000 for two treatments* McMahon Lake: \$175,200 for two					
			treatments Timing for the treatments of Cedar Lake is based on adaptive					
Treatments	Pollution, IMDL C	.IP		Depends	\$175,200	Ŷ	CIPS.Projects Impaired.IMDL	
Sawmill Lane Near Channel Sediment			Expect to complete in 2018, but included in case of delay. \$425,000**					
Control	Drainage, Sediment 0	CIP	Feasibility and Design 2017/2018 Construction 2018		2018 \$425,000	Y	Sediment.Erosion CIPs.Projects	
			funding available from USEPA Section 319 grant, and potentially from the Sand					
Helena-Broadway Near Channel			Creek targeting grant Feasibility 2018 Design 2018/2019 Construction 2019,					
Sediment Control	Drainage, Sediment 0	CIP		2018 to 2021	\$600,000	Y	Sediment.Erosion CIPs.Projects	
			than typically handled by the TACS program. It is a priority project for the					
NW McMahon Lake Stabilization and			SMWO because of it benefit to McMahon Lake. \$80,000 Landowner contacted					
Wetland	Erosion C	CIP		Unknown	\$80,000	Y	Sediment.Erosion Steep slopes CIPs.P	rojects
			CIP in the previous Plan, but has been delayed because of changing priorities					
			from the 2014 disaster, and waiting for decisions about the future of roads in					
					\$750,000 to			
Salisbury Hill (CR51) Ravines*	Erosion	CIP		Unknown		Y	Sediment.Erosion Steep slopes CIPs.P	roiects
			Scott County Parks has land in Blakeley Park that has some erosion and small		1			
Blakeley Park Stabilization	Erosion 0	CIP		2019 t0 2020	\$130,000	Y	Sediment.Erosion CIPs.Projects	
			Next priority stabilization project identified as part of the Sand Creek Near				· · ·	
Lower Picha Creek Ravine Project	Frosion	TIP		2020 or later	\$450.000	×	Sediment Frasion Steen slones CIPs P	rojects
Lower Hala creek havine Hojeu			Near Channel Sediment Control Stabilizations Project consists of stabilizing	2020 01 10101	\$450,000			rojecto
			several actively eroding stream bank sites along Sand Creek in this reach. These					
			number of sites and the design Design: Spring 2019 Construction: Fall/Winter		200,000 to			
Helena Twp Section 3	Erosion C	CIP	2019	2019	300,000	Y	Sediment.Erosion CIPs.Projects	
Preserve natural resources	Land use 0	Seneral goal					Unique.Sensitive.high value	
Collective Action			To engage the public in ways that inspires them to be willing partners				Unique.Sensitive.high value Public engagement.education	
Collective Action	Collective Action 0	General goal	To engage the public in ways that inspires them to be willing partners With an extensive future growth area and land use types, development should				Public engagement.education	
	Collective Action 0		To engage the public in ways that inspires them to be willing partners With an extensive future growth area and land use types, development should include buffering and staging of incompatible uses.					
Collective Action	Collective Action 0	General goal	To engage the public in ways that inspires them to be willing partners With an extensive future growth area and land use types, development should				Public engagement.education	
Collective Action Buffering in land development projects	Collective Action C	General goal General goal	To engage the public in ways that inspires them to be willing partners With an extensive future growth area and land use types, development should include buffering and staging of incompatible uses. The City of Carver will promote, preserve and enhance natural resources within the City and protect them from adverse effects by regulating land disturbances or development activities that would have an adverse and potentially				Public engagement.education	
Collective Action	Collective Action C	General goal General goal	To engage the public in ways that inspires them to be willing partners With an extensive future growth area and land use types, development should include buffering and staging of incompatible uses. The City of Carver will promote, preserve and enhance natural resources within the City and protect them from adverse effects by regulating land disturbances or development activities that would have an adverse and potentially irreversible impact on environmentally sensitive land.				Public engagement.education	
Collective Action Buffering in land development projects	Collective Action C	General goal General goal	To engage the public in ways that inspires them to be willing partners With an extensive future growth area and land use types, development should include buffering and staging of incompatible uses. The City of Carver will promote, preserve and enhance natural resources within the City and protect them from adverse effects by regulating land disturbances or development activities that would have an adverse and potentially irreversible impact on environmentally sensitive land. The City will encourage development techniques that are sensitive to the				Public engagement.education Development	
Collective Action Buffering in land development projects Natural resource protection	Collective Action Collective A	General goal General goal	To engage the public in ways that inspires them to be willing partners With an extensive future growth area and land use types, development should include buffering and staging of incompatible uses. The City of Carver will promote, preserve and enhance natural resources within the City and protect them from adverse effects by regulating land disturbances or development activities that would have an adverse and potentially irreversible impact on environmentally sensitive land. The City will encourage development techniques that are sensitive to the natural landscape and work to preserve mature trees, native plants and animals			Y	Public engagement.education Development Unique.Sensitive.high value	
Collective Action Buffering in land development projects Natural resource protection Sensitive Development of land	Collective Action Collective A	General goal General goal General action	To engage the public in ways that inspires them to be willing partners With an extensive future growth area and land use types, development should include buffering and staging of incompatible uses. The City of Carver will promote, preserve and enhance natural resources within the City and protect them from adverse effects by regulating land disturbances or development activities that would have an adverse and potentially irreversible impact on environmentally sensitive land. The City will encourage development techniques that are sensitive to the natural landscape and work to preserve mature trees, native plants and animals while respecting topography and natural wetlands . Provide a balance of both active and passive recreational opportunities in a			Y	Public engagement.education Development	
Collective Action Buffering in land development projects Natural resource protection Sensitive Development of land High-quality multijuridsdictional park	Collective Action Collective A	Seneral goal Seneral goal Seneral action Seneral action	To engage the public in ways that inspires them to be willing partners With an extensive future growth area and land use types, development should include buffering and staging of incompatible uses. The City of Carver will promote, preserve and enhance natural resources within the City and protect them from adverse effects by regulating land disturbances or development activities that would have an adverse and potentially irreversible impact on environmentally sensitive land. The City will encourage development techniques that are sensitive to the natural landscape and work to preserve mature trees, native plants and animals while respecting topography and natural wetlands . Provide a balance of both active and passive recreational opportunities in a high-quality, multijurisdictional and private park system that responds to needs			Y	Public engagement.education Development Unique.Sensitive.high value Unique.Sensitive.h Development	
Collective Action Buffering in land development projects Natural resource protection Sensitive Development of land	Collective Action Collective A	General goal General goal General action	To engage the public in ways that inspires them to be willing partners With an extensive future growth area and land use types, development should include buffering and staging of incompatible uses. The City of Carver will promote, preserve and enhance natural resources within the City and protect them from adverse effects by regulating land disturbances or development activities that would have an adverse and potentially irreversible impact on environmentally sensitive land. The City will encourage development techniques that are sensitive to the natural landscape and work to preserve mature trees, native plants and animals while respecting topography and natural wetlands . Provide a balance of both active and passive recreational opportunities in a high-quality, multijurisdictional and private park system that responds to needs of both the community and vistors.			Y	Public engagement.education Development Unique.Sensitive.high value	
Collective Action Buffering in land development projects Natural resource protection Sensitive Development of land High-quality multijuridsdictional park	Collective Action Collective A	Seneral goal Seneral goal Seneral action Seneral action	To engage the public in ways that inspires them to be willing partners With an extensive future growth area and land use types, development should include buffering and staging of incompatible uses. The City of Carver will promote, preserve and enhance natural resources within the City and protect them from adverse effects by regulating land disturbances or development activities that would have an adverse and potentially irreversible impact on environmentally sensitive land. The City will encourage development techniques that are sensitive to the natural landscape and work to preserve mature trees, native plants and animals while respecting topography and natural wetlands . Provide a balance of both active and passive recreational opportunities in a high-quality, multijurisdictional and private park system that responds to needs of both the community and visitors.			Y	Public engagement.education Development Unique.Sensitive.high value Unique.Sensitive.h Development	
Collective Action Buffering in land development projects Natural resource protection Sensitive Development of land High-quality multijuridsdictional park system	Collective Action Collective Action Land Use Collective Action Land Use Collective Action Land Use Collective Action Parks and Trails Collective Action	Seneral goal Seneral goal Seneral action Seneral action Seneral goal	To engage the public in ways that inspires them to be willing partners With an extensive future growth area and land use types, development should include buffering and staging of incompatible uses. The City of Carver will promote, preserve and enhance natural resources within the City and protect them from adverse effects by regulating land disturbances or development activities that would have an adverse and potentially irreversible impact on environmentally sensitive land. The City will encourage development techniques that are sensitive to the natural landscape and work to preserve mature trees, native plants and animals while respecting topography and natural wetlands . Provide a balance of both active and passive recreational opportunities in a high-quality, multijurisdictional and private park system that responds to needs of both the community and vistors.			Y	Public engagement.education Development Unique.Sensitive.high value Unique.Sensitive.h Development	
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Collective Action Buffering in land development projects Natural resource protection Sensitive Development of land High-quality multijuridsdictional park system Unique high quality resources	Collective Action Collective Action Land Use Collective Action Land Use Collective Action Land Use Collective Action Parks and Trails Collective Action	Seneral goal Seneral goal Seneral action Seneral action Seneral goal	To engage the public in ways that inspires them to be willing partners With an extensive future growth area and land use types, development should include buffering and staging of incompatible uses. The City of Carver will promote, preserve and enhance natural resources within the City and protect them from adverse effects by regulating land disturbances or development activities that would have an adverse and potentially irreversible impact on environmentally sensitive land. The City will encourage development techniques that are sensitive to the natural landscape and work to preserve mature trees, native plants and animals while respecting topography and natural wetlands . Provide a balance of both active and passive recreational opportunities in a high-quality, multijurisdictional and private park system that responds to needs of both the community and visitors. Acquire area that has been identified as unique, high-quality resources that will allow for development of new parks and trails the community park level or			¥	Public engagement.education Development Unique.Sensitive.high value Unique.Sensitive.h Development Trails	
	Cedar Lake Wetland Restoration/Wet Detention Basin Cedar and McMahon Lakes Alum Treatments Sawmill Lane Near Channel Sediment Control Helena-Broadway Near Channel Sediment Control NW McMahon Lake Stabilization and Wetland Salisbury Hill (CR51) Ravines* Blakeley Park Stabilization Lower Picha Creek Ravine Project Helena Twp Section 3	TMDLs and WRAPS Water Quality S Helena Twp Section 2 Wetland Management O Flood Management Flood Management O Cedar Lake Wetland Restoration/Wet Detention Basin Wetland Management O Cedar Lake Wetland Restoration/Wet Detention Basin Wetland Management O Cedar Lake Wetland Restoration/Wet Detention Basin Wetland Management O Cedar and McMahon Lakes Alum Treatments Pollution, TMDL O Sawmill Lane Near Channel Sediment Control Drainage, Sediment O Sadiment Control Drainage, Sediment O NW McMahon Lake Stabilization and Wetland Erosion O Salisbury Hill (CR51) Ravines* Erosion O Blakeley Park Stabilization Erosion O Lower Picha Creek Ravine Project Erosion O Helena Twp Section 3 Erosion O	TMDLs and WRAPS Water Quality Specific Helena Twp Section 2 Wetland Management CIP Flood Management Flood Management General goal Cedar Lake Wetland Restoration/Wet Detention Basin CIP Cedar Lake Wetland Restoration/Wet Pollution, TMDL CIP Cedar and McMahon Lakes Alum Pollution, TMDL CIP Sawmill Lane Near Channel Sediment Drainage, Sediment CIP Sadiment Control Drainage, Sediment CIP Wetland Erosion CIP Blakeley Park Stabilization Erosion CIP Lower Picha Creek Ravine Project Erosion CIP Helena Twp Section 3 Erosion CIP	High susceptibility areas Groundwater Specific How Sumption on the Scott Courty Geologic Atts that are located in the SUMO High susceptibility areas Groundwater Specific McS. 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Soction MCMahon Lakes Alum Pollution, TMDL CIP Mode and take is based on adapting the transmets of Code maters is the transmets of near channel capial projects identified in current Plan. Transmets Channel Sediment CIP <td>High saceptibility areas Goundwater Specific In susceptibility areas shown on the Sout County Geologic Altis that are located in n High saceptibility areas Goundwater Specific Ministration of the stand in the Sout County Geologic Altis that are located in the stand of the stand in the Sout County Category Altis and the Lower TMDLs and WRAPS Water Quality Specific Ministration of the stand in the Sout County Category Altis and the Lower Helena Twp Section 2 Wetland Management GP modet a manual of the Stand of the stand in the Stand of the stand in the Stand of the stand of the stand of the stand in the stand of the stand in the stand of the stand in the stand of the stand</td> <td>Areas and high association of the Soft Cauring Geoding Alles that are located as 1989 society and the Soft Cauring Geoding Alles that are located as 1980 society and the Soft Cauring Geoding Alles that are located as 1980 society and 1985 sort Cauring Alles and 1986 sort Cauring Alles a</td> <td>Areas ato high inspacesphilory areas where and high inspacesphilory areas where and high spacesphilory areas where and infinite spacesphilory areas where areas areas where areas where areas where areas where areas where are</td> <td>har an har and a second of the second of the</td>	High saceptibility areas Goundwater Specific In susceptibility areas shown on the Sout County Geologic Altis that are located in n High saceptibility areas Goundwater Specific Ministration of the stand in the Sout County Geologic Altis that are located in the stand of the stand in the Sout County Category Altis and the Lower TMDLs and WRAPS Water Quality Specific Ministration of the stand in the Sout County Category Altis and the Lower Helena Twp Section 2 Wetland Management GP modet a manual of the Stand of the stand in the Stand of the stand in the Stand of the stand of the stand of the stand in the stand of the stand in the stand of the stand in the stand of the stand	Areas and high association of the Soft Cauring Geoding Alles that are located as 1989 society and the Soft Cauring Geoding Alles that are located as 1980 society and the Soft Cauring Geoding Alles that are located as 1980 society and 1985 sort Cauring Alles and 1986 sort Cauring Alles a	Areas ato high inspacesphilory areas where and high inspacesphilory areas where and high spacesphilory areas where and infinite spacesphilory areas where areas areas where areas where areas where areas where areas where are	har an har and a second of the

		Carver downtown area discharges						
		directly to Carver Creek, Spring Creek,						
		and the Minnesota River without water			Construct water quality (infiltration/filtration) retrofit BMPs in downtown area			
K186 MP	6 Ci-Carver SW	quality treatment	Stormwater	Specific action	where feasible.	Y	Stormwater	CIPs.Projects
		Carver downtown area discharges						
		directly to Carver Creek, Spring Creek,						
K197 MD	6 Ci-Carver SW	and the Minnesota River without water quality treatment	Stormwater	Specific action	Provide education to residents and businesses on proper lawncare practices and other good housekeeping practices	v	Stormwater	CIPs.Projects
K107 IVIF	6 CI-Calvel Svv	Channel degradation and instability in	Stornwater	specific action	and other good housekeeping practices		Stornwater	CIFS.FIDJELLS
		Spring Creek and Carver Creek near			Restore and stabilize the degraded sections of these creeks upstream of 4th			
K188 MP	6 Ci-Carver SW	downtown Carver	Stormwater	Specific action	Street.	Y	Stormwater	CIPs.Projects
		Stormwater runoff from the Lenzen's 1st						
K190 MD	6 Ci-Carver SW	and 2nd Additions discharges untreated to Spring Creek	Stormwater	Specific action	Retrofit structural treatment devices into existing storm sewer systems in these developments	v	Stormwater	CIPs.Projects
K19 CP1		Public Investment		General goal	To minimize public expenditures and promote efficiency X		Stornwater	CIFS.FIDJELLS
		Gully erosion issue (LMRWD Gully Study)						
		in the ravine north of 4th St. and Elm Dr.						
		intersection is contributing sediment to	a					
K190 IVIP	6 Ci-Carver SW	Spring Creek Gully erosion issue (LMRWD Gully Study)	Stormwater	specific action	Repair and stabilize the active gully erosion issues.	T	Stormwater	Sediment.Erosion Steep slopes CIPs.Projects
		downstream of the northeast end of						
		Diedrich Dr. is contributing sediment to						
K191 MP	6 Ci-Carver SW	Spring Creek	Stormwater	Specific action	Repair and stabilize the active gully erosion issues	Y	Stormwater	Sediment.Erosion Steep slopes CIPs.Projects
		Erosion issues in the ditch sections adjacent to 6th Street are contributing						
K192 MP	6 Ci-Carver SW	sediment to Spring Creek	Stormwater	Specific action	Stabilize existing ditch sections or replace with storm sewer conveyance	Y	Stormwater	Sediment.Erosion CIPs.Projects
		Erosion issues downstream of existing			When development occurs, construct a new discharge to Carver Creek to avoid	-		
K193 MP	6 Ci-Carver SW	culvert under County Road 43	Stormwater	Specific action	the erosion area	Y	Stormwater	Sediment.Erosion CIPs.Projects
		Multiple gully erosion issues located on						
K104 M40	6 Ci-Carver SW	private property in City, as identified in LMRWD Gully Study	Stormwater	Specific action	Where gully erosion is located on private property, address specific issues as future development allows	Y	Stormwater	Sediment.Erosion Steep slopes CIPs.Projects
K194 IVIP	6 CI-Carver Sw	Degraded wetlands within the study	Stormwater	Specific action	ruture development allows	T	Stormwater	Sediment.Erosion Steep slopes CIPS.Projects
		area, as identified in the 2002 Wetland			Restore priority wetlands identified as having medium or high restoration			
K195 MP	6 Ci-Carver SW	Inventory and Assessment		Specific action	potential as development allows	Y	Stormwater	CIPs.Projects
		Development activities occurring in areas	5					
K106 MP	6 Ci-Carver SW	beyond the City's trunk stormwater conveyance system	Stormwater	Specific action	Coordinate interim conveyance measures with the CCWMO to protect downstream properties. Construct the City's trunk conveyance system	v	Stormwater	Development CIPs.Projects
1010	o ci-carver Svv	Provide adequate storage and	Stornwater	Specific action	downstream properties. Construct the city's traink conveyance system		Stornwater	Development cirs.riojects
		conveyance of runoff and manage			Maintain or increase existing flood storage volume below the 100-year flood			
		development in flood prone areas to			elevation on all waterbodies in the City of Carver as opportunities become			
K107 MID	6 Ci-Carver SW	protect the public safety and minimize	Flandalaia Managamant	Constitute	available, per the City's policy of "no net loss of flood storage capacity" in	Y	Stormwater	Flood Development
K197 IVIP	o ci-carver sw	property damage. Provide adequate storage and	Floodplain Management	specific policy	designated stormwater basin areas, floodplain, and wetlands.	T	Stormwater	Flood Development
		conveyance of runoff and manage						
		development in flood prone areas to			Require on-site mitigation for a loss in existing flood storage volume below the			
		protect the public safety and minimize			100-year flood elevation, unless the 100-year floodplain boundary is fully contained on-site.			
K198 MP	6 Ci-Carver SW	property damage.	Floodplain Management	Specific policy	contained on-site. As an MS4 community, the City has developed a Storm Water Pollution	Ŷ	Flood	Development
		To maintain or improve water quality of			Prevention Plan (SWPP) outlining many of the municipal BMPs and associated			
		surface waters throughout the City by			actions being taken by the City. The SWPPP is referenced here and contains			
K199 MP	6 Ci-Carver SW	reducing sediment and nutrient loading.	Water Quality	Specific policy	additional information on many of the following topics		Sediment.Erosion	n
					The preservation, restoration, and enhancement of shoreland and wetland environments in their natural state shall be encouraged. Where desirable and			
					practical, development which complements these features and that which is in			
					conformance with federal, state, and local regulations shall be promoted.			
					Reason: This is a federal and state policy supported by regulations. This Scott			
					County 2040 Comprehensive Plan Chapter V - Land Use & Growth Management			
		Shoreland and wetlands preservation and	4		Adopted: June 18, 2019 Page V-33 reduces erosion caused by excessive storm water runoff, enhances the natural features of the environment, contributes to			
K2 CP1	L Scott	restoration	LAND USE AND GROWTH MANAG	General goal	ground water recharge, and improves air quality		Sediment.Erosio	n
K20 CP1		Resiliency		General goal	To build a resilient landscape		Vegetation	
					In the design and construction of new and redevelopment, treatment of			
					stormwater runoff is required prior to discharge to a surface water or wetland.			
		To maintain or improve water quality of			Treatment shall meet the requirements listed in the City Stormwater Design Standards, which is included in Appendix B. The City will continue to review and			
		surface waters throughout the City by			approve construction plans for conformance with the requirements of NPDES			
K200 MP	6 Ci-Carver SW	reducing sediment and nutrient loading.	Water Quality	Specific policy	permitting.	Y	Stormwater	Sediment.Erosion
		To maintain or improve water quality of						
K201 M40	6 Ci-Carver SW	surface waters throughout the City by reducing sediment and nutrient loading.	Water Quality	Specific policy	The City will administer the rules and regulations of the Lower Minnesota River Watershed District regarding water quality.		Sediment.Erosio	
NZU1 IVIP	o circaiver Sw	To maintain or improve water quality of	water Quality	specific policy	The City will rely on CCWMO to administer their rules and regulations regarding		Seument.EroSioi	"
		surface waters throughout the City by			water quality and will require verification that District permit requirements are			
K202 MP	6 Ci-Carver SW	reducing sediment and nutrient loading.	Water Quality	Specific policy	met.		Sediment.Erosion	n
					The City will continually evaluate opportunities to reduce the phosphorus load to the area surface waters. Additionally, the City contributes runoff to multiple			
					to the area surface waters. Additionally, the Lity contributes runoff to multiple public waters currently on the State's 303(d) list of impaired waters for			
					excessive nutrient concentrations. Therefore, the City will implement nutrient			
		To maintain or improve water quality of			reduction BMPs as necessary to meet waste load allowances approved.			
		surface waters throughout the City by			Additional information regarding TMDL requirements and tracking can be			
K203 MP	6 Ci-Carver SW	reducing sediment and nutrient loading.	Water Quality	Specific policy	found in the City's SWPPP, which can be obtained at City Hall	Y	Sediment.Erosion	n Impaired.TMDL
		To maintain or improve water quality of			The City will make water resource protection a priority for city property, including: parks. open space, and other recreational areas. Areas are swept as			
		surface waters throughout the City by			needed and buffer establishment or other retrofit treatment techniques may			
K204 MP	6 Ci-Carver SW	reducing sediment and nutrient loading.	Water Quality	Specific policy	be incorporated into future projects within these areas, when feasible.		Sediment.Erosion	n

	To exclusion on increase such a such as a				
	To maintain or improve water quality of surface waters throughout the City by		The City will continue to implement Best Management Practices (BMPs) on city-		
K205 MP6 Ci-Carver SW	reducing sediment and nutrient loading. Water Quality	Epocific policy	owned land as necessary to retain and prevent pollutants from leaving the site.		Sediment Frosion
K205 WF6 CFCalvel SW	reducing sediment and nutrient loading. Water Quality	specific policy	owned land as necessary to retain and prevent polititants from leaving the site.		Sediment.erosion
			The City will disperse public education information to foster responsible water		
			quality management practices by city residents and businesses. The public		
	To maintain or improve water quality of		information will include proper lawn fertilizing and other lawn chemical use,		
	surface waters throughout the City by		disposal of lawn waste and solid, liquid, and household hazardous waste		
K206 MP6 Ci-Carver SW	reducing sediment and nutrient loading. Water Quality	Specific policy	products, as well as many other surface water enhancement educational items.		Sediment.Erosion
	To maintain or improve water quality of	Specific policy	If full compliance with the treatment by a stormwater treatment feature is not		Scamentarosion
	surface waters throughout the City by		feasible for a new or re-development site, the City may require a cash		
K207 MP6 Ci-Carver SW	reducing sediment and nutrient loading. Water Quality	Specific policy	dedication in lieu of treatment at the discretion of the City Engineer	Y	Stormwater Sediment Erosion
			In conformance with Carver County rules, extended detention must be		
			provided for the runoff generated from the 2-year event for sites with direct		
	To minimize downstream impacts by		discharges to streams. To demonstrate compliance with the extended		
	maintaining peak runoff discharge rates		detention requirement, calculations showing the 2-year storm discharge		
K208 MP6 Ci-Carver SW	and providing runoff volume reduction. Water Quantity	Specific policy	reduced by 50 percent of existing conditions shall be submitted.	х	
	To minimize downstream impacts by		The City will review downstream stormwater-related impacts (within the		
	maintaining peak runoff discharge rates		community) of development proposals and proactively address water resource-		
K209 MP6 Ci-Carver SW	and providing runoff volume reduction. Water Quantity	Specific policy	related concerns.		Stormwater
K21 CP1 Scott	Public Drainage Public Drainage	General goal	To create and enable a long term vision for county ditches	х	
	· · · · · · · · · · · · · · · · · · ·		The City recognizes the potential environmental impacts associated with		
	To minimize downstream impacts by		constructing new outlets to existing landlocked areas; therefore, the outletting		
	maintaining peak runoff discharge rates		to landlocked areas shall be done only as a last resort and shall be coordinated		
K210 MP6 Ci-Carver SW	and providing runoff volume reduction. Water Quantity	Specific policy	with the LMRWD and CCWMO.	x	
			The design of new stormwater storage facilities will accommodate the 100-year		
			storm event, providing the required freeboard and avoiding structure flooding.		
	To minimize downstream impacts by		Storm sewers will be designed to pass the10-year rainfall event without the		
	maintaining peak runoff discharge rates		hydraulic grade line extending above the ground at any location, as long as		
K211 MP6 Ci-Carver SW	and providing runoff volume reduction. Water Quantity	Specific policy	downstream restrictions do not require a reduced-capacity design	Y	Stormwater Flood
	To minimize downstream impacts by		The City will encourage the use of natural drainageways for conveying		
	maintaining peak runoff discharge rates		stormwater where the drainageway can accommodate or be improved to		
K212 MP6 Ci-Carver SW	and providing runoff volume reduction. Water Quantity	Specific policy	accommodate proposed flows and volumes.		Stormwater
	To minimize downstream impacts by		Enhanced infiltration practices will be encouraged, where feasible, in areas		
	maintaining peak runoff discharge rates		where the present or future land use does not have a significant potential to		
K213 MP6 Ci-Carver SW	and providing runoff volume reduction. Water Quantity	Specific policy	contaminate groundwater.		Groundwater
			The City encourages the reduction of impervious surfaces resulting from new		
			and redevelopment projects. This policy will help preserve existing natural		
	To minimize downstream impacts by		areas and reduce the total volume of runoff generated on a site, reducing the		
	maintaining peak runoff discharge rates		rate control burden on		
K214 MP6 Ci-Carver SW	and providing runoff volume reduction. Water Quantity	Specific policy	downstream regional detention basins.		Natural Resource Protection
	To minimize downstream impacts by maintaining peak runoff discharge rates		The City will seek to retrofit volume control BMPs into existing developed areas		
K215 MP6 Ci-Carver SW	and providing runoff volume reduction. Water Quantity	Constitute	as opportunities arise and funding is available.	Y	
K215 WP6 CI-Carver SW	and providing runon volume reduction. Water quantity	specific policy	as opportunities arise and running is available.	Χ	
	To prevent erosion and sedimentation to		The City will enforce the erosion and sediment control plan and best		
	the maximum extent practical through		management practices on construction sites through the review and inspection		
	construction site permitting, inspection		process. Areas adjacent to water bodies and wetlands may require additional		
K216 MP6 Ci-Carver SW	and good municipal housekeeping. Erosion and Sediment	Control Specific policy	BMPs due to their environmental sensitivity		Sediment.Erosion
			······································		
	To prevent erosion and sedimentation to		The City will continue to sweep paved public streets as identified in the SWPPP.		
	the maximum extent practical through		Areas with direct discharge into lakes, wetlands, and streams will be given		
	construction site permitting, inspection		priority and areas requiring additional attention will be swept more on an as-		
K217 MP6 Ci-Carver SW	and good municipal housekeeping. Erosion and Sediment	Control Specific policy	needed basis.		Sediment.Erosion
	To protect wetland value and ensure				
	conformance with the requirements of		The City will notify parties proposing land disturbing activities (i.e.: altering,		
	the Minnesota Wetlands Conservation		dredging, filling, and draining) to verify with CCWMO & LMRWD for their		
	Act (WCA), CCWMO & LMRWD Rules,		wetland protection rules requirements, as well as possible permit requirements		
K218 MP6 Ci-Carver SW	and other State and Federal regulations Wetlands	Specific policy	from the MDNR and US Army Corps of Engineers (COE		Wetlands
	To protect wetland value and ensure		The city contains wetland areas that are critical to stormwater drainage		
	conformance with the requirements of		throughout the city. The city manages the wetlands as necessary to minimize		
	the Minnesota Wetlands Conservation		the potential for structure flooding and maximize public safety. As such, the		
	Act (WCA), CCWMO & LMRWD Rules,		city must occasionally remove sediment buildup from wetlands and, as in the		
K219 MP6 Ci-Carver SW	and other State and Federal regulations Wetlands	Specific policy	past, will work with the appropriate agencies on a case-by-case basis.	Y	Stormwater Flood Sediment.Erosion
			Preserve Wetlands (no net loss) For Water Retention, Recharge, Soil		
			Conservation, Wildlife Habitat, Aesthetics, and Natural Enhancement of Water		
K22 CP1 Scott	Preserve wetlands Wetland Management	t Specific Action	Quality		Wetlands
	To protect wetland value and ensure				
	conformance with the requirements of				
	the Minnesota Wetlands Conservation		The City will cooperate with interested private or governmental parties on		
	Act (WCA), CCWMO & LMRWD Rules,		wetland restoration projects and may participate in the State's wetland banking		
		Specific policy			Cooperation
K220 MP6 Ci-Carver SW	and other State and Federal regulations Wetlands				
K220 MP6 Ci-Carver SW	and other state and Federal regulations Wetlands		The City will consider the significance of sensitive geologic areas when making		
K220 MP6 Ci-Carver SW			land use decisions, when reviewing development proposals, or when proposing		
K220 MP6 Ci-Carver SW	To protect groundwater through prudent		land use decisions, when reviewing development proposals, or when proposing construction of stormwater facilities. Activities that may have significant		
	To protect groundwater through prudent management of surface waters and areas		land use decisions, when reviewing development proposals, or when proposing construction of stormwater facilities. Activities that may have significant contamination potential will be required to include groundwater protection		
K220 MP6 Ci-Carver SW K221 MP6 Ci-Carver SW	To protect groundwater through prudent management of surface waters and areas of potential contamination. Groundwater	Specific policy	land use decisions, when reviewing development proposals, or when proposing construction of stormwater facilities. Activities that may have significant contamination potential will be required to include groundwater protection measures.	Y	Unique.Sensitive.h Stormwater Groundwater
	To protect groundwater through prudent management of surface waters and areas of potential contamination. To protect groundwater through prudent	Specific policy	land use decisions, when reviewing development proposals, or when proposing construction of stormwater facilities. Activities that may have significant contamination potential will be required to include groundwater protection measures. The City will encourage the use of infiltration methods to promote	Y	Unique.Sensitive.h Stormwater Groundwater
K221 MP6 Ci-Carver SW	To protect groundwater through prudent management of surface waters and areas of potential contamination. Groundwater To protect groundwater through prudent management of surface waters and areas		land use decisions, when reviewing development proposals, or when proposing construction of stormwater facilities. Activities that may have significant contamination potential will be required to include groundwater protection measures. The City will encourage the use of infiltration methods to promote groundwater recharge where groundwater will not be significantly impacted by	Y	·
	To protect groundwater through prudent management of surface waters and areas of potential contamination. To protect groundwater through prudent		land use decisions, when reviewing development proposals, or when proposing construction of stormwater facilities. Activities that may have significant contamination potential will be required to include groundwater protection measures. The City will encourage the use of infiltration methods to promote	Y Y	Unique.Sensitive.h Stormwater Groundwater Stormwater Groundwater

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 Metal Signal Sign	K231 MP6 Ci-Carver SW		Wetlands Specific polic		Groundwate	er		
Lap escience the functions and values of the presence of walls of excitations and values of the presence of walls of excitations and values of the presence of walls of excitations and values of the presence of walls of excitations and values of the presence of walls of excitations and values of the presence of walls of excitations and values of the presence of walls of excitations and values of the presence of walls of excitations and values of the presence of walls of excitations and values of the presence of walls of excitations and values of the presence of walls of excitations and values of the presence of th								
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k234 MP6 CiCarver SW business converts, elected officials, City, Link, City, Cit		Provide educational and outreach						
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		Stormwater education of City staff and						
K24 CP1 Scott Restore Wetlands Wetland Management Specific Action Enhance and Restore Wetlands Wetlands	K239 MP6 Ci-Carver SW	officials	Stormwater and Public Investmen Specific action	presentations, internal memos, etc.) to educate City staff and elected officials.	Stormwater			
	K24 CP1 Scott	Restore Wetlands	Wetland Management Specific Action	n Enhance and Restore Wetlands	Wetlands			
				Annual stormwater public meeting – this meeting provides an opportunity for residents and business owners to hear about the City's efforts to implement				
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				our stormwater program. This meeting also provides an opportunity for				
	Stormwater education of Residents and			residents and business owners to provide feedback and input on the City's				
K240 MP6 Ci-Carver SW	Buisnesses	Stormwater and Public Investme	n Specific action	stormwater program.			Y	Stormwater Public engagement.education
				Regular stormwater related publications – include stormwater related				
				information in a minimum of 4 City publications (City newsletter, utility billing				
	Stormwater education of Residents and			mailings, etc.) annually. The content will be derived from both internal City				
K241 MP6 Ci-Carver SW	Buisnesses	Stormwater and Public Investme	n Specific action	sources and partnerships with other entities, such as the CCWMO or LMRWD				Stormwater
				Coordination with CCWMO – starting in 2019, the City will seek to formalize an				
K242 MP6 Ci-Carver SW	Stormwater education of Residents and Buisnesses	Stormwater and Public Investme	- Constitution	agreement to coordinate public education activities with CCWMO's Education Coordinator, based on the City's available budget				Stormwater
K242 WIP6 CI-Carver Sw	Buisnesses	stormwater and Public Investme	n specific action	Social media communications – use the City's social media outlets (City blog,				stormwater
				Facebook, and Twitter) to notice upcoming stormwater related events,				
				highlight stormwater related happenings in the area, or provide stormwater				
	Stormwater education of Residents and			related educational materials. The City aims for a minimum of 4 stormwater				
K243 MP6 Ci-Carver SW	Buisnesses	Stormwater and Public Investme	n Specific action	related communications per year via the City's social media outlets				Stormwater
	Stormwater education of Residents and			Annual Spring cleanup day – City-wide annual curbside cleanup day accepting				
K244 MP6 Ci-Carver SW	Buisnesses	Stormwater and Public Investme	n Specific action	mixed solid waste and yard waste				Stormwater
				Pre-application meeting – The initial guidance related to stormwater mitigation efforts will be provided at the pre-application meeting with developers (see				
				Policy 28). This meeting provides an opportunity to discuss how the project will				
				incorporate Conservation Design practices into the site layout. The City is				
				committed to working with developers to incorporate suitable Conservation				
K245 MP6 Ci-Carver SW	Stormwater education of Developers	Stormwater and Public Investme	n Specific action	Design techniques into site layouts.			Y	Stormwater Development
				Plan review process – Throughout the plan review process, the City is in				· · · · · · · · · · · · · · · · · · ·
				communication with developers regarding the implementation of the City's				
				stormwater related policies, stormwater system maintenance requirements,				
K246 MP6 Ci-Carver SW	Stormwater education of Developers	Stormwater and Public Investme	n Specific action	and general site layouts that promote water quality			Y	Stormwater Development
K247 MADE 010 011	6th St Drainage Study	Chammanhan	CIP	Study best management practices that can be incorporated to provide water quality while managing increasing flow rates 2020 \$650,000		2020 \$650,000	v	Chammundan CIDa Davianta
K247 MP6 Ci-Carver SW	6th St Drainage Study	Stormwater	CIP	quality while managing increasing flow rates 2020 \$650,000		2020 \$650,000	Ŷ	Stormwater CIPs.Projects
K248 MP6 Ci-Carver SW	Ravine stabilization – 4th St & Elm Drive	Stormwater	CIP	Repair and stabilize the active gully erosion at this location 2020 \$250,000		2020 \$250.000	v	Stormwater Sediment.Erosion Steep slopes CIPs.Projects
K246 WF0 CFCarver SW	Diedrich Dr & Kirche Hill Dr. Stormwater	Stornwater	Cir	Include structural BMPs including sumps, SAFL Baffle, etc. in the proposed		2020 \$250,000		Stornwater Sediment.crosion Steep slopes en strojects
K249 MP6 Ci-Carver SW	Improvements	Stormwater	CIP	storm sewer system. 2019 \$25,000		2019 \$25,000	Y	Stormwater CIPs.Projects
K25 CP1 Scott	Sustainable infrastructure	Surface Water Quality	Specific Action	Promote a Sustainable Systems of Buffers and Green Infrastructure				Open and Green
				Continue to install structural BMPs such as sumps, SAFL Baffle, etc. as				· · ·
K250 MP6 Ci-Carver SW	Downtown Water Quality Improvements		CIP	reconstruction projects occur TBD TBD	TBD	TBD	Y	Stormwater CIPs.Projects
	Spring, Carver, and Timber Creeks strean			As stream rehabilitation funds become available, restore and stabilize selected				
K251 MP6 Ci-Carver SW	bank stabilization	Stormwater	CIP	sections of Spring, Carver, and Timber Creeks. TBD TBD	TBD	TBd	Y	Stormwater CIPs.Projects
K252 MP6 Ci-Carver SW	6 th Street Railroad Embankment Drainage Improvements	Stormwater	CIP			2019 \$100,000	v	Stormwater CIPs.Projects
K252 WIP6 CI-Carver Sw	Drainage improvements	stormwater	CIP	Restore functionality of outlet serving upstream drainage area 2019 \$100,000		2019 \$100,000	T	stormwater CIPS.Projects
K253 MP6 Ci-Carver SW	Community Park Drainage Improvement:	s Stormwater	CIP	Add BMPs to provide water quality and quantity improvements. TBD TBD	TBD	TBD	Y	Stormwater CIPs.Projects
				Construct Stormwater Basin on Parcel #: 02393762, Provide water quality for			-	
K254 MP6 Ci-Carver SW	Old Carver Road Stormwater Basin	Stormwater	CIP		TBD	\$200,000	Y	Stormwater CIPs.Projects
				Carver Creek TMDL Fecal Coliform - Aquatic Recreation impairment Approved				
				2007; Turbidity - Aquatic Life impairment approved 2012; Nutrient /				
K255 MP6 Ci-Carver SW	Carver Creek Impairment	TMDL and impaired waters	TMDL	Eutrophication - Aquatic Life impairment No approval				Impaired.TMDL
1005 C 100 C 0 C 0	Casing Casaly Investment			Unnamed Creek (Spring Creek) Fecal Coliform - Aquatic Recreation impairment				
K256 MP6 Ci-Carver SW	Spring Creek Impairment	TMDL and impaired waters	TMDL	No approval Minnesota River (Bevens Creek to Sand Creek) Turbidity- Aquatic Life				Impaired.TMDL
				impairment: Mercury in Water Column - Aquatic Consumption impairment				
				approved 2008; Mercury in Fish Tissue - Aquatic Consumption impairment				
	Minnesota River (Bevens Creek to Sand			approved 2008; PCB in Fish Tissue - Aquatic Consumption impairment No				
K257 MP6 Ci-Carver SW	Creek) Impairment	TMDL and impaired waters	TMDL	approval; Fecal Coliform - Aquatic Recreation impairment No approval				Impaired.TMDL
				Minnesota River (Sand Creek to Carver Creek) Mercury in Water Column -				
				Aquatic Consumption impairment approved 2008; Mercury in Fish Tissue -				
	Minnesota River (Sand Creek to Carver		71.404	Aquatic Consumption impairment approved 2008; PCB in Fish Tissue - Aquatic				
K258 MP6 Ci-Carver SW	Creek) Impairment	TMDL and impaired waters	TMDL	Consumption impairment No approval; Minnesota River (Carver Creek to RM 22) Turbidity- Aquatic Life impairment;				Impaired.TMDL
				Minnesota River (Carver Creek to Riv 22) Turbidity- Aquatic Life impairment; Mercury in Water Column - Aquatic Consumption impairment approved 2008;				
	Minnesota River (Carver Creek to RM 22)		Mercury in Fish Tissue - Aquatic Consumption impairment approved 2008; PCB				
K259 MP6 Ci-Carver SW	Impairment	TMDL and impaired waters	TMDL	in Fish Tissue - Aquatic Consumption impairment No approval;				Impaired.TMDL
K26 CP1 Scott	Prevent degradation	Surface Water Quality		Prevent Further Degradation		х		
				Carver Creek Turbidity Implementation Plan – This implementation plan states				
				the following: "Comparing [the current MS4 TSS Loadings – TMDL				
				Implementation Plan Table 3.2] to allowable loadings ([TMDL Implementation				
				Plan] Table 2.2) indicates that no reductions appear to be needed from MS4 areas. The regulated MS4 communities will need to maintain at least the				
				existing level of treatment of their stormwater discharges to ensure continued				
				compliance with the conditions of the MS4 general permit. At the time of				
				permit application, permittees will indicate that a WLA was assigned to them in				
				this TMDL project, they are currently meeting that WLA since no reductions				
				were called for, and they will continue to maintain the current BMPs on the				
K260 CP6 Ci-Chaska	Carver Creek Turbidity TMDL	TMDL and impaired waters	TMDL	landscape to ensure compliance with their permit."			Y	Stormwater Impaired.TMDL
				Natural resources, open spaces, parks, and trails are improved and protected,				
K261 CP6 Ci-Chaska	Natural resource protection	Natural Resources	General goal	and environmental preservation is a commitment.				Open and Green
				The City's significant natural and environmental resources shall be preserved				
wasa ang	Network environment of the			for their functional value as well as their positive aesthetic impact upon				
K262 CP6 Ci-Chaska	Natural resource preservation	Resource Preservation	General policy	proximate urban development.				Natural Resource Protection

				Prohibit new development from encroaching upon vital natural resources such					
	Vital natural reource protection from			as wetlands, wooded steep slopes, bluffs/ravines, drainage ways and					
K263 CP6 Ci-Chaska	development	Development G	General policy	floodplains,		Y	Flood	Development	Steep slopes
				Encourage new developments to capitalize upon the positive influence of					
				Chaska's significant natural environment. Development that is designed with					
	Development designed to be sensitive to			sensitivity to the environment will provide quality living areas while also					
K264 CP6 Ci-Chaska	environment	Development G	Seneral policy	preserving natural and environmental resources New urban development shall use the Environmental Features Map (FIGURE		Y	Unique.Sensitive.	n Development	
				3.7), where appropriate, as a basis for preserving significant natural and					
K265 CP6 Ci-Chaska	Preserve natural features	Development G	General policy	environmental features.			Development		
			,	Existing floodplain regulations applicable to the Minnesota River and East and					
K266 CP6 Ci-Chaska	Floodplain regulations	Floodplain Management G	General policy	West Chaska Creeks shall be aggressively enforced.			Flood		
	· · · · · · · · · · · · · · · · · · ·			The natural drainage systems consisting primarily of the East and West Chaska					
	Natural drainage of East and West			Creeks and their tributaries shall be preserved and protected for their					
K267 CP6 Ci-Chaska	Chaska Creeks	Floodplain Management 0	Seneral policy	functional values as drainageways and wildlife movement corridors.		Y	Flood	Corridors	
				Valleys and ravines formed by the drainage system shall be preserved in their					
K268 CP6 Ci-Chaska	Valleys and Ravines	Flandalaia Managamat	General policy	natural state for functional and ecological reasons as well as for their aesthetic value		Y	Flood	Change allowed	
K208 CP6 CI-Chaska	valleys and Ravines	Floodplain Management G	seneral policy	As urbanization occurs within the various drainage areas, stormwater run-off		T	FIODD	Steep slopes	
				retention facilities shall be provided so that the normal run-off rate from					
				undeveloped land is not increased. Without such retention ponds or basins,					
				creek flowage would be substantially increased, causing severe erosion and					
K269 CP6 Ci-Chaska	Urbanization run-off		General policy	flood damage safety problems, and water quality is degraded.		Y	Stormwater	Flood	Sediment.Erosion
K27 CP1 Scott	Impaired waters	Surface Water Quality S	specific Action	Address Impaired Waters and Improve Water Quality			Impaired.TMDL		
				Lakes and wetlands are part of the natural ecosystem that provide areas for					
				water retention, natural filtering of stormwater runoff, and natural habitats for					
				plant and animal wildlife. If properly maintained, they can also provide important educational and recreational assets, conserve the natural beauty of					
K270 CP6 Ci-Chaska	Wetland value	Lakes and Wetlands	General policy	the landscape, and enhance property values.			Stormwater		
				Lakes and wetlands shall be considered an integral part of the City's storm					
				water drainage system. Alteration for ponding purposes may potentially occur					
	Part of the cities storm water drainage			but should be accomplished in such a manner that wildlife habitat is preserved					
K271 CP6 Ci-Chaska	system	Lakes and Wetlands G	General policy	or strengthened			Wetlands		
				When areas in proximity to regulated lakes and wetlands are proposed for					
				urbanization, detailed site plans shall be required to demonstrate how the					
K272 CP6 Ci-Chaska	Protection from urbanization	Lakes and Wetlands	Concerned an allian	resource will be protected from potential negative effects from urban development.			Wetlands		
K272 CP6 CI-Chaska	Protection from urbanization	Lakes and wetlands G	General policy	The City of Chaska recognizes that it is in the best interest of the public health,			wetiands		
				safety, and welfare to provide for the wise use, subdivision, and development					
				of shorelands of public waters, which are designated on the Minnesota Public					
K273 CP6 Ci-Chaska	Wise use of shoreland	Shoreland G	General policy	Water Inventory (PWI)	х				
				The City of Chaska will continue to work closely with DNR officials to update					
K274 CP6 Ci-Chaska	shoreland management regulations	Shoreland G	General policy	and enforce shoreland management regulations as required.	х				
				Wooded land with an 18 percent slope or greater shall be preserved in its					
				natural state for environmental value, particularly to deter soil erosion on the steep slopes and protect natural wildlife habitat areas. In addition, buildings					
				and parking shall be set back at least 50 feet from the edge of the 18 percent					
				slope and a 30-foot "no-grade/mow" zone provided for adjacent to the edge of					
K275 CP6 Ci-Chaska	Slopes greater than 18%	Wooded steep slopes and Erosion G	General policy	the 18 percent slope for purposes of erosion control.		Y	Sediment.Erosion	Steep slopes	
				Where possible, woodland areas of less than 18 percent slope shall be					
				preserved for their ecological, historic, and aesthetic value. Where urbanization					
				does occur within such upland wooded areas, it should be sensitively designed					
				by use of large lots, cluster development, etc. so that the overall woodland					
K276 CP6 Ci-Chaska	Woodlands Preserved	Woodlands G	Seneral policy	effect is preserved.			Unique.Sensitive.	nigh value	
K277 CP6 Ci-Chaska	Minimizing negative impacts	Woodlands	General policy	Detailed site plans shall be required for areas within or proximate to woodlands to ensure that potential negative impacts are minimized.	v				
KZ// LPD LI-LIIASKA	winninging negative impacts	woouidhus G	seneral policy	A permanent Chaska Greenbelt shall be established around the edges of the	~				
	Preserve rural and free standing			City to the extent possible to physically and visually separate Chaska from					
K278 CP6 Ci-Chaska	community	Land Use S	Specific goal	adjacent communities.			Open and Green		
	· · ·								
				The protection of natural resource systems and open spaces in the southwest					
				Chaska growth area will be an important land use strategy. Future development					
				planning within the area must include the identification, prioritization, and					
				protection of natural resource systems and open spaces, using the Environmental Features Map (Figure 3.7) and Southwest Chaska Growth &					
				Environmental Features Map (Figure 3.7) and Southwest Chaska Growth & Development Plan as the basis for open space preservation. Protected wildlife					
	Natural resource systems protection			corridors should have a general minimum width of 150 feet. Public access to					
K279 CP6 Ci-Chaska	from development	Land Use G	General policy	these natural resource systems and open spaces is required.		Y	Development	Corridors	
K28 CP1 Scott	Improve understanding			Improve Understanding of Water Quality	х				
	~			The open space and natural resources systems of the area are identified,					
				prioritized, and protected, using the Environmental Features Map (FIGURE 3.7)					
				as the basis for open space preservation. Public access to these systems is					
K280 CP6 Ci-Chaska	Greenbelt resource protection	Land Use G	Seneral policy	requirea.			Open and Green		
				Connect to the regional trail system including the planned Southwest Regional					
				Trail along Creek Road, the planned Minnesota River Bluffs LRT Regional Trail					
K281 CP6 Ci-Chaska	Trail system connection	Land Use S	Specific policy	Extension into Carver, and the County Road 10 Regional Trail Search Corridor.		Y	Increase River Use	Trails	
cro cronona	,		-perine poney	Preservation of an extensive open space network that protects and connects		-			
K282 CP6 Ci-Chaska	Open space preservation	Open space land uses O	General goal	Chaska's abundant and diverse natural resource features.			Open and Green		
				The remaining portions of the East Chaska Creek drainageway system that are					
				not currently owned or controlled by the City of Chaska and the portions of the					
				West Chaska Creek drainageway system in Chaska should be preserved for their					
	East and West Chaska drainageway			functional and amenity values through development regulations and					
K283 CP6 Ci-Chaska	system preservation	Open space land uses S	specific policy	conservation/scenic easements obtained at the time of development			High value easem	ents	

					The planning of urban development in the vicinity of the creek drainageway		
K284 CP6 C					systems should promote the positive influence of that system to be extended outward to the maximum extent possible		
K284 CP6 C	i-Chaska	Urban development near drainageways	Open space land uses G	General policy			Development
					The City of Chaska recognizes the Bluff Creek Watershed Natural Resources		
					Management Plan (1996) and the Bluff Creek Overlay District (1998), which		
					were prepared and adopted by the City of Chanhassen, as means to preserve the Bluff Creek Corridor. The intent of this plan and overlav district is to		
					preserve this natural resource corridor through protection of significant natural		
K285 CP6 C	i-Chaska	Bluff Creek Corridor preservation	Open space land uses S	Specific policy	resources and environmentally sensitive development.	Y	Unique.Sensitive.h Corridors
					Preserve the natural resources of the southwest Chaska growth area, including		
					the West Chaska Creek drainageway system, wooded steep slopes, wetlands,		
					remnant "Big Woods" and other significant wooded areas, as part of the		
					community's creek/ravine		
K286 CP6 C	i-Chaska	Southwest Chaska growth area	Open space land uses G	General policy	open space system.		Steep slopes
					Enhance, expand and better connect the Minnesota River Valley open space		
					amenities by developing collaborative relationships with the organizations and		
					visitors associated with the Minnesota Valley National Wildlife Refuge and the		
		Connect Minnesota River Valley open			Minnesota Valley State Recreation Area, such as the USFWS, MN DNR, and		
K287 CP6 C	i-Chaska	space	Open space land uses S	Specific policy	Friends of the Minnesota Valley.	Y	Cooperation Increase River Use
					Expand connections between Chaska's open space network and the MN		
		Connections to MN Landscape			Landscape Arboretum through a collaborative relationship between the City,		
K288 CP6 C	i-Chaska	Arboretum	Open space land uses S	Specific policy	Arboretum, and adjacent property owners		Cooperation
					Chaska shall plan for the connection of regional trails with the City's trail		
					system; however, the use of the connecting regional and community trails		
					should be compatible. For example, regional agencies should not indicate a		
					snowmobile trail leading to the City limits if snowmobiles are not permitted in		
K289 CP6 C		Connect to regional trails	Parks and Trails G	General policy	that part of the City.		Trails
K29 CP1 S	cott	Cooridnate with others	Surface Water Quality S	Specific Action	Coordinate with other agencies and water quality programs		Cooperation
					Chaska shall partner with, support, and encourage State, County, and other		
K290 CP6 C	i-Chaska	Partner with other agencies	Parks and Trails G	General policy	agencies in developing trail connections within and to Chaska.		Cooperation
					Chaska shall provide trails through natural open space corridors and trailhead		
					facilities in the Chaska Greenbelt to enable public access to natural resource		
					corridors within the Greenbelt, at such time that these areas develop with		
K291 CP6 C	i-Chaska	Trails through open space in Greenbelt	Parks and Trails 0	General policy	residential conservation/cluster development.	Y	Corridors Trails
					Chaska's parks and open spaces contain natural resource areas that are		
					protected and conserved for the purposes of wildlife habitat, ecological		
K292 CP6 C	i-Chaska		Parks and Trails 0	General goal	function, environmental services, and aesthetic interest.		Open and Green
					Chaska shall preserve and protect the existing and future Community Linear		
					Park/Ravine system in its natural state. It is not essential to own the ravine and		
					attendant wetland system and bluff areas in order to protect them. The City		
		Protect Cummunity Linear Park/Ravine			shall use conservation/scenic easements and environmental ordinances are		
K293 CP6 C	i-Chaska	system	Parks and Trails S	Specific policy	effective preservation devices.	Y	High value easeme Steep slopes
		Minnesota Valley State Recreation Area			•		2
		and Trail within the lower Minnesota			Chaska shall support preservation of and connections to the Minnesota Valley		
K294 CP6 C	i-Chaska	River Valley	Parks and Trails S	Specific policy	State Recreation Area and Trail within the lower Minnesota River Valley	Y	Natural Resource F Trails
					Chaska shall support preservation of and connections to the Chaska Lake Unit		
K295 CP6 C	i-Chaska	Chaska Lake Unit	Parks and Trails S	Specific policy	of the Minnesota Valley National Wildlife Refuge	Y	Natural Resource F Trails
					Chaska shall ensure that the City's trail system is connected to the Regional,		
K296 CP6 C	i-Chaska	City's trail system	Parks and Trails S	Specific policy	State and Federal trail systems		Trails
					Chaska shall complete the trail system throughout the Community Linear Park		
					System through the acquisition of additional right-of-way outright or by		
		Completion Community Linear Park			easement. The types of pathways and attendant development, such as rest		
K297 CP6 C	i-Chaska	System trails	Parks and Trails S	Specific policy	areas and signs, should be complementary to the desired natural setting.		High value easements
					Partner with Carver County, Metro Council and local communities to establish		0
					agreed upon roles and responsibilities for planning, designing, funding,		
		Partner to establish roles for a regional			developing and maintaining a potential regional trail in the TC & W Railroad		
K298 CP6 C	i-Chaska	TC & W Railroad corridor	Parks and Trails S	Specific action			Trails
					Support Carver County's development of the Carver County 2040 Trail and		
					Bikeway System Plan by establishing agreed upon roles and responsibilities		
		Carver County 2040 Tail and Bikeway			with Carver County in planning, designing, funding, developing and maintaining		
К299 СР6 С	i-Chaska	System Plan	Parks and Trails S	Specific action	the identified linking trail and bikeway corridors in the County's Plan.		Trails
	- C.133NG		rans and mails 3	specific action	Instead of the County's traditional development controls (i.e., zoning, land		Trans
					subdivision regulations), encourage a planned unit development (PUD) track		
					that could include density bonuses in exchange for public values such as		
					preserving, protecting, or enhancing natural features. Reason: Providing a more		
					collaborative and public values-driven approach allows for more creativity in		
		Provide Density bonuses for preserving			the development process and holds greater promise for win-win outcomes for		
K3 CP1 S	cott	natural features in development	LAND USE AND GROWTH MANAG	Conoral goal	the public and the developer.	~	Development Low Impact Devel Cooperation
K3 CP1 Si K30 CP1 Si		Source protection			Promote Source Protection		Natural Resource Protection
NOU CPI SI		Source protection	Surrace Water Quality S	specific Action	Tronice Source Trotection		Natural Resource Protection
					Chaska shall support continued improvements to the MN DNR's Minnesota		
					Chaska shall support continued improvements to the MN DNK's Minnesota Valley State Trail on the south side of the Minnesota River, including safe and		
K200 CDC C	Charles	MAN DAUDIS Adias see to Mallavi Gr. 1. 7. 1	Dealer and Tapila				leave Diverties
K300 CP6 C	i-chaska	MN DNR's Minnesota Valley State Trail	Parks and Trails S	Specific action	convenient connections to the T.H. 41 bridge trail for pedestrians and bicyclists		Increase River Use
					Partner with the City of Victoria, Carver County, and Metro Council to develop		
					the Southwest Regional Trail, thereby connecting Carver Regional Park Reserve		
1					to the Minnesota Valley State Trail and completing a loop regional trail system		
	i-Chaska	Southwest Region Trail	Parks and Trails S	Specific action	connecting Hopkins, Victoria and Chaska.		Cooperation
K301 CP6 C					Work with local agencies and partners to complete the proposed Regional Trail		
K301 CP6 C					Considers which are identified in the Matter ality Council/s 2040 Designal		
K301 CP6 C					Corridors, which are identified in the Metropolitan Council's 2040 Regional		
K301 CP6 C					Parks Policy Plan, and include the following: • Minnesota River Bluffs LRT		
					Parks Policy Plan, and include the following: • Minnesota River Bluffs LRT Regional Trail • Southwest Regional Trail • Twin Cities & Western Railroad		
K301 CP6 C	i-Chaska	Met Council's Regional Trail Corridors	Parks and Trails S	Specific action	Parks Policy Plan, and include the following: • Minnesota River Bluffs LRT	Y	Increase River Use Trails

				Work with Carver County to build the proposed Carver County			
				Bikeways/Linking Trails, which are identified in the Carver County 2040 Trail			
				and Bikeway System Plan, include the following: • County Road 18 Corridor •			
				Highway 41 Corridor • County Road 11 Corridor • County Road 10 Corridor 9			
K303 CP6 Ci-Chaska	Carver County Bikeways/Linking Trails	Parks and Trails	Specific action	(west of Clover Ridge Drive) • County Road 61 Trail • Highway 101 Trail			Trails
				Support the conversion of turf grass into native planting areas and low-mow			
				grass areas on City properties and throughout the community as stormwater			
K304 CP9 Ci-Eden Prairie	Convert turf grass to native	Stormwater	Specific action	mitigation areas and pollinator habitats.			Stormwater
	Analyze all available land against			Continue preserving watercourses and wetlands to protect sensitive			
K305 CP9 Ci-Eden Prairie	opportunities for conservation versus buildable development.			ecosystems, maintain clean and healthy lakes, improve overall environmental			
K305 CP9 CI-Eden Prairie	Analyze all available land against	Parks and Open spaces	General action	quality, and beautify the community.		Ŷ	Unique.Sensitive.h Development
	opportunities for conservation versus			Encourage development that provides reserves and manages natural resource			
K306 CP9 Ci-Eden Prairie	buildable development.	Parks and Open spaces	Conoral action	amenities that are viable and sustainable.		Y	Development Low Impact Devel
KS06 CF9 CI-Edeli Flaine	Analyze all available land against	Parks and Open spaces	General action				Development Edwimpact Devel
	opportunities for conservation versus			Update and practice a program of resource management for public			
K307 CP9 Ci-Eden Prairie	buildable development.	Parks and Open spaces	General action	conservation and resource areas.			Development
Roor er of er each frame	ballable development.	runs und open spaces	deneral detion	Highway 101 and Bryant Lake Regional Trail. Stretching nine miles, the Highway			bevelopment
				101 Regional Trail Search Corridor connects Lake Minnetonka LRT Regional			
				Trail, Twin Cities & Western Regional Trail Search Corridor, and Minnesota			
K308 CP9 Ci-Eden Prairie	Search Corridor	Regional Trails	Specific area	River Blufs LRT Regional Trail.		Y	Increase River Use Trails
				20-mile Bryant Lake Regional Trail Search Corridor connects Medicine Lake			
				Regional Trail, French Regional Park, Luce Line Regional Trail, Lake Minnetonka			
				LRT Regional Trail, Minnesota River Blufs LRT Regional Trail, Bryant Lake			
				Regional Park, and County Road 61 Regional Trail Search Corridor in			
K309 CP9 Ci-Eden Prairie	Search Corridor	Regional Trails	Specific area	Chanhassen.		Y	Increase River Use Trails
	Protect Groundwater Quality and						
K31 CP1 Scott	Supplies	Groundwater Management	Specific Action	Preserve and protect groundwater quality and quantity			Groundwater
				the City will continue to acquire environmentally sensitive areas, such as			
K310 CP9 Ci-Eden Prairie	Environmentally sensitive areas	Conservation Areas	General action	slopes, wetlands, and foodplains, for conservation as appropriate			Unique.Sensitive.high value
				The City will continue working with the U.S. Fish and Wildlife Service to acquire the foodplain within the Minnesota River Valley to expand the Minnesota			
K311 CP9 Ci-Eden Prairie	Floodplain Areas	Conservation Areas	Conservations	Valley National Wildlife Refuge			Flood
KS11 CF9 CI-Edeli Flaine	Tiooupiani Areas	Conservation Areas	General action	valley National Wildlife Refuge			rioou
				The City also encourages the preservation of permanent open space on			
K312 CP9 Ci-Eden Prairie	Wooded slopes	Conservation Areas	General action	wooded slopes of creek valleys through scenic easements or public ownership.			High value easements
K313 CP9 Ci-Eden Prairie	Storm water quality	Storm water	CIP	Storm Water Quality Improvement Projects Revenue \$3,700,000 10 years 10 years	\$3.700.000	Y	Stormwater CIPs.Projects
K314 CP9 Ci-Eden Prairie	Creek and River Corridor	Restoration	CIP	Creek and River Corridor Restoration Projects Revenue \$2,830,000 10 years 10 years	\$2,830,000	Y	Corridors CIPs.Projects
			-	Areas outside the MUSA shall be preserved as agricultural zones or used to			
				support very low-density development. This area should not be prematurely			
				developed, and the city will discourage the creation and/or expansion of			
K315 CP10 Ci-Chanhassen	Development outside MUSA	Land Use	General policy	commercial and industrial facilities in this area.			Development
				commercial and industrial facilities in this area. The city recognizes the importance of its natural environment to the quality of			· ·
K316 CP10 Ci-Chanhassen	Importance of natural environment	Resource Preservation	General goal	commercial and industrial facilities in this area. The city recognizes the importance of its natural environment to the quality of life for its citizens and the need to protect and enhance these resources.			Natural Resource Protection
K316 CP10 Ci-Chanhassen K317 CP10 Ci-Chanhassen	Importance of natural environment Slopes	Resource Preservation Resource Preservation	General goal General policy	commercial and industrial facilities in this area. The city recognizes the importance of its natural environment to the quality of life for its citizens and the need to protect and enhance these resources. Preserve natural slopes wherever possible.			Natural Resource Protection Natural Resource Protection
K316 CP10 Ci-Chanhassen	Importance of natural environment	Resource Preservation	General goal General policy	commercial and industrial facilities in this area. The city recognizes the importance of its natural environment to the quality of life for its citizens and the need to protect and enhance these resources. Preserve natural slopes wherever possible. Seek to connect natural areas whenever possible.			Natural Resource Protection
K316 CP10 Ci-Chanhassen K317 CP10 Ci-Chanhassen K318 CP10 Ci-Chanhassen	Importance of natural environment Slopes Natural area connection	Resource Preservation Resource Preservation Resource Preservation	General goal General policy General policy	commercial and industrial facilities in this area. The city recognizes the importance of its natural environment to the quality of life for its citizens and the need to protect and enhance these resources. Preserve natural slopes wherever possible. Seek to connect natural areas whenever possible. Preserve wooded areas, plant communities and native habitat whenever			Natural Resource Protection Natural Resource Protection Corridors
K316 CP10 Ci-Chanhassen K317 CP10 Ci-Chanhassen K318 CP10 Ci-Chanhassen K319 CP10 Ci-Chanhassen	Importance of natural environment Slopes Natural area connection Preserve natural features	Resource Preservation Resource Preservation Resource Preservation Resource Preservation	General goal General policy General policy General policy	commercial and industrial facilities in this area. The city recognizes the importance of its natural environment to the quality of life for its citizens and the need to protect and enhance these resources. Preserve natural slopes wherever possible. Seek to connect natural areas whenever possible. Preserve wooded areas, plant communities and native habitat whenever possible.			Natural Resource Protection Natural Resource Protection Corridors Vegetation
K316 CP10 Ci-Chanhassen K317 CP10 Ci-Chanhassen K318 CP10 Ci-Chanhassen	Importance of natural environment Slopes Natural area connection	Resource Preservation Resource Preservation Resource Preservation	General goal General policy General policy General policy	commercial and industrial facilities in this area. The city recognizes the importance of its natural environment to the quality of life for its citizens and the need to protect and enhance these resources. Preserve natural slopes wherever possible. Seek to connect natural areas whenever possible. Preserve wooded areas, plant communities and native habitat whenever possible. Improve Understanding of Groundwater Resources			Natural Resource Protection Natural Resource Protection Corridors
K316 CP10 Ci-Chanhassen K317 CP10 Ci-Chanhassen K318 CP10 Ci-Chanhassen K319 CP10 Ci-Chanhassen K32 CP1 Scott	Importance of natural environment Slopes Natural area connection Preserve natural features Improve understanding	Resource Preservation Resource Preservation Resource Preservation Resource Preservation Groundwater Management	General goal General policy General policy General policy Specific Action	commercial and industrial facilities in this area. The city recognizes the importance of its natural environment to the quality of life for its citizens and the need to protect and enhance these resources. Preserve natural slopes wherever possible. Preserve natural areas whenever possible. Preserve natural areas whenever possible. Preserve natural areas unknewer possible. Improve Understanding of Groundwater Resources Improve Understanding of Groundwater Resources to improve knowledge and Provide information and educational resources to improve knowledge and			Natural Resource Protection Natural Resource Protection Corridors Vegetation Groundwater
K316 CP10 Ci-Chanhassen K317 CP10 Ci-Chanhassen K318 CP10 Ci-Chanhassen K319 CP10 Ci-Chanhassen	Importance of natural environment Slopes Natural area connection Preserve natural features	Resource Preservation Resource Preservation Resource Preservation Resource Preservation	General goal General policy General policy General policy	commercial and industrial facilities in this area. The city recognizes the importance of its natural environment to the quality of life for its citizens and the need to protect and enhance these resources. Preserve natural slopes wherever possible. Seek to connect natural areas whenever possible. Preserve wooded areas, plant communities and native habitat whenever possible. Improve Understanding of Groundwater Resources			Natural Resource Protection Natural Resource Protection Corridors Vegetation
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K316 CP10 Ci-Chanhassen K317 CP10 Ci-Chanhassen K318 CP10 Ci-Chanhassen K319 CP10 Ci-Chanhassen K32 CP1 Scott	Importance of natural environment Slopes Natural area connection Preserve natural features Improve understanding	Resource Preservation Resource Preservation Resource Preservation Resource Preservation Groundwater Management	General goal General policy General policy General policy Specific Action	commercial and industrial facilities in this area. The city recognizes the importance of its natural environment to the quality of life for its citizens and the need to protect and enhance these resources. Preserve natural slopes wherever possible. Seek to connect natural areas whenever possible. Preserve wooded areas, plant communities and native habitat whenever possible. Improve Understanding of Groundwater Resources Provide information and educational resources to improve knowledge and promote an active public role in the management of natural resources. Identify and provide Information on invasive species on public and private lands. Revise city ordinance to include non-herbaceous and/or non-terrestrial invasive species as identified by the State.		Y	Natural Resource Protection Natural Resource Protection Corridors Vegetation Groundwater
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K331 CP10 Ci-Chanhassen		Resource Preservation	General goal	Preserve and protect a variety of natural environments.	Natural Resource Protection
				Continue to work with the Riley-Purgatory-Bluff Creek Watershed District in	
				implementing the Bluff Creek Natural Resource Plan. Use the plan to guide	
K332 CP10 Ci-Chanhassen	Bluff Creek Natural Resource Plan	Resource Preservation	Specific policy	future development in protecting natural resources in the Creek corridor.	Corridors
				Seek to connect greenways throughout the city, Identify possible connections	
K333 CP10 Ci-Chanhassen	Connect greenways	Resource Preservation	Specific policy	that can be made at the time of development.	Corridors
K334 CP10 Ci-Chanhassen	Urban forest	Resource Preservation	General goal	Maintain a healthy and diverse urban forest.	Vegetation
Koo4 er 10 er endimessen	orbarrorest	Resource reservation	General Sour	Restore, protect and improve natural communities through proper	repetation
K335 CP10 Ci-Chanhassen	Use of proper management techniques	Deserves Deservesting	General goal	management techniques.	Natural Resource Protection
K335 CP10 CI-Channassen	ose of proper management techniques	Resource Preservation	General goal		Natural Resource Protection
				Identify significant wooded areas to protect. Preserve areas by means of	
				development restrictions, density transfers, preservation easements, purchase	
K336 CP10 Ci-Chanhassen	Wooded areas	Resource Preservation	Specific policy	or other methods.	High value easements
				Develop Natural Resources Stewardship Plan that would identify, prioritize and	
K337 CP10 Ci-Chanhassen	Public natural areas	Resource Restoration	Specific policy	recommend restoration and management strategies for all public natural areas	Natural Resource Protection
				Preserve existing landscape features, such as pond plants, standing dead trees	
K338 CP10 Ci-Chanhassen	Preserve existing natural features	Resource Preservation	Specific policy	and downed trees, in natural communities.	Vegetation
	Endangered species and pollinator		4	Protect areas identified as endangered species habitat. Increase public land	
K339 CP10 Ci-Chanhassen	habitat	Resource Preservation	Specific policy	areas for pollinator habitat.	Natural Resource Protection
R555 CF10 CFCHdHHd55CH		Resource reservation	specific policy	Manage new development and drainage alterations to prevent increases in	Hardian Resource Protection
K34 CP1 Scott	Prevent increases in flooding	Flood Management	Specific Action	flood flows and downstream impacts	Flood
K340 CP10 Ci-Chanhassen	resiliency planning	Climate Change	General goal	Encourage resiliency planning that mitigates and adapts to climate changes X	Floou
K340 CP10 CI-Channassen	resiliency planning	Climate Change	General goal		
				Develop Best Management Strategies to help plan for weather-related impacts	
K341 CP10 Ci-Chanhassen	Best management strategies	Climate Change	Specific policy	to our community. X	
K342 CP10 Ci-Chanhassen	GreenStep city	Climate Change	Specific policy	Become certified as a GreenStep City	Open and Green
				Maintain a comprehensive and easily navigable trail and sidewalk system that	
				connects neighborhoods to park and recreation facilities, schools, community	
K343 CP10 Ci-Chanhassen		Parks and Open spaces	General goal	destinations and other communities.	Trails
				Collaborate with local and regional agencies on the establishment of regional	
K344 CP10 Ci-Chanhassen	Regional trails	Parks and Open spaces	Specific policy	trails	Cooperation
	•	a series approved			
				Partner with surrounding communities to create inter-community trail	
				contections that enable users to travel to surrounding communities and	
K345 CP10 Ci-Chanhassen	inter-community trail connections	Parks and Open spaces	Specific policy	regional trails without having to 'jump' between different trails and sidewalks.	Cooperation
	Environmental sustainability			regional trans without having to jump between uniterinit trans and studewarks. Be a leader in environmental sustainability. X	Cooperation
K346 CP10 Ci-Chanhassen	Natural area preservation	Parks and Open spaces	General goal		
K347 CP10 Ci-Chanhassen		Parks and Open spaces	Specific policy	Preserve remaining natural areas as opportunities arise	Natural Resource Protection
K348 CP10 Ci-Chanhassen	Turf to native plantings	Parks and Open spaces	Specific policy	Explore opportunities to convert existing turf areas to native plantings	Vegetation
				Reduce impacts on lakes, waterways and groundwater by incorporating	
K349 CP10 Ci-Chanhassen	incorporate stormwater BMPs	Parks and Open spaces	Specific policy	stormwater best practices in park and facility design. Y	Stormwater Groundwater
K35 CP1 Scott	maintenance of drainage systems	Flood Management	Specific Action	Promote and ensure maintenance of drainage and stormwater systems Y	Stormwater Flood
				The city should maintain these greenways and natural areas for native plant	
				and animal habitats. The city should also set a goal to limit fragmentation of	
K350 CP10 Ci-Chanhassen	Fragmentation of natural areas	Green Corridors	Specific policy	natural areas and maintain green corridors that connect open space.	Corridors
				The city should reassess what measures could be taken during development to	
K2E1 CB10 Ci Chambaccon	Compaction	Fracion and Runoff	Enocific goal	protect soils from compaction in the first place and rebuilding it when the	Endiment Eracion
K351 CP10 Ci-Chanhassen	Compaction	Erosion and Runoff	Specific goal	protect soils from compaction in the first place and rebuilding it when the protection isn't enough.	Sediment.Erosion
K352 CP10 Ci-Chanhassen	Bluff Creek Corridor preservation	Resource Preservation	Specific action	protect solis from compaction in the first place and rebuilding it when the protection isn't enough. Continue to preserve sensitive lands within the Bluff Creek Corridor Y	Unique.Sensitive.h Corridors
K352 CP10 Ci-Chanhassen K353 CP10 Ci-Chanhassen	Bluff Creek Corridor preservation Seminary Fen	Resource Preservation Resource Preservation	Specific action Specific action	protect soils from compaction in the first place and rebuilding it when the protection isn't enough. Continue to preserve sensitive lands within the Bluff Creek Corridor Y Collaborate with other agencies to protect the Seminary Fen Y	Unique.Sensitive.h Corridors Cooperation Trout.Fen
K352 CP10 Ci-Chanhassen K353 CP10 Ci-Chanhassen K354 CP10 Ci-Chanhassen	Bluff Creek Corridor preservation Seminary Fen Minnesota River Valley	Resource Preservation Resource Preservation Resource Preservation	Specific action Specific action Specific action	protect solis from compaction in the first place and rebuilding it when the protection is not reough. Continue to preserve sensitive lands within the Bluff Creek Corridor Y Collaborate with other agencies to protect the Seminary Fen Y Collaborate with other agencies to protect the Minnesota River Valley	Unique.Sensitive.h Corridors Cooperation Trout.Fen Cooperation
K352 CP10 Ci-Chanhassen K353 CP10 Ci-Chanhassen	Bluff Creek Corridor preservation Seminary Fen Minnesota River Valley Management Plan	Resource Preservation Resource Preservation	Specific action Specific action	protect solis from compaction in the first place and rebuilding it when the protection isn't enough. Yes a solitable solitabl	Unique.Sensitive.h Corridors Cooperation Trout.Fen
K352CP10Ci-ChanhassenK353CP10Ci-ChanhassenK354CP10Ci-ChanhassenK355CP10Ci-Chanhassen	Bluff Creek Corridor preservation Seminary Fen Minnesota River Valley Management Plan reopen Minnesota River Bluff LRT	Resource Preservation Resource Preservation Resource Preservation Resource Preservation	Specific action Specific action Specific action Specific action	protect soils from compaction in the first place and rebuilding it when the protection isn't enough. Yes a solution of the Bluff Creek Corridor Yes Collaborate with other agencies to protect the Seminary Fen Yes Collaborate with other agencies to protect the Minnesota River Valley Develop natural resource management plan > Work with partner agencies to reopen Minnesota River Bluff LRT Regional	Unique Sensitive.h Corridors Cooperation Cooperation Natural Resource Protection
K352 CP10 CI-Chanhassen K353 CP10 CI-Chanhassen K354 CP10 CI-Chanhassen K355 CP10 CI-Chanhassen K356 CP10 CI-Chanhassen	Bluff Creek Corridor preservation Seminary Fen Minnesota River Valley Management Plan reopen Minnesota River Bluff LRT Regional Trail	Resource Preservation Resource Preservation Resource Preservation Resource Preservation Parks and Trails	Specific action Specific action Specific action Specific action Specific action	protect solis from compaction in the first place and rebuilding it when the protection isn't enough. Y Continue to preserve sensitive lands within the Bluff Creek Corridor Y Collaborate with other agencies to protect the Seminary Fen Y Collaborate with other agencies to protect the Minnesota River Valley Develop natural resource management plan > Work with partner agencies to reopen Minnesota River Bluff LRT Regional Trail	Unique.Sensitive.h Corridors Cooperation Trout.Fen Cooperation Natural Resource Protection Increase River Use
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K352 CP10 Ci-Chanhassen K353 CP10 Ci-Chanhassen K354 CP10 Ci-Chanhassen K355 CP10 Ci-Chanhassen K355 CP10 Ci-Chanhassen K356 CP10 Ci-Chanhassen K357 CP10 Ci-Chanhassen K358 MP4 Chaska SW K350 MP4 Chaska SW K361 MP4 Chaska SW K361 MP4 Chaska SW K362 MP4 Chaska SW K363 MP4 Chaska SW K364 MP4 Chaska SW K365 MP4 Chaska SW K366 MP4 Chaska SW K366 MP4 Chaska SW K367 MP4 Chaska SW K368 MP4 Chaska SW K367 MP4 Chaska SW K368 MP4 Chaska SW K369 MP4 Chaska SW	Bluff Creek Corridor preservation Seminary Fen Minnesota River Valley Management Plan reopen Minnesota River Bluff LRT Regional Trail Minnesota River trail Preserve natural systems Correct problems Minnize fooding risk with regional approach Surface and groundwater quality Uniform policies and controls Erosion prevention Groundwater recharge Protect and enhance Secure other benefitls Improve water quality Review developments to ensure antidegradation Trout water temperatures retrofit treatment address cross jurisdictional flooding	Resource Preservation Resource Preservation Resource Preservation Resource Preservation Parks and Trails Parks and Trails Groundwater Flooding and water quality Flood Management Water quality Water management Erosion Groundwater Habitat and recreation Water quality Water quality Water quality Erosion Groundwater Habitat and recreation Water quality Development Stormwater	Specific action Specific action Specific action Specific action Specific action Specific action General goal General goal Specific policy	protect solis from compaction in the first place and rebuilding it when the protection is recough. Continue to preserve sensitive lands within the Bluff Creek Corridor Y Collaborate with other agencies to protect the Seminary Fen Y Collaborate with other agencies to protect the Minnesota River Valley Develop natural resource management plan	Unique.Sensitive.h Corridors Cooperation Trout.Fen Cooperation Natural Resource Protection Increase River Use Increase River Use Groundwater Flood Stormwater Flood Groundwater Sediment.Erosion Groundwater Natural Resource Protection Stormwater Stormwater Development Stormwater Trout.Fen Stormwater

				The City will promote stormwater infiltration where feasible to reduce runoff			
K371 MP4 Chaska SW	Stormwater infiltration	Stormwater Si	Specific policy	volume and increase groundwater recharge	v	Stormwater	Groundwater
KS71 WIP4 Cliaska SW	Stornwater minitiation	Stoffiwater 5	specific policy	The City will participate in the TMDL Studies of impaired waters within the City	1	Stornwater	Groundwater
				and adopt and enforce all requirements determined necessary to meet TMDLs			
K372 MP4 Chaska SW	Impaired waters	TMDL and impaired waters S	Specific policy	applicable to the City.		Impaired.TMDL	
				Prevent flooding from surface flows while reducing, to the greatest extent			
				practicable, the public capital expenditures necessary to control excessive			
K373 MP4 Chaska SW	Prevent flooding	Flooding and stormwater G	General goal	volumes and rates of runoff.	Y	Stormwater	Flood
				Trunk storm sewers that serve as elements of the trunk system shall be			
				designed with capacity for 100-year ponded outflows plus 10-year directly			
				connected flows. Channels and ravines that serve as elements of the trunk			
				system shall be designed with capacity for 100-year ponded outflows plus 100-			
				year directly connected flows. The City's freeboard requirements are applied to			
K374 MP4 Chaska SW	Trunk storm sewer capacity	Stormwater S	Specific policy	the 100-year elevations of these channels and ravines.	Y	Stormwater	Steep slopes
				In addition to the 10-year and 100-year ponded flow primary capacity, the			
				conveyance system shall provide capacity in excess of the 100-year event in the			
				form of overland overflow routes or adequate surface storage volume. This			
	Overland overflow routes and surface			surface storage volume consists of storage in street low points, within ditches,			
K375 MP4 Chaska SW	storage volume	Stormwater S	Specific policy	or in other transient ponding areas.		Stormwater	
				Detention ponds must be designed with capacity for the critical 100-year event.			
				At a minimum, detention ponds must maintain existing flow rates for the 2-, 10-			
				, and 100-year critical events. Definition: The 100-year critical event is the 100-			
				year event that produces the highest water level among the 24-hour, 7.3-inch			
K376 MP4 Chaska SW	Detention ponds	Stormwater S	Specific policy	rainfall event or the 10-day, 7.2-inch snowmelt runoff event.		Stormwater	
	•						
				The net 100-year peak flow per acres from new development and			
				redevelopment areas must meet the calculated City average of 0.2 cfs/acres.			
	Peak flow from new and redevelopment			Alternative standards may be required by the City Engineer in areas where this			
K377 MP4 Chaska SW	areas	Stormwater S	Specific policy	requirement may warrant a lesser (or higher) standard for resource protection.	Y	Stormwater	Development
	All drainage system designs shall						
	incorporate the entire area tributary to			All drainage system designs shall incorporate the entire area tributary to the			
K378 MP4 Chaska SW	the system.	Stormwater S	Specific policy			Stormwater	
	All drainage regional system analyses and	d					
	designs shall be based on proposed full			All drainage regional system analyses and designs shall be based on proposed			
K379 MP4 Chaska SW	development land use patterns.	Stormwater S	Specific policy	full development land use patterns.	Y	Stormwater	Development
K38 CP1 Scott	Improve understanding			Improve understanding of flooding risks		Flood	
	· · · · ·			· • •			
				All drainage studies or feasibility studies, whether by a watershed organization			
				or municipality, leading to projects in a subwatershed with an intercommunity			
	drainage or feasibility studies to conside	r		drainage issue, shall consider the impact of the project on the entire watershed			
K380 MP4 Chaska SW	entire watershed impact		Specific policy	area and shall consider the total intercommunity project cost.	x		
				Except in emergencies, no solutions or partial solutions to intercommunity			
				Except in emergencies, no solutions or partial solutions to intercommunity drainage issues shall be implemented without prior completion of a feasibility			
				drainage issues shall be implemented without prior completion of a feasibility			
K381 MP4 Chaska SW	intercommunity drainage issues	intercommunity drainage Si	Specific policy	drainage issues shall be implemented without prior completion of a feasibility study of options and adoption of a preferred option by the applicable watershed organization(s).	x		
K381 MP4 Chaska SW	intercommunity drainage issues	intercommunity drainage S	Specific policy	drainage issues shall be implemented without prior completion of a feasibility study of options and adoption of a preferred option by the applicable	x		
K381 MP4 Chaska SW	intercommunity drainage issues	intercommunity drainage S	Specific policy	drainage issues shall be implemented without prior completion of a feasibility study of options and adoption of a preferred option by the applicable watershed organization(s).	x		
K381 MP4 Chaska SW	intercommunity drainage issues	intercommunity drainage S	Specific policy	drainage issues shall be implemented without prior completion of a feasibility study of options and adoption of a preferred option by the applicable watershed organization(s). ? For ponds with a suitable outlet, freeboard will be 2 feet above the HWL,	x		
K381 MP4 Chaska SW	intercommunity drainage issues			drainage issues shall be implemented without prior completion of a feasibility study of options and adoption of a preferred option by the applicable watershed organization(s). 2 For ponds with a suitable outlet, freeboard will be 2 feet above the HWL, determined by modeling the 100-year critical event. Emergency overflows must	x	Stormwater	
				drainage issues shall be implemented without prior completion of a feasibility study of options and adoption of a preferred option by the applicable watershed organization(5). 2 For ponds with a suitable outlet, freeboard will be 2 feet above the HWL, determined by modeling the 100-year critical event. Emergency overflows must be a minimum of 1 foot below the lowest ground elevation adjacent to a	x	Stormwater	
		Stormwater ponds S		drainage issues shall be implemented without prior completion of a feasibility study of options and adoption of a preferred option by the applicable watershed organization(5). 2 For ponds with a suitable outlet, freeboard will be 2 feet above the HWL, determined by modeling the 100-year critical event. Emergency overflows must be a minimum of 1 foot below the lowest ground elevation adjacent to a structure. Adjacent to channels, creeks, and ravines, freeboard will be 2 feet to the 100- year critical event elevation.	x 	Stormwater Stormwater	Steep slopes
K382 MP4 Chaska SW	Freeboard placement	Stormwater ponds S	Specific policy	drainage issues shall be implemented without prior completion of a feasibility study of options and adoption of a preferred option by the applicable watershed organization(s). 2 For ponds with a suitable outlet, freeboard will be 2 feet above the HWL, determined by modeling the 100-year critical event. Emergency overflows must be a minimum of 1 foot below the lowest ground elevation adjacent to a structure. Adjacent to channels, creeks, and ravines, freeboard will be 2 feet to the 100- year critical event elevation. Development and redevelopment projects must not exceed existing rates of	X Y		Steep slopes
K382 MP4 Chaska SW	Freeboard placement	Stormwater ponds S	Specific policy	drainage issues shall be implemented without prior completion of a feasibility study of options and adoption of a preferred option by the applicable watershed organization(5). 2 For ponds with a suitable outlet, freeboard will be 2 feet above the HWL, determined by modeling the 100-year critical event. Emergency overflows must be a minimum of 1 foot below the lowest ground elevation adjacent to a structure. Adjacent to channels, creeks, and ravines, freeboard will be 2 feet to the 100- year critical event elevation.	х у		Steep slopes
K382 MP4 Chaska SW K383 MP4 Chaska SW	Freeboard placement Freeboard placement Development and redevelopment	Stormwater ponds S	Specific policy	drainage issues shall be implemented without prior completion of a feasibility study of options and adoption of a preferred option by the applicable watershed organization(s). 2 For ponds with a suitable outlet, freeboard will be 2 feet above the HWL, determined by modeling the 100-year critical event. Emergency overflows must be a minimum of 1 foot below the lowest ground elevation adjacent to a structure. Adjacent to channels, creeks, and ravines, freeboard will be 2 feet to the 100- year critical event elevation. Development and redevelopment projects must not exceed existing rates of discharge for the 2, 10, and 100-year events. Wherever feasible, the City will look for reductions over existing discharge rates for development and	х у		Steep slopes
K382 MP4 Chaska SW	Freeboard placement Freeboard placement	Stormwater ponds Si Stormwater ponds Si	Specific policy	drainage issues shall be implemented without prior completion of a feasibility study of options and adoption of a preferred option by the applicable watershed organization(5). 2 For ponds with a suitable outlet, freeboard will be 2 feet above the HWL, determined by modeling the 100-year critical event. Emergency overflows must be a minimum of 1 foot below the lowest ground elevation adjacent to a structure. Adjacent to channels, creeks, and ravines, freeboard will be 2 feet to the 100- year critical event elevation. Development and redevelopment projects must not exceed existing rates of discharge for the 2-, 10-, and 100-year events. Wherever feasible, the City will look for reductions over existing discharge rates for development and redevelopment projects.	х 		Steep slopes
K382 MP4 Chaska SW K383 MP4 Chaska SW	Freeboard placement Freeboard placement Development and redevelopment	Stormwater ponds Si Stormwater ponds Si	Specific policy	drainage issues shall be implemented without prior completion of a feasibility study of options and adoption of a preferred option by the applicable watershed organization(s). 2 For ponds with a suitable outlet, freeboard will be 2 feet above the HWL, determined by modeling the 100-year critical event. Emergency overflows must be a minimum of 1 foot below the lowest ground elevation adjacent to a structure. Adjacent to channels, creeks, and ravines, freeboard will be 2 feet to the 100- year critical event elevation. Development and redevelopment projects must not exceed existing rates of discharge for the 2-, 10-, and 100 year events. Wherever feasible, the City will look for reductions over existing discharge rates for development and redevelopment projects. The City will review developments and manage its stormwater system so that	X Y Y	Stormwater	
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K382 MP4 Chaska SW K383 MP4 Chaska SW K384 MP4 Chaska SW	Freeboard placement Freeboard placement Development and redevelopment discharge rates	Stormwater ponds S Stormwater ponds S Stormwater S	Specific policy Specific policy Specific policy	drainage issues shall be implemented without prior completion of a feasibility study of options and adoption of a preferred option by the applicable watershed organization(s). 2 For ponds with a suitable outlet, freeboard will be 2 feet above the HWL, determined by modeling the 100-year critical event. Emergency overflows must be a minimum of 1 foot below the lowest ground elevation adjacent to a structure. Adjacent to channels, creeks, and ravines, freeboard will be 2 feet to the 100- year critical event elevation. Development and redevelopment projects must not exceed existing rates of discharge for the 2, 10, and 100-year events. Wherever feasible, the City will look for reductions over existing discharge rates for development and redevelopment projects. The City will review developments and manage its stormwater system so that development, redevelopment, and other infrastructure projects do not overtax the existing downstream stormwater system.	X Y Y	Stormwater Stormwater	
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K382 MP4 Chaska SW K383 MP4 Chaska SW K384 MP4 Chaska SW K385 MP4 Chaska SW	Freeboard placement Freeboard placement Development and redevelopment discharge rates Downstream stormwater system	Stormwater ponds S Stormwater ponds S Stormwater S Stormwater S	Specific policy Specific policy Specific policy Specific policy	drainage issues shall be implemented without prior completion of a feasibility study of options and adoption of a preferred option by the applicable watershed organization(s). 2 For ponds with a suitable outlet, freeboard will be 2 feet above the HWL, determined by modeling the 100-year critical event. Emergency overflows must be a minimum of 1 foot below the lowest ground elevation adjacent to a structure. Adjacent to channels, creeks, and ravines, freeboard will be 2 feet to the 100- year critical event elevation. Development and redevelopment projects must not exceed existing rates of discharge for the 2, 10, and 100-year events. Wherever feasible, the City will look for reductions over existing discharge rates for development and redevelopment projects. The City will review developments and manage its stormwater system so that development, redevelopment, and other infrastructure projects do not overtax the existing downstream stormwater system. Wetlands and waterbodies identified on the system maps, included as Appendic G, will be protected according to standards and requirements outlined in this USMMP and according to other applicable local, state, and federal regulations The use of BMPs will be required to help minimize pollutants in stormwater runoff. The City has adopted the CCWMO rules and policies regarding	X Y Y	Stormwater Stormwater Stormwater	
K382 MP4 Chaska SW K383 MP4 Chaska SW K384 MP4 Chaska SW K385 MP4 Chaska SW	Freeboard placement Freeboard placement Development and redevelopment discharge rates Downstream stormwater system	Stormwater ponds S Stormwater ponds S Stormwater S Stormwater S	Specific policy Specific policy Specific policy Specific policy	drainage issues shall be implemented without prior completion of a feasibility study of options and adoption of a preferred option by the applicable watershed organization(s). 2 For ponds with a suitable outlet, freeboard will be 2 feet above the HWL, determined by modeling the 100-year critical event. Emergency overflows must be a minimum of 1 foot below the lowest ground elevation adjacent to a structure. Adjacent to channels, creeks, and ravines, freeboard will be 2 feet to the 100- year critical event elevation. Development and redevelopment projects must not exceed existing rates of discharge for the 2, 10, and 100 year events. Wherever feasible, the City will look for reductions over existing discharge rates for development and redevelopment projects. The City will review developments and manage its stormwater system so that development, redevelopment, and other infrastructure projects do not overtax the existing downstream stormwater system. Wetlands and waterbodies identified on the system maps, included as Appendix G, will be protected according to standards and requirements outlined in this LSWMP and according to tert applicable local, state, and federal regulations The use of BMPS will be required to help minimize pollutants in stormwater	X Y Y	Stormwater Stormwater Stormwater	
K382 MP4 Chaska SW K383 MP4 Chaska SW K384 MP4 Chaska SW K385 MP4 Chaska SW	Freeboard placement Freeboard placement Development and redevelopment discharge rates Downstream stormwater system	Stormwater ponds S Stormwater ponds S Stormwater S Stormwater S	Specific policy Specific policy Specific policy Specific policy	drainage issues shall be implemented without prior completion of a feasibility study of options and adoption of a preferred option by the applicable watershed organization(s). 2 For ponds with a suitable outlet, freeboard will be 2 feet above the HWL, determined by modeling the 100-year critical event. Emergency overflows must be a minimum of 1 foot below the lowest ground elevation adjacent to a structure. Adjacent to channels, creeks, and ravines, freeboard will be 2 feet to the 100- year critical event elevation. Development and redevelopment projects must not exceed existing rates of discharge for the 2, 10, and 100-year events. Wherever feasible, the City will look for reductions over existing discharge rates for development and redevelopment projects. The City will review developments and manage its stormwater system so that development, redevelopment, and other infrastructure projects do not overtax the existing downstream stormwater system. Wetlands and waterbodies identified on the system maps, included as Appendic G, will be protected according to standards and requirements outlined in this USMMP and according to other applicable local, state, and federal regulations The use of BMPs will be required to help minimize pollutants in stormwater runoff. The City has adopted the CCWMO rules and policies regarding	X Y Y	Stormwater Stormwater Stormwater	
K382 MP4 Chaska SW K383 MP4 Chaska SW K384 MP4 Chaska SW K385 MP4 Chaska SW	Freeboard placement Freeboard placement Development and redevelopment discharge rates Downstream stormwater system	Stormwater ponds S Stormwater ponds S Stormwater S Stormwater S Wetlands S	Specific policy Specific policy Specific policy Specific policy Specific policy	drainage issues shall be implemented without prior completion of a feasibility study of options and adoption of a preferred option by the applicable watershed organization(s). 2 For ponds with a suitable outlet, freeboard will be 2 feet above the HWL, determined by modeling the 100-year critical event. Temregency overflows must be a minimum of 1 foot below the lowest ground elevation adjacent to a structure. Adjacent to channels, creeks, and ravines, freeboard will be 2 feet to the 100- year critical event elevation. Development and redevelopment projects must not exceed existing rates of discharge for the 2, 10, and 100-year events. Wherever feasible, the City will look for reductions over existing discharge rates for development and redevelopment projects. The City will review developments and manage its stormwater system so that development, redevelopments, and other infrastructure projects do not overtax the existing downstream stormwater system. Wetlands and waterbodies identified on the system maps, included as Appendis G, will be protected according to standards and requirements outlined in this LSWMP and according to standards and requirements outlined in this LSWMP and according to standards and requirements outlined in this LSWMP and according to other applicable local, state, and federal regulations The use of BMPs will be required to help minimize pollutants in stormwater runoff. The City has adopted the CCWMO rules and policies regarding controlling construction site runoff Control and waste management for all	X Y Y	Stormwater Stormwater Stormwater	
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				Runoff abstraction (infiltration, evapotranspiration, capture and reuse) and	
				minimization of impervious surfaces should be considered in all projects that	
				involve stormwater management. The City will endeavor to obtain as much	
K389 MP4 Chaska SW				infiltration as possible from existing impervious surfaces when these are	
K389 MP4 Chaska SW	Runoff abstraction	Stormwater S	Specific policy	included in a project where infiltration is required. Foster on-going communication and coordination with other agencies and	Stormwater
K39 CP1 Scott	Lack of coordination	Optimize Public Investment	Specific Action	roster or going communication and coordination with other agencies and jurisdictions	Cooperation
K39 CF1 3000		Optimize Public Investment	Specific Action	Newly constructed ponds shall include an outlet design allowing for extended	Cooperation
				detention of the 1- to 5-year rainfall event. The modeled hydrograph duration	
				for pond discharge should extend a minimum of 24 hours for events within the	
K390 MP4 Chaska SW	New pond design	Stormwater ponds 5	Specific policy	1- to 5-year range.	Stormwater
				Outlet skimming will be required in all ponds. Pond outlet structures shall be	
				designed to provide skimming up to the calculated peak water level using a 10-	
				year, 24-hour event. Policy 3.7: The City will share water quality data and	
				analysis with watershed management organizations (WMOs), watershed	
				districts, and other cities. Policy 3.8: Water quality retrofits in areas with no	
K391 MP4 Chaska SW	Outlet skimming	Stormwater ponds	Canality	current water quality treatment will be performed in conjunction with redevelopment and City restoration projects, as appropriate.	Stormwater
K351 WP4 Cliaska SW	Outlet skinning	stornwater ponds	specific policy	The neighborhood and regional benefits to wildlife habitat and aesthetics	Storniwater
				should be considered in any proposal to alter or eliminate wetlands,	
				understanding that wetland elimination without mitigation is precluded by	
				state law and understanding that even mitigated wetland impacts must meet	
K392 MP4 Chaska SW	Wetland alteration	Habitat and recreation	Specific policy	strict sequencing guidelines.	Wetlands
				The City will seek to coordinate with the MnDNR regarding development of	
				MnDNR public waters and public water wetlands. Notwithstanding ordinance	
				provisions, both existing and future, that control development of shoreland	
				areas, the City will seek MnDNR comments on development proposals adjacent	
K393 MP4 Chaska SW	Coordination with MnDNR	Development of water and wetlan	Specific policy	to MnDNR public waters and public water wetlands	Development
				Water resources shall be maintained in such a manner as to preserve or restore their intrinsic aesthetic gualities and wildlife habitat. Policy 4.5 Water	
	Preserve or restore aesthetics and			their intrinsic aesthetic qualities and wildlife habitat. Policy 4.5 Water resources impacted for recreation and fish and wildlife habitat shall be restored	
K394 MP4 Chaska SW	Preserve or restore aesthetics and habitat	Habitat and recreation	Specific policy	resources impacted for recreation and fish and wildlife habitat shall be restored when feasible	Natural Resource Protection
K354 IVIP4 Cliaska SW	liabitat	Habitat and recreation 5	specific policy	writer reasone. Provide information and education either directly or in cooperation with other	Natural Resource Protection
				entities concerning urban stormwater management and the problems	
				pollutants cause if allowed to enter into our water resources for all	
				stakeholders, including City Staff, City Council, Planning Commission,	
K395 MP4 Chaska SW	Stormwater education	Stormwater education Stormwater education	Specific goal	developers, and the public. Y	Stormwater Cooperation
				Enact an education program based on the following objectives to reduce	
				stormwater pollution: 1. Raise awareness of the problem and solutions; 2.	
				Promote community stewardship of the lakes, creeks, and wetlands; 3.	
				Recognize responsible parties and actions to date; and 4. Merge feedback into	
K396 MP4 Chaska SW	Stormwater pollution education program	1 Stormwater education Stormwater education	Specific policy	program execution.	Stormwater
					Stoffiwater
				Cooperate with the WMOs and the Carver Soil and Water Conservation District	Stormwater
				Cooperate with the WMOs and the Carver Soil and Water Conservation District (SWCD) to broaden the amount of information and resources available for	Storniwater
	Cooperate with WMO's and SWCD to			Cooperate with the WMOs and the Carver Soll and Water Conservation District (SWCD) to broaden the amount of information and resources available for education. Each entity has valuable expertise on specific issues, such as erosion	
K397 MP4 Chaska SW				Cooperate with the WMOs and the Carver Soil and Water Conservation District (SWCD) to broaden the amount of information and resources available for education. Each entity has valuable expertise on specific issues, such as erosion and sediment control and river management issues. Y	Stormwater Sediment.Erosion Cooperation
K397 MP4 Chaska SW	Cooperate with WMO's and SWCD to	Stormwater education 5	Specific policy	Cooperate with the WMOs and the Carver Soll and Water Conservation District (SWCD) to broaden the amount of information and resources available for education. Each entity has valuable expertise on specific issues, such as erosion	
	Cooperate with WMO's and SWCD to enhance education	Stormwater education 5		Cooperate with the WMOs and the Carver Soil and Water Conservation District (SWCD) to broaden the amount of information and resources available for education. Each entity has valuable expertise on specific issues, such as erosion and sediment control and river management issues. Y Maintain and improve groundwater quality, promote groundwater recharge, and prevent flooding from subsurface flows. Y	Stormwater Sediment.Erosion Cooperation
K397 MP4 Chaska SW	Cooperate with WMO's and SWCD to enhance education	Stormwater education 5	Specific policy	Cooperate with the WMOs and the Carver Soll and Water Conservation District (SWCD) to broaden the amount of information and resources available for education. Each entity has valuable expertise on specific issues, such as erosion and sediment control and river management issues. Y Maintain and improve groundwater quality, promote groundwater recharge,	Stormwater Sediment.Erosion Cooperation
K397 MP4 Chaska SW K398 MP4 Chaska SW	Cooperate with WMO's and SWCD to enhance education	Stormwater education S Groundwater S	Specific policy	Cooperate with the WMOs and the Carver Soil and Water Conservation District (SWCD) to broaden the amount of information and resources available for education. Each entity has valuable expertise on specific issues, such as erosion and sediment control and river management issues. Y Maintain and improve groundwater quality, promote groundwater recharge, and prevent flooding from subsurface flows. Y To the extent that wellhead protection plans identify areas of groundwater	Stormwater Sediment.Erosion Cooperation Flood Groundwater
K397 MP4 Chaska SW	Cooperate with WMO's and SWCD to enhance education	Stormwater education Stormwater Stormwa	Specific policy Specific goal	Cooperate with the WMOs and the Carver Soll and Water Conservation District (SWCD) to broaden the amount of information and resources available for education. Each entity has valuable expertise on specific issues, such as erosion and sediment control and river management issues. Y Maintain and improve groundwater quality, promote groundwater recharge, and prevent flooding from subsurface flows. Y To the extent that wellhead protection plans identify areas of groundwater recharge that require protection, the City shall work with the Minnesota	Stormwater Sediment.Erosion Cooperation
K397 MP4 Chaska SW K398 MP4 Chaska SW	Cooperate with WMO's and SWCD to enhance education Groundwater	Stormwater education Stormwater Stormwa	Specific policy Specific goal	Cooperate with the WMOs and the Carver Soll and Water Conservation District (SWCD) to broaden the amount of information and resources available for education. Each entity has valuable expertise on specific issues, such as erosion and sediment control and river management issues. Y Maintain and improve groundwater quality, promote groundwater recharge, and prevent flooding from subsurface flows. Y To the extent that willnead protection plans identify areas of groundwater recharge that require protection, the City shall work with the Minnesota Department of Health (MDH) and neighboring communities in developing adequate protection measures. Y	Stormwater Sediment.Erosion Cooperation Flood Groundwater
K397 MP4 Chaska SW K398 MP4 Chaska SW	Cooperate with WMO's and SWCD to enhance education Groundwater	Stormwater education Stormwater Stormwa	Specific policy Specific goal	Cooperate with the WMOS and the Carver Soll and Water Conservation District (SWCD) to broaden the amount of information and resources available for education. Each entity has valuable expertise on specific issues, such as erosion and sediment control and river management issues. Y Maintain and improve groundwater quality, promote groundwater recharge, and prevent flooding from subsurface flows. Y To the extent that wellhead protection plans identify areas of groundwater recharge that require protection, the City shall work with the Minnesota Department of Health (MDH) and neighboring communities in developing adequate protection measures.	Stormwater Sediment.Erosion Cooperation Flood Groundwater
K397 MP4 Chaska SW K398 MP4 Chaska SW	Cooperate with WMO's and SWCD to enhance education Groundwater	Stormwater education Stormwater Stormwa	Specific policy Specific goal	Cooperate with the WMOs and the Carver Soll and Water Conservation District (SWCD) to broaden the amount of information and resources available for education. Each entity has valuable expertise on specific issues, such as erosion and sediment control and river management issues. Y Maintain and improve groundwater quality, promote groundwater recharge, and prevent flooding from subsurface flows. Y To the extent that wellhead protection plans identify areas of groundwater recharge that require protection, the City shall work with the Minnesota Department of Health (MDH) and neighboring communities in developing adequate protection measures. Agricultural land uses should be encouraged to utilize best management practices and observe conservation practices that prevent erosion and preserve	Stormwater Sediment.Erosion Cooperation Flood Groundwater
K397 MP4 Chaska SW K398 MP4 Chaska SW	Cooperate with WMO's and SWCD to enhance education Groundwater	Stormwater education Stormwater Stormwa	Specific policy Specific goal	Cooperate with the WMOS and the Carver Soil and Water Conservation District (SWCD) to broaden the amount of information and resources available for education. Each entity has valuable expertise on specific issues, such as erosion v and sediment control and river management issues. Y Maintain and improve groundwater quality, promote groundwater recharge, v and prevent flooding from subsurface flows. Y To the extent that wellhead protection plans identify areas of groundwater Y To the extent that wellhead protection plans identify areas of groundwater Y Department of Health (MDH) and neighboring communities in developing adequate protection measures. Agricultural land uses should be encouraged to utilize best management practices and observe conservation practices that prevent erosion and preserve natural resources. Resour. Agriculture is an intensive land use because it has Sintensive land use	Stormwater Sediment.Erosion Cooperation Flood Groundwater
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K397 MP4 Chaska SW K398 MP4 Chaska SW	Cooperate with WMO's and SWCD to enhance education Groundwater	Stormwater education Stormwater Stormwa	Specific policy Specific goal	Cooperate with the WMCs and the Carver Soll and Water Conservation District (SWCD) to broaden the amount of information and resources available for education. Each entity has valuable expertise on specific issues, such as erosion and sediment control and river management issues. Y Maintain and improve groundwater quality, promote groundwater recharge, and prevent flooding from subsurface flows. Y To the extent that wellhead protection plans identify areas of groundwater recharge that require protection, the City shall work with the Minesota Department of Health (MDH) and neighboring communities in developing adequate protection measures. Agricultural land uses should be encouraged to utilize best management practices and observe conservation practices that prevent erosion and preserve natural resources. Reason: Agriculture is a intensive land use because it has the potential for significant impacts on storm water conveyance systems, ground water resources and air quality. Agriculture is a necessary land use for	Stormwater Sediment.Erosion Cooperation Flood Groundwater
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K397 MP4 Chaska SW K398 MP4 Chaska SW K399 MP4 Chaska SW K4 CP1 Scott K40 CP1 Scott K400 MP4 Chaska SW K401 MP4 Chaska SW K402 MP4 Chaska SW	Cooperate with WMO's and SWCD to enhance education Groundwater Wellhead protection Agricultural practices Lack of collaboration vulnerable recharge areas Lake and wetland inventory and classification Share information	Stormwater education S Groundwater S Groundwater S Groundwater S Optimize Public Investment S Groundwater S Water quality S	Specific policy Specific goal Specific policy General goal Specific Action Specific policy Specific policy	Cooperate with the WMOs and the Carver Soll and Water Conservation District (SWCD) to broaden the amount of information and resources available for education. Each entity has valuable expertise on specific issues, such as erosion and sediment control and river management issues. Y Maintain and Improve groundwater quality, promote groundwater recharge, and prevent flooding from subsurface flows. Y To the extent that wellhead protection plans identify areas of groundwater recharge, dequate protection nearces. Y Agricultural land uses should be encouraged to utilize best management practices and observe conservation practices that prevent erosion and preserve natural resources. Reason: Agriculture is an intensive land use because it has the potential for significant impacts on storm water conveyance systems, ground water resources and air quality. Agriculture is a necessary land use for society but can be accompliched with reduced adverse impacts by adhering to recognized best management practices. Failure to do so can destroy the long- term productivity of the land and contaminate ground water resources for future generations, resulting in flooding, erosion problems, and air pollution. Y Promote disolarative discloared in probable recharge areas and areas of high vulnerability to chemical or petroleum spills shall be designed to promote groundwater protection. Practically, this means infiltration shall not be considered in developments that include the potential for these types of spills. The City will continue performing a phased inventory of its wetlands. Extension. The City will continue performing a phased inventory of its wetlands. Extens	Stormwater Sediment.Erosion Cooperation Flood Groundwater Groundwater
K397 MP4 Chaska SW K398 MP4 Chaska SW K399 MP4 Chaska SW K4 CP1 Scott K40 CP1 Scott K400 MP4 Chaska SW K401 MP4 Chaska SW K402 MP4 Chaska SW	Cooperate with WMO's and SWCD to enhance education Groundwater Wellhead protection Agricultural practices Lack of collaboration vulnerable recharge areas Lake and wetland inventory and classification Share information	Stormwater education S Groundwater S Groundwater S Groundwater S Optimize Public Investment S Groundwater S Water quality S	Specific policy Specific goal Specific policy General goal Specific Action Specific policy Specific policy	Cooperate with the WMOs and the Carver Soli and Water Conservation District (SWCD) to broaden the amount of information and resources available for education. Each entity has valuable expertise on specific issues, such as erosion and sevent floading from subsurface flows. Y To the exent that wellhead protection plans identify areas of groundwater recharge, Y and prevent floading from subsurface flows. Y To the exent that wellhead protection plans identify areas of groundwater Y recharge that require protection, the City shall work with the Minnesota Department of Health (MDH) and neighboring communities in developing adequate protection measures. Agricultural land uses should be encouraged to utilize best management practices and observe conservation practices that prevent erosion and preserve natural resources. Agricultural land uses should be encouraged to utilize best management recognized best management practices. Failure to do so can destroy the long- term productivity of the land and contaminate ground water resources for future generations, resulting in flooding, erosion problems, and air pollution. Y Formate collaborative decision making ground water protection. Fractically, this means infiltration shall not be considered in developments that include the potential for these types of spills. The cother will in dowing, erosion problems, and air pollution.	Stormwater Sediment.Erosion Cooperation Flood Groundwater Groundwater
K397 MP4 Chaska SW K398 MP4 Chaska SW K399 MP4 Chaska SW K399 MP4 Chaska SW K40 CP1 Scott K400 MP4 Chaska SW K400 MP4 Chaska SW K401 MP4 Chaska SW K402 MP4 Chaska SW K403 MP4 Chaska SW	Cooperate with WMO's and SWCD to enhance education Groundwater Wellhead protection Agricultural practices Lack of collaboration vulnerable recharge areas Lake and wetland inventory and classification Share information Wetland Conservation Act enforcement	Stormwater education Stormwater Groundwater Stormwater LAND USE AND GROWTH MANAG Optimize Public Investment Stormwater Groundwater Stormwater Water quality Water quality Wetlands	Specific policy Specific goal Specific policy General goal Specific Action Specific policy Specific policy Specific policy	Cooperate with the WMOs and the Carver Soll and Water Conservation District (SWCD) to broaden the amount of information and resources available for education. Each entity has valuable expertise on specific issues, such as erosion and sediment control and river management issues. Y Maintain and improve groundwater quality, promote groundwater recharge, and prevent flooding from subsurface flows. Y To the extent that wellhead protection plans identify areas of groundwater recharge, dequate protection, the City shall work with the Minnesota Y Department of Health (MDH) and neighboring communities in developing adequate protection measures. Y Agricultural land uses should be encouraged to utilize best management practices and observe conservation practices that prevent erosion and preserve natural resources. Reason: Agriculture is an intensive land use because it has the potential for significant impacts on storm water conveyance systems, ground water resources and air quality. Agriculture is a necessary land use for society but can be accomplished with reduced adverse impacts by adhering to recognized best management practices. Failure to do so can destroy the long- term productivity of the land and contaminate ground water resources for future generations, resulting in flooding, erosion problems, and air pollution. Y Promote collaborative decision making Y Surface water management improvements located in probable recharge areas and areas of high vulnerability to chemical or petroleum spills shall be designed to promote groundwater protection. Practically, this means infiltration shall not be considered in developments that include the potentia	Stormwater Sediment.Erosion Cooperation Flood Groundwater Groundwater Groundwater Groundwater Groundwater Wetlands Cooperation Wetlands
K397 MP4 Chaska SW K398 MP4 Chaska SW K399 MP4 Chaska SW K4 CP1 Scott K40 CP1 Scott K400 MP4 Chaska SW K401 MP4 Chaska SW K401 MP4 Chaska SW	Cooperate with WMO's and SWCD to enhance education Groundwater Wellhead protection Agricultural practices Lack of collaboration vulnerable recharge areas Lake and wetland inventory and classification Share information	Stormwater education Stormwater Groundwater Stormwater LAND USE AND GROWTH MANAG Optimize Public Investment Stormwater Groundwater Stormwater Water quality Water quality Wetlands	Specific policy Specific goal Specific policy General goal Specific Action Specific policy Specific policy Specific policy	Cooperate with the WMOs and the Carver Soli and Water Conservation District (SWCD) to broaden the amount of information and resources available for education. Each entity has valuable expertise on specific issues, such as erosion and sevent floading from subsurface flows. Y To the exent that wellhead protection plans identify areas of groundwater recharge, Y and prevent floading from subsurface flows. Y To the exent that wellhead protection plans identify areas of groundwater Y recharge that require protection, the City shall work with the Minnesota Department of Health (MDH) and neighboring communities in developing adequate protection measures. Agricultural land uses should be encouraged to utilize best management practices and observe conservation practices that prevent erosion and preserve natural resources. Agricultural land uses should be encouraged to utilize best management recognized best management practices. Failure to do so can destroy the long- term productivity of the land and contaminate ground water resources for future generations, resulting in flooding, erosion problems, and air pollution. Y Formate collaborative decision making ground water protection. Fractically, this means infiltration shall not be considered in developments that include the potential for these types of spills. The cother will in dowing, erosion problems, and air pollution.	Stormwater Sediment.Erosion Cooperation Flood Groundwater Groundwater Flood Sediment.Erosion Cooperation Groundwater Wetlands Cooperation

					Up to one-half acre of "debit" wetland (filled or drained) will be allowed to be					
					replaced through wetland "credit" in a bank which is located outside of					
					Chaska's City limits. State and County governments are exempt from this policy					
K405 MP4 C	Chaska SW	Wetland credits	Wetlands	Specific policy	(M.S. 103G.222 (e)). Restrict clearing and grading within close proximity of the wetland boundary to				Wetlands	
					provide for a protective buffer strip of natural vegetation to promote the					
					interception of sediment and nutrients. In the event that grading occurs within					
					the wetland buffer, native plant materials shall be reestablished as a buffer					
K406 MP4 0	Chaska SW	Wetland buffer	Wetlands	Specific policy					Sediment.Erosion	
					Require that a wetland assessment be prepared for any project that includes a					
					wetland that is currently not classified. The most current version of the					
					Minnesota Routine Assessment Methodology for evaluating wetland functions					
K407 MP4 C	Chaska SW	Wetland assessment	Wetlands	Specific policy	and values is the required method of assessment.				Wetlands	
					The City has identified wetlands that have a high potential for restoration and					
					is looking for opportunities to work with landowners to enhance or restore					
					these and other wetlands that, if restored, will provide rate control and water					
K408 MP4 C	Chaska SW	Wetland restoration	Wetlands	Specific policy	quality benefits to downstream receiving waters.				Wetlands	
		Streams and ravines with excessive			Protect and stabilize streams and ravines with unnatural or excessive erosion					
K409 MP4 C	Chaska SW	erosion	Streams and ravines	Specific goal	within the City.			Y	Sediment.Erosion Steep slopes	
					Maintain Consistency of the county's official controls related to water					
K41 CP1 S	Scott	Inconsistency of controls	Optimize Public Investment	Specific Action	resources		X			
					The City has completed assessment of a select number of ravines and creeks as					
K410 1404	Charles City	Creek and ravine assessment	Channel and an inco	Constitute	part of this LSWMP. The City will look for opportunities to expand the				Change allowed	
K410 MP4 C	Chaska SVV	Creek and ravine assessment	Streams and ravines	Specific policy	assessment of ravines and creeks as funding becomes available. The City will look for opportunities to stabilize ravines and creeks that are				Steep slopes	
					experience unnatural or excessive erosion. A focus will be on ravines/creeks					
					identified on the Water Resource Map in Appendix G, the Priority Project					
					Implementation Plan in Table 6-1, as well as those that discharge to priority					
					waterbodies. Priority waterbodies are considered lakes, high quality wetlands,					
K411 MP4 C	Chaska SW	Ravine and creek stabilization	Streams and ravines	Specific policy	and MnDNR waterways and basins.			Y	Sediment.Erosion Steep slopes	
				-p,	Prevent, to the greatest extent possible, sediment from construction sites from	I		-		
					entering the City's surface water resources and control the erosion from					
K412 MP4 C	Chaska SW	Construction site sediment	Erosion and Sediment Control	Specific goal	drainageways within the City.				Sediment.Erosion	
					The City will maintain a partnership with the Carver SWCD for the enforcement					
					of an Erosion and Sediment Control Ordinance as outlined in its NPDES permit.					
					In addition, the City has adopted, in Section 5.3.2.2, Carver County Watershed					
					Management Organization rules and policies regarding construction site runof					
		Construction sediment control ordinance			control and waste management for all construction and land disturbances					
K413 MP4 C	Chaska SW	rules and policies	Erosion and Sediment Control	Specific policy	throughout the City for purposes of implementing BMPs for site developme				Sediment.Erosion	
K414 MP4 C	Charles City	Ravine erosion	Frosion and Sediment Control	Specific policy	The City will identify eroding ravine areas, prioritize stabilization projects, and identify funding sources for project implementation.			v	Sediment.Erosion Steep slopes	
K414 IVIP4 C	Chaska SVV	Ravine erosion	Erosion and Sediment Control	specific policy	Operate and manage the City's surface water system consistent with best			T	Sediment.Erosion Steep slopes	
K415 MP4 0	Chacka SW	Surface water system	Surface water system management	Specific goal	current practices and the City's NPDES MS4 Permit.		~			
K413 WIF4 C	CHIdSKd 3VV	Surface water system	Surface water system managemen	Specific goal	Projects to correct existing deficiencies, to the extent they are identified, will		^			
					be prioritized as follows: 1. Projects intended to reduce or eliminate flooding of	f				
					structures in known problem areas. 2. Projects intended to improve water					
					quality in the City's priority waterbodies. 3. Projects intended to retrofit water					
					quality treatment into developed areas. 4. Projects intended to reduce					
K416 MP4 C	Chaska SW	System deficiency prioritization	Surface water system management	Specific policy	maintenance costs. 5. Projects intended to improve wetlands.				Flood	
					The City will follow best practices on its own lands and for its own projects					
					including street reconstruction projects – in accordance with the NPDES					
K417 MP4 C	Chaska SW	Projects on city lands	Surface water system management	Specific policy	construction site permit and the City's NPDES MS4 Permit.		х			
					This LSWMP recommends a regional stormwater pond approach by					
					consolidating individual ponds that would normally be constructed in each				-	
N418 MP4 (Chaska SW	Regional stormwater ponds	Stormwater ponds	Specific goal	subdivision or development into central facilities when feasible				Stormwater	
K418 MP4 (Chaska SW	Regional stormwater ponds	Stormwater ponds	Specific goal	subdivision or development into central facilities when feasible Implementation projects identified within that plan that may provide				Stormwater	
N418 MP4 1	Chaska SW		Stormwater ponds	Specific goal	subdivision or development into central facilities when feasible Implementation projects identified within that plan that may provide opportunities for collaboration include (project references and page numbers				Stormwater	
		Opportunities for collaboration with			subdivision or development into central facilities when feasible Implementation projects identified within that plan that may provide opportunities for collaboration include (project references and page numbers are from the CCWMO Water Management Plan) ** See pg 104 if this is of					
K419 MP4 C	Chaska SW	Opportunities for collaboration with CCWMO	Coordination	Specific action	subdivision or development into central facilities when feasible Implementation projects identified within that plan hat may provide opportunities for collaboration include (project references and page numbers are from the CCWMO Water Management Plan) ** See pg 104 if this is of interest		×	Y	Stormwater Cooperation CIPs.Projects	
	Chaska SW	Opportunities for collaboration with	Coordination	Specific action	subdivision or development into central facilities when feasible Implementation projects identified within that plan that may provide opportunities for collaboration include (project references and page numbers are from the CCWMO Water Management Plan) ** See pg 104 if this is of interest Minimize Redundancy		X	Y		
K419 MP4 C	Chaska SW	Opportunities for collaboration with CCWMO	Coordination	Specific action	subdivision or development into central facilities when feasible implementation projects identified within that plan that may provide opportunities for collaboration include (project references and page numbers are from the CCWMO Water Management Plan) ** See pg 104 if this is of interest Minimize Redundancy Lano Ravine The Lano Ravine The Lano Travitation Plant Plant Plant Plant Minimize Redundancy		x	Y		
K419 MP4 C	Chaska SW	Opportunities for collaboration with CCWMO	Coordination	Specific action	subdivision or development into central facilities when feasible Implementation projects identified within that plan that may provide opportunities for collaboration include (project references and page numbers are from the CCWMO Water Management Plan) ** See pg 104 if this is of interest Minimize Redundancy Lano Ravine The Lanor Ravine east of TH212 and north of Chaska Boulevard (CR61). It discharges to a culvert under Chaska Boulevard, and runoff from that		x	Y		
K419 MP4 C	Chaska SW	Opportunities for collaboration with CCWMO	Coordination	Specific action	subdivision or development into central facilities when feasible implementation projects identified within that plan that may provide opportunities for collaboration include (project references and page numbers are from the CCWMO Water Management Plan) ** See pg 104 if this is of interest Minimize Redundancy Lano Ravine The Lano Ravine The Lano Travitation Plant Plant Plant Plant Minimize Redundancy		X	Y		
K419 MP4 C	Chaska SW	Opportunities for collaboration with CCWMO	Coordination	Specific action	subdivision or development into central facilities when feasible Implementation projects identified within that plan that may provide opportunities for collaboration include (project references and page numbers are from the CCWMO Water Management Plan) ** See pg 104 if this is of interest Minimize Redundancy Lano Ravine The Lano Ravine east of TH212 and north of Chaska Boulevard (CR61). It discharges to a culvert under Chaska Boulevard, and runoff from that point is conveyed to Chaska Lake. It is uncertain when the ravine began		x	Y		
K419 MP4 C	Chaska SW	Opportunities for collaboration with CCWMO	Coordination	Specific action	subdivision or development into central facilities when feasible implementation projects identified within that plan that may provide opportunities for collaboration include (project references and page numbers are from the CCWMO Water Management Plan) ** See pg 104 if this is of interest Minimize Redundancy Lano Ravine The Lano Ravine the canor the constraint of Chaska Boulevard, and runoff from that point is conveyed to Chaska Lake. It is uncertain when the ravine began eroding: however, erosion in recent years has been significant, resulting in a		X	¥		
K419 MP4 C	Chaska SW	Opportunities for collaboration with CCWMO	Coordination	Specific action	subdivision or development into central facilities when feasible Implementation projects identified within that plan that may provide opportunities for collaboration include (project references and page numbers are from the CCWMO Water Management Plan) ** See pg 104 if this is of interest Minimize Redundancy Lano Ravine The Lano Ravine east of TH212 and north of Chaska Boulevard (CR61). It discharges to a culvert under Chaska Boulevard, and runoff from that point is conveyed to Chaska Lake. It is uncertain when the ravine began eroding: however, erosion in recent years has been significant, resulting in a significant washout upstream of the culvert under Chaska Boulevard. TH212 was built in the Lano Ravine watershed around 2008 and increased the drainage area to the ravine from 26 to 115 acres. A study was completed in		x	Y		
K419 MP4 C	Chaska SW	Opportunities for collaboration with CCWMO	Coordination	Specific action	subdivision or development into central facilities when feasible implementation projects identified within that plan that may provide opportunities for collaboration include (project references and page numbers are from the CCWMO Water Management Plan) ** See pg 104 if this is of interest Minimize Redundancy Lano Ravine The Lano Ravine the set of TH212 and north of Chaska Boulevard (CR61). It discharges to a culvert under Chaska Boulevard, and runoff from that point is conveyed to Chaska Lake. It is uncertain when the ravine began erding; however, erosion in recent years has been significant, resulting in a significant washout upstream of the culvert under Chaska Boulevard. TH212 was built in the Lano Ravine watershed around 2008 and increased the		x	Y		
K419 MP4 C	Chaska SW	Opportunities for collaboration with CCWMO	Coordination	Specific action	subdivision or development into central facilities when feasible Implementation projects identified within that plan that may provide opportunities for collaboration include (project references and page numbers are from the CCWMO Water Management Plan) ** See pg 104 if this is of interest Minimize Redundancy Lano Ravine The Lano Ravine east of TH212 and north of Chaska Boulevard (CR61). It discharges to a culvert under Chaska Boulevard, and runoff from that point is conveyed to Chaska Lake. It is uncertain when the ravine began eroding: however, erosion in recent years has been significant, resulting in a significant washout upstream of the culvert under Chaska Boulevard. TH212 was built in the Lano Ravine watershed around 2008 and increased the drainage area to the ravine from 26 to 115 acres. A study was completed in		x	¥		
K419 MP4 C	Chaska SW	Opportunities for collaboration with CCWMO	Coordination	Specific action	subdivision or development into central facilities when feasible Implementation projects identified within that plan that may provide opportunities for collaboration include (project references and page numbers are from the CCWMO Water Management Plan) ** See pg 104 if this is of interest Minimize Redundancy Lano Ravine The Lano Ravine east of TH212 and north of Chaska Boulevard (CR61). It discharges to a culvert under Chaska Boulevard, and runoff from that point is conveyed to Chaska Lake. It is uncertain when the ravine began eroding; however, erosion in recent years has been significant, resulting in a significant washout upstream of the culvert under Chaska Boulevard. TH212 was built in the Lano Ravine watershed around 2008 and increased the drainage area to the ravine from 26 to 116 acres. A study was completed in 2018 which assessed the existing conditions of the Tavine and the hydrologic changes within the watershed area as a result of the TH212 improvements and identified seven restoration options, three of which were recommended for		x	Y		
K419 MP4 C	Chaska SW	Opportunities for collaboration with CCWMO	Coordination	Specific action	subdivision or development into central facilities when feasible implementation projects identified within that plan that may provide opportunities for collaboration include (project references and page numbers are from the CCWMO Water Management Plan) ** See pg 104 if this is of interest Minimize Redundancy Lano Ravine The Lano Ravine was built in the Lano Ravine watershed around 2008 and increased the drainage area to the ravine from 26 to 116 acres. A study was completed in 2018 which assessed the existing conditions of the ravine and the hydrologic changes within the watershed around to the travine and the hydrologic identified seven restoration options, three of which were recommended for more in-depth review and design. Study results concluded that increased		x	Y		
K419 MP4 C	Chaska SW	Opportunities for collaboration with CCWMO	Coordination	Specific action	subdivision or development into central facilities when feasible Implementation projects identified within that plan that may provide opportunities for collaboration include (project references and page numbers are from the CCWMO Water Management Plan) ** See pg 104 if this is of interest Minimize Redundancy Lano Ravine The Lano Ravine east of TH212 and north of Chaska Boulevard (CR61). It discharges to a culvert under Chaska Boulevard, and runoff from that point is conveyed to Chaska Lake. It is uncertain when the ravine began eroding: however, erosion in recent years has been significant, resulting in a significant washout upstream of the culvert under Chaska Boulevard. H1212 was built in the Lano Ravine watershed around 2008 and increased the drainage area to the ravine from 26 to 116 acres. A study was completed in 2018 which assessed the existing conditions of the ravine and the hydrologic changes within the watershed area as a result of the TH212 Improvements and identified seven restoration options, three of which were recommended for more in-depth review and design. Study results concluded that increased duration of runoff, combined with saturated, sandy sols, likely has led to the		x	Y		
K419 MP4 C	Chaska SW	Opportunities for collaboration with CCWMO	Coordination	Specific action	subdivision or development into central facilities when feasible implementation projects identified within that plan hat may provide opportunities for collaboration include (project references and page numbers are from the CCWMO Water Management Plan) ** See pg 104 if this is of interest Minimize Redundancy Lano Ravine The Lano Ravine The Interest Optimize and the Lano Ravine east of TH212 and north of Chaska Boulevard (CR61). It discharges to a culvert under Chaska Boulevard, and runoff from that point is conveyed to Chaska Lake. It is uncertain when the ravine began eroding; however, erosion in recent years has been significant, resulting in a significant washout upstream of the culvert under Chaska Boulevard. TH212 was built in the Lano Ravine watershed around 2008 and increased the drainage area to the ravine from 26 to 116 acres. A study was completed in 2018 which assessed the existing conditions of the ravine and the hydrologic changes within the watershed area as a result of the TH212 Improvements and identified seven restoration options, three of which were recommended for more in-depth review and design. Study results concluded that increased duration of runoff, combined with saturated, sandy solls, likely has led to the increase in erosion that has been observed. Additional review and follow-up		x	Ŷ		
K419 MP4 C	Chaska SW	Opportunities for collaboration with CCWMO	Coordination	Specific action	subdivision or development into central facilities when feasible implementation projects identified within that plan that may provide opportunities for collaboration include (project references and page numbers are from the CCWMO Water Management Plan) ** See pg 104 if this is of interest Minimize Redundancy Lano Ravine The Lano Ravine waver, erosion in recent years has been significant, resulting in a significant washout upstream of the culvert under Chaska Boulevard. TH212 was built in the Lano Ravine watershed around 2008 and increased the drainage area to the ravine from 26 to 116 acres. A study was completed in 2018 which assessed the existing conditions of the ravine and the hydrologic changes within the watershed around to the TH212 Improvements and identified seven restoration options, three of which were recommended for more in-depth review and design. Study results concluded that increased duration of runoff, combined with saturated, sandy solls, likely has led to the increase in erosion that has been observed. Additional review and follow-up field investigation indicated that erosion continues to migrate towards Chaska		x	Y		
K419 MP4 C	Chaska SW Scott	Opportunities for collaboration with CCWMO	Coordination Optimize Public Investment	Specific action	subdivision or development into central facilities when feasible implementation projects identified within that plan hat may provide opportunities for collaboration include (project references and page numbers are from the CCWMO Water Management Plan) ** See pg 104 if this is of interest Minimize Redundancy Lano Ravine The Lano Ravine The Interest Optimize and the Lano Ravine east of TH212 and north of Chaska Boulevard (CR61). It discharges to a culvert under Chaska Boulevard, and runoff from that point is conveyed to Chaska Lake. It is uncertain when the ravine began eroding; however, erosion in recent years has been significant, resulting in a significant washout upstream of the culvert under Chaska Boulevard. TH212 was built in the Lano Ravine watershed around 2008 and increased the drainage area to the ravine from 26 to 116 acres. A study was completed in 2018 which assessed the existing conditions of the ravine and the hydrologic changes within the watershed area as a result of the TH212 Improvements and identified seven restoration options, three of which were recommended for more in-depth review and design. Study results concluded that increased duration of runoff, combined with saturated, sandy solls, likely has led to the increase in erosion that has been observed. Additional review and follow-up	1	X ,300,000 - 1,650,000	¥	Cooperation CIPs.Projects	CIPs.Projects

				Beise Ravine (LCC-R1) Land use in the 98 acres of area that drain to this ravine,							
				which ultimately discharges to Chaska Creek, is in the process of being							
				developed. Much of the ravine bottom contains large natural fieldstone that							
				has created a stable bottom. The erosion occurring in the ravine is resulting							
				from concentrated flows eroding the toe of slope, causing slope failure. In the							
				areas without a rock bottom and within the steeper segments, there is head-							
				cutting, lowering the stream bottom and causing erosion at the toe of slope							
				and side slope failure. Stormwater management practices have been							
				implemented in the upstream residential development and will reduce peak							
				flows to the ravine. As a result, we anticipate the currently stable sections of							
				the Beise channel will remain so, and the restoration approach should focus on							
				the unstable segments rather than the entire ravine. The total length of the							
				ravine is 3,000 linear feet; however, the entire ravine does not require							
				stabilization. For the construction and professional services, we estimate that							
				60% of the ravine (1,800 LF) will require improvements. LCC CCWMO 2028-							
K421 MP4 Chaska SW	Beise Ravine	Ravine	CIP	2029 \$650,000	2028 to 2029	\$650,000	Y	Stormwater	Sediment.Erosion	Steep slopes	CIPs.Projects
				Lake Grace – West Ravine An eroding ravine is located along the western							
				shoreline of Lake Grace, a nutrient impaired lake. The upstream portions of the							
				ravine receive runoff from Edgewater Townhomes to the north and a							
				stormwater retention pond to the south. The ravine falls 50 vertical feet over							
				its 800-foot length before flowing into Lake Grace. A ravine study will first be							
				conducted. The study will determine the causes of erosion, estimate the							
				sediment contribution from the ravine, develop stabilization options, and							
				provide a cost range for the alternatives and a cost estimate for the chosen							
K422 MP4 Chaska SW	Lake Grace - West Ravine	Ravine	CIP	option. UEC CCWMO 2030 \$75,000	2030	\$75,000	Y	Stormwater	Sediment.Erosion	Steep slopes	CIPs.Proje Impaired.T
				Seminary Fen Ravine C-2 Study and Restoration This 800-foot ravine is within							
				bluffs located north of the Fen and is highly prone to erosion due to sandy							
				soils, groundwater discharges, naturally steep slopes, and surface water flows.							
				A ravine assessment will be conducted. The ravine assessment will determine							
				the causes of erosion, estimate the sediment contribution to the Fen from the							
				ravine, develop stabilization options, and provide cost estimates for a potential							
	Seminary Fen Ravine C-2 Study and			restoration project. Project design and restoration will follow							
K423 MP4 Chaska SW	assessment	Ravine	CIP	recommendations of the assessment. CH LMRWD 2020-2022 \$60,000	2020 to 2022	\$60,000	Y	Sediment.Erosion	Groundwater	Steep slopes	CIPs.Proje Trout.Fen
			-	Seminary Fen Ravine C-3 Study and Restoration This ravine is in the bluffs		1					
				located north of the Fen and is highly prone to erosion due to sandy soils,							
				groundwater discharges, naturally steep slopes, and surface water flows. A							
				ravine assessment will be conducted. The ravine assessment will determine the							
				causes of erosion, estimate the sediment contribution to the Fen from the							
				ravine, develop stabilization options, and provide cost estimates for a potential							
	Seminary Fen Ravine C-3 Study and			restoration project. Project design and restoration will follow							
K424 MP4 Chaska SW	assessment	Ravine	CIP	recommendations of the assessment. CH LMRWD 2023-2025 \$60,000	2023 to 2025	\$60,000	Y	Sediment.Erosion	Groundwater	Steep slopes	CIPs.Proje Trout.Fen
				Seminary Fen Wetland Area A and B Wetland Restoration The Seminary Fen is a		+/					
				600-acre calcareous fen wetland complex. It is one of the rarest types of							
				wetlands in the US. It is characterized by a substrate of peat and a constant							
				supply of upwelling groundwater from bedrock aquifers of cold, oxygen-poor							
				groundwater that is rich in calcium and magnesium bicarbonates. The Fen							
				supports dozens of rare, threatened, and special concern plant and animal							
				species and is one of the Twin Cities Metropolitan Area's last known naturally-							
				reproducing trout streams. It is one of the most significant natural areas in the							
				metro area and is part of the MnDNR Scientific and Natural Areas program.							
				Historic ditching partially drains portions of the wetland. The project will							
				restore the hydrology and vegetation to 21 acres of wetland as part of this							
				project. The cost estimate includes survey, design, construction and vegetative							
				restoration and vegetative maintenance for 5 years. The City may want to							
				consider doing this project as a wetland bank and obtaining the resulting							
	Seminary Fen Wetland Area A and B			wetland credit. The cost estimate to do the project as a wetland bank has been							
K425 MP4 Chaska SW		Bavine	CIP	included. CH LMRWD 2026-2027 \$500,000		\$500,000	Y	Groupdwater	Stoop clopes	CIDs Drojest-	Trout Fon
K423 IVIP4 CHASKA SW	Resotration	naviiid	ur		2026 to 2027	\$300,000	r	Groundwater	Steep slopes	CIPs.Projects	mout.ren
				East Chaska Creek Ravine (EC-R2 tributary) A tributary ravine, approximately							
				4,600 feet in length, to East Chaska Creek (EC-R2) is unstable and eroding.							
				Stormwater discharge from development to the north and east contributes							
				significant flows during large storm events. Stormwater BMPs would be							
				beneficial to control runoff rate and volume. A desktop analysis will be							
				performed to provide the initial assessment and ranking of all the stream							
				segments. Following the initial ranking, up to five sites will be further assessed							
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		Chaste Ster Opporte						ş.	,000			a sin rojectis		

				Champion Data fits These are second and within the City has a terminate				
				Stormwater Retrofits There are several areas within the City where stormwater				
				is either untreated or untreated to current design standards prior to discharge.				
				Areas that discharge to lakes impaired for excessive nutrients (Hazeltine,				
				Jonathan, Grace, and McKnight) have a high priority for these types of projects.				
				Opportunities to retrofit/install stormwater BMPs that will result in additional				
				nutrient and sediment removal in area should be investigated. An assessment				
				will be performed that ranks potential retrofits based on estimated cost and				
K434 MP4 Chaska SW	Stormwater Retrofits	Stormwater	CIP	pollutant removal. UEC CCWMO 2020-2040 \$50,000	2020 to 2040	\$50,000	Y	Stormwater Sediment.Erosion CIPs.Projects Impaired.TMDL
				Upper East Creek Stream Restoration (Upstream from Big Woods Lake) East				
				Chaska Creek, upstream from Big Woods Lake, poses an opportunity for culvert				
				removal and stream restoration near Lyman Boulevard in conjunction with				
				82nd Street Reconstruction. Additional benefits within this drainage area				
				include stormwater rate control and volume reduction and erosion repair				
				around convert outlets. Initial work would involve a study to evaluate existing				
	Upper East Creek Stream Restoration			conditions and develop rate control, water quality, and stream restoration				
K435 MP4 Chaska SW	(Upstream from Big Woods Lake)	Stormwater	CIP	options. EC CCWMO 2022-2024 \$50,000	2020 to 2024	\$50,000	Y	Stormwater Sediment.Erosion CIPs.Projects
				82nd Street Water Quality Improvement Opportunities As Carver County plans				
				for the reconstruction of 82nd street, opportunities may arise for projects that				
				have a water quality benefit in conjunction with road reconstruction. Projects				
				that would benefit this drainage area include wetland restoration, stream				
				restoration, nutrient reduction projects, and stormwater volume control				
				project. Initial work would involve a study to evaluate existing conditions and				
	82nd Street Water Quality Improvement			develop water quality and wetland improvement options. UEC CCWMO 2021-				
K436 MP4 Chaska SW	Opportunities	Water Quality	CIP	2022 \$50.000	2021 to 2022	\$50.000	Y	Stormwater CIPs.Projects
Chasta Svv	- F.F		-"	. Ensure the surface and groundwater management system protects city and		,	•	changees
K437 CP7 Ci-Shakopee	Surface and groundwater systems	Natural Resource protection	General goal	natural resources cost effectively				Groundwater
	Surface and groundwater systems	Natural Resource protection	General goal				Y	
K438 CP7 Ci-Shakopee	Connections to Minnesota River	Economy	Specific action				Ŷ	Increase River Use CIPs.Projects
				Leverage the Minnesota Valley State Trail by enticing trail users (hikers, bikers,				
				snowmobilers) into downtown Shakopee by providing services and facilities for				
K439 CP7 Ci-Shakopee	Leverage Minnesota Valley State Trail	Economy	Specific action	them			Y	Increase River Use CIPs.Projects
K44 CP1 Scott	Limited Public Awareness	Optimize Public Investment	Specific Action	Engage Volunteers		х		
				Create a "Riverwalk" loop connection between the Minnesota River and				
				downtown businesses with a better connection from Downtown to Huber Park,				
				the riverfront and the Minnesota Valley State Trail » Encourage the				
K440 CP7 Ci-Shakopee	Trail connecting River and downtown	Economy	Specific action	development of shops, restaurant			v	Increase River Use CIPs.Projects
K440 CF7 CI-Shakopee	Trail connecting river and downtown	Economy	specific action	Promote the boat ramp and provide recreation amenities for cyclists, boaters,				littease river use cirs. Flujetts
KANA 007 0101		-	e					
K441 CP7 Ci-Shakopee	Provide recreational amenities	Economy	Specific action					Increase River Use
	Incentivize river recreation-based	_		Incentivize river recreation-based businesses such as outfitters and equipment				
K442 CP7 Ci-Shakopee	businesses	Economy	Specific action	rental shops				Increase River Use
				Strategically acquire properties in the floodplain for preservation and potential				
K443 CP7 Ci-Shakopee	Acquire properties in floodplain	Floodplain Management	Specific action					Flood
K444 CP7 Ci-Shakopee	Public access points	Public access	Specific action	» Provide additional public access to river for canoe and kayak recreation				Navigation.boating
K445 CP7 Ci-Shakopee	Rural land development	Land Use	Specific action	Encourage conservation subdivisions to conserve open space				Development
				Protect environmentally sensitive areas				Unique.Sensitive.h Development
K446 CP7 Ci-Shakopee	Rural land development	Land Use	Specific action				Y	
K446 CP7 Ci-Shakopee							Ŷ	
K446 CP7 Ci-Shakopee K447 CP7 Ci-Shakopee	Rural land development	Land Use	Specific action	Coordinate land uses with the SMSC			Y	Development
K446 CP7 Ci-Shakopee K447 CP7 Ci-Shakopee K448 CP7 Ci-Shakopee	Rural land development Rural land development	Land Use Land Use	Specific action Specific action	Coordinate land uses with the SMSC Preserve rural character			Ŷ	Development Development
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				Parks and recreation: Where possible, existing and new facilities should allow	
				people to engage the natural world. Additionally, the enjoyment of water	
K466 CP7 Ci-Shakopee	Public experience impacted by water quality	Public access	Canaifia anal	resources is impacted by the quality of water and the health of wetland,	Dublis second advertise
K466 CP7 Ci-Shakopee	quality	Public access	Specific goal	riverine and lake-based ecological systems. Community character: There exists widespread concern that continued	Public engagement.education
				development will diminish Shakopee's community character. In particular, this	
				development win diministrationadopee's community character, in particular, this concern includes the familands and rural areas south of Histoway 169 and the	
	Impacts of development on natural			city's lakes and wetlands, the quality of which is especially susceptible to	
K467 CP7 Ci-Shakopee	resources	Development	Specific issue	development.	Development
inter er situkopee	resources	bereiopinent	Speeme 155de	Environmentally-sensitive areas: Of particular concern are the high bluffs	bevelopment
				overlooking the Minnesota River, which feature environmentally-sensitive	
				steep slopes; contiguous open space, which serve as wildlife corridors; and	
K468 CP7 Ci-Shakopee	Environmentally-sensitive area	Natural Resource protection	Specific issue	wetlands, rivers, streams and lakes. Y	Unique.Sensitive.h Corridors Steep slopes
K469 CP7 Ci-Shakopee				X	
K47 CP1 Scott	Limited vegetative diversity	Resiliency	Specific Action	Maximizing vegetative diversity	Vegetation
	Identify and follow best practices for			Continue to preserve and restore rivers, streams and wetlands to provide	
	surface water preservation and			floodwater retention, groundwater recharge, nutrient assimilation, wildlife	
K470 CP7 Ci-Shakopee	remediation	Water Resource preservation	Specific policy		Flood Groundwater
	Identify and follow best practices for			Continue to improve existing drainage infrastructure and promote use of	
	surface water preservation and			alternative stormwater design solutions such as rain gardens, pervious	
K471 CP7 Ci-Shakopee	remediation	Stormwater	Specific policy	hardscaping and on-site stormwater treatment	Stormwater
	Identify and follow best practices for			Assess the vulnerability of groundwater resources, estimate dates of resource	
K472 CP7 Ci-Shakopee	groundwater use and protection	Groundwater	Specific policy	exhaustion and plan for mitigation	Groundwater
	Identify and follow best practices for			Partner with Shakopee Public Utilities to identify and protect groundwater	
K473 CP7 Ci-Shakopee	groundwater use and protection	Groundwater	Specific policy	recharge areas and vulnerable aquifers	Groundwater
K474 CP7 Ci-Shakopee	Identify and follow best practices for groundwater use and protection	Water quantity	Enocific !!-	» Create a watering ordinance, water-wise landscaping ordinance and guidance,	Groundwater
K4/4 CP/ CI-Snakopee	groundwater use and protection	Water quantity	Specific policy		Groundwater
K475 CP7 Ci-Shakopee	Minnesota's Minimal Impact Design Standards	Stormwater	Specific policy	Consider adopting and using Minnesota's Minimal Impact Design Standards (MIDS) to address site stormwater runoff and pollution	Stormwater
K475 CP7 CI-Shakopee	Standards	Stormwater	specific policy	Coordinate water resource planning and protection efforts with adjacent	Stormwater
K476 CP7 Ci-Shakopee	Coodinate with adjacent jurisdictions	Coordination	Specific policy	continue water resource planning and protection errors with adjacent	Cooperation
K470 CF7 CF5hakopee	Identify and follow best practices for	coordination	Specific policy	Jananenana	cooperation
K477 CP7 Ci-Shakopee	wildlife and vegetation management	Invasive species	Specific policy	Develop a plan to minimize invasive and exotic plants and animals	Invasives
	Identify and follow best practices for				
K478 CP7 Ci-Shakopee	wildlife and vegetation management	Habitat and corridors	Specific policy	Update plan to preserve wildlife habitat and travel corridors	Corridors
				Continue to work with partners to develop a conservation easement program	
K479 CP7 Ci-Shakopee	Conservation easement program	habitat	Specific policy	for preserving wildlife habitats	High value easements
				Facilitate a vision for management of selected public ditches as agricultural	· · · ·
K48 CP1 Scott	management of public ditches	Public Drainage	Specific Action	drainage benefits decline	Agriculture
				Develop policies to prevent habitat fragmentation and altering of high-quality	
K480 CP7 Ci-Shakopee	Habitat fragmentation	Habitat	Specific policy	natural areas X	
K481 CP7 Ci-Shakopee	Natural resource inventory	Natural Resources	Specific policy	Conduct a Natural Resource Inventory and Assessment X	
K482 CP7 Ci-Shakopee	Woodlands, bluffs and slopes	Natural resources protection	Specific policy		Steep slopes
K483 CP7 Ci-Shakopee	Open space plans	Coordination	Specific policy	Coordinate open space plans with adjacent jurisdictions	Open and Green
K463 CP7 CI-Shakopee	a franciska a franciska a seriesta		Specific policy	Coordinate open space plans with adjacent jurisdictions	Open and Green
K463 CP7 CI-Shakopee	Incorporate environmentally-responsible		Specific policy		Open and Green
	Incorporate environmentally-responsible practices into land subdivision and	2		Consider impacts to native threatened or special-concern species when	
K483 CP7 Ci-Shakopee K484 CP7 Ci-Shakopee	Incorporate environmentally-responsible				Open and Green Development
	Incorporate environmentally-responsible practices into land subdivision and	e Development		Consider impacts to native threatened or special-concern species when	
	Incorporate environmentally-responsible practices into land subdivision and development regulations	e Development		Consider impacts to native threatened or special-concern species when	
	Incorporate environmentally-responsible practices into land subdivision and development regulations Incorporate environmentally-responsible	e Development	Specific policy	Consider impacts to native threatened or special-concern species when reviewing land use development	
K484 CP7 Ci-Shakopee	Incorporate environmentally-responsible practices into land subdivision and development regulations Incorporate environmentally-responsible practices into land subdivision and development regulations	2 Development 2 Development	Specific policy	Consider impacts to native threatened or special-concern species when	Development
K484 CP7 Ci-Shakopee	Incorporate environmentally-responsible practices into land subdivision and development regulations Incorporate environmentally-responsible practices into land subdivision and development regulations Incorporate environmentally-responsible	2 Development 2 Development	Specific policy	Consider impacts to native threatened or special-concern species when reviewing land use development Encourage roadway design to follow existing contours of landscape	Development
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K484 CP7 Ci-Shakopee	Incorporate environmentally-responsible practices into land subdivision and development regulations Incorporate environmentally-responsible practices into land subdivision and development regulations Incorporate environmentally-responsible	2 Development 2 Development	Specific policy	Consider impacts to native threatened or special-concern species when reviewing land use development Encourage roadway design to follow existing contours of landscape	Development
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		Adapt and inclusion at alars and a disis-					
		Adopt and implement plans and policies to protect parks and transitional natural					
K493 CP7	Ci-Shakopee	areas	Corridors	Specific policy	Refine urban forestry plan for street tree planting and management		Corridors
		Adopt and implement plans and policies					
		to protect parks and transitional natural					
K494 CP7	Ci-Shakopee	areas	Corridors	Specific policy	Continue to preserve natural resources in areas in or adjacent to parkland		Corridors
		Adopt and implement plans and policies					
		to protect parks and transitional natural			Continue to strategically acquire natural space and corridors for future		
K495 CP7	Ci-Shakopee	areas	Corridors	Specific policy	parkland		Corridors
		Adopt and implement plans and policies					
		to protect parks and transitional natural					
K496 CP7	Ci-Shakopee	areas	Corridors	Specific policy	Review and refine city-wide natural resources corridor system		Corridors
		Cultivate opportunities for engagement			Develop low-impact trail systems that balance community connections with		
K497 CP7	Ci-Shakopee	with the natural world	Public engagement	Specific policy	wildlife corridor protection	Y	Public engagement Corridors
		Encourage and conduct environmental			» Educate the public on environmentally-responsible alternatives to traditional landscape practices (ex. Herbicide and pesticide use as well as sustainable,		
K409 CD7	Ci-Shakopee	education and outreach initiatives	Public education	Specific policy	native alternatives to traditional lawns and landscape vegetation)		Public engagement.education
K456 CF7	стытакорее	education and outreach mitiatives	Public education	Specific policy	native anternatives to traditional lawits and landscape vegetation;		Public engagement.eutication
		Encourage and conduct environmental			Support or develop outreach tools and activities to promote water quality		
K499 CP7	Ci-Shakopee	education and outreach initiatives	Public education	Specific policy		Y	Stormwater Public engagement.education
					New or expanding feedlots resulting in over 500 animal units or more shall be		0.0
					regulated to minimize impacts on existing residences and the environment.		
					Reason: Large feedlots present the potential for greater impacts to the		
					environment than traditional smaller labor intensive operations. Feedlots and		
1					resulting manure management present increased concerns for ground water		
					protection, air quality, storm water runoff, insect control, and public health.		
					These intensive land uses should be controlled to prevent adverse impacts that		
K5 CP1	Scott	Feedlots	LAND USE AND GROWTH MANAG	G General goal	are detrimental to society and the long-term economy of the area.		Agriculture
					Encourage artificially drained hydric soils to revert to natural conditions and		
K50 CP1	Scott	Artificially drained hydric soils	Natural Corridors	Specific action	the restoration of wetlands using the Public Value Incentive Program.		Corridors
	Ci-Shakopee	Demonstration projects	Public education		Support or establish demonstration projects for environmental remediation and enhancement		
K500 CP7	CI-Snakopee	Demonstration projects	Public education	Specific policy	Provide materials for identifying invasive animal and plant species with		Public engagement.education
K501 CP7	Ci-Shakopee	Invasive species	Public education	Specific policy	instructions on what to do if spotted	v	Invasives Public engagement.education
K301 CF7	сі-знакорее	invasive species	rubic education	Specific policy	* Support or host events to promote awareness of invasive species and best		
K502 CP7	Ci-Shakopee	Invasive species	Public education	Specific policy	practices for preventing their expansion	Y	Invasives Public engagement.education
					Mitigate stormwater using on-site techniques such as bioswales, rain gardens		
K503 CP7	Ci-Shakopee	Public spaces	Stormwater	Specific policy	and pervious pavers		Stormwater
		· ·			Where appropriate, select native vegetation for turfgrass, flowers, shrubs and		
WEDA 0							
K504 CP7	Ci-Shakopee	Public spaces	Habitat	Specific policy	trees		Vegetation
K504 CP7	Ci-Shakopee	Public spaces	Habitat	Specific policy	trees Develop a flood preparedness strategy to address more frequent and severe		Vegetation
K504 CP7		Public spaces flood preparedness	Habitat Flooding	Specific policy Specific policy			Vegetation Flood
K505 CP7 K506 CP2	Ci-Shakopee Co-Carver	flood preparedness agriculture	Flooding Land use	Specific policy General goal	Develop a flood preparedness strategy to address more frequent and severe flooding Maintain the viability of the agricultural economy;		
K505 CP7 K506 CP2	Ci-Shakopee	flood preparedness	Flooding	Specific policy	Develop a flood preparedness strategy to address more frequent and severe flooding Maintain the viability of the agricultural economy; Conserve natural and historic resources; X		Flood
K505 CP7 K506 CP2	Ci-Shakopee Co-Carver	flood preparedness agriculture	Flooding Land use	Specific policy General goal	Develop a flood preparedness strategy to address more frequent and severe flooding Maintain the viability of the agricultural economy; Conserve natural and historic resources; X The County's fundamental land use policy position is that most urban X		Flood
K505 CP7 K506 CP2	Ci-Shakopee Co-Carver	flood preparedness agriculture	Flooding Land use	Specific policy General goal	Develop a flood preparedness strategy to address more frequent and severe flooding Maintain the viability of the agricultural economy; Conserve natural and historic resources; The County's fundamental land use policy position is that most urban developments should occur within the municipalities of the County and that		Flood
K505 CP7 K506 CP2 K507 CP2	Ci-Shakopee Co-Carver Co-Carver	flood preparedness agriculture Natural resources	Flooding Land use Land use	Specific policy General goal General goal	Develop a flood preparedness strategy to address more frequent and severe flooding Maintain the viability of the agricultural economy; Conserve natural and historic resources; X Conserve natural and historic resources; X County's fundamental land use policy position is that most urban developments should occur within the municipalities of the County and that the area outside of the municipalities remains rural in character with		Flood Agriculture
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K505 CP7 K506 CP2 K507 CP2	Ci-Shakopee Co-Carver Co-Carver	flood preparedness agriculture Natural resources	Flooding Land use Land use	Specific policy General goal General goal	Develop a flood preparedness strategy to address more frequent and severe flooding Maintain the viability of the agricultural economy; Conserve natural and historic resources; X The County's fundamental land use policy position is that most urban developments should occur within the municipalities of the County and that the area outside of the municipalities remains rural in character with agriculture as the principal land use; Local government jurisdictions are encouraged to collaborate with the County		Flood Agriculture
K505 CP7 K506 CP2 K507 CP2	Ci-Shakopee Co-Carver Co-Carver Co-Carver	flood preparedness agriculture Natural resources Urban and rural development	Flooding Land use Land use Land use	Specific policy General goal General goal General policy	Develop a flood preparedness strategy to address more frequent and severe flooding Maintain the viability of the agricultural economy; Conserve natural and historic resources; X Conserve natural and historic resources; X the County's fundamental liand use policy position is that most urban developments should occur within the municipalities of the County and that the area outside of the municipalities remains rural in character with agriculture as the principal land use. Local government jurisdictions are encouraged to collaborate with the County and other agencies to preserve, protect and/or restore natural resource areas	· · · · · · · · · · · · · · · · · · ·	Flood Agriculture Development
K505 CP7 K506 CP2 K507 CP2	Ci-Shakopee Co-Carver Co-Carver	flood preparedness agriculture Natural resources	Flooding Land use Land use	Specific policy General goal General goal	Develop a flood preparedness strategy to address more frequent and severe flooding Maintain the viability of the agricultural economy; Conserve natural and historic resources; X The County's fundamental land use policy position is that most urban developments should occur within the municipalities of the County and that the area outside of the municipalities remains rural in character with agriculture as the principal land use; Local government jurisdictions are encouraged to collaborate with the County	Y	Flood Agriculture
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K505 CP7 K506 CP2 K507 CP2 K508 CP2 K509 CP2	Ci-Shakopee Co-Carver Co-Carver Co-Carver Co-Carver Co-Carver	flood preparedness agriculture Natural resources Urban and rural development	Flooding Land use Land use Land use	Specific policy General goal General goal General policy General policy	Develop a flood preparedness strategy to address more frequent and severe flooding flooding Maintain the viability of the agricultural economy; Conserve natural and historic resources; X Conserve natural and historic resources; X The County's fundamental land use policy position is that most urban developments should occur within the municipalities of the County and that the area outside of the municipalities remains rural in character with agriculture as the principal land use. Local government jurisdictions are encouraged to collaborate with the County and other agencies to preserve, protect and/or restore natural resource areas and corridors within city growth areas. Development on slopes identified as potential problem areas due to erosion or slope stability concerns shall be restricted or prohibited. Methods of controlling erosion or unstable slopes shall be indicated on all development	Y	Flood Agriculture Development Corridors Cooperation
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	. Most potential contamination threats to	0				
	surface water and groundwater are					
	human-caused, thus preventing			To provide those living, working, and recreating in Carver County with the		
	contamination can start with educational			knowledge, skills, and motivation required to assure protection and		
K518 CP2 Co-Carver	efforts	Public education	General goal	improvement of the county's water resources.	Y	Public engagement Groundwater
				Use methods consistent with existing laws to preserve natural areas, parklands,		
				lakes and streams; in recognition that citizens of Carver County have a his- tory		
K519 CP2 Co-Carver	Preserve natural resources	Natural resource protection	General goal	of placing a high value on the natural resources found throughout the county.		Unique.Sensitive.high value
				Promote the use of native grasses, forbes, shrubs, and trees in development		
K52 CP1 Scott	Habitat restoration	Natural Corridors	Specific action	site restoration		Corridors
				Fostering a fully integrated and seamless system of regional, local, state, and		
K520 CP2 Co-Carver	Seamless trail system	Parks and trails	Specific goal	federal parks, trails, and conservation lands		Trails
				To provide residents with parks and natural areas for recreational uses,		
				protection of the natural environment and geographical characteristics of the		
				County, as visual/physical buffering of land development, and as a means to		
				maintain the sense of place, ambiance, appearance, and cultural and natural		
K521 CP2 Co-Carver	Public amenity	Parks and trails	General goal	history of the County.	Y	Natural Resource F Trails
				To provide residents with a high quality and interconnected trail and bikeway		
				system for recreation, fitness, and transportation and as a means to tie parks		
				and open spaces together with local communities. To provide connections with		
K522 CP2 Co-Carver	Regional connections	Parks and trails	Specific goal	the greater regional trail system.		Open and Green
				The Minnesota River Bluffs and Ravines search area is located south of the City		
				of Carver and extends along the bluff and ravine system of the Minnesota River		
				in San Francisco Township. This search area provides unique opportunities for a		
				regional		
				park facility, including the potential to operate a regional facility adjacent to or		
				within the Minnesota River Valley and in close proximity to land that is owned		
	MINNESOTA RIVER BLUFFS AND RAVINES			and managed by the Minnesota Department of Natural Resources and the US		
K523 CP2 Co-Carver	Regional park SEARCH AREA	Parks and trails	Specific	Fish & Wildlife Service	Y	Unique.Sensitive.h Increase River Use Steep slopes
				Impaired waters that are close to the state standard will be delisted during the		
				life of the plan. Determinations of what is close to the standard will be based		
				on the characteristics of the waterbody and the impaired parameter and will be		
K524 MP16 Carver County WR	Impaired waters	Surface Water Quality	Specific goal	made on an ongoing basis.		Impaired.TMDL
K525 MP16 Carver County WR		Surface Water Quality	Specific goal	Other impaired waters will show a stable or improving trend		Impaired.TMDL
K526 MP16 Carver County WR			Specific goal	Unlisted lakes will show a stable or improving trend		Impaired.TMDL
				To manage the volume and flow of stormwater runoff to minimize the impacts		
				of land use change on surface water and groundwater resources within the		
K527 MP16 Carver County WR	Impacts on water resources	Stormwater	Specific goal	watershed.	Y	Stormwater Groundwater
K528 MP16 Carver County WR	Groundwater Resource Protection		Specific goal	To preserve and protect groundwater resources within the watershed		Groundwater
				To provide those living, working, and recreating in the CCWMO with the		
	Protect water resources through			knowledge, skills, and motivation needed to make positive behavior changes		
K529 MP16 Carver County WR	education	Public education	Specific goal	that protect surface water and groundwater resources.	Y	Public engagement Groundwater
				Establish compatible land use patterns that relate to the county's		
K53 CP1 Scott	compatible land use	Natural Corridors	Specific action	environmental features.		Corridors
				To work with partners to identify and implement efficient solutions to water		
K530 MP16 Carver County WR	Coordination with Partners	Coordination	Specific goal	resource problems.		Cooperation
				To collect data and use the best available science to identify problems and		
K531 MP16 Carver County WR	Evaluating Effectiveness & Progress	Resource assessment	Specific goal	evaluate the effectiveness of solutions.		Monitoring
				The CCWMO will continue to apply the regulatory standards described in the		
				Water Resource Management Ordinance for erosion and sediment control,		
				stormwater management (rate, volume, water quality), wetland protection, floodplain management, and topsoil management with the goal of preserving		
	Regulatory standards to protect water			stormwater management (rate, volume, water quality), wetland protection, floodplain management, and topsoil management with the goal of preserving		
K532 MP16 Carver County WR	Regulatory standards to protect water	Water Resource preservation	Specific policy	stormwater management (rate, volume, water quality), wetland protection,	¥	Stormwater Flood Sediment.Erosic Groundwater
K532 MP16 Carver County WR		Water Resource preservation	Specific policy	stormwater management (rate, volume, water quality), wetland protection, floodplain management, and topsoil management with the goal of preserving and improving surface water and groundwater resources and managing flood	Y	Stormwater Flood Sediment.Erosic Groundwater
K532 MP16 Carver County WR		Water Resource preservation	Specific policy	stormwater management (rate, volume, water quality), wetland protection, floodplain management, and topsoil management with the goal of preserving and improving surface water and groundwater resources and managing flood risk.	Υ	Stormwater Flood Sediment.Erosic Groundwater
K532 MP16 Carver County WR		Water Resource preservation	Specific policy	stormwater management (rate, volume, water quality), wetland protection, floodplain management, and topsoil management with the goal of preserving and improving surface water and groundwater resources and managing flood risk. The CCWMO will annually review the project list (see Table 5-x) and potential project list (Table 5-x). The CCWMO will prioritize project based on	Υ	Stormwater Flood Sediment.Erosic Groundwater
K532 MP16 Carver County WR		Water Resource preservation	Specific policy	stormwater management (rate, volume, water quality), wetland protection, floodplain management, and topsoil management with the goal of preserving and improving surface water and groundwater resources and managing flood risk. The CCWMO will annually review the project list (see Table 5-x) and potential	¥	Stormwater Flood Sediment.Erosic Groundwater
K532 MP16 Carver County WR		Water Resource preservation	Specific policy	stormwater management (rate, volume, water quality), wetland protection, floodplain management, and topsoil management with the goal of preserving and improving surface water and groundwater resources and managing flood risk. The CCWMO will annually review the project list (see Table 5-x) and potential project list (Table 5-x). The CCWMO will prioritize projects based on methodology description in Chapter 5, which considers the following factors: - Benefit to a priority water body - Project-specific water quality benefits -	γ	Stormwater Flood Sediment.Erosic Groundwater
· · · ·	t resources			stormwater management (rate, volume, water quality), wetland protection, floodplain management, and topsoil management with the goal of preserving and improving surface water and groundwater resources and managing flood risk. The CCWMO will annually review the project list (see Table 5-x) and potential project list (Table 5-x). The CCWMO will prioritize projects based on methodology described in Chapter 5, which considers the following factors: -	A	
K532 MP16 Carver County WR	t resources		Specific policy Specific policy	stormwater management (rate, volume, water quality), wetland protection, floodplain management, and topsoil management with the goal of preserving and improving surface water and groundwater resources and managing flood risk. The CCWMO will annually review the project list (see Table 5-x) and potential project list (Table 5-x). The CCWMO will prioritize projects based on methodology described in Chapter 5, shich considers the following factors: - Benefit to a priority water body - Project-specific water quality benefits - Project-specific volume control benefits - Relationship to impaired waters - Educational benefits - Partnership opportunities - Cost-benefit factors	¥	Stormwater Flood Sediment.Erosic Groundwater
· · · ·	t resources			stormwater management (rate, volume, water quality), wetland protection, floodplain management, and topsoil management with the goal of preserving and improving surface water and groundwater resources and managing flood risk. The CCWMO will annually review the project list (see Table 5-x) and potential project list (Table 5-x). The CCWMO will prioritize projects based on methodology described in Chapter 5, which considers the following factors: - Benefit to a priority water body - Project-specific water quality benefits - Project-specific volume control benefits - Relationship to impaired waters - Educational benefits - Partnership opportunities - Cost-benefit factors The CCWMO will operate cost share programs designed to help with the	γ	
· · · ·	t resources			stormwater management (rate, volume, water quality), wetland protection, floodplain management, and topsoil management with the goal of preserving and improving surface water and groundwater resources and managing flood risk. The CCWMO will annually review the project list (see Table 5-x) and potential project list (Table 5-x). The CCWMO will prioritize projects based on methodology described in Chapter 5, which considers the following factors: - Benefit to a priority water body - Project-specific water quality benefits - Project-specific volume control benefits - Relationship to impaired waters - Educational benefits - Partnership opportunities - Cost-benefit factors The CCWMO will operate cost share programs designed to help with the implementation of small-scale projects that help protect and improve surface	¥	
· · · ·	t resources			stormwater management (rate, volume, water quality), wetland protection, floodplain management, and topsoil management with the goal of preserving and improving surface water and groundwater resources and managing flood risk. The CCWMO will annually review the project list (see Table 5-x) and potential project list (Table 5-x). The CCWMO will prioritize projects based on methodology described in Chapter 5, which considers the following factors: - Benefit to a priority water body - Project-specific water quality benefits - Project-specific volume control benefits - Relationship to impaired waters - Educational benefits - Partnership opportunities - Cost-benefit factors The CCWMO will operate cost share programs designed to help with the implementation of small-scale projects. Ust hat help protect and improve surface water and groundwater resources. Cost share programs reduce barriers to		
K533 MP16 Carver County WR	t resources	Water Resource preservation	Specific policy	stornwater management (rate, volume, water quality), wetland protection, floodplain management, and topsoil management with the goal of preserving and improving surface water and groundwater resources and managing flood risk. The CCWMO will annually review the project list (see Table 5-x) and potential project list (Table 5-x). The CCWMO will prioritize project based on methodology described in Chapter 5, which considers the following factors: - Benefit to a priority water body - Project-specific water quality benefits - Project-specific volume control benefits - Relationship to impaired waters - Educational benefits - Partnership opportunities - Cost-benefit factors The CCWMO will operate cost share programs designed to help with the implementation of small-scale projects that help protect and improve surface water and groundwater resources. Cost share programs reduce barriers to implementation by providing funding and technical assistance and can	Å	Impaired.TMDL
· · · ·	t resources	Water Resource preservation		stormwater management (rate, volume, water quality), wetland protection, floodplain management, and topsoil management with the goal of preserving and improving surface water and groundwater resources and managing flood risk. The CCWMO will annually review the project list (see Table 5-x) and potential project list (Table 5-x). The CCWMO will prioritize projects based on methodology described in Chapter 5, shich considers the following factors: - Benefit to a priority water body - Project-specific water quality benefits - Project-specific volume control benefits - Relationship to impaired waters - Educational benefits - Partnership opportunities - Cost-benefit factors The CCWMO will operate cost share programs designed to help with the implementation of small-scale projects that help protect and improve surface water and groundwater resources. Cost share programs reduce barriers to implementation by providing funding and technical assistance and can encourage behavior change	γ	
K533 MP16 Carver County WR	t resources t Water resources project list Cost share programs	Water Resource preservation	Specific policy Specific policy	stormwater management (rate, volume, water quality), wetland protection, floodplain management, and topsoil management with the goal of preserving and improving surface water and groundwater resources and managing flood risk. The CCWMO will annually review the project list (see Table 5-x) and potential project list (Table 5-x). The CCWMO will prioritize projects based on methodology described in Chapter 5, which considers the following factors: - Benefit to a priority water body - Project-specific water quality benefits - Project-specific volume control benefits - Relationship to impaired waters - Educational benefits - Partnership opportunities - Cost-benefit factors The CCWMO will operate cost share programs designed to help with the implementation of small-scale projects that help protect and improve surface water and groundwater resources. Cost share programs reduce barriers to implementation by providing funding and technical assistance and can encourage behavior change	γ	Impaired.TMDL Groundwater
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K533 MP16 Carver County WR	t resources t Water resources project list Cost share programs	Water Resource preservation	Specific policy Specific policy	stormwater management (rate, volume, water quality), wetland protection, floodplain management, and topsoil management with the goal of preserving and improving surface water and groundwater resources and managing flood risk. The CCWMO will annually review the project list (see Table 5-x) and potential project list (Table 5-x). The CCWMO will prioritize projects based on methodology described in Chapter 5, which considers the following factors: - Benefit to a priority water body - Project-specific water quality benefits - Project-specific volume control benefits - Relationship to impaired waters - Educational benefits - Partnership opportunities - Cost-benefit factors The CCWMO will operate cost share programs designed to help with the implementation of small-scale projects that help protect and improve surface water and groundwater resources. Cost share programs reduce barriers to implementation by providing funding and technical assistance and can encourage behavior change The CCWMO will continue to monitor lakes, streams, wetland areas, stormwater BMPS, groundwater, and other resources as needed to track trends	¥	Impaired.TMDL Groundwater
K533 MP16 Carver County WR K534 MP16 Carver County WR	t resources t Water resources project list t Cost share programs t Coordination with Partners	Water Resource preservation Water Resource preservation Coordination	Specific policy Specific policy Specific policy	stormwater management (rate, volume, water quality), wetland protection, floodplain management, and topsoil management with the goal of preserving and improving surface water and groundwater resources and managing flood risk. The CCWMO will annually review the project list (see Table 5-x) and potential project list (Table 5-x). The CCWMO will prioritize projects based on methodology described in Chapter 5, which considers the following factors: - Benefit to a priority water body - Project-specific water quality benefits - Project-specific volume control benefits - Relationship to impaired waters - Educational benefits - Partnership opportunities - Cost-benefit factors The CCWMO will operate cost share programs designed to help with the implementation of small-scale projects that help protect and improve surface water and groundwater resources. Cost share programs reduce barriers to implementation by providing funding and technical assistance and can encourage behavior change The CCWMO will partner with clites, state agencies, and other entities to identify. fund, and implement projects that species, surface may stormwater BMPs, groundwater, and other resources as needed to track trends over the long term and to comply with TMOL studies and Implementation		Impaired.TMDL Groundwater Cooperation
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K533 MP16 Carver County WR K534 MP16 Carver County WR K535 MP16 Carver County WR	t resources Water resources project list Cost share programs Coordination with Partners Monitoring	Water Resource preservation Water Resource preservation Coordination Resource assessment	Specific policy Specific policy Specific policy Specific policy	stormwater management (rate, volume, water quality), wetland protection, floodplain management, and topsoil management with the goal of preserving and improving surface water and groundwater resources and managing flood risk. The CCWMO will annually review the project list (see Table 5-x) and potential project list (Table 5-x). The CCWMO will prioritize projects based on methodology described in Chapter 5, which considers the following factors: - Benefit to a priority water body - Project-specific water quality benefits - Project-specific volume control benefits - Relationship to impaired waters - Educational benefits - Partnership opportunities - Cost-benefit factors The CCWMO will operate cost share programs designed to help with the implementation of small-scale projects that help protect and improve surface water and groundwater resources. Cost share programs reduce barriers to implementation of small-scale and technical assistance and can encourage behavior change The CCWMO will and implement projects that meet the goals of this plan The CCWMO will continue to monitor lakes, streams, wetland areas, stormwater BMPs, groundwater, and other resources as needed to track trends over the long term and to comply with TMDL studies and Implementation Plans. The CCWMO will use data to evaluate the performance of programs, projects,	у у	Impaired.TMDL Groundwater Cooperation
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K533 MP16 Carver County WR K534 MP16 Carver County WR K535 MP16 Carver County WR K536 MP16 Carver County WR		Water Resource preservation Water Resource preservation Coordination Resource assessment Resource assessment Resource assessment	Specific policy Specific policy Specific policy Specific policy Specific policy	stormwater management (rate, volume, water quality), wetland protection, floodplain management, and topsoil management with the goal of preserving and improving surface water and groundwater resources and managing flood risk. The CCWMO will annually review the project list (see Table 5-x) and potential project list (Table 5-x). The CCWMO will prioritize projects based on methodology described in Chapter 5, which considers the following factors: - Benefit to a priority water body - Project-specific water quality benefits - Project-specific volume control benefits - Relationship to impaired waters - Educational benefits - Partnership opportunities - Cost-benefit factors The CCWMO will operate cost share programs designed to help with the implementation of small-scale projects that help protect and improve surface water and groundwater resources. Cost share programs reduce barriers to implementation of small-scale projects that help protect and improve surface water and groundwater resources. Cost share programs reduce barriers to indentify. Indu, and implement projects that meet the goals of this plan The CCWMO will continue to monitor lakes, streams, wetland areas, stormwater BMPs, groundwater, and other resources as needed to track trends over the long term and to comply with TMDL studies and Implementation Plans. The CCWMO will continue to monitor geforts with observe an uplementation Plans. The CCWMO will cordinate monitoring efforts with other entities to identify and fill data gaps, promote efficiency, and increase data availability. The CCWMO will partner with other entities and stakeholders to monitor the extent of aquatic invasive species (AIS) with the watershed.	Х	Impaired.TMDL Groundwater Cooperation Stormwater Monitoring Groundwater Impaired.TMDL
K533 MP16 Carver County WR K534 MP16 Carver County WR K535 MP16 Carver County WR K536 MP16 Carver County WR K537 MP16 Carver County WR		Water Resource preservation Water Resource preservation Coordination Resource assessment Resource assessment Resource assessment	Specific policy Specific policy Specific policy Specific policy Specific policy Specific policy	stormwater management (rate, volume, water quality), wetland protection, floodplain management, and topsoil management with the goal of preserving and improving surface water and groundwater resources and managing flood risk. The CCWMO will annually review the project list (see Table 5-x) and potential project list (Table 5-x). The CCWMO will prioritize projects based on methodology described in Chapter 5, which considers the following factors: - Benefit to a priority water body - Project-specific water quality benefits - Project-specific volume control benefits - Relationship to imgained waters - Educational benefits - Partnership opportunities - Cost-benefit factors The CCWMO will operate cost share programs designed to help with the implementation of small-scale projects that help protect and improve surface water and groundwater resources. Cost share programs reduce barriers to implementation of small-scale projects that help protect and improve surface water and groundwater resources. Cost share programs reduce barriers to identify, fund, and implement projects that help protect and improve surface sortwater BMPs, groundwater, and other resources as needed to track trends over the long term and to comply with TMDL studies and Implementation Plans. The CCWMO will use data to evaluate the performance of programs, projects, and best management pracifics. The CCWMO will cordinate monitoring efforts with other entities to identify and higt data gaps, promote efficiency, and increase data availability. The CCWMO will partner with other entities and stakeholders to monitor the extent of aquatic invasive species (AIS) within the watershed. Promote the preservation of natural vegetation including prairies, woodlands,	Х	Impaired.TMDL Groundwater Cooperation Stormwater Monitoring Groundwater Impaired.TMDL Monitoring
K533 MP16 Carver County WR K534 MP16 Carver County WR K535 MP16 Carver County WR K536 MP16 Carver County WR K537 MP16 Carver County WR		Water Resource preservation Water Resource preservation Coordination Resource assessment Resource assessment Resource assessment	Specific policy Specific policy Specific policy Specific policy Specific policy Specific policy	stormwater management (rate, volume, water quality), wetland protection, floodplain management, and topsoil management with the goal of preserving and improving surface water and groundwater resources and managing flood risk. The CCWMO will annually review the project list (see Table 5-x) and potential project list (Table 5-x). The CCWMO will prioritize projects based on methodology described in Chapter 5, which considers the following factors: - Benefit to a priority water body - Project-specific water quality benefits - Project-specific volume control benefits - Netationship to impaired waters - Educational benefits - Partnership opportunities - Cost-benefit factors The CCWMO will operate cost share programs designed to help with the implementation of small-scale projects that help protect and improve surface water and groundwater resources. Cost share programs reduce barriers to implementation of small-scale projects that help protect and improve surface water and groundwater resources. Cost share programs reduce barriers to implementation and implement projects that meet the goals of this plan The CCWMO will continue to monitor lakes, streams, wetland areas, stormwater BMPs, groundwater, and other ensures as needed to track trends over the long term and to comply with TMDL studies and Implementation Plans. The CCWMO will use data to evaluate the performance of programs, projects, and bet management practices. The CCWMO will coordinate monitoring efforts with other entities to identify and lidata gaps, promote efficiency, and increase data availability. The CCWMO will coordinate monitoring efforts with other entities to identify and lidata gaps, promote efficiency, and increase data availability. The CCWMO will coordinate monitoring efforts with other entities to identify and fil data gaps, promote efficiency, and increase data availability. The CCWMO will arcent entities and stakeholders to monitor the extent of aquatic invasive species (AIS) within the watershed. Promote the preservation of natural vegetat	ч 	Impaired.TMDL Groundwater Cooperation Stormwater Monitoring Groundwater Impaired.TMDL Monitoring
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K533 MP16 Carver County WR K534 MP16 Carver County WR K535 MP16 Carver County WR K536 MP16 Carver County WR K537 MP16 Carver County WR		Water Resource preservation Water Resource preservation Coordination Resource assessment Resource assessment Resource assessment Resource assessment	Specific policy Specific policy Specific policy Specific policy Specific policy Specific policy	stormwater management (rate, volume, water quality), wetland protection, floodplain management, and topsoil management with the goal of preserving and improving surface water and groundwater resources and managing flood risk. The CCWMO will annually review the project list (see Table 5-x) and potential project list (Table 5-x). The CCWMO will prioritize projects based on methodology described in Chapter 5, which considers the following factors: - Benefit to a priority water body - Project-specific water quality benefits - Project-specific volume control benefits - Netationship to impaired waters - Educational benefits - Partnership opportunities - Cost-benefit factors The CCWMO will operate cost share programs designed to help with the implementation of small-scale projects that help protect and improve surface water and groundwater resources. Cost share programs reduce barriers to implementation of small-scale projects that help protect and improve surface water and groundwater resources. Cost share programs reduce barriers to implementation and implement projects that meet the goals of this plan The CCWMO will continue to monitor lakes, streams, wetland areas, stormwater BMPs, groundwater, and other ensures as needed to track trends over the long term and to comply with TMDL studies and Implementation Plans. The CCWMO will use data to evaluate the performance of programs, projects, and bet management practices. The CCWMO will coordinate monitoring efforts with other entities to identify and lidata gaps, promote efficiency, and increase data availability. The CCWMO will coordinate monitoring efforts with other entities to identify and lidata gaps, promote efficiency, and increase data availability. The CCWMO will coordinate monitoring efforts with other entities to identify and fil data gaps, promote efficiency, and increase data availability. The CCWMO will arcent entities and stakeholders to monitor the extent of aquatic invasive species (AIS) within the watershed. Promote the preservation of natural vegetat	ч , ч , х , ч , ч	Impaired.TMDL Groundwater Cooperation Stormwater Monitoring Groundwater Impaired.TMDL Monitoring

			The CCWMO recognizes and supports education as a key to the protection of				
Education as tool to protect water			surface water and groundwater resources. The CCWMO will develop, approve and maintain an education plan that outlines education efforts and is reviewed				
K540 MP16 Carver County WR resources	Education	Specific policy				Y	Public engagement Groundwater
						-	
			The CCWMO will create campaigns for specific target audiences to encourage				
K541 MP16 Carver County WR Targeted campaigns	Education	Specific policy	behavior changes that protect surface water and groundwater resources.			Y	Public engagement Groundwater
			The CCWMO will track information on participation and engagement in				
			educational programs. The information will be used to evaluate the				
K542 MP16 Carver County WR Education program effectiveness	Education	Specific policy	effectiveness of different education strategies.				Public engagement.education
			The CCWMO will continue to develop feasibility and other studies to evaluate options to protect, manage, and improve surface water and groundwater				
K543 MP16 Carver County WR Feasibility studies	Water Resource preservation	Specific policy					Groundwater
KSHS WITE Carver county with reasonity studies	water nesource preservation	Specific policy	The CCWMO will develop or partner in the development of TMDLs and				Groundwater
			Implementation Plans for listed impaired waters within the CCWMO, with the				
			final goal of EPA approval for TMDL Studies for all listed impaired waters within				
K544 MP16 Carver County WR TMDLs	Impaired waters	Specific policy	the watershed.				Impaired.TMDL
			The CCWMO will communicate regularly and effectively with partners, state				
K545 MP16 Carver County WR Effective Communication	Coordination	Specific policy	agencies, and other entities to make programs more effective.				Cooperation
			The CCWMO will maintain an up-to-date plan document by periodically				
KEAG MOTO County WO Disconsistent	Diana	Constitution	amending the plan to incorporate newly completed studies, update the project		v		
K546 MP16 Carver County WR Plan amendment	Plans	Specific policy	The CCWMO will investigate and demonstrate applicable new and innovative		^		
K547 MP16 Carver County WR Innovative BMPs	Pollution	Specific policy	BMPs which have the potential to reduce pollutants to water bodies.		x		
		, come poney	Establish stormwater BMP monitoring sites for intensive monitoring to review		~		
			efficiencies of specific BMP type. Data will be used to update County				
K548 MP16 Carver County WR BMP monitoring and effectiveness	Stormwater	Specific policy	Stormwater Ordinances.			Y	Stormwater Monitoring
			CCWMO will host an annual stormwater workshop designed to educate				
			developers, local officials, planners, engineers and decision makers about				
			stormwater BMPs and new methods and developments in stormwater				
K549 MP16 Carver County WR Stormwater workshop	Stormwater	Specific policy	researcn.				Stormwater
			Require that all building permits and subdivisions comply with Minnesota				
K55 CP1 Scott building permit enforcement	Natural Corridors	Specific action	Department of Natural Resources floodplain standards and shoreland statutes.			Y	Flood Corridors
iss ar store building permit enforcement	Hatara comaon	Specific decion	The CCWMO will provide seminars and workshops for homeowners on topics				
K550 MP16 Carver County WR Homeowner workshops	Water Resource preservation	Specific policy	including shorelines, sustainable landscaping, and raingardens.				Public engagement.education
			The CCWMO will identify behaviors that protect water resources. The CCWMO				
			will research each behavior and select behaviors with the following qualities for				
			campaigns: highest impact, highest probability of citizens adoption, and least				
K551 MP16 Carver County WR Behaviors that protect water resource	Water Resource preservation	Specific policy	amount of current participation.				Public engagement.education
KEE2 MD1C County WD Location and admittation with	Gullys	Constitution	The CCWMO will identify gully locations within the watershed and use monitoring and other data to prioritize areas for restoration.			v	Monitoring Steep slopes
K552 MP16 Carver County WR Locating and prioritizing gullys	Gullys	Specific policy	The CCWMO will further pursue restoration of the highest priority sites			T	Monitoring Steep slopes
			identified in the wetland restoration prioritization. The CCWMO will work				
			toward restoring wetlands in cooperation with existing programs through				
			agencies such as the Board of Water and Soil Resources, U.S. Fish and Wildlife				
			Service, Soil and Water Conservation District, and Reinvest in Minnesota, or				
K553 MP16 Carver County WR Wetland restoration	Wetlands	Specific policy	through regional stormwater planning by the LGU.			Y	Stormwater Cooperation
			East Chaska Creek Chain of Lakes SWA Implementation. Collaborate with the				
			City of Chaska to implement strategies identified in the East Chaska Creek				
			Chain of Lakes Subwatershed Analysis Feasibility Study. Projects would reduce impervious surfaces and add stormwater treatment for currently untreated				
			areas and improve the quality of stormwater runoff reaching the East Chaska				
			Creek Chain of Lakes. Projects will be completed as time and funding allow.				
			East Chaska Creek East Chaska Creek Chain of Lakes (Priority 2) Stormwater				
East Chaska Creek Chain of Lakes SWA			Retrofit City of Chaska 2020-2021 2022-2023 2024-2025 2026-2027 2028-2029				
K554 MP16 Carver County WR Implementation	Stormwater	CIP	\$200,000 \$50,000	2020 to 2029	\$200,000	Y	Stormwater Cooperation CIPs.Projects
			Stream Restorations. Restore stream reaches that have been altered by human				
			activities to a more natural/stable state. Restoration practices may include				
			remeandering, reconnection to floodplains, reconnection to historical stream				
			beds, abandoning maintenance schedules, and other BWSR approved practices.				
			Watershed wide Watershed wide Stream Restoration SWCD; NRCS; CROW; DNR; Army COE 2020-2021 2022-2023 2024-2025 2026-2027 2028-2029				
K555 MP16 Carver County WR Stream restorations	Water resource restoration	CIP	DNR; Army COE 2020-2021 2022-2023 2024-2025 2026-2027 2028-2029 \$500,000 \$100,000	2020 to 2029	\$500,000	v	Flood CIPs.Projects
ASSS MILLO CONCECCUALLY WIN SURGER RESULTATIONS	water resource restoration	en .	Bank Stabilization. Stabilize eroded and degraded streambanks to reduce	2020 10 2023	<i>~300,000</i>		nood en an rojecta
			erosion into streams. The CCWMO will prioritize projects that project				
			infrastructure and utilize natural armoring to stabilize banks. Watershedwide				
			Watershedwide Bank Stabilization 2020-2021 2022-2023 2024-2025 2026-2027				
K556 MP16 Carver County WR Bank stabilization	Erosion	CIP	2028-2029 \$300,000 \$150,000	2020-2029	\$300,000	Y	Sediment.Erosion CIPs.Projects
			SSTS Direct Discharge Incentives. In 2007, the County Board established a cost				
			share program to accelerate the elimination of direct discharge SSTS. The program offers direct incentives and low-interest loans to landowners to fix				
			program offers direct incentives and low-interest loans to landowners to fix these systems. Watershedwide Watershedwide SSTS upgrades Environmental				
			Services Dept. 2020-2021 2022-2023 2024-2025 2026-2027 2028-2029 \$600,000				
			\$600,000 Replacement of direct discharge SSTS will be complete in the Bevens				
			and Carver Creek Subwatershed in 2019 and then focus will shift to the South				
K557 MP16 Carver County WR Elimination of direct discharge SSTS	Pollution	CIP	Fork Crow River and East and West Chaska Creek.	2020 to 2029	\$600,000	Y	CIPs.Projects Natural Resource Protection
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		Stormwater Retrofits in Untreated Urban			Stormwater Retrofits in Untreated Urban Areas. Collaborate with cities, business, and other landowners to implement stormwater retrofits practices in areas with minimal or no stormwater treatment that improve water quality in priority waterbodies. Untreated areas have been identified in local water plasa. Watershedwide Watershedwide Stormwater Retrofit Local Partners 2020-2021		400.000				
558 MP16 Carve	er County WR	Areas	Stormwater	CIP	Turf to Prairie/Forest Initiative. Restore large areas of managed turf grass to prairie/forest to conserve groundwater and improve the quality of stormwater	2020 to 2029	\$400,000	Y	Stormwater	Cooperation	CIPs.Projects
559 MP16 Carve	er County WR	Turf to Prairie/Forest Initiative	Habitat	CIP		2020 to 2029	\$100,000	Y	Stormwater	Groundwater	CIPs.Projects
56 CP1 Scott	t	storm water storage	Natural Corridors	Specific action	Promote restoration and utilization of natural storm water storage areas for wildlife, aesthetics, and storm water management				Corridors		
					Wetland Restoration. Restore priority wetland restoration areas as identified in the wetland restoration area prioritization. Watershedwide Watershedwide						
60 MP16 Carve	er County WR	Wetland Restoration	Wetlands	CIP		2022 to 2029	\$50,000	Y	CIPs.Projects	Wetlands	
					Carver Creek Floodplain Reconnection. Reconnect a degraded and historically ditched section of Carver Creek to its floodplain to reduce bank degradation						
61 MP16 Carve	er County WR	Carver Creek Floodplain Reconnection	Floodplains	CIP	and soil loss. Carver Creek Carver Creek Stream Restoration City of Carver, US Fish and Wildlife Service, SWCD 2022-2023 \$100,000 \$50,000	2022 to 2023	\$100,000	Y	Flood	CIPs.Projects	
					Carver Creek Gully Stabilization. Stabilize a large gully on Carver Creek in Dahlgren Township (Section 26). Carver Creek Carver Creek (Priority 2) Bank						
62 MP16 Carve	er County WR	Carver Creek Gully Stabilization	Erosion and gullys	CIP	Stabilization SWCD, NRCS 2024-2025 \$40,000 \$10,000	2024 to 2025	\$40,000	Y	Sediment.Erosia	n Steep slopes	CIPs.Projects
					Dahlgren Road Stormwater Retrofit. Address stormwater issues along Dahlgren Road west of County Road 11. Stormwater from the road surface currently drains untreated to Timber Creek, a tributary of Carver Creek. Carver Creek						
63 MP16 Carve	er County WR	Dahlgren Road Stormwater Retrofit	Stormwater	CIP	Timber Creek Stormwater Retrofit Dahlgren Township, City of Carver 2022-2023	2022 to 2023	unknown	Y	Stormwater	CIPs.Projects	
		East Chaska Creek Chain of Lakes			East Chaska Creek Chain of Lakes Reclamation - Phase 1. Implement methods to control carp opoulations and improve water quality in the East Creek Chain of Lakes as identified in the Drawdown Feasibility Study. This phase would focus on Hazeltine Lake. East Chaska Creek East Chaska Creek Chain of Lakes						
54 MP16 Carve	er County WR	Reclamation - Phase 1	Water quality	CIP	(Priority 2) Lake Restoration City of Chaska 2024-2025 \$200,000 \$75,000 East Chaska Creek Chain of Lakes Reclamation - Phase 2. Implement methods	2024 to 2025	\$200,000	Y	CIPs.Projects	Impaired.TMDL	
		East Chaska Creek Chain of Lakes			to control carp populations and improve water quality in the East Creek Chain of Lakes as identified in the Drawdown Feasibility Study. This phase would focus on Big Woods, McKnight, Jonathan and Grace Lakes. East Chaska Creek						
65 MP16 Carve			Water quality	CIP	East Chaska Creek Chain of Lakes (Priority 2) Lake Restoration City of Chaska 2026-2027 \$225,000 \$75,000	2026 to 2027	\$225,000	Y	CIPs.Projects	Impaired.TMDL	
566 MP24 Henn	again ND	Protect and restore lakes, rivers and streams	Water Resource protection	Concific action	Track the quality of the county's water resources. To assess long-term trends in the quality of the county's water resources, the county will use available data to track annual conditions on 50 reference lakes. To avoid duplication of monitoring efforts, the county will use data collected by watersheds, cities and other groups. The county will also monitor the state's impaired waters list and resulting Total Maximum Daily Load (TMDL) studies, which set pollutionreduction goals needed to restore waters. This information will be shared with the county board, partners and the public to increase awareness of the status of our water resources and to guide decisions.			v	Monitoring	CIPs.Projects	Impaired.TMDL
<u></u>		Work with partners to implement water quality restoration and protection		Specific action	Work with partners to implement water quality restoration and protection projects to imporve impaired water resources. To remediate impaired waters and support local leads on TMDLs, the county provides technical and financial assistance to partners to implement best management practices. These practices capture and filter stormwater to slow and reduce runoff, reduce				Womtoning	Ch 3. Pojecta	inganeu. moe
67 MP24 Henn	nepin NR		Impaired waters	Specific action	erosion and sedimentation, preserve and establish native vegetation and vegetative buffers, and enhance wildlife habitat.			Y	Stormwater	Sediment.Erosion	Impaired.TMDL
		Provide technical assistance and education to residents, municipalities, watershed management groups and other county departments to protect and			Conducting area-wide assessments regarding water quality, wetlands, erosion and floodplain issues. The county also undertakes specific watershed and resource-based assessments to identify and prioritize the implementation of						
68 MP24 Henn	перій NK	Reduce the impacts of stormwater runoff	Assessments	specific action	best management practices that protect and restore water resources. The county will promote the implementation of low-impact development and green infrastructure for newly developed and redeveloped properties,			Y	Flood	Sediment.Erosion	
i69 MP24 Henn	nepin NR	through the implementation of best management practices.	Stormwater	Specific action	agricultural best practices, wetland restorations and innovative stormwater management practices where applicable.			Y	Stormwater	Low Impact Devel	
7 CP1 Scott			Natural Corridors		Require natural vegetative buffer areas along all bluffs, lakes, wetlands, creeks,				Corridors		
		Reduce the impacts of stormwater runoff through the implementation of best			The county will also continue to research and implement state-of-the-art methods of applying chloride to reduce water pollution while maintaining safe						
70 MP24 Henn	nepin NR		Stormwater	Specific action	To effectively protect and improve groundwater resources, the county will support cooperative planning efforts that will evaluate existing data, identify additional data needs, and assess the susceptibility of our surface and				Stormwater		
571 MP24 Henn	nepin NR	Support planning and education efforts to protect groundwater resources. Support planning and education efforts	Groundwater	Specific action	groundwater resources to current and projected levels of groundwater withdrawal, contamination and other threast. Through the Hennepin Natural Resource Partnership, the county will provide a forum for partner engagement in groundwater issues to improve related decision-making processes and build a strong base of support for groundwater			Y	Cooperation	Groundwater	

				The county will continue to work with the Minnesota Department of Natural		
				Resources, the Minnesota Department of Health and the Metropolitan Council		
				to assist local communities in identifying groundwater protection needs and		
	Support planning and education efforts			integrating groundwater issues with other local planning efforts, such as		
K573 MP24 Hennepin NR	to protect groundwater resources.	Groundwater	Specific action	growth management plans		Groundwater
				The county will work with partners to improve the understanding of		
				groundwater and surface water interactions and its influence on the county's		
	work with partners to improve the			groundwater-dependent natural resources. The county will also explore		
	understanding of groundwater and			opportunities to collaborate with partners to promote water conservation		
K574 MP24 Hennepin NR	surface water interactions	Groundwater	Specific action	messages.	v	Cooperation Groundwater
K574 MP24 Hennepin NR	surface water interactions	Groundwater	specific action	Using the county's Geographic Information System, staff will evaluate the	T	Cooperation Groundwater
				locations of contaminated sites with the goal of identifying contaminated sites		
				that may pose significant risks to groundwater resources. Although the		
				regulatory authority for the protection of groundwater rests with the		
				Minnesota Pollution Control Agency and the Minnesota Department of Health,		
	Advocate for the cleanup of			the county will work with state regulatory agency staff, municipalities, and,		
	contaminated sites with the potential to			where necessary, landowners to advocate for the cleanup of sites that pose a		
	significantly impact groundwater			high risk to the environment and/or		
K575 MP24 Hennepin NR	resources.	Groundwater	Specific action	human health		Groundwater
				The county will work with partners to conduct a thorough analysis of the		
	Identify the highest-quality wetlands to			function and environmental benefits of the wetlands in the county. This		
	ensure their protection and determine			analysis will help set priorities for protecting the highest-quality wetlands and		
	impacted wetlands suitable for			identifying and restoring wetlands that provide the biggest benefit to impaired		
KETC AND A Harraria MD		14/-+1	Constitution		v	CID: Designed TMDI
K576 MP24 Hennepin NR	restoration. Pursue the creation and restoration of	Wetlands	Specific action	Walers.	Y	CIPs.Projects Impaired.TMDL
	wetlands to establish wetland banking			To bolster the availability of mitigation credits within Hennepin County, the		
	credits, mitigate losses and remediate			county will identify, evaluate and pursue wetland restoration and funding		
K577 MP24 Hennepin NR	impaired waters within the county.	Wetlands	Specific action	opportunities on county-owned properties and tax-forfeited lands	Y	CIPs.Projects Impaired.TMDL
				the county will evaluate identified wetland restoration opportunities on county		
				properties, tax-forfeited lands and other available sites to determine those that		
	Prioritization of Identified restoration			should be prioritized based on their functions to help address water quality and		
K578 MP24 Hennepin NR	opportunities	Wetlands	Specific action	quantity impairments.	Y	CIPs.Projects Impaired.TMDL
				Every acre in the county has been identified and classified with respect to its		
				value as a natural area and habitat, laying the groundwork for long-term		
				protection and restoration of natural areas and important corridors or		
				greenways that facilitate the growth and movement of wildlife and native		
				vegetation between natural areas. Formally designating the best remaining		
				natural areas and corridors would better position the county and partners to		
				leverage funds for their protection and enhancement. The county will continue		
				to maintain an interactive Natural Resources Map that assists local		
	Identify, protect and restore the best			to maintain an interactive Natural Resources Map that assists local governments in managing growth and protecting their natural resources and		
K579 MP24 Hennepin NR	Identify, protect and restore the best remaining natural areas and corridors.	Corridors and natural areas	Specific action	to maintain an interactive Natural Resources Map that assists local governments in managing growth and protecting their natural resources and green spaces.		Corridors
	remaining natural areas and corridors.			to maintain an interactive Natural Resources Map that assists local governments in managing growth and protecting their natural resources and green spaces. Promote restoration of upland and wetland areas (see also Goal #VIII-2 for		
K58 CP1 Scott	remaining natural areas and corridors. Wetland restoration	Natural Corridors	Specific action	to maintain an interactive Natural Resources Map that assists local governments in managing growth and protecting their natural resources and green spaces.		Corridors
	remaining natural areas and corridors. Wetland restoration			to maintain an interactive Natural Resources Map that assists local governments in managing growth and protecting their natural resources and green spaces. Promote restoration of upland and wetland areas (see also Goal #VIII-2 for wetland restoration and protection.		
K58 CP1 Scott	remaining natural areas and corridors. Wetland restoration	Natural Corridors	Specific action	to maintain an interactive Natural Resources Map that assists local governments in managing growth and protecting their natural resources and green spaces. Promote restoration of upland and wetland areas (see also Goal #VIII-2 for wetland restoration and protection. , the county does not have a formal program to actively pursue and fund		Corridors
K58 CP1 Scott	remaining natural areas and corridors. Wetland restoration	Natural Corridors	Specific action	to maintain an interactive Natural Resources Map that assists local governments in managing growth and protecting their natural resources and green spaces. Promote restoration of upland and wetland areas (see also Goal #VIII-2 for wetland restoration and protection.		Corridors
K58 CP1 Scott	remaining natural areas and corridors. Wetland restoration	Natural Corridors	Specific action	to maintain an interactive Natural Resources Map that assists local governments in managing growth and protecting their natural resources and green spaces. Promote restoration of upland and wetland areas (see also Goal #VIII-2 for wetland restoration and protection. , the county does not have a formal program to actively pursue and fund		Corridors
K58 CP1 Scott	remaining natural areas and corridors. Wetland restoration	Natural Corridors	Specific action	to maintain an interactive Natural Resources Map that assists local governments in managing growth and protecting their natural resources and green space. Promote restoration of upland and wetland areas (see also Goal #VIII-2 for wetland restoration and protection , the county does not have a formal program to actively pursue and fund conservation easement opportunities. The county will explore options for		Corridors
K58 CP1 Scott	remaining natural areas and corridors. Wetland restoration	Natural Corridors	Specific action	to maintain an interactive Natural Resources Map that assists local governments in managing growth and protecting their natural resources and green spaces. Promote restoration of upland and wetland areas (see also Goal #VIII-2 for wetland restoration and protection. the county does not have a formal program to actively pursue and fund conservation easement opportunities. The county will explore options for establishing a board-adopted conservation easement program that provides guidance for the consideration of optential easement program that provides guidance for the consideration of optential easement program that provides guidance for the consideration of potential easement program that provides guidance for the consideration of potential easement program that provides guidance for the consideration of potential easement program that provides guidance for the consideration of potential easement program that provides guidance for the consideration the set of the consideration of potential easement program that provides guidance for the consideration easement program that provides guidance for the		Corridors
K58 CP1 Scott	remaining natural areas and corridors. Wetland restoration	Natural Corridors Habitat	Specific action	to maintain an interactive Natural Resources Map that assists local governments in managing growth and protecting their natural resources and green spaces. Promote restoration of upland and wetland areas (see also Goal #VIII-2 for wetland restoration and protection. , the county does not have a formal program to actively pursue and fund conservation easement opportunities. The county will explore options for establishing a board-adopted conservation easement program that provides	Y	Corridors Open and Green
K58 CP1 Scott K580 Map3 Hennepin NR Map	remaining natural areas and corridors. Wetland restoration Promote the establishment of conservation easements to protect	Natural Corridors Habitat	Specific action Specific action	to maintain an interactive Natural Resources Map that assists local governments in managing growth and protecting their natural resources and green spaces. Promote restoration of upland and wetland areas (see also Goal #VIII-2 for wetland restoration and protection. , the county does not have a formal program to actively pursue and fund conservation easement opportunities. The county will explore options for establishing a board-adopted conservation easement program that provides guidance for the consideration of potential easement properties as opportunities arise via tax-forfeiture, capital projects or private landowner	Y	Corridors
K58 CP1 Scott K580 Map3 Hennepin NR Map	remaining natural areas and corridors. Wetland restoration Promote the establishment of conservation easements to protect	Natural Corridors Habitat	Specific action Specific action	to maintain an interactive Natural Resources Map that assists local governments in managing growth and protecting their natural resources and green spaces. Promote restoration of upland and wetland areas (see also Goal #VIII-2 for wetland restoration and protection. , the county does not have a formal program to actively pursue and fund conservation easement opportunities. The county will explore options for establishing a board-adopted conservation easement program that provides guidance for the consideration of potential easement program that provides guidance for the consideration of potential easement programs as a poportunities arise via tax-forfeiture, capital projects or private landowner inquiries Through the county's work identifying and mapping critical habitats and	Y	Corridors Open and Green
K58 CP1 Scott K580 Map3 Hennepin NR Map	remaining natural areas and corridors. Wetland restoration Promote the establishment of conservation easements to protect	Natural Corridors Habitat	Specific action Specific action	to maintain an interactive Natural Resources Map that assists local governments in managing growth and protecting their natural resources and green spaces. Promote restoration of upland and wetland areas (see also Goal #VIII-2 for wetland restoration and protection. , the county does not have a formal program to actively pursue and fund conservation easement opportunities. The county will explore options for establishing a board-adopted conservation easement program that provides guidance for the consideration of potential easement program that provides guidance for the consideration of potential easement program that provides Through the county's work identifying and mapping critical habitats and wildlife coridors and the facilitation of the Hennepin Natural Resource	Y	Corridors Open and Green
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K58 CP1 Scott K580 Map3 Hennepin NR Map	remaining natural areas and corridors. Wetland restoration Promote the establishment of conservation easements to protect natural areas.	Natural Corridors Habitat Natural resource protection	Specific action Specific action	to maintain an interactive Natural Resources Map that assists local governments in managing growth and protecting their natural resources and green spaces. Promote restoration of upland and wetland areas (see also Goal #VIII-2 for wetland restoration and protection. , the county does not have a formal program to actively pursue and fund conservation easement opportunities. The county will explore options for establishing a board-adopted conservation easement properties as opportunities arise via tax-forfeture, capital projects or private landowner inquiries Through the county's work identifying and mapping critical habitats and wildlife corridors and the facilitation of the Hennepin Natural Resource Partnership, the county will collaborate with partners to encourage the incorporation of green spaces, sustainable landscaping practices and	Y	Corridors Open and Green
K58 CP1 Scott K580 Map3 Hennepin NR Map K581 MP24 Hennepin NR	remaining natural areas and corridors. Wetland restoration Promote the establishment of conservation easements to protect natural areas. Work with partners to preserve, enhance	Natural Corridors Habitat Natural resource protection	Specific action Specific action	to maintain an interactive Natural Resources Map that assists local governments in managing growth and protecting their natural resources and green spaces. Promote restoration of upland and wetland areas (see also Goal #VIII-2 for wetland restoration and protection. the county does not have a formal program to actively pursue and fund conservation easement opportunities. The county will explore options for establishing a board-adopted conservation easement program that provides guidance for the consideration of optential easement program that provides guidance for the consideration of optential easement program tas as opportunities arise via tax-forfeiture, capital projects or private landowner inquiries Through the county work identifying and mapping critical habitats and wildlife corridors and the facilitation of the Hennepin Natural Resource Partnership, the county will continue to colaborate with partners to encourage the incorporation of green spaces, sustainable landscaping practices and establishment and maintenance of tree canopies in developing and	Y	Corridors Open and Green High value easeme CIPs.Projects
K58 CP1 Scott K580 Map3 Hennepin NR Map	remaining natural areas and corridors. Wetland restoration Promote the establishment of conservation easements to protect natural areas. Work with partners to preserve, enhance and expand urban green spaces.	Natural Corridors Habitat Natural resource protection	Specific action Specific action	to maintain an interactive Natural Resources Map that assists local governments in managing growth and protecting their natural resources and green spaces. Promote restoration of upland and wetland areas (see also Goal #VIII-2 for wetland restoration and protection. , the county does not have a formal program to actively pursue and fund conservation easement opportunities. The county will explore options for establishing a board-adopted conservation easement properties as opportunities arise via tax-forfeture, capital projects or private landowner inquiries Through the county's work identifying and mapping critical habitats and wildlife corridors and the facilitation of the Hennepin Natural Resource Partnership, the county will collaborate with partners to encourage the incorporation of green spaces, sustainable landscaping practices and	Y	Corridors Open and Green
KS8 CP1 Scott KS80 Map3 Hennepin NR Map KS81 MP24 Hennepin NR	remaining natural areas and corridors. Wetland restoration Promote the establishment of conservation easements to protect natural areas. Work with partners to preserve, enhance and expand urban green spaces. Develop and implement sustinaible	Natural Corridors Habitat Natural resource protection	Specific action Specific action	to maintain an interactive Natural Resources Map that assists local governments in managing growth and protecting their natural resources and green spaces. Promote restoration of upland and wetland areas (see also Goal #VIII-2 for wetland restoration and protection. , the county does not have a formal program to actively pursue and fund conservation easement opportunities. The county will explore options for establishing a board-adopted conservation easement program that provides guidance for the consideration of potential easement program that provides guidance for the consideration of potential easement program tas and project to the county's work identifying and mapping critical habitats and wildlife cordings and the collaborate with partners to encourage the incorporation of green spaces, sustainable landscaping practices and establishment and maintenance of tree canopies in developing and redeveloping areas.	γ	Corridors Open and Green High value easeme CIPs.Projects
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K58 CP1 Scott K580 Map3 Hennepin NR Map K581 MP24 Hennepin NR	remaining natural areas and corridors. Wetland restoration Promote the establishment of conservation easements to protect natural areas. Work with partners to preserve, enhance and expand urban green spaces. Develop and implement sustainable landscaping guidelines and practices for county-funded projects and properties.	Natural Corridors Habitat Natural resource protection	Specific action Specific action Specific action	to maintain an interactive Natural Resources Map that assists local governments in managing growth and protecting their natural resources and green spaces. Promote restoration of upland and wetland areas (see also Goal #VIII-2 for wetland restoration and protection. , the county does not have a formal program to actively pursue and fund conservation easement opportunities. The county will explore options for establishing a board adopted conservation easement program that provides guidance for the consideration of potential easement program that provides guidance for the consideration of potential easement program that provides guidance for the consideration of potential easement program that provides guidance for the consideration of potential easement program that provides guidance for the consideration of potential easement program to actively pursue Through the county's work identifying and mapping critical habitats and wildlife corridors and the facilitation of the thenepin Natural Resource Partnership, the county will continue to collaborate with partners to encourage the incorporation of green spaces, sustainable landscaping practices and establishment and maintenance of tree canopies in developing and redeveloping areas. The county will promote the sustainable use of water and land, conserve soils and vegetation, support natural ecosystem functions and lessen maintenance	Υ Υ	Corridors Open and Green High value easeme CIPs.Projects
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K58 CP1 Scott K580 Map3 Hennepin NR Map K581 MP24 Hennepin NR	remaining natural areas and corridors. Wetland restoration Promote the establishment of conservation easements to protect natural areas. Work with partners to preserve, enhance and expand urban green spaces. Develop and implement sustinable landscaping guidelines and practices for county-funded projects and properties. Sustainable landscaping focuses on	Natural Corridors Habitat Natural resource protection Green space	Specific action Specific action Specific action	to maintain an interactive Natural Resources Map that assists local governments in managing growth and protecting their natural resources and green spaces. Promote restoration of upland and wetland areas (see also Goal #VIII-2 for wetland restoration and protection. the county does not have a formal program to actively pursue and fund conservation easement opportunities. The county will explore options for establishing a board-adopted conservation easement properties as opportunities arise via tax-forfeiture, capital projects or private landowner inquiries arise via tax-forfeiture, capital projects or private landowner Partnership, the county's work identifying and mapping critical habitats and wildlife corridors and the facilitation of the Hennepin Natural Resource Partnership, the county will promote the sustainable landscaping practices and establishment and maintenance of tree canopies in developing and redeveloping areas.	Y Y	Corridors Open and Green High value easeme CIPs.Projects Low Impact Devel Corridors Cooperation
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				The county will offer to help partners, including watershed districts, water						
				management organizations, cities and landowners, identify the types and						
				locations of high-quality soils, prime farmlands and erodible soils. The county						
	Assist partners in identifying high-priorit	У		will then work with partners to set priorities for conservation planning and						
	areas where soil erosion, sedimentation			implementation, install best management practices, stabilize shorelines and						
K587 MP24 Hennepin NR	and related water quality degradation is occurring.	Erosion and sedimentation	Constitute	establish vegetation buffers, and leverage outside funding sources such as the Natural Resources Conservation Services Fund.				Sediment Frosion		
K587 MP24 Hennepin NR	occurring.	Erosion and sedimentation	specific action	Natural Resources conservation services runu.				Sediment.Erosion		
				To provide a forum for a more holistic approach to natural resource						
				management, the county has convened a group of representatives from						
				watershed districts, water management organizations, cities, county						
				departments and state and regional natural resource agencies. The Hennepin						
				Natural Resources Partnership promotes collaborative land and water						
	Facilitate collaboration and coordination			management efforts on issues transecting political and hydrologic boundaries,						
	among natural resource management			encourages sharing of resources and information, increases opportunities to						
K588 MP24 Hennepin NR	groups.	Coordination	Specific action	leverage resources and provides a venue to address countywide policy issues.				Cooperation		
	Collaborate with partners to research									
	and promote innovative solutions to address regional issues and meet			The county will work with partners, including other governmental units, nonprofit organizations and educational institutions, to research, implement						
K589 MP24 Hennepin NR	common goals.	Innovation	Specific action	and promote innovative solutions to regional issues.				Cooperation		
K365 WF24 Helliepill WK	common goals.	Innovation	specific action	Protect environmentally sensitive areas characterized by hydric soils, steep				cooperation		
				slopes, tree massing, wetlands, lakes, floodplains, and shorelands from						
K59 CP1 Scott	Protect sensitive areas	Natural Corridors	General goal	degradation			Y	Unique.Sensitive.h Flood	Corridors	Steep slopes
				The county works with partners to deliver environmental education, allowing						
				the county to leverage resources, expertise and community connections. The						
				county will implement additional efforts to engage youth in hands-on, outdoor						
				educational experiences and service-learning projects. The county will also						
	Collaborate with partners to deliver			focus on reaching new and diverse audiences through peer-to-peer outreach						
K590 MP24 Hennepin NR	environmental education.	Education	Specific action	and culturally appropriate educational materials.				Cooperation		
	Work with partners to leverage resource									
	to implement projects and programs that	t		In an effort to lessen the burden on local taxpayers, the county will seek						
K591 MP24 Hennepin NR	meet common natural resource management goals.	Financial resources	Specific action	partners to jointly pursue grant funds on projects and programs that address common natural resources issues, needs and goals.				Cooperation		
K591 MP24 Hennepin NK	management goals.	Financial resources	specific action	Assess and address ravine erosion on three county parcels within the future				Cooperation		
				Blakeley Bluffs Park Reserve. Preliminary review suggests projects totaling in						
				the \$100,000 range. This project is likely to qualify for Clean Water Funding,						
				requring a 25% local match. Funding: \$75,000 Clean Water and \$25,000 County						
				Levy. The construction portion of this project is dependent on receiving the		30,000 &				
K592 CP1 Scott	Blakeley Bluffs Ravine Stabilization Phase	e Ravine Erosion	CIP	Clean Water grant. 2020	2019 & 2020	100,000	Y	Sediment.Erosion Steep slopes	CIPs.Projects	
	· ·			Land purchase of a property in the Blakeley Bluffs Park Reserve. The project				· ·		
				may also include an appraisal, survey, demolition, and boundary signs. NOTE:						
				75% of the funding would be provided through the Regional Park Acquisition						
				Opportunity Grant Program, with the 25% local match eligible for						
K593 CP1 Scott	Blakeley Bluffs Land Acquisition	Bluffs	CIP	reimbursement in future Regional Park CIP allocations. 480,000 2019		2019 \$480,000	Y	Unique.Sensitive.h CIPs.Projects		
	Minimize income of development of			Support and encourage clustered developments that respect the overall						
K594 CP1 Scott	Minimize impacts of development on natrual resources	Development	General goal	planned density for the area and that minimize the impact of development on the environment and significant natural features.				Low Impact Devel		
K354 CF1 3000	hat dai resources	Development	General goal	the environment and significant natural reatures.				Low Impact Devel		
				Encourage innovation in subdivision design and housing development through						
				the use of devices such as the cluster unit development concept, sustainable						
				development practices (low impact development, best management practices,						
				etc.), environmentally friendly building (green roofs, energy efficient materials,						
	Green innovative techniques for			LEED certified construction, etc.), and development techniques that conserve						
K595 CP1 Scott	development	Development	Specific policy	land and increase value, provided desired densities can be maintained.				Low Impact Devel		
	The Scott County Local Water Plan									
	(SCLWP) incorporates by reference the									
	June 2015 Amended LMRWD Plan's Land	1								
	& Water Resource Inventory and acknowledges the Nine Goals forming									
	the foundation of all actions to be taken									
	by the LMRWD during the life of the			Goal 8: Commercial and Recreational Navigation: To maintain and improve						
K596 MP23 Scott WR	Plan:	Recreational Boating		navigation and recreational use of the Lower Minnesota River				Navigation.boating		
	The Ports of Savage is a nationally									
	prominent port for the shipment of grain	i								
	and other commodities and provides the			The TH 13 Corridor at the Ports of Savage is a high funding priority for SCALE.						
	only commercial navigation access to the	2		This corridor is considered the highest transportation priority for SCALE and is						
	Minnesota River in the metropolitan			considered a multi-modal corridor serving regional and global markets. The						
K597 CP1 Scott	area.	Navigation	Specific issue	productivity of the Ports will be limited if TH 13 cannot efficiently serve them.				Navigation.boating		
				There are four boat launches onto the Minnesota River between Shakopee and						
K598 CP1 Scott		Recreational Boating		Jordan and one canoe access near Belle Plaine.				Navigation.boating		
	Describe a diversity of the l									
	Provide a diversity of natural resource									
	based outdoor education and recreational opportunities that are									
K599 CP1 Scott	accessible and affordable to all residents	Recreational Bosting		Prioritize water based recreation (swimming, fishing, boating).				Navigation.boating		
KUUU CFI SCOLL	accessione and anordable to all residents	. Necreational boating		Prioritize water based recreation (swimming, fishing, boating). Prepare Master Plan for regional trail connection from New Prague to the				wavigation.boating		
K6 CP1 Scott	Regional trail connection	Parks and trails	Specific Project	Minnesota River			Y	Increase River Use CIPs.Projects		
			Speeme riojett	Use the Natural Area Corridors map of high and medium priority natural			•			
K60 CP1 Scott	Protect sensitive areas	Natural Corridors	Specific action	resource areas for guiding land use development decisions.			Y	Unique.Sensitive.h Corridors		

	Minnesota Valley State Trail t is				
	underused: lack of signage to help users	5			
	find the trail, barriers to crossing				
	Highway 101 to get to it, lighting, safety				
	and visibility concerns, and difficulty				
K600 CP7 Ci-Shakopee	accessing the water with boats or kayaks	5. Recreational Boating		Require developers to identify environmentally sensitive natural resources,	Navigation.boating
K61 CP1 Scott	Protect sensitive areas	Natural Corridors Spe	pecific action	which may be impacted by their development. Y	Unique.Sensitive.h Corridors
		Hatalai comaois spe		Promote the use of concentrated and cluster development concepts to	onquesensaren condois
K62 CP1 Scott	Protect sensitive areas	Natural Corridors Spe	pecific action	encourage protection of natural features and prime agricultural land. Y	Unique.Sensitive.h Corridors
				Ensure the proper protection and preserve high priority environmentally	
				sensitive areas to ensure long-term protection using a suite of tools, from the	
	Protect sensitive areas			Public Value Incentive Program to acquisition of conservation easements from	
K63 CP1 Scott K64 CP1 Scott	Protect sensitive areas Protect sensitive areas	Natural Corridors Spe Natural Corridors Spe	pecific action pecific action	willing landowners Y Promote the protection and management of woodland resources Y	Unique.Sensitive.h High value easemer Corridors Unique.Sensitive.h Corridors
KO4 CP1 SCOLL	Floteet sensitive areas	Natural Corridors Spe	Jecific action	Coordinate with and promote programs by the Scott SWCD and watershed	Unique.sensitive.in corridors
K65 CP1 Scott	Protect sensitive areas	Natural Corridors Spe	ecific action	organizations that protect environmentally sensitive areas. Y	Unique.Sensitive.h Corridors
				Follow the bluff protection standards established by the SWMO and the	
K66 CP1 Scott	Protect sensitive areas	Natural Corridors Spe	pecific action		Unique.Sensitive.h Corridors
				Establish natural resource corridors that link and protect natural open spaces	
K67 CP1 Scott	Establish corridors that link and protect natural areas	Natural Corridors Ge		and environmentally sensitive areas, to retain the rural character of Scott County and provide for wildlife corridors. Y	Unique.Sensitive.h Corridors
NO/ CF1 SCULL	10(010/01003	Natural Comunis Ge	eneral goal	County and provide for windome controls. T	onique.sensitive.it contuors
				developments to preserve natural resource areas (common areas, conservation	
	Establish corridors that link and protect			easements, or part of lots) to serve as open space, natural environment areas,	
K68 CP1 Scott	natural areas	Natural Corridors Spe	pecific action	and to define rural residential areas. Y	High value easeme Corridors
				Coordinate with townships, cities, Three Rivers Park District, Watershed	
	Establish corridors that link and protect			Management Organizations, Scott SWCD and DNR to acquire and manage high value natural resources that serve as open space, natural environment areas,	
K69 CP1 Scott	natural areas	Natural Corridors Spe	ecific action	value natural residential areas. Y	Unique.Sensitive.h High value easemer Corridors
	indianal arcas	Hatala comucily spe	Jeenne dectori	Blakeley Bluffs Park Reserve Total Planned Size: 2,440 acres To Be Acquired:	onquesensaren ngir vide easener condors
K7 CP1 Scott	Create Blakeley Bluffs reserve	Parks and trails Spe	ecific Project	1,855 acres over the next 50 years Y	Unique.Sensitive.h CIPs.Projects
				Increase the awareness of the value and importance of natural resources, their	
K70 CP1 Scott	Limited Public Awareness	Public Investment Ge	eneral goal	protection, restoration, and stewardship Inform landowners on the proper application and rates of herbicides,	Public engagement.education
				inform landowners on the proper application and rates of neroicides, pesticides, and phosphorous fertilizers on lawns to prevent runoff to wetland	
				areas and to prevent contamination of ground water and surface water	
K71 CP1 Scott	Limited Public Awareness	Public Investment Spe	ecific action		Public engagement.education
		· ·		Inform landowners on the control of invasive/exotic plant species in lakes,	••
K72 CP1 Scott	Limited Public Awareness	Public Investment Spe	pecific action	greenways, and natural areas and open spaces.	Invasives Public engagement. Corridors
K73 CP1 Scott	Limited Public Awareness	Public Investment Spe	ecific action	Implement a volunteer program for open space maintenance and citizen stewardship activities.	Public engagement.education
K75 CF1 Stoll	Linited Fublic Awareness	Public Investment Spe	Jecific action	Inform landowners on the importance of habitat and natural communities	Public engagement.education
				management (e.g., lakescaping for wildlife and water quality, stream riparian	
K74 CP1 Scott	Limited Public Awareness	Public Investment Spe	ecific action	vegetation management, woodland management, and prairie management).	Public engagement.education
				To reduce public cost, support natural resource protection alternatives	
				available through conservation organizations and natural environment	
K75 CP1 Scott	Limited Public Awareness	Public Investment Spe	pecific action	programs. Provide technical assistance for landowners interested in natural resources	Public engagement.education
K76 CP1 Scott	Limited Public Awareness	Public Investment Spe	ecific action	stewardship.	Public engagement.education
K77 CP1 Scott	Limited Public Awareness	Public Investment Spe	pecific action	Support the Scott Clean Water Education Program (SCWEP) by the Scott SWCD	Public engagement.education
				Work to establish a regionally-focused land use and transportation planning	
				process that will ensure the preservation and management of both "green infrastructure" (i.e., Natural Area Corridors) and "gray infrastructure" (i.e.,	
K78 CP1 Scott	Greenways and green infrastructure	Natural Corridors Ge	eneral goal	Infrastructure (i.e., Natura Alea Condors) and gray infrastructure (i.e., highways, bridges).	Corridors
	.,			Promote a seamless transportation and greenway system encompassing trails,	
K79 CP1 Scott	Greenways and green infrastructure	Natural Corridors Spe	pecific action	transitways, and all functional classes of roadways.	Corridors
V0 004 - ···	Preservation of qualities of Blakeley			Preservation of the scenic, natural and cultural qualities of the Blakeley Bluffs	
K8 CP1 Scott	Bluffs and Minnesota River Valley area	Parks and trails Spe	ecific Project	and Minnesota River Valley area; Y Consider Natural Area Corridors in the placement, design, and construction of	Natural Resource F Trails
K80 CP1 Scott	Greenways and green infrastructure	Natural Corridors Spe	ecific action	Consider Natural Area Corrido's in the placement, design, and construction of transportation infrastructure.	Corridors
	,, , , , , , , , , , , , , , , , , , , ,			Coordinate with the Scott SWCD and SWMO to create wetland banks and	
K81 CP1 Scott	Greenways and green infrastructure	Natural Corridors Spe	pecific action	prioritize local replacement.	Corridors
				Protect and preserve agricultural uses and the economic viability of farming	
K82 CP1 Scott	Protect and preserve agriculture	Agricultural Resource Ge	eneral goal	operations. The preservation of agricultural uses and operating farms within the	Agriculture
				agricultural areas shall be a priority in all planning and development decisions.	
				Coordinate with the U of M Extension Service where appropriate. Reason:	
				Maintaining expansive farming areas is an important element of the County's	
				2040 Vision. Prime agricultural land is a resource that should be protected at a	
K83 CP1 Scott	Protect and preserve agriculture	Agricultural Resource Spe	ecific action	priority reflective of its relative benefit to society.	Agriculture
				Limit residential development in the areas planned for long-term agriculture to very low densities that preserve the majority of the land for agricultural	
				purposes. Reason: Residential development in long-term agricultural areas	
				should be limited use to the importance of agriculture on the local economy	
K84 CP1 Scott	Protect and preserve agriculture	Agricultural Resource Spe	ecific action	and the lack of necessary infrastructure to handle new growth.	Agriculture

				Support local, state, and federal programs designed to assist farming	
				operations, support conservation and natural resource management programs,	
				and provide educational and public informational services. These programs	
				include enrollment in the Agricultural Preserves and Green Acres programs. Reason: Agriculture is a local industry that provides iobs and taxes for	
				residents. Conservation programs protect natural and water resources that	
K85 CP1 Scott	Protect and preserve agriculture	Agricultural Resource	Specific action	enable agriculture to be sustainable.	Agriculture
	· · ·	•		Promote a locally-based food production system by preserving small lot farms	· · · · · · · · · · · · · · · · · · ·
				used for fruit and vegetable production; supporting public institutions in	
				purchasing food grown within the County; assisting in improving connections	
				between local food producers and consumers; and assisting local governments	
				in developing strategies that will promote a locally-based food production	
K86 CP1 Scott	Protect and preserve agriculture	Agricultural Resource	Specific action	system. Periodically engage a farmer advisory group to form recommendations	Agriculture
				regarding maintaining the viability of farming and preserving farmland in Scott	
				County. The group should consist of farmers from a variety of farming	
				operations within Scott County. Reason: Receiving input from the farmer	
				advisory group will help position the County to develop and implement policies	
				that support farmers and their farming operations to ensure agriculture	
K87 CP1 Scott	Protect and preserve agriculture	Agricultural Resource	Specific action	remains a viable industry.	Public engagement.education
				Encourage agricultural land uses to operate in a manner that is consistent with	
K00 CD1 Carth			Conservations	this Plan's goals and policies for water and natural resources and parks, trails,	A
K88 CP1 Scott	Agricultural impacts	Agricultural Resource	General goal	and open space.	Agriculture
				Agricultural land uses should be encouraged to utilize best management	
				practices and observe conservation practices that prevent erosion and preserve	
				natural resources. Reason: Agriculture is an intensive land use because it has	
				the potential for significant impacts on storm water conveyance systems,	
				ground water resources and air quality. Agriculture is a necessary land use for	
				society but can be accomplished with reduced adverse impacts by adhering to	
				recognized best management practices. Failure to do so can destroy the long- term productivity of the land and contaminate ground water resources for	
K89 CP1 Scott	Agricultural impacts	Agricultural Resource	Specific action	ferm productivity of the land and contaminate ground water resources for future generations, resulting in flooding, erosion problems, and air pollution.	Flood Sediment Frosion
K89 CP1 Scott	Agricultural impacts	Agricultural Resource	specific action	Spring Lake Regional Trail - a "destination trail"	Flood Sediment.Erosion
				connecting Spring Lake Regional Park in Prior Lake to Lagoon Park in Jordan (a	
				future hub of	
				regional trails), the Minnesota Valley State Trail, and a future Carver County	
	Spring Lake Regional Trail connecting			regional park along	
K9 CP1 Scott	parks and trails	Parks and trails	Specific Project	the Minnesota River bluffs Y	Increase River Use CIPs.Projects
				New or expanding feedlots resulting in over 500 animal units or more shall be regulated to minimize impacts on existing residences and the environment.	
				regulated to minimize impacts on existing residences and the environment. Reason: Large feedlots present the potential for greater impacts to the	
				environment than traditional smaller labor intensive operations. Feedlots and	
				environment chan traditional sinale habor mensive operations, records and	
				protection, air quality, storm water runoff, insect control, and public health.	
				These intensive land uses should be controlled to prevent adverse impacts that	
K90 CP1 Scott	Agricultural impacts	Agricultural Resource	Specific action	are detrimental to society and the long-term economy of the area.	Agriculture
				Explore opportunities through the University of Minnesota's Resilient	
				Communities Program or similar student-led research programs to address	
K91 CP1 Scott	Agricultural impacts	Agricultural Resource	Enocific action	items such as identifying methods to diversifying agricultural land with perennial crops.	Agriculture
K91 CP1 Scott	Agricultural Impacts	Agricultural Resource	specific action	Coordinate with Scott SWCD and the watershed management organizations to	Agriculture
				provide technical and financial assistance to assist landowners and farmers	
				with protecting and improving the health of their soils, and protect their land	
K92 CP1 Scott	Agricultural impacts	Agricultural Resource	Specific action	from excessive erosion.	Sediment.Erosion
				Protect active farming operations from the encroachment of conflicting	
K93 CP1 Scott	Protect farming from encroachment	Agricultural Resource	General goal	residential land uses through the use of clustering.	Agriculture
				Clustering of residential development shall be limited to areas where it can be	
				demonstrated that it does not conflict with agricultural uses. Reason: Clustering of residential uses into areas, which are less productive and which	
				do not conflict with the primary land use, provides for some economic support	
				to farmers who have land less suitable for farming. It also provides a residential	
				living option to satisfy this relatively small market need.	A main datum
K94 CP1 Scott	Protect farming from encroachment	Agricultural Resource	Specific action		Agriculture
				Support the protection of farming from nuisance violations when conflicts	
K94 CP1 Scott K95 CP1 Scott	Protect farming from encroachment Protect farming from nuisance violations		Specific action General goal		Agriculture
				Support the protection of farming from nuisance violations when conflicts between agricultural uses and residential development occur.	
				Support the protection of farming from nuisance violations when conflicts between agricultural uses and residential development occur. When nuisance complaints and conflicts occur between agricultural practices	
				Support the protection of farming from nuisance violations when conflicts between agricultural uses and residential development occur. When nuisance complaints and conflicts occur between agricultural practices and land uses, agriculture—because of its long and vital economic benefits and	
				Support the protection of farming from nuisance violations when conflicts between agricultural uses and residential development occur. When nuisance complaints and conflicts occur between agricultural practices and land uses, agriculture—because of its long and vital economic benefits and historical roots—will be considered to be the prevailing land use. Reason:	
				Support the protection of farming from nuisance violations when conflicts between agricultural uses and residential development occur. When nuisance complaints and conflicts occur between agricultural practices and land uses, agriculture—because of its long and vital economic benefits and	
				Support the protection of farming from nuisance violations when conflicts between agricultural uses and residential development occur. When nuisance complaints and conflicts occur between agricultural practices and land uses, agriculture—because of its long and vital economic benefits and historical roots—will be considered to be the prevailing land use. Reason: Farming remains a vital industry in parts of central and southwestern Scott	
		Agricultural Resource	General goal	Support the protection of farming from nuisance violations when conflicts between agricultural uses and residential development occur. When nuisance complaints and conflicts occur between agricultural practices and land uses, agricultura—because of its long and vital economic benefits and historical roots—will be considered to be the prevailing land use. Reason: Farming remains a vital industry in parts of central and southwestern Scott County. While growth continues in the unincorporated areas, responses from previous planning surveys indicated residents support the longevity of agricultural practices and protection of farmers" rights from new developments.	
K95 CP1 Scott	Protect farming from nuisance violations	Agricultural Resource	General goal	Support the protection of farming from nuisance violations when conflicts between agricultural uses and residential development occur. When nuisance complaints and conflicts occur between agricultural practices and land uses, agriculture-because of its long and vital economic benefits and historical roots-will be considered to be the prevailing land use. Reason: Farming remains a vital industry in parts of central and southwestern Scott County. While growth continues in the unicorporated areas, responses from previous planning surveys indicated residents support the longevity of agricultural practices and protection of farmers' rights from new developments. Encourage townships to adopt Rhight-to-Farm ordinances based on state	Agriculture
K95 CP1 Scott	Protect farming from nuisance violations	Agricultural Resource	General goal	Support the protection of farming from nuisance violations when conflicts between agricultural uses and residential development occur. When nuisance complaints and conflicts occur between agricultural practices and land uses, agriculture-because of its long and vital economic benefits and historical roots – will be considered to be the prevailing land use. Reason: Farming remains a vital industry in parts of central and southwestern Scott County. While growth continues in the unincorporated areas, responses from previous planning surveys indicated residents support the longevity of agricultural practices and protection of farmers' rights from new developments. Encourage townships to adopt Right-to-farm ordinances based on state regulations. Nuisance violations related to non-agricultural operations shall not	Agriculture
K95 CP1 Scott	Protect farming from nuisance violations	Agricultural Resource	General goal	Support the protection of farming from nuisance violations when conflicts between agricultural uses and residential development occur. When nuisance complaints and conflicts occur between agricultural practices and land uses, agriculture- because of its long and vital economic benefits and historical roots—will be considered to be the prevailing land use. Reason: Farming remains a vital industry in parts of central and southwestern Scott County. While growth continues in the unicorporated areas, responses from previous planning surveys indicated residents support the longevity of agricultural practices and protection of farmers" rights from new developments. Encourage townships to adopt Right-to-Farm ordinances based on state regulations. Nuisance violations related to non-agricultural operations shall not be protected by Right-to-Farm ordinances.	Agriculture
K95 CP1 Scott	Protect farming from nuisance violations	Agricultural Resource	General goal	Support the protection of farming from nuisance violations when conflicts between agricultural uses and residential development occur. When nuisance complaints and conflicts occur between agricultural practices and land uses, agriculture—because of its long and vital economic benefits and historical roots—will be considered to be the prevailing land use. Reason: Farming remains a vital industry in parts of central and southwestern Scott County. While growth continues in the unicorporated areas, responses from previous planning surveys indicated residents support the longevity of agricultural practices and protection of farmers' rights from new developments. Encourage townships to adopt Right-to-Farm ordinances based on state regulations. Nuisance violations related to non-agricultural operations shall not be protected by Right-to-Farm ordinances. Reason: To protect farmers from nuisance complaints and help sustain agricultural use, Right-to-Farm	Agriculture
K95 CP1 Scott	Protect farming from nuisance violations	Agricultural Resource	General goal	Support the protection of farming from nuisance violations when conflicts between agricultural uses and residential development occur. When nuisance complaints and conflicts occur between agricultural practices and land uses, agriculture- because of its long and vital economic benefits and historical roots—will be considered to be the prevailing land use. Reason: Farming remains a vital industry in parts of central and southwestern Scott County. While growth continues in the unicorporated areas, responses from previous planning surveys indicated residents support the longevity of agricultural practices and protection of farmers" rights from new developments. Encourage townships to adopt Right-to-Farm ordinances based on state regulations. Nuisance violations related to non-agricultural operations shall not be protected by Right-to-Farm ordinances.	Agriculture
K95 CP1 Scott	Protect farming from nuisance violations	Agricultural Resource	General goal	Support the protection of farming from nuisance violations when conflicts between agricultural uses and residential development occur. When nuisance complaints and conflicts occur between agricultural practices and land uses, agricultural beconsidered to be the prevailing land use. Reason: Farming remains a vital attochard and southwestern Scott County. While growth continues in the unincorporated areas, responses from previous planning surveys indicated residents support the longevity of agricultural practices and protection of farmers' rights from new developments. Encourage townships to adopt Right-to-Farm ordinances based on state regulations. Nuisance violations related to non-gricultural operations shall not be protected by Right-to-Farm ordinances. Reason: To protect farmers from nuisance complaints and help sustain agricultural uses, Right-to-farm ordinances have been established throughout the state and nation. These	Agriculture

					Identify significant densits of aggregate materials (includes cand, gravel, silica			
					Identify significant deposits of aggregate materials (includes sand, gravel, silica			
					sand, crushed rock and limestone), and where appropriate, consider			
		Preserve and protect non-metallic			preservation and protection for future access and resource-based activities that			
98 CP1	Scott	mineral deposits.	AGGREGATE RESOURCE	Specific Action	provide for a diverse, regional, and sustainable economy and environment.		Natural Resource Protection	
					Encourage aggregate resources to be extracted prior to development of an			
					aggregate-rich site. Reason: Due to increasing demand and shrinking supply of			
		Preserve and protect non-metallic			construction grade resources, aggregates should be removed from a site before			
99 CP1	Scott	mineral deposits.	AGGREGATE RESOURCE	Specific Action	development occurs. X			
-					Suggests recommendations for further study. Mitigation was not mentioned.			
		Active gullies are present throughout the			Additional work will be done 2021 to complete assessment of the entire			
	o	District			Additional work will be done 2021 to complete assessment of the entire		Sediment Frosion	
1 A1	Gully		Erosion, sedimentation, sediment	General	LMRWD.		Sediment.Erosion	
		UNNAMED #4 (NASS CREEK): Storm						
		sewer inflows and beaver activity warm						
		stream temperatures beyond acceptible			In its present condition, the stream does not warrant consideration for			
10 MP1	Trout Streams Gap	trout habitat.	Trout habitat	General	management as a trout stream.		Trout.Fen	
		UNNAMED #7: no longer designated as a						
		trout stream because of poor habitat,						
		including elevated water temperatures			Periodic assessment visits are suggested to determine whether the stream			
		and low baseflow. It also is subject to			conditions have improved sufficiently to warrant further consideration as a			
11 MD1	Trout Streams Can	excessive runoff from developed areas	Trout habitat	General	trout stream.	v	Development Trout.Fen	
1 10171	frout streams dap	These two resources are intimately	Hout habitat	General	trout stream.		Development Hout.ren	
		connected and are almost entirely						
		dependent on the sustained discharge of						
		groundwater. Both resources have shown	1					
		signs of decline. Understanding this						
		complex resource may help our			Both resources appear to be almost entirely dependent on reliable discharge of			
		understanding of similar resources			groundwater. Domestic and other competing groundwater withdrawals may be			
12 MP1 /	Seminary Fen / Ass	throughout the LMRWD.	Trout habitat / Fen viability	General	a threat to these resources.	Y	Groundwater Trout.Fen	
	, , ,	High Island Creek identified as the	,,					
		greatest contributor of TOTAL sediment						
		load to the Minnesota River. The lower						
		Minnesota River, adjacent to the						
		LMRWD, appears to be a depositional						
		area for much of the sediment from						
13 Mon1	Sediment	upstream.	Erosion, sedimentation, sediment	General	Not applicable		Sediment.Erosion	
		Quarry Island (Gun Club Lake North) Fen						
		has been damaged by roadway			Perform vegetation assessment to determine whether it harbors plant			
14 A5	Fens Analysis	construction and other development.	Fen viability	General	community consistent with a viable fen.	Y	Development Trout.Fen	
		Fort Snelling Fen (Gun Club Lake) Fen						
		threatened by nearby development and						
15 A5	Fens Analysis	competing water use.	Fen viability	General	Continue monitoring the water levels and fen vegetation.	Y	Monitoring Development Tro	out.Fen
		Nicols Meadow Fen is highly disturbed,						
10 10	Fens Analysis	threatened by competing water use and invasive plants.	Fen viability	General	Continue monitoring the water levels and fen vegetation.	v	Monitoring Invasives Tro	out.Fen
10 A5	Fens Analysis		Fen vlability	General	Continue monitoring the water levels and ren vegetation.	T	wontoring invasives ino	Jut.Fen
		Black Dog Lake Fen complex has been						
		degraded by a variety of outside			Reduction of nearby water withdrawals might benefit the fen, but recovery is			
17 A5	Fens Analysis	pressures.	Fen viability	General	uncertain.		Trout.Fen	
		Savage Fen complex is surrounded by						
		residential, commercial, and industrial						
		land use, with some agricultural land						
		uses. It faces ongoing pressure from						
18 A5	Fens Analysis	development and competing water uses.	Fen viability, SNA	General	Continue monitoring the water levels and fen vegetation.	Y	Monitoring Development Tro	out.Fen
		Seminary Fen is thought to have some of			· •			
		the finest fen features, including a						
		prominent peat dome and an excellent						
		community of native fen plant species.						
		Competing water withdrawals appear to						
19 A5	Fens Analysis		Fen viability, SNA	General	Continue monitoring the water levels and for ungestation	~	Monitoring Trout.Fen	
.5 A5	rens Analysis	be a threat to the fen viability.	ren viability, SNA	General	Continue monitoring the water levels and fen vegetation.		womening frout.ren	
		Assumption, Eagle, and Ike's creek all						
		have viable trout habitat with some						
		channel stability issues. Kennally's and						
		unnamed streams have serious habitat			Streams assessed generally were found to have good trout habitat, but there			
2 A3	Trout Geomorphole		Trout habitat	General	were signs of channel degradation that warrant remedial measures.		Trout.Fen	
		Brickyard Clayhole Lake is a water-filled		-				
		excavation that has been considered for						
		mangement as a trout fishery. Runoff						
		from significant parts of the watershed			Lake does not appear to reliably maintain thermal stratification which could			
			Trout lakes	General	provide the cold water needed by trout.		Trout.Fen	
'0 MP3	Lakes				,			
20 MP3	Lakes	Courthouse Lake is a water-filled						
<u>10 MP3</u>	Lakes	Courthouse Lake is a water-filled						
20 MP3	Lakes	excavation that is manged as a trout						
20 MP3	Lakes	excavation that is manged as a trout fishery. Runoff from significant parts of						
		excavation that is manged as a trout fishery. Runoff from significant parts of the watershed have been diverted			Lake routinely develops thermal stratification providing the cold water that is			
20 MP3 21 MP3		excavation that is manged as a trout fishery. Runoff from significant parts of the watershed have been diverted elsewhere.	Trout lakes	General	Lake routinely develops thermal stratification providing the cold water that is needed by trout. Managed by the MNDNR as a put-and-take trout fishery.		Trout.Fen	
		excavation that is manged as a trout fishery. Runoff from significant parts of the watershed have been diverted	Trout lakes	General			Trout.Fen	
		excavation that is manged as a trout fishery. Runoff from significant parts of the watershed have been diverted elsewhere.	Trout lakes	General			Trout.Fen	
		excavation that is manged as a trout fishery. Runoff from significant parts of the watershed have been diverted elsewhere. Quarry Lake was a limestone quarry that has been allowed to fill with	Trout lakes	General	needed by trout. Managed by the MNDNR as a put-and-take trout fishery.		Trout.Fen	
		excavation that is manged as a trout fishery. Runoff from significant parts of the watershed have been diverted elsewhere. Quarry Lake was a limestone quarry that has been allowed to fill with groundwater from springs. It is being	Trout lakes	General	needed by trout. Managed by the MNDNR as a put-and-take trout fishery.		Trout.Fen	
	Lakes	excavation that is manged as a trout fishery. Runoff from significant parts of the watershed have been diverted elsewhere. Quarry Lake was a limestone quarry that has been allowed to fill with	Trout lakes	General	needed by trout. Managed by the MNDNR as a put-and-take trout fishery.			but.Fen

			Gullying, landslides, erosion of					
			streambank and lake shorelines caused					
			by steep slopes and unstable soils. Map					
			of identified sites shows where 1.					
			management required, 2. further study					
			needed, 3. monitoring recommended, and 4. no further action needed.	Erosion Control	General	Implement monitoring program; Evaluate effectiveness of mitigation; increase public awareness.	v	Monitoring Sediment.Erosion Steep slopes
.23	AZ		Total Maximum Daily Load issues	Erosion Control	General	public awareness.	Ŷ	Monitoring Sediment.Erosion Steep slopes
			affecting the quality of the lower					
L24	0		Minnesota River watershed.	Water Quality	General	Not applicable		Impaired.TMDL
		Lower minicoota n	initial solution in a construction of the solution of the solu	Woter quanty	General	Decrease the amount of phosphorus that reaches the river and increase the		inpured. Hitbe
						amount of flow. Focused on wastewater treatment plants. Other sources		
						including septic systems, stormwater (MS4), and increasing infiltration versus		
L25	0	Lower Minnesota Ri	Low flow Dissolved Oxygen TMDL	Water Quality	Specific	runoff to enhance baseflow.	Y	Stormwater Impaired.TMDL
			The plan addresses future land use,					
			housing, parks and natural resources,					
			water and sewer systems, and					
			transportation. It was found deficient in many water-resources issues that need					
			to be addressed. Wetland plan is based					
126	CP11		on a plan developed in 2000.	Planning: land use	General			Development
.20	011	CI-Savage	on a plan developed in 2000.	rianning, land use	General	The City of Savage asserts its authority over the protection and management of		Development
L27	CP11	Ci-Savage	Savage Fen complex.	Planning: land use	Specific	the fen.		Trout.Fen
						Plan specifies maintenance of a buffer along the creek, augmentation of		
						ground cover and trees, reduction of runoff to the creek, and addition of		
			Eagle Creek trout stream.	Planning: land use	Specific	environmentally consitent cultural amenities.		Trout.Fen
.29	CP11	Ci-Savage	Boiling Springs	Planning: land use	Specific	Not applicable		Natural Resource Protection
			Assumption, Eagle, and Ike's creek all					
			have viable trout habitat with some channel stability issues. Kennally's and					
			unnamed streams have serious habitat			Streams assessed generally were found to have good trout habitat, but there		
3	Δ4			Trout habitat	General	were signs of channedl degradation that warrant remedial measures.		Trout.Fen
						Goals and policies:		
						1. Minimize public capital expenditures needed to correct flooding and water		
						quality problems. 2. Protect and improve surface and groundwater quality. 3.		
						Prevent erosion of soil into surface water systems.		
			Water Resource Management Plan			4. Promote groundwater recharge. 5. Protect and enhance fish and wildlife		
			(WRMP), completed by WSB and Associates, Inc. in 2007 and updated by			habitat and water recreational facilities. 6. Secure benefits associated with the proper management of surface		
1.20	0011		the City in 2011.	Planning: land use	General	and groundwater.	v	Flood Sediment.Erosion Groundwater
.50	CFII	CI-Savage	the city in 2011.	Flatining, land use	General	Precautions are being taken to ensure the protection of these natural	1	Flood Sediment.Elosion Groundwater
						resources. The water being withdrawn from the Prairie du Chien and Jordan		
						aquifers do have an impact on the Savage Fens; therefore, developing future		
L31	CP11	Ci-Savage	Water Supply	protect natural resources	Specific	wells in the above aquifers may not be a viable option.		Trout.Fen
			Location of rare plants and rare animals					
			for Carver, Hennepin, and Scott Counties		General	Not applicable X		
.32	Map1	Plant and rare speci	Infrastructure and facilities	Planning: land use	General	Not applicable X		
			improvements. Other issues more					
			ephemeral and related to policies,					
_33	CP13		practices, and partnerships.	Planning	General	Not applicable X		
						Infrastructure improvements. Near term 2018-22: transportation and storm		
1.24	A41. 07	Discoving C :	Line and Disc	Disasias: CID	Connect	sewer. Mid term 2023-27: transportation and water supply. Ongoing:		0
.54	IVIISCP2	BIOOMINGTON Capito	I Improvement Plan	Planning: CIP	General	transportation, water supply, storm sewer, address NPDES and TMDL concerns.		U
						Address changing climate as it relates to increased runoff. Implement turbidity load reductions for So. Mississippi turbidity TMDL. Address gully erosion issues.		Impaired.
.35	MP10	Bloomington SW	Coordination of resource management	Planning	General	Find ways to reduce groundwater use.	Y	Sediment.Erosion Groundwater Steep slopes TMDL
	10		in the second contraction of the second seco			Address changing climate as it relates to increased runoff. Update hydrologic		
						and hydraulic models. Consider changes to impervious surfaces. Maintain		
L36	MP10	Bloomington SW	Water Quantity and Flooding	Planning	General	warning system.		Flood
L37	MP10	Bloomington SW	Water Quality	Planning	General	Implement chloride and turbidity load reducations working with other entities.		Impaired.TMDL
						Enforce the City's existing erosion-control ordinance and inspections. monitor		
						and repair, as needed, erosion-control measures. Remove sediment deltas at		
						storm sewer inlets and outlets. Continue implementation of the City's MS4		
						SWPPP. Continue to enforce the City's steep-slope ordinance. Determine areas		
I						at risk of future erosion to assist in planning for maintenance and repair		
1						projects. Continue ongoing review and improvement of the City's		
						erosioncontrol inspection program for new development and redevelopment.	Y	Monitoring Sediment.Erosion
.38	MP10	Bloomington SW	Erosion and Sedimentation	Planning	General			Monitoring Sediment. Erosion
				0		Collaborate with the City's Utilities department to find opportunities for water		•
		Bloomington SW	Groundwater	Planning Planning	General		Y	Cooperation Groundwater
		Bloomington SW	Groundwater OVERVIEW: The greatest knowledge gap	Planning		Collaborate with the City's Utilities department to find opportunities for water	Y	•
		Bloomington SW	Groundwater	Planning		Collaborate with the City's Utilities department to find opportunities for water	Y	•
		Bloomington SW	Groundwater OVERVIEW: The greatest knowledge gap is whether the streams can maintain flow	Planning		Collaborate with the City's Utilities department to find opportunities for water	Y	•
L39	MP10	Bloomington SW	Groundwater OVERVIEW: The greatest knowledge gap is whether the streams can maintain flow compatible with sustainable trout habitat. Competition for groundwater resources appears to be the greatest	Planning		Collaborate with the City's Utilities department to find opportunities for water conservation and reuse. Determine whether declining or non-existent stream trout are the result of	Y	•
L39	MP10	Bloomington SW	Groundwater OVERVIEW: The greatest knowledge gap is whether the streams can maintain flow compatible with sustainable trout habitat. Competition for groundwater	Planning		Collaborate with the City's Utilities department to find opportunities for water conservation and reuse.	Y	•
L39	MP10	Bloomington SW	Groundwater OVERVIEW: The greatest knowledge gap is whether the streams can maintain flow compatible with sustainable trout habitat. Competition for groundwater resources appears to be the greatest	Planning	General	Collaborate with the City's Utilities department to find opportunities for water conservation and reuse. Determine whether declining or non-existent stream trout are the result of reduced groundwater discharge or some other habitat issue.	Y	Cooperation Groundwater
L39	MP10	Bloomington SW	Groundwater OVERVIEW: The greatest knowledge gap is whether the streams can maintain flow compatible with sustainable trout habitat. Competition for groundwater resources appears to be the greatest	Planning	General	Collaborate with the City's Utilities department to find opportunities for water conservation and reuse. Determine whether declining or non-existent stream trout are the result of reduced groundwater discharge or some other habitat issue. Continue inspecting outlets as required per the MS4 permit (20% per year).	Y	Cooperation Groundwater
L39 L4	MP10 MP1	Bloomington SW	Groundwater OVERVIEW: The greatest knowledge gap is whether the streams can maintain flow compatible with sustainable trout habitat. Competition for groundwater resources appears to be the greatest threat to trout habitat in most streams.	Planning	General	Collaborate with the City's Utilities department to find opportunities for water conservation and reuse. Determine whether declining or non-existent stream trout are the result of reduced groundwater discharge or some other habitat issue.	Y	Cooperation Groundwater

				Non-specific efforts related to control of invasive species, flotsam, and						
L41 MP10 Bloomington SW	Recreation, Habitat, and Natural Areas	Planning	General	nuisance birds.				Invasives		
	Enhance Public Participation,			Encourage yard-waste management, sweep streets twice per year, communication with land owners. Safe use of the lower Minnesota River will						
L42 MP10 Bloomington SW		Planning	General	be deferred to the LMRWD.				Public engageme	ent.education	
				Dramatic improvements on the landscape are still needed to bring waters to						
				attainment of water quality standards. Efforts must continue to manage point						
				source contributions from urban sources including industry and wastewater						
	This report focuses on lakes and			treatment plants but also must reign in unregulated non-point sources from agricultural and urban contributors. Continued cooperation is necessary from						
	tributaries, not the mainstem of the			agricultural and urban contributors. Continued cooperation is necessary from all stakeholders to improve conditions on the landscape for the betterment of						
L43 Mon5 Lower Minnesota I		Water Quality	General	Minnesota.			Y	Cooperation	Impaired.TMDL	
	High Island Creek identified as the									
	greatest contributor of total suspended			Variability in streamflows related both to land management and climate						
L44 Mon5 Lower Minnesota I		Water Quality	General	change are continually impacting stream corridors and stream bank stability.				Corridors		
	BLACK DOG CREEK: Creek has been modified from its original alignment and			Black Dog Creek is not a viable trout fishery in its present state. Resources to						
	does not appear to provide a viable trout			manage trout fisheries are better spent elsewhere unless the hydrology of the						
L5 MP1 Trout Streams Gap		Trout habitat	General	stream is changed.				Trout.Fen		
	EAGLE CREEK: Supports a viable trout			Determine whether reduced trout populations are the result of reduced						
	habitat that is much reduced from			groundwater discharge or some other effect on habitat such as limited						
L6 MP1 Trout Streams Gap		Trout habitat	General	spawning habitat and creek size.			Y	Groundwater	Trout.Fen	
	IKE'S CREEK: contains good habitat for									
	trout. Recently stocked with trout, but it is not known why the native population									
	had been wiped out. Many areas near									
	the creek are desirable for development									
	so pressure from nearby land use could									
	be a consideration. Groundwater			Understand the groundwater supply to Ike's Creek. Assure that habitat is not						
L7 MP1 Trout Streams Gap	/ sustainability also is an issue.	Trout habitat	General	degraded by development that threatens to encroach on the resource.			Y	Development	Groundwater	Trout.Fen
	KENNALEY'S CREEK: Competition for groundwater resources appears to be the									
	greatest threat to trout habitat in the	-		Determine whether declining or non-existent stream trout are the result of						
L8 MP1 Trout Streams Gap		Trout habitat	General	reduced groundwater discharge or some other effect on habitat.			Y	Groundwater	Trout.Fen	
	UNNAMED #1 (HARNACK CREEK): The									
	creek and its channel have been altered									
	by nearby construction and does not			Determine whether declining or non-existent stream trout are the result of						
L9 MP1 Trout Streams Gap	/ currently support a trout fishery. LS Marine Operating Costs:The District	Trout habitat	General	reduced groundwater discharge or some other effect on habitat.			Y	Groundwater	Trout.Fen	
	has an agreement with LS Marine to									
	operate the Site. Annual LS Marine Site									
	operating costs are estimated based on									
D1 MP2 Dredge Material	the agreement.	Dredge	CIP		2021-2022	\$10,000 X				
	Erosion Control and General Site									
	Maintenance: The District is responsible for maintaining the existing erosion									
	for maintaining the existing erosion control features and completing general									
D2 MP2 Dredge Material	Site maintenance, as required.	Dredge	CIP			2021 \$10,000 X				
	Updated Topographic Survey:A									
	topographic survey of the Site is needed									
	to accurately determine the amount of									
	material at the Site and to estimate the					2024 412 222				
D3 MP2 Dredge Material	remaining storage capacity of the Site. Culvert Cleanout:The culvert at the Site	Dredge	CIP			2021 \$15,000 X				
	entrance needs cleaning to remove									
D4 MP2 Dredge Material	debris.	Dredge	CIP			2021 \$10,000 X				
	Vernon Avenue Maintenance:Vernon									
	Avenue needs maintenance to allow for construction vehicle access to the Site.	Dd	CIP			2021 \$25.000 X				
D5 MP2 Dredge Material	construction vehicle access to the Site. Engineering Design/Permitting Support:	Dredge	CIP			2021 \$25,000 X				
	On an annual basis, the District requires									
	engineering design/permitting support									
D6 MP2 Dredge Material	for on-going O&M of the Site.	Dredge	CIP		2021-2022	\$20,000 X				
	Program Management: The District will									
	manage the implementation of the grant									
	funding and complete the reporting and documentation tasks as required by									
D7 MP2 Dredge Material	BWSR.	Dredge	CIP		2021-2022	\$10,000 X				
= Dreage Material	Program Close Out:The District will	0				\$10,000 M				
	submit the documentation, as required									
D8 MP2 Dredge Material	by BWSR, to close out the grant.	Dredge	CIP			2022 \$3,000 X				

APPENDIX B - STAKEHOLDER WORKSHOP MEETING SUMMARY NOTES

Summary

PROJECT NAME: Lower Minnesota River Corridor Management Plan

Date:	December 16, 2021
Start Time:	9:00 a.m.
End Time:	11:00 a.m.
Location:	Teams meeting

PROJECT GOAL: To develop a shared vision for the Lower Minnesota River Corridor by further developing the themes and subthemes identified in the planning documents.

PROJECT OBJECTIVES:

- Identify shared public values that form the basis of the project
- Engage and garner support from the stakeholders about the opportunities the development of the Corridor Management Plan can provide
- Create a greater understanding of the Lower Minnesota River Corridor and its landscape
- Describe a desired future for the river and discuss how change in the surrounding landscape can help attain this future
- Suggest a structure or framework by which the vision can be implemented
- Develop methods to resolve conflicts between human investments and river dynamics in the most economically and ecologically sustainable manner.

INVITEES: See Teams attendance log attached.

HOSTS:Linda Loomis - Naiad Consulting and Lower Minnesota River Watershed DistrictDella Schall Young and Rebecca Haug - Young Environmental Consulting Group, LLC

AGENDA/SUMMARY

1. Welcome

Linda welcomed the stakeholders to the meeting and project.

2. Introductions and agenda review

Della informed stakeholders that the meeting was being recorded and that the recording would be shared after the meeting with the attendees and others who were not able to attend the meeting. She then asked everyone to introduce themselves in the chat and provide their understanding of the project.

3. Project overview

- Introduce the project, planning process and how the information will be used in the future
- Present the survey results



Della provided an overview of the project including an introduction to the project, the goals and objectives, the research that was completed though public document review, as well as the outreach and engagement process that will lead to a Lower Minnesota River Corridor Management Plan. She then presented the survey statistics indicating that there were over 80 people invited to participate, 33 responses were received. Based on her experience, Della surmised that the response rate indicates a high level of interest in the Lower Minnesota River Corridor.

Following the survey statistics, Rebecca and Della presented the survey results as shown on the attached slides. District questions (and associated responses) center around what the District should focus on that would best that would best influence perspective on water and natural resources. Community questions (and associated responses) center around how local communities might rank those responses in terms of importance. For each section surveyed, Rebecca provided the context slide and Della presented the survey results and asked the attendees to provide additional input.

People

Outreach and education ranked highest for the District focus. Coordination, recreation, and outreach and education all came in close together as far as community ranking.

- Tyler Winter, MCES (Metropolitan Council Environmental Services) expressed his interest in Environmental Justice concerns. He noted his perception of disparity regarding park amenities and access to the MN River for marginalized populations. He mentioned the need for ADA compliant access and easier fishing opportunities.
- Krista Spreiter, Mendota Heights, through the chat, indicated the need for cultural history, indigenous community involvement, and recreational opportunities for the river.

Infrastructure

Land use ranked highest for the District focus which was found interesting since the District has very little statutory authority over land use. Drainage ranked highest for community ranking with land use coming in second.

- Ted Suss, Friends of the MN River Valley discussed where he lives in Redwood County, in corn and soybean country, and how drainage projects in the upper and middle MN River have the goal to push more water in the river versus providing any water storage. He noted the need to look for upstream opportunities to mitigate these issues. Della indicated the District Managers have been interested in upstream impacts and are working on how to manage those.
- Steve Gurney, City of Bloomington indicated the need to get the legislature more involved in regulation and asked if the District does any lobbying. Della and Linda Loomis both indicated the District does have a Legislative liaison. Linda also indicated they are trying to work with Representative Paul Torkelson, Senator Ingebrigtsen, and Representative Rick Hansen on upstream issues and how to receive legislative funding to remediate those issues. Upland water storage and soil health are key issues for the District. Other District concerns include upstream agriculture and remediation. The District hopes to participate more in the One Watershed One Plan developments. There is District involvement in both the Lower Minnesota River East and Lower Minnesota River West planning process.
- Scott MacLean, MPCA (Minnesota Pollution Control Agency) stated the importance of being involved the One Watershed One Plan process.

Water

- Stormwater ranked highest for the District focus. Stormwater, lakes, and floodplain ranked highest but closely followed by groundwater and wetlands for community ranking. It was surprising that groundwater was ranked low for the District, as so many of the resources are groundwater dependent; fens and trout streams. Joe Mulcahy, MCES (Metropolitan Council Environmental Services) stated the Lower Minnesota River Watershed District does not have much authority over groundwater which could be why the survey results did not put it at a high priority. Della noted that the District is taking steps to be heard on more issues regarding groundwater resources.
- Tyler Winter, MCES (Metropolitan Council Environmental Services) indicated that groundwater is important for specific things like fens, but feels that more importance is placed on groundwater for through the communities' perspective due to use utilization as drinking water.
- Vanessa Strong, Scott WMO (Watershed Management Organization) brought up that the wet years we have had have not caused concerns for groundwater, but this year's drought increased the community interest in groundwater.
- Tyler Winter, MCES (Metropolitan Council Environmental Services) discussed the State threatened fish species, Black Buffalo and Paddlefish, that have been found in the Minnesota River. These fish species need a large river habitat but are not getting the attention they need.
- Vanessa Strong, Scott WMO expressed concern with climate change and the need for direction from the state to incorporate climate change at the local level. Della indicated that she shows how the climate is changing and provides ways to mitigate the changes for the future, without identifying these issues as climate change. Vanessa also stated that the legislature needs to make access to the river a priority as well as fund upstream projects and the need to fund projects that are in plans.
- Paul Moline, Carver County and Carver WMO echoed what Vanessa said and not focusing on climate change but focusing on what is being done and tracking and monitoring. There is a need to move forward but not necessarily on developing Climate Action Plan.

Funding

Grants and legislative support ranked highest for both the District and community focus, however utility fees were not far behind grants and legislative support for community focus.

- Vanessa Strong, Scott WMO expressed the importance to work on legislative priorities to improve access for partners to utilize funding for upstream projects and projects that are listed in existing plans.
- Ted Suss, Friends of the MN River Valley indicated there is a need to change the drainage laws and require water storage and consideration for downstream impacts. LMRWD should work with legislature to require upstream projects to do more for water quality.

Threats

• Threats that ranked with over a 50% response rate included climate change, TMDL's and impaired waters, and erosion. Threats ranking between 20% and 49% included flooding, invasive species, and ideology and environmental regulations. Landfills came in under 10% in rank. Tyler Winter, MCES indicated the need to focus on rare species like the Black Buffalo and Paddlefish.

4. Next Steps

- Paul Moline, Carver County and Carver WMO asked about the extent of the planning area, if it only includes the District or a broader area. Della indicated that the priority is the District, then the Lower Minnesota River Watershed and then the overall Minnesota River watershed. The area will be looking at what can directly be affected and then at a higher level to include legislative action for efforts in the greater Minnesota River Watershed.
- Joe Mulcahy, MCES asked if this will be an update to the Watershed Plan. Della stated that it will be an update but will be easier than the previous plan. This will be focused on a framework to be used by the partners and will include implementation activities. Linda stated that this will help when lobbying.

a. Outreach and Engagement

Della went over the below timeline and next steps for the project. She also stated that a summary of the meeting along with the recording will be sent out. Email reminders will also be sent out for each of the Focus Group Discussions. The goal is to have a final draft by the end of April.

• Focus Group Discussions

- Threats: January 20, 2022, from 10 a.m. to 12 p.m.
- Water: February 17, 2022, from 10 a.m. to 12 p.m.
- People, Funding, and Infrastructure: March 3, 2022, from 10 a.m. to 12 p.m.
- Open House March 16, 2022

b. Documentation

- Release preliminary draft March 14 April 1, 2022
- Release draft final April 29, 2022

5. Conclusion/Thank You

Linda thanked the stakeholders for attending the meeting and looks forward to continuing to work with everyone.

Participants

- Della Young, Young Environmental
- Leslie Stovring, Eden Prairie
- Rebecca Haug, Young Environmental
- Ted Suss
- Tyler Winter, Met. Council
- Scott MacLean, MPCA
- Jennie Sirota (TO)
- Bryan Spindler, MPCA
- Jordan Donatell, MPCA
- John Gorder. Mendota Heights
- Kirby Templin, Shakopee
- Ryan Pinkalla (Guest)
- Brian Vlach,
- Jack Distel, Bloomington
- Vanessa Strong,
- Bob Bean, Bolton and Menk and Carver
- Joe Mulcahy, Met. Council
- Jesse Carlson, Savage
- Paul Moline, Carver SWCD
- Steve Gurney, Bloomington
- Krista Spreiter, Mendota Heights
- Linda Loomis, LMRWD
- Charlie Howley, Chanhassen

APPENDIX C - THREATS FOCUS GROUP MEETING SUMMARY NOTES

Summary

PROJECT NAME: Lower Minnesota River Corridor Management Plan

Date:	January 20, 2022
Start Time:	10:00 a.m.
End Time:	Noon
Location:	Teams meeting

PROJECT GOAL: To develop a shared vision for the Lower Minnesota River Corridor by further developing the themes and subthemes identified in the planning documents.

PROJECT OBJECTIVES:

- Identify shared public values that form the basis of the project
- Engage and garner support from stakeholders about the opportunities the development of the Corridor Management Plan can provide
- Create a greater understanding of the Lower Minnesota River Corridor and its landscape
- Describe a desired future for the river and discuss how a change in the surrounding landscape can help attain this future
- Suggest a structure or framework by which the vision can be implemented
- Develop methods to resolve conflicts between human investments and river dynamics in the most economically and ecologically sustainable manner

INVITEES: Below

HOSTS: Linda Loomis – Naiad Consulting and Lower Minnesota River Watershed District Della Schall Young – Young Environmental Consulting Group, LLC

AGENDA/SUMMARY

Meeting Objective: Evaluate specific practices, activities, and actions responsible for the top three prioritized threats (TMDL and Impaired Waters, Erosion, and Climate Change) facing the Minnesota River system and the lower Minnesota River specifically.

1. Introductions, Agenda Review, and Breakout Group Instructions

Della led the group through introductions and the agenda. She outlined the project goal and objectives and explained that the approach for the day's meeting changed from breakout sessions to one large group session that will cover all topics.

2. Threats to Impaired Water Resources

Della set up the group with a mural function to lead the group discussion pertaining to the questions below. There was some difficulty with the program, so some attendees used the chat function for the activity.



- What practices, activities, and actions are responsible for impaired water resources?
 - Issues identified include the following:
 - Agricultural drainage
 - Legacy nutrient loading
 - Urbanization
 - Lawn compaction
 - Deicing
 - Mass grading
 - Poor agricultural practices
 - Decreasing water storage capacity
 - Bluff and floodplain development
 - Large extent of stream alterations
 - Altered hydrology
 - Geologic conditions
 - Thoughts from the WRAPS executive summary included the following:
 - a. Streambank erosion
 - b. Cropland runoff
 - c. Phosphorous contributions
 - d. E. coli contributions

Della then explained the next activity and asked for the group to suggest practices to help mitigate the issues related to impaired water resources. Responses discussed are presented below.

- What conventional and out-of-the-box practices should the LMRWD implement (or partner with other organizations to implement) to mitigate the threat?
 - Legacy nutrient loading
 - a. Channel stabilization
 - b. Floodplain restoration
 - c. Wetland improvement
 - d. Lakes and wetlands internal loading controls such as alum

- Aging drainage systems
- Wetland loss
- Floodplain loss
- Shoreland loss
- Lack of resources to address issues
- Loss of buffers
- Climate change
- Increased frequency and intensity of precipitation
- Lawn management practices
- Dredging alters hydrology

- Altered hydrology
 - a. Restore connectivity between the river channel and floodplain/floodplain lakes
 - b. Terry Jeffery, Riley Purgatory Bluff Creek Watershed District, listed several potential solutions to altered hydrology. He noted that holding and slowing water is important. He offered the following potential solutions:
 - i. Extended detention and infiltration to improve baseflow conditions
 - ii. Move away from the curve number method towards the hydromodification approach
 - iii. Mimic hydrology or move to flow duration curves
- Floodplain loss
 - a. Restore easy-to-fix farm tiled wetlands
- Loss of buffers
 - a. Establish a minimum buffer rule
- Improve soil health
- Ted Suss, concerned citizen and member of Friends of the Minnesota Valley, mentioned a solution that could be applied to several issues listed, including that the LMRWD needs to take a leading role in demanding full consideration of downstream impacts and to insist on more water storage that could be incorporated into drainage improvement projects. Ted and a group of concerned citizens are working on upstream issues to mitigate river impacts. He hopes the LMRWD will involve district area state representatives in the solutions.
- Tyler Winter of the Metropolitan Council said upstream needs to stop sending too much water downstream.
- Bryan Spindler of the MPCA shared information from the MPCA WRAPS comprehensive sources. He said impairments are interrelated, which highlights the issue of not focusing on one sole issue.
- Linda Loomis of the LMRWD mentioned slowing down the water. Solutions to manage water seem to focus on getting water off the landscape as fast as possible, which is what is leading to many of these issues.
- Leslie Stovring of Eden Prairie noted the lack of resources to address issues as they occur in activity one. Della mentioned during this section of the meeting the wealth of expertise and resources in this group and asked for their potential ideas for solutions to this issue. Della noted collaboration as one possible fix. Leslie mentioned the concern that the funds for necessary projects might not exist. Della said these meetings have the potential to pull those limited resources together to address the various issues.

3. Threats to Erosion

Della directed the group to go through the same exercise as above and brainstorm solutions to help mitigate the issues related to erosion. Linda led the session discussion. Responses discussed are presented below.

- What practices, activities, and actions are responsible for erosion?
 - Pattern tiling
 - Buffer removal
 - Urbanization
 - Landscaping
 - Lawn care practices
 - Belief that roadside sections must be urbanized with curb and gutter
 - Large cul-de-sac radius
 - Increased runoff from increased impervious surface, including lawn and turf
 - Geology
 - Decreased water storage
 - Conflicting land use interests
 - Increases in agricultural drainage
 - Focus on stormwater pollutant treatment at the detriment of volume
 - Lack of resources and funding

- Buffers
- Water management on private property stormwater and irrigation
- Consider erosion in flat areas of the watershed
- Concentration of flows created by development
- Removal of helpful vegetation in buffer areas
- Research into alternatives for soil management for buffer vegetation
- Soil management and soil health
- Construction and poor erosion and sediment control BMP design, placement, and maintenance
- Streambank stability
- Buckthorn because it is invasive and restricts undergrowth, leaving exposed soils

The group continued to the next step by suggesting practices to help mitigate the issues related to erosion. Responses discussed are presented below.

- What conventional and out-of-the-box practices should the LMRWD implement (or partner with other organizations to implement) to mitigate the threat?
 - Increases in agricultural drainage
 - a. Improved agricultural practices
 - b. Developers are required to account for stormwater management, and agricultural drainage should be considered in the same way.
 - Water management on private property stormwater and irrigation
 - a. Residents see erosion on the bluff and think it is natural even though it might be water that is not being managed on their own properties.
 - i. Need education
 - ii. Need funding to assist landowners

- iii. Provide incentives
- iv. Change behavior from out of sight, out of mind (disposing yard waste over bluff line)
 - What are the educational pieces that can be developed out of this? *action item*
 - 2. People need to value the resource, so it is not seen as their personal trashcan.
 - 3. Misinformation to residents about the proper disposal options for yard waste.
- Consider wind erosion in flat areas of the watershed
 - a. Improved agricultural practices
- Soil management and soil health
 - a. Improved agricultural practices
 - b. Incentivize farmers
 - c. Increased education
- Address buckthorn because it is invasive and restricts undergrowth, leaving exposed soils:
 - a. Manage vegetation through continued monitoring and removal.
 - b. Using goats for vegetation management was discussed, but goats tend to eat the "good" vegetation first and buckthorn last. Buckthorn still needs to be treated so new sprouting is managed.
 - c. Solutions for buckthorn management need to be evaluated, and any secondary issues identified.

The group continued to the next step by suggesting practices to help mitigate the issues related to erosion. Responses discussed are presented below.

4. Next Steps

Tyler Winter of the Metropolitan Council suggested the group take a field trip to the river as the best way to view and appreciate the Minnesota River. LMRWD will coordinate with Tyler on fleshing out this proposal.

Della reiterated that she hopes the group had ample opportunity to discuss their thoughts on threats and solutions to mitigate. Young Environmental will review the thoughts generated and will send a survey to participants to continue this discussion.

• Focus Group Discussions

- Water: February 17, 2022, from 10 a.m. to 12 p.m.
 - Due to conflicts, this date may be pushed to March 3, 2022.
- People, Funding, and Infrastructure: March 3, 2022, from 10 a.m. to 12 p.m.

5. Conclusion/Thank You

Linda thanked the stakeholders for attending the meeting and for conducting a good discussion. The LMRWD continues to develop working relationships with upstream groups. Linda said she appreciates this group advocating for the Minnesota River and looks forward to continuing to work with everyone.
Participants

- Bob Bean, Bolton and Menk and Carver
- Brian Vlach, Three Rivers Park District
- Bryan Spindler, MPCA
- Della Young, Young Environmental
- Jack Distel, Bloomington
- Jesse Carlson, Savage
- Joe Mulcahy, Metropolitan Council
- Joe Seidl, Chanhassen
- Jordan Donatell, MPCA
- Kirby Templin, Shakopee
- Krista Spreiter, Mendota Heights
- Leslie Stovring, Eden Prairie
- Linda Loomis, LMRWD administrator
- Stacy Boone, Shakopee Mdewakanton Sioux Community
- Steve Gurney, Bloomington
- Ted Suss, concerned citizen and member of Friends of the Minnesota Valley
- Terry Jeffery, Riley Purgatory Bluff Creek Watershed District
- Theresa Kuplic, LMRWD CAC
- Tyler Winter, Metropolitan Council
- Vanessa Strong, Scott County

APPENDIX D - WATER FOCUS GROUP MEETING SUMMARY NOTES

Agenda



PROJECT NAME: Lower Minnesota River Corridor Management Plan

Date:	July 13, 2022
Start Time:	10:30 a.m.
End Time:	12:00 p.m.
Location:	Teams meeting

PROJECT GOAL: To develop a shared vision for the Lower Minnesota River Corridor by further developing the themes and subthemes identified in the planning documents.

PROJECT OBJECTIVES:

- Identify shared public values that form the basis of the project.
- Engage and garner support from stakeholders about the opportunities that the development of the Corridor Management Plan can provide.
- Create a greater understanding of the Lower Minnesota River Corridor and its landscape.
- Describe a desired future for the river and discuss how a change in the surrounding landscape can help ensure this future.
- Suggest a structure or framework by which the vision can be implemented.
- Develop methods to resolve conflicts between human investments and river dynamics in the most economically and ecologically sustainable manner.

INVITEES: Stakeholders

HOSTS: Linda Loomis—Naiad Consulting and Lower Minnesota River Watershed District

Della Schall Young, Meghan Litsey, and Madeline Seveland—Young Environmental Consulting Group, LLC

AGENDA \ NOTES:

Meeting Objective: To build upon previous work from the Threats workshop, discuss water subthemes, and identify where work is needed and the role of the Lower Minnesota River Watershed District.

1. Introductions and agenda review

Linda thanked the stakeholders for their time and contributions and expressed her appreciation for their partnership.

2. Review project timeline, threats workshop summary, and water subthemes

Della reviewed the overall timeline for the project, highlighting what has been completed to date and next steps. She summarized the results from the Threats focus group meeting that was held in January 2022.

The group answered two poll questions:

- a. Which of these threats are the most urgent to address?
 - The top two responses included streambank and drainage area health and altered hydrology

- b. Which threat is the easiest to mitigate or address?
 - The top response was people.

Della reviewed how the themes from the Threats discussion affect the water subthemes and explained the breakout group activity.

3. Breakout groups

- a. Discuss how each of these threats specifically impacts each water subtheme.
 - Floodplains
 - o Altered Hydrology
 - Disconnection of the floodplain from the water bodies. It's more of a straight shot than spreading out, and causes a lot of downcutting in the stream channels.
 - Because of the modification of floodplains, development has been able to go in there.
 - You can develop the areas where you previously could not have.
 - Results in increased flooding and maybe higher levels of flooding.
 - Loses storage of upstream areas.
 - Everything goes faster.
 - In the MN River, the floodplain is used and accessed more. More water is coming down, so you are using the floodplain.
 - Water is faster than it used to be.
 - The agricultural water is still being shot downstream and high intensities too.
 - o Urbanization and Development
 - Urban development has come a long way—not super concerned with urban development regulations.
 - Cities are doing a better job of managing the water—currently the city no longer has control over what individual property owners do.
 - Getting the water to the river faster is an issue for the floodplains.
 - Groundwater
 - o Altered Hydrology
 - Intense storms and infiltration
 - o People
 - Unrealistic or unnatural expectations

- Introduction of pollutants via infiltration (land use practices)
- Lack of understanding of groundwater (can't see the groundwater)
- o Urbanization and Development
 - Increase in impervious surface means more runoff and less infiltration
 - Changing groundwater levels impact infrastructure
 - Introduction of pollutants via infiltration (regulatory requirements)
- o Streambank and Drainage Area Health
 - Stream loss and baseflow impacts
- o Climate change, geology, and history
 - Drought restrictions affecting water use
- Surface Waters
 - o Altered Hydrology
 - Flashing (water)
 - Impaired biology
 - Increased volumes
 - Increased sediment and nutrient pollution
 - Erosion
 - Increased drainage—water going through faster
 - o People
 - Bacteria and nutrient loading from pet waste
 - Geese
 - Yard waste
 - Intensive use—people want to get the most out of being adjacent, mowing right up to the edge
 - Landscape modification
 - Clearing steep slopes
 - Invasive species
 - Watershed disconnection—altering localized hydrology (streambanks)
 - People want to divert their stormwater over the cliff
- Stormwater

- o Altered Hydrology
 - Localized flooding
 - Increased flows
 - Impacts to infrastructure
 - Static water levels (dynamic water levels have been lost)
 - Changes to residency time
 - Impacts on wildlife
 - Designs based on 10-year storms (storm sewer)—many storms exceed this
 - Water quality impacts
- o Urbanization and Development
 - Water quality impacts
- o Streambank and Drainage Area Health
 - Stability, erosion
 - Water quality impacts
 - Agricultural retention (upstream of the LMRWD)
 - Cutting off natural hydrology patterns; altered drainage
- b. Discuss policies, programs or actions that mitigate the threats and protect water.
 - Groundwater
 - o Altered Hydrology
 - Investment in new technology (e.g., adaptive flow management)
 - More support and better facilitation of regional facilities that would provide infiltration and treatment
 - o People
 - Minimize water use through policy and education
 - o Urbanization and Development
 - Limit use on dense areas via strategic planning

4. Breakout group presentations

Each group summarized their discussion from the breakout groups.

5. Large-group discussion

A few of the participants clarified their responses from the breakout group discussions.

6. Next steps

Della explained that we didn't have enough time to discuss policies, programs, or actions to mitigate threats and protect water resources. Young Environmental will revisit existing planning documents for policies, programs and actions that have been implemented by the stakeholders and identify opportunities for enhancements. This information is important to collect because it will inform the next focus group discussion on people, infrastructure, and funding.

- a. Focus session on People, Infrastructure, and Funding, planned for August 17, 2022, from 10:00 a.m. to 12:00 p.m.
- b. Open house and activity in September 2022.

7. Conclusion/Thank You

Della concluded the meeting by encouraging the group to submit their ideas for projects, policies, programs, or actions to mitigate threats and protect water resources.

Linda thanked the group again for their time.

Participants

- Bob Bean, Bolton & Menk, and Carver
- Curt Coudron, Dakota County
- Jack Distel, Bloomington
- Brittany Faust, MPCA
- John Gorder, Eagan
- Kirby Templin, Shakopee
- Theresa Kuplic, LMRWD CAC
- Linda Loomis, LMRWD administrator
- Lori Haak, Eden Prairie
- Joe Mulcahy, Metropolitan Council
- Rod Rue, Eden Prairie
- Jesse Carlson, Savage
- Bryan Spindler, MPCA
- Stacy Boone, SMSC

APPENDIX E - OPEN HOUSE SUMMARY NOTES



Agenda/Summary

PROJECT NAME: Lower Minnesota River Corridor Management Plan

Date:	September 7, 2022
Start Time:	2:00 p.m.
End Time:	6:00 p.m.
Location:	Fort Snelling State Park
DIECT GOAL:	To develop a shared vi

PROJECT GOAL: To develop a shared vision for the Lower Minnesota River Corridor by further developing the themes and subthemes identified in the planning documents.

PROJECT OBJECTIVES:

- Identify shared public values that form the basis of the project
- Engage and garner support from stakeholders about the opportunities the development of the Corridor Management Plan can provide
- Create a greater understanding of the Lower Minnesota River Corridor and its landscape
- Describe a desired future for the river and discuss how a change in the surrounding landscape can help attain this future
- Suggest a structure or framework by which the vision can be implemented
- Develop methods to resolve conflicts between human investments and river dynamics in the most economically and ecologically sustainable manner
- HOSTS:Linda Loomis—Naiad Consulting and Lower Minnesota River Watershed DistrictDella Schall Young, Meghan Litsey, and Madeline Seveland —Young Environmental
Consulting Group, LLC

AGENDA/NOTES

Open House Objective: To review the plan framework and stakeholder input gathered during focus groups.

1. Welcome

Linda and Della welcomed attendees and reviewed the project timeline and work completed thus far.

Madeline presented the open house logistics. Attendees were invited to tour four posters describing the project's goals, timeline, and feedback gathered during the previous focus group discussions on water, threats, people, funding, and infrastructure. Attendees were invited to provide additional feedback to help further the plan's framework.

2. Poster Review

Attendees toured four posters and offered comments and feedback to help further the plan's framework. Below is a summary of the feedback received on each of the posters.



Looking Ahead

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- 10 years from now, long after the Corridor Management Plan has been competed, what change or impact do you hope to see within the LMRWD?
 - Improved public use of the river and a more positive view from the public on the Minnesota River.
 - Comment: "Agree"
 - Improved water quality!
 - Comment: "Agree"
 - Active ownership + stewardship by stakeholders, especially youth/young adults.
 - Comment: "Agree"

Threats

- What are additional threats and mitigation strategies that could be included with this list?
 - Additional threats
 - Responsibility for river blockages and emergency removal of woody debris blocking the river. Summer 2022 - trees built up at bridge downtown Shakopee and nothing happened to remove blockage for a long time.
 - Indifference need to create a sense of ownership in general public
 - Comment added "I very much agree with [the above statement]"
 - Lack of clear accountability (legislation favoring business over ecology) for pollution/water use.
 - Development pressures increasing land value and changing civic priorities.
 - Landfills expansion in the floodplain is a threat to surface waters and groundwater.
 - Droughts impact all the waters. Dry land increases runoff. Lack of needed floods change the biodiversity. Mega storms are a counterbalance to drought which alters hydrology.

• Additional strategies

- LMRWD should join efforts to oppose drainage (ag) expansions that do not incorporate water storage in the watershed being drained.
- LMRWD should intervene on behalf of downstream property owners negatively impacted by ag drainage projects.
- Encourage more water holding areas, both urban and ag areas, to prevent runoff/pollution.
- Mitigation strategies for water also help during droughts.

Waters

- What programs, policies, or actions protect these waters from each threat?
 - Surfaces waters
 - Comp plan (from threat of altered hydrology).
 - Drought leads to more water use (from the threat of climate change)
 - Landfills expansion in the floodplain is a threat
 - Droughts (see threats)

• Groundwater

- Monitoring population growth and urban sprawl with development and groundwater usage (from threat of altered hydrology).
- Drought leads to more water use.
- Droughts (see threats)

\circ Stormwater

- Make sure new development puts into their plans BMPs and green infrastructure (from threat of altered hydrology).
- Droughts dry land increase runoff

• Floodplains

- Increasing buffer zones for dwellings (from threat of urbanization and development).
- Droughts land of needed floods change biodiversity.

People

- What are additional actions and audiences to focus on?
 - Promotion of erosion control practices (landowner, property manager, general public, developers, builders, business owners, etc.). Understanding of why erosion control is important.
 - Promotion of educational opportunities on water and land management to decrease water runoff.
 - Grow your own advocates by engaging PreK-12 kids in meaningful experiences with natural/water (in/on boats, plant ID, macroinvertebrate sampling, etc.).
 - o Community based and youth-based citizen science projects and conservation service projects.
 - Engage community in ownership

Funding

- What are additional ways to enhance funding?
 - o No comments
- How can LMRWD position itself to receive federal funding?
 - o No comments

Infrastructure

- How do you balance development and natural resources in upstream areas?
 - Make sure added population can be incorporated in a way that keeps groundwater levels healthy.
 - We need riparian restoration/preservation easements to ensure at least to corridor of the river is mildly protected from urban pollution.
- What practices and programs will be needed to mitigate the impacts of climate change?
 - We need to engage farmers in the discussions on how to reduce agricultural impacts such as runoff topsoil reduction in the form of river sediment.
 - Need to engage farmers and urban areas to be more concerned about water runoff. Control pollution and silt runoff.
 - We need options for renters to incentivize environmental improvements to their rented property.

3. Canoe trip of the Minnesota River

Attendees joined Wilderness Inquiry for a canoe trip on the Minnesota River.

4. Dinner and continuation of the open house

Following the canoe trip, attendees regrouped for dinner and a continuation of the open house.

A final comment was emailed to the LMRWD after the event: "The Minnesota River needs stakeholders that are invested enough to advocate for it. The corridor management plan should do everything possible to create stakeholders. I promise you, there is not a more maligned or disdained natural feature in Minnesota than the Minnesota River. That has to change before we can effect change in the river."

Participants

- o Joseph Barisonzi, Friends of Minnesota Valley, Isaac Walton League of America / Green Crew
- o Ted Suss, Friends of Minnesota Valley, Isaac Walton League of America
- o Judy Bergland, LMRWD Citizens Advisory Committee
- o Theresa Kuplic, LMRWD Citizens Advisory Committee
- o Jennie Sirota, Shakopee Mdewakanton Sioux Community
- o Tyler Winter, Metropolitan Council Environmental Services
- o Brittany Faust, Minnesota Pollution Control Agency
- o Tom Crawford, Friends of Minnesota Valley, Isaac Walton League of America
- o Lori Haak, City of Eden Prairie
- o Ryan Ruzek, City of Mendota Heights
- o Steve Christopher, Board of Water & Soil Resources
- o Lauren Salvato, LMRWD Board
- o Kimberly Musser, Water Resources Center, Minnesota State University Mankato