



Carver County Water Management Organization Citizen Advisory Committee

1. **Approval of February 28th, 2017 Minutes & March 28th, 2017 agenda**
2. **Business Items**
 - a. Lake and stream monitoring results
 - b. WMO Annual report review
 - c. Project fact sheets
 - d. Reuse roundtable results
3. **Information Items & Project Updates**
 - a. Projects Update
4. **Adjournment**

March 28th, 2017

Carver County Government
Center

600 East 4th St. Chaska
County Board Room

6:00 p.m. to 8:00 p.m.

Committee Mission

Work with CCWMO staff to proactively make recommendations to the County Board on matters relating to water management including;

- projects and project prioritization
- Funding and water levy
- Water Plan, Groundwater Plan & Solid Waste Plan
- Water quality and TMDL program and projects
- Education program and projects
- Feasibility studies

MEETING OF THE
CARVER COUNTY WATER MANAGEMENT ORGANIZATION ADVISORY COMMITTEE
MEETING MINUTES
Tuesday Feb 28th, 2017

COMMITTEE MEMBERS PRESENT

<i>Carroll Aasen</i>	<i>Citizen, East & West Chaska Creek</i>
<i>Mary Strother</i>	<i>Citizen, Bevans Creek</i>
<i>Thomas Welch</i>	<i>Citizen representing Commissioner District 2</i>
<i>Virgil Stender</i>	<i>Citizen representing Commissioner District 5</i>
<i>Brent Aretz</i>	<i>City of Norwood Young America</i>
<i>Stan Wendland</i>	<i>SWCD Board Member</i>
<i>Doug Kammerer</i>	<i>Citizen, Crow River/Pioneer Creek</i>
<i>Audrey Kramer</i>	<i>Citizen representing Commissioner District</i>

COMMITTEE MEMBERS ABSENT

<i>Vacant</i>	<i>Citizen representing Commissioner District 1</i>
<i>Chad Robbins</i>	<i>Citizen, Carver Creek</i>
<i>Trevor Kruger</i>	<i>Citizen representing Commissioner District 4</i>

STAFF PRESENT

<i>Madeline Seveland</i>	<i>Carver County Planning & Water Mgmt.</i>
<i>Paul Moline</i>	<i>Carver County Planning & Water Mgmt.</i>
<i>Charlie Sawdey</i>	<i>Carver County Planning & Water Mgmt.</i>
<i>Andrew Dickhart</i>	<i>Carver County Planning & Water Mgmt.</i>
<i>Andrew Edgcumbe</i>	<i>Carver County Planning & Water Mgmt.</i>
<i>Mike Wanous</i>	<i>Carver Soil & Water Conservation District</i>

Meeting Minutes

The meeting was called to order at 6:04p.m. by Chair Stender. Stender inquired if there were any changes to the agenda or minutes. Aasen said the minutes contained one misspelling of his name. Moline requested to remove item 2A from the agenda and save it for March.

Aasen moved to approve January 31st minutes and amended February 28th, agenda. Wendland seconded. Motion passed unanimously.

1. Business Items

• **Lake Vegetation Monitoring**

The purpose of the lake vegetation monitoring program is to oversee the health of aquatic plant communities and establish baseline data on species richness. This will help identify new infestations of aquatic invasive species.

Staff along with plant identification, staff measured the depth at each site and made notes on sediment.

In 2016, the lakes monitored were Assumption, Benton, Brickyard, Maria and Reitz. Edgcumbe walked through what was found at the lakes and showed the committee the online aquatic vegetation sampling story maps.

Wendland inquired if the Maria Lake was a priority and how the water quality was? Edgcumbe responded that the water quality is poor and the lake is not a high priority. It is a waterfowl lake and people use it for hunting. Sawdey added that the data may help determine our priorities and guide future management.

Wendland inquired if the lake could be used for a native plant seed source? Edgcumbe responded that most lakes already have a good seedbank in them.

Kramer inquired why Lake Maria was selected. Edgcumbe responded that staff just wanted get a bit of a trial run for the first year and that more lakes will be monitored in 2017. Sawdey stated that staff didn't know very little about some of these lakes and this will help.

Edgcumbe finished by stating that there were no aquatic invasive species found in either Assumption or Maria but not a single aquatic plant was found in Benton Lake.

- **Aquatic Invasive Species Program**

Dickhart recapped the last WMOAC meeting's discussion on the County's Aquatic Invasive Species Program.

For 2017, staff are still following the "priority lake concept" to determine level on inspection services on the lakes involved in the program. This involves discussion with stakeholders and partners, both dedicated service and roving services and financial partnerships.

Inspections services begins the weekend of fishing opener (May 14th, 2017). The decontamination unit will be available again at Lake Waconia. Staff may revisit the trailer tag program but it would likely be more of a decon inspection tag.

Welch inquired if dock service providers have to report aquatic invasive species when they find them while working. Dickhart stated that they are required they lake services providers are required to be trained by the Department of Natural Resources, but if they are following protocol and notifying state staff when invasive species are round, we can't say for sure. Sawdey added that it's still illegal for them to transport any equipment with aquatic invasive species on it unless they are taking it to their own business to decontaminate it. Staff send out postcards annually to lakeshore owners asking them to check their equipment when they pull it out for the season.

Dickhart informed the committee that the partnership for 2017 are similar to those form 2016. But Minnehaha Creek Watershed District is no longer funding Pierson, Wasserman and Parley. Dickhart plans to use some of the state aid to cover inspections on those lakes and Minnewashta with some assistance from Minnewashta and Pierson lakeshore owners. CCWMO funds would be used to cover WMO lakes.

Dickhart presented the Hybrid Roving Option staff are proposing. It's a pilot program for two lakes that would have dedicated inspections higher use days and "on call" or "roving" inspector on low use days. Boaters can call for a voluntary inspection. A sign will be placed on non-staffed lakes. Staff hope to use this to gauge whether people will call roving inspectors and gain insight to whether regional inspection would work.

Committee members expressed that they did not feel people would call and inspector and wait for him/her to show up before launching. Moline said that the knowledge that an inspector could show up any minute could have some people call. Staff are trying to see if it's effective. Sawdey added that at the end of the season we'll have a program that will show that people will or will not voluntarily do this.

Dickhart added that we could add signs reminding people how aquatic invasive species affect lakes. Most of the fishing community does a great job, but a message about how aquatic invasive species affect fishing could be useful.

Kramer suggested staff write an article for the papers on how aquatic invasive species affect lake ecology and fishing.

Aasen inquired why inspections start with fishing opener, especially since we could end up with open water in April. Dickhart responded that staff chose that date because it we could get good inspector coverage with the available budget. If we start earlier we have to end earlier and many of the inspectors are college kids that may not be done with school earlier. Dickhart stated that staff could look at adjusting the program if they see lots of boats on the water earlier.

Aasen suggested that staff could add early roving inspections on the weekends.

Dickhart gave a background on how staff have gotten stakeholders involved in shaping the aquatic invasive species program. The group meet in November 2016 to provide feedback on the 2016 program and make suggestions for the 2017 program. The group met again in February 2017 to provide feedback on the proposed plan. Staff plan to hold stakeholder forums as needed throughout the year.

Aasen moved to approve the aquatic invasive species program plan ahead to the County Board. Stender seconds. Wendland inquired if the plan was flexible to be amended throughout the year. Dickhart said that it was. Motion passed unanimously.

Aasen recommended watching what is going on at the legislature. There is a bill that would take 2/3rd of the legacy money and put it into the bridge and highway funds.

- **Subsurface Sewage Treatment System Program Update**

Moline gave a background on the Subsurface Sewage Treatment Systems (SSTS) Incentive Program and recommendation for 2017.

- The program began in 2008 and targets septic systems that have a direct connection (direct discharge) to a creek in Bevens and Carver Creek watersheds. There were and still are quite a few in the County.

- Participants must be voluntary, meaning there was no previous trigger or current enforcement, on upgrading or installing a septic system.
- The incentive program consists of both a cost share of 25% the costs of the system up to \$2000 and a low interest loan.
- Since 2008, 367 homes have participated. 224 were in the Bevens and Carver Creek priority areas. 133 were volunteers from outside that area. 143 have taken the loan.

Last year the committee recommended \$50,000 for the 2017 program to cover 25 systems. In 2017, the sub-watersheds being targeted are CC9 and CC11 and CR 19. The secondary sub-watershed is the portion of CA10-4 in Benton and Dahlgren Townships.

Wanous inquired if the recommended sub-watershed include the homes around Bongards? Moline responded that no it does not. Their lots are too small to get an upgraded system and will require for thought on how to tackle those.

Wendland inquired if there a reason staff picked the smaller sub-watersheds instead of tackling all of CA10_4. Moline responded that those were the sub-watersheds that were secondary priority in 2016 so they got bumped up.

Welch moved to allocate the \$50,000 for 2017 to these sub-watersheds. Wendland seconded. Motion passed unanimously.

Moline presented briefly on how the program would wrap up. Staff predict there is about 90 systems left to tackle (costing \$90,000). He said CCWMO could tackle them all in one year or split the 90 systems and costs into 2 or 3 years.

Wendland inquired if there are enough contractors to do it all in one year? Moline responded that it was not likely and doing it all in one year probably wouldn't work well for Environmental Services staff either.

Wendland inquired if word gets out there is a push to finish these, is there a chance costs could go up? Moline responded that yes that is a risk. We haven't heard anything about that with the program.

Wendland inquired if people been okay taking on this costs? Moline responded yes they have. We get some grumbling, but people know they don't have a system. We've only had three enforcement scenarios. Most people pay back the loan before the loan timeline.

Wendland stated he was in favor of the proposal for 45 systems in two years. Moline said he would talk to Env. Services staff and see what their recommendation is.

Kramer emphasized the need to do education on bacteria in creeks and what the consequences are. She recommended sending a letter to homeowners identified for next year letting them know this was coming. Moline responded that it would be difficult to promise funding that wasn't approved.

Welch inquired if most homeowners with substandard systems know they are substandard. Moline responded that most do know, but there are some who don't know. With older systems there is less evidence they are on the property.

The committee came to a current consensus to tackle 45 systems in two years. Moline stated that staff would bring this back to the committee in the next couple months.

2. Information Items

Ice shanty recap

Sawdey gave the committee an overview of the CCWMO's new Ice Shanty Live Lake Lab. Staff took this ice house to Chanhassen February Festival. Activities included and underwater robot, preserved aquatic invasive species, and live macro-invertebrates. The purpose was to get people out on the lake to talk about lake science. Sawdey estimated that between 100-150 people stopped by in a three hour period. People really enjoyed the underwater robot that people drive and take photos.

Staff are considering bringing it to Waconia's snow mobile event for next winter.

Waters of Carver County recap

Seveland gave the committee an overview of the Waters of Carver County event. Paul Huttner, Steve Woods and Paul Moline gave great presentations on many aspect of precipitation patterns, stormwater and water resources. Around 100 people attended including city council members, engineers, city staff, planners, citizens, township board members and more. Along with the presentations attendees could taste tap water at our water bar, take our survey, view 4th grade water education projects, and view posters on highlights from CCWMO' last 20 years.

Wanous informed the committee that the Soil & Water Conservation District is hosting an information meeting on March 16th to talk about how staff are working with the buffer law in Carver County.

Meeting adjourned at 7:50pm.

CCWMO Advisory Committee

March 28th, 2017 Meeting

Business Item
<i>2016 Lake and Stream Monitoring Update</i>
Water Management Plan Related Goal
Goal MON-1 To maintain a comprehensive, accurate assessment of surface and ground water quality trends over the long term and comply with all current and future TMDL's monitoring and assessment protocols. This data will used to compile trend analysis, assess BMP effectiveness, and complete TMDL studies.

Summary:

Presentation of the 2016 stream and Lake monitoring results.

The Carver County WMO implements an annual stream and lake monitoring program that includes monitoring four stream systems and 19 lakes, county wide. These samples are collected to determine the overall health of Carver County stream and lake systems. WMO staff utilize this data to assess trends in stream and lake chemistry over historical periods, which aides in prioritizing potential projects to mitigate pollutant loading in each watershed.

Discussion Points:

- Questions about monitoring methodology, results, and trends

Recommended WMOAC Committee Action:

- No formal action required. Feedback and discussion only.

CCWMO Advisory Committee

March 28th, 2017 Meeting

Business Item
<i>2017 Annual Report</i>
Water Management Plan Related Goal
This report is a summary of how all MAJOR ISSUE GOALS in the Water Management Plan were met in 2016.

Summary:

The CCWMO annual report is intended to provide an annual look at the activities accomplished as well as challenges encountered by the CCWMO. It contains information on specific WMO activities, projects, programs, planning efforts and financial activity for 2016. This report fulfills the requirements of MN St. 103B 231 & MN Rules Ch. 8410.0150. The 2016 report is currently in DRAFT form and will be distributed to the County Board in April 2017 and subsequently to the Board of Water, Soil Resources (BWSR).

Discussion Points:

- *Feedback on report summary.*

Recommended WENR Committee Action:

- *No formal action required. Feedback and discussion only.*

CCWMO Advisory Committee

March 28th, 2017 Meeting

Business Item	
<i>Project Fact Sheet</i>	
Water Management Plan Related Goal	
Goal ED-1	To provide those living, working, and recreating in Carver County with the knowledge, skills, and motivation required to assure protection and improvement of the county's surface water and groundwater resources.

Summary:

Staff have determined there is a need to create project fact sheets for projects and other activities completed by the CCWMO. These projects facts sheets will contain summaries of the project, partners and costs and be used to provide information to citizens, staff and elected/appointed leaders.

Discussion Points:

- *Possible structures for the information.*
- *What information would be useful and should be included?*

Recommended WENR Committee Action:

- *No formal action required. Feedback and discussion only.*

CCWMO Advisory Committee

March 28th, 2017 Meeting

Business Item
<i>Stormwater Reuse and 2016 Monitoring Results</i>
Water Management Plan Related Goal
Goal USM-1 Minimize and mitigate the impacts of urban stormwater runoff on water resources.

Summary:

Presentation of Stormwater Reuse and Monitoring Results in 2016.

As part of the Best Management Practice toolbox for developers to use to meet CCWMO Water Resource Management Ordinances, Stormwater Reuse has become a viable option to reduce stormwater volume leaving a site. Since 2013, 17 reuse systems have been approved. In 2016, CCWMO staff conducted monitoring on four sites that have operational stormwater reuse systems.

Discussion Points:

- Review of guidelines, stormwater monitoring results, and stakeholder meetings.

Recommended WMOAC Committee Action:

- No formal action required. Feedback and discussion only.



Carver County Water Management Advisory Committee

March 28th, 2017

Information Items & Project Updates

Education Program

- The CCWMO Stormwater workshop was held on March 10th. 55 engineers, planners, staff, local leaders and citizens attended to get an update on the water reuse and learn about stormwater reuse and research projects at the St. Anthony Falls Lab.
- Water education plans have been coordinated with each city in the County. Staff have compiled all education tasks and activities onto a timeline for the year and will be creating and distributing education media and messages to cities each month.
- March water column was on environmentally friend car wash events. April's water column will be on CCWMO's well sealing program.

WMO Project Updates

Streambank Exclusion

Funding source: Clean Water Legacy (BWSR)

Grant allocation: \$40,000

WMO Match: \$20,000

Background: This program will provide incentive to cattle growers to remove cattle from the riparian corridor.

Update: One fencing project has been installed. WMO and SWCD staff have been in contact with other potential interested landowners and more detailed plans are being drawn up. Focus will transition to Carver Creek producers once Bevens Creek options are exhausted. Further, stream restoration sites are being assessed for program inclusion.

Carver Clean Water Initiative

Funding source: Clean Water Legacy (BWSR)

Grant allocation: \$150,000

WMO Match: \$70,000

Background: This initiative will provide businesses and non-profit organizations (non-governmental) up to \$25,000 in cost share to install clean water projects on their property.

Update: Pervious pavers at Iron Taphouse and HEI collision in downtown Waconia were successfully installed benefiting the water quality of Lake Waconia. An additional site in Waconia is being discussed with landowners. A school district 112 site near lake grace has been installed.

Fountain Park Stormwater Retrofit

Funding source: Clean Water Partnership (MPCA)

Grant allocation: \$75,000

WMO Match: \$90,000

City of Waconia Match: \$25,000

Background: Much of the city's stormwater infrastructure is dated, and several large developed areas downtown Waconia drain directly to the lake without treatment. Of particular concern, is an 11.19 acre area that drains to the Fountain Park Pond adjacent to Waconia City Hall. During a rain event the pond is dramatically overwhelmed providing little treatment. The proposed project aims to add substantial stormwater treatment capacity to the Fountain Park area by adding a suite of BMPs that will mitigate direct suspended solid and phosphorus loading to Lake Waconia. This project is part of a larger stormwater retrofit project in this area of the city. The WMO received a Clean Water Partnership Grant from MPCA in 2014 to defray \$75,000 of the total project cost.

Update: Project construction is approximately 90% complete. An additional \$18,000 was received from the State which will be used for installation of tree box treatment in spring of 2017.

Mayer Wetland Restoration

Funding source: City of Mayer

WMO CIP contribution: \$50,000

Background: Project aims to restore a wetland area adjacent to Central Pond.

Update: Major work is complete. Vegetation will be planted in spring of 2017.

Benton Lake (Phase 2)

Funding source: City of Cologne

WMO CIP contribution: \$55,000

Background: Phase I was the installation of a fish barrier at the outlet of the lake, which will virtually eliminate the possibility of carp re-establishing within Benton Lake from Carver Creek.

Update: An RFQ was sent to treat Benton Lake with Rotenone February of 2017. The WMO did not receive any quotes from aquatic pesticide applicators to conduct the treatment. They cited lake dynamics and lack of technical experience pertaining to winter rotenone application as primary reasons to not pursue the project. WMO staff is currently working to pursue a fall 2017 application of rotenone.

2016 SSTS:

Funding source: WMO

WMO contribution: \$50,000

Background: This program incentivizes direct discharge SSTS systems in the Bevens/Carver creek TMDL watersheds and for first come-first serve volunteers CCWMO wide.

Update: The Board approved the 2016 program in April for the sub-watersheds Carver Creek W10, W12 priority and CC9 and CC11 as secondary.



Carver County Water Management Organization Advisory Committee

Upcoming Meetings

Date	Meeting Type	Business Items	Special Notes
3/28/2017	Regular	<ul style="list-style-type: none"> - Projects update - WMO annual report - Project fact sheet - Lake & stream monitoring results - Reuse Roundtable results 	
4/25/2017	Regular	<ul style="list-style-type: none"> - Water Management Plan update - June tour discussion - WMO 2018 capital project funding - WMP update and issues 	

Others Events

Date	Program	Description	Special Notes