



# Carver County Water Management Organization Citizen Advisory Committee

1. **Approval of October 25<sup>th</sup>, 2016 Agenda**
2. **Approval of September 27<sup>th</sup>, 2016 Minutes**
3. **Business Items**
  - a. Water Management Plan overview
  - b. Education Workshop
4. **Information Items & Project Updates**
  - a. 20<sup>th</sup> Anniversary Event
5. **Adjournment**

**Oct. 25<sup>th</sup>, 2016**

Carver County Government  
Center  
600 East 4<sup>th</sup> 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 Sept. 27<sup>th</sup>, 2016

**COMMITTEE MEMBERS PRESENT**

<i>Carroll Aasen</i>	<i>Citizen, East &amp; West Chaska Creek</i>
<i>Mary Strother</i>	<i>Citizen, Bevens Creek</i>
<i>Thomas Welch</i>	<i>Citizen representing Commissioner District 2</i>
<i>Audrey Kramer</i>	<i>Citizen representing Commissioner District</i>
<i>Trevor Kruger</i>	<i>Citizen representing Commissioner District 4</i>
<i>Virgil Stender</i>	<i>Citizen representing Commissioner District 5</i>

**COMMITTEE MEMBERS ABSENT**

<i>Vacant</i>	<i>Citizen representing Commissioner District 1</i>
<i>Brent Arentz</i>	<i>City of Norwood Young America</i>
<i>Chad Robbins</i>	<i>Citizen, Carver Creek</i>
<i>Doug Kammerer</i>	<i>Citizen, Crow River/Pioneer Creek</i>
<i>Bill Bohnen</i>	<i>SWCD Board Member</i>
<i>Hilary Drees</i>	<i>Benton Township</i>

**STAFF PRESENT**

<i>Paul Moline</i>	<i>Carver County Planning &amp; Water Mgmt.</i>
<i>Madeline Seveland</i>	<i>Carver County Planning &amp; Water Mgmt.</i>
<i>Charlie Sawdey</i>	<i>Carver County Planning &amp; Water Mgmt.</i>
<i>Andrew Dickhart</i>	<i>Carver County Planning &amp; Water Mgmt.</i>
<i>Kristen Larson</i>	<i>Carver County Planning &amp; Water Mgmt.</i>

**Meeting Minutes**

The meeting was called to order at 6:05p.m. by Chair Virgil Stender.

Aasen moved to approve the May 31<sup>st</sup> minutes and September 27<sup>th</sup> agenda. Strother seconded. Motion passed unanimously.

1. Business Items

• **CCWMO Rules Update**

The County Board adopted the new rules on September 20<sup>th</sup>, 2016 and will go into effect on October 15<sup>th</sup>, 2016. The Water Rules are ordinances that help protect lakes, streams, and wetlands from the impacts of development.

The rules apply to construction projects within the Carver County Watershed Management Organization's boundaries that;

- will create 1 acre or more of impervious surfaces (hard surface such as cement or roofs)
- disturb more than 1 acre of soil
- occur within or near a sensitive area such as a lake or river.

Updates were necessary to meet changes in the County's Municipal Separate Storm Sewer System (MS4) permit, issued by the Minnesota Pollution Control Agency in 2013, and to clarify the current water rules and address gaps and specific problem areas that have become apparent since the last ordinance was adopted.

The updates included:

- Increasing the stormwater runoff volume control requirement to 1.0 inches (currently 0.5 inches) but adding flexibility to allow volume control requirement to be reduced back to 0.5 inches in certain situations
- Adding flexibility to allow the volume control and water quality requirement to be met offsite or through banking
- Clarifying how the stormwater management portion of the rule applies to the several types of linear projects
- Clarifying topsoil management requirements
- Decreasing the water quality requirement to 1.0 inches (currently 1.05 inches)
- Clarifying the types of linear (road) projects that are exempt from the stormwater management portion of the rule
- Revising existing definitions and adding new terms
- Updating the list of best management practices eligible for volume control and water quality treatment
- Updating the Rule Guidelines and Calculator to help simplify the application process

Kramer expressed concerns that developers might not come to Carver County with the new rules in place as it might make it harder for them.

Welch requested staff talk about the enforcement aspect these rules, particularly with top soil. Moline stated that staff perform site inspections on developments where they go visit the site and ensure practices are meeting rules. If not we follow that up with a letter to the appropriate personnel and can use a "stop action" force if need be.

- **Aquatic Invasive Species (AIS) Program Update**

Andrew Dickhart provided an update to the AIS program. The inspection program will be wrapping up in October. Dickhart gave a history of the program and reviewed stats from the past 4 years and summarized the current year. 2016 is the 5<sup>th</sup> year of the program: 25,900 inspections performed so far, 14 inspections showed zebra mussels, and 74 decontaminations performed.

This year, CCWMO did a trial trailer tag program. Mid-way through the year the Department of Natural Resources put a freeze on the program. Dickhart is meeting with them later this week so see if certain aspects can be restored.

Welch inquired what the point of decontaminating a boat or lift coming out of the water for winter was. Dickhart replied that it's a great way for staff to monitor. Additionally, people sell equipment in the fall and moving equipment from lake to lake is one of the pathways AIS can travel to new lake.

Zebra mussels were found in Lake Minnewashta on August 18<sup>th</sup> during Minnehaha Creek Watershed District's early detection monitoring. 12-14 were found directly under the dock at the boat access. No additional zebra mussels were found outside the dock area. Staff installed a containment barrier around the area on August 24<sup>th</sup> and used a copper sulfate treatment called Earthtec QZ – which is non-toxic to fish and other aquatic wildlife - to treat the 29 acre bay. Treatment ran from Sept. 13 to Sept. 23. Barriers were removed on September 27<sup>th</sup>. The cost of the treatment was shared between MCWD, the County's AIS rapid response plan and Lake Minnewashta Preservation Association.

Strother inquired if staff found that the treatment killed anything else. Dickhart responded that it damaged a lot of the native coon tail, which then caused low dissolved oxygen concentrations and thus resulted in fish kills, so yes indirectly.

Strother inquired if the copper sulfate stays in the soil for a while?

Dickhart responded that the creators say 99-100% gets used up biologically so it doesn't end up staying in the water.

Strother inquired what the lake owners thought of the whole process.

Dickhart responded that they were super positive and involved. Their Lake Minnewashta Preservation Association's lead, Steve, did a lot of communication with homeowners on the timeline and happenings.

Kramer inquired if staff tested the effect on macro-invertebrates? Dickhart responded that no they did not, just the mortality of zebra mussels, but as the chemical targets mussels, there were likely some snails or clams affected.

Aasen inquired if there had been any long term studies on the effects of fish, and/or is anyone doing studies. Dickhart responded that he did not know of any as it is a fairly new product. Staff will continue to monitor for zebra mussels, water quality testing and dissolved oxygen testing after the treatment.

Kramer inquired if this procedure has been done abundantly around the state. Dickhart responded that no, not abundantly but in a few other lakes, yes.

Dickhart informed the committee that he is hosting an AIS Stakeholder Forum on November 16<sup>th</sup>, 2016 at the Chanhassen Library. Reps from County, Lake Associations, Watershed District, Cities and Townships, Fishing Groups, Marinas will all be invited. We'd like 1-2 committee members present. If you are interested, let Madeline or Andrew know.

- **Microbial Source Tracking In Bevens and Carver Creek**

Sawdey informed the committee of his work in Microbial Source Tracking for Bevens and Carver Creeks. Source tracking uses genetic variations to identify the particular animal host the a given bacteria is coming from. Staff can use this information to determine "hot spots" where fecal sources are coming from and to direct staff and financial efforts to these spots.

Sawdey did source tracking as part of his graduate research so was able to borrow space in the U of MN's lab and do the work himself with payments for a few of the reagents needed.

Sawdey reviewed the monitoring locations for the study with the committee. The next steps of the study are to finish the analysis and present the data to the committee in October or November.

Strother inquired best this information could be used and how it would be disseminated. Sawdey responded that we could use it to target our Subsurface Sewage Treatment System Program. Data also might show us whether cows accessing the stream have a big or little impact and whether it's something we should be targeting. Sawdey stated that the trouble with providing the information is that elevated levels of e.coli doesn't necessarily mean increased risk to human health as they are indicator organisms. Less than 1% of e.coli actually cause harm, but it has such a bad reputation.

Kramer inquired how many people have gotten infected with e. coli and gotten sick. Sawdey responded that we don't know that but we could talk to the MN Department of Health. The majority of time e.coli illnesses are not caused by exposure to water.

Aasen stated that the Lake Minnewashta the beach was closed due to high levels of E. coli and inquired if we have any results to what that was. Sawdey responded that the only mechanism we have for a beach closure is elevated levels of e. coli and it could be a number of things including the 30-40 geese that were basking on the beach.

- **Water Management Plan Update**

Moline informed the committee that staff are in the initial stage of updated the water management plan. Kristen Larson, presented the history of this plan. It was last updated in 2010 and although CCWMO is not required to updated it again till 2020, we are doing it early so it lines up with the Comprehensive Plan process. This will save cities from having to update their water management plans two years after completing their comprehensive plans.

The update will include changes in information and new research. Additionally, staff plan to create a digital version of the Land & Water Resources Inventory, review and update the Major Issues sections along with their goals and strategies.

The Committee will be active in suggesting and prioritizing issues as well and commenting on and reviewing the draft plan.

Moline added that this will guide most of what we are doing over the next 10 years so is a pretty key document.

- **20th Anniversary Event**

Seveland informed the committee of two upcoming event in association with the CCWMO's 20<sup>th</sup> anniversary this year. The first is a 20<sup>th</sup> anniversary event at Schram's Winery on November 2<sup>nd</sup> which will be both an open house and also have Paul Huttner, Minnesota Public Radio's meteorologist, presenting on challenges local government's face with stormwater. The second event is the MN Science Museum which is coming out to NYA on Sat. Nov. 5<sup>th</sup> to present its show WATER!

- **Budget Update**

Moline informed the committee that he presented the preliminary levy budget to the County Board on September 6<sup>th</sup>, 2016. The levy passed without questions. The Board will take action on the final levy in December.

- **Lake Benton Update**

Charlie Sawdey provided an update on the Benton Lake project. Staff and consultants decided to move ahead with a rotenone treatment of the lake that will be applied this winter through the ice. Winter was chosen as will be a less expensive and more effective means of application to do apply it through the ice as opposed to and air application as would be needed during fall or spring. And in the winter, Lake Meuwissen freezes almost solid so we just have to treat Benton Lake.

Staff will need 100% sign off form everyone around the lake for a fish toxicant permit and are working with local leaders to get those signatures. The city administrator has been very supportive. Staff will be holding a public meeting to inform people around the lake and the community. One of the things staff will need to highlight during this public meeting it was the lake inspected to look like 10 years after the treatment.

After the treatment, CCWMO would like the city of stock bluegill and largemouth bass for a 3-5 year period. Those species are very good at controlling any residual carp or bullhead the treatment may have missed.

Strother asked if people would notice a difference in the lake after 5 years. Sawdey responded yes, the largest difference they'll likely notice is the increase in aquatic plants that return to the lake which would happen around the second summer.

Strother inquired if staff are documenting the process so they can tell the story. Sawdey said yes they plan to document and if there is any information the committee thinks we should obtain that we aren't to let him know.

Kramer inquired if this kind of project has been successful elsewhere in the state. Moline responded that most of the projects we've seen with carp removal show success. Courthouse Lake in Chaska had it happen and it was 100% effective.

Meeting adjourned at 8:02pm



## Water, Environment & Natural Resources Advisory Committee

October 25<sup>th</sup>, 2016 Meeting

<b>Business Item</b>
<i>CCWMO Rules Update</i>
<b>Water Management Plan Related Goal</b>
<b>Goal AD-1</b> Optimize the use of public resources in managing resources in the CCWMO.
<b>Policy AD-3</b> Maintain an up-to-date plan document by periodically amending the plan to incorporate newly completed studies, update the project list, etc.

### **Summary:**

Staff will continue discussion of the upcoming update to the Carver County Water Management Organization (CCWMO) Watershed Management Plan. Staff will provide an overview of plan content and how the plan informs WMO programs, budget, etc.

### **Discussion Points:**

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### **Recommended WENR Committee Action:**

- None

### **Attachments**

## Water Management Organization Advisory Committee

October 25<sup>th</sup>, 2016 Meeting

<b>Business Item</b>	
<i>Education Planning</i>	
<b>Water Management Plan Related Goal</b>	
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:**

As part of CCWMO's Water Management Plan, staff annual design an education work plan that targets four target audiences: citizens, students, local decision makers, and staff (engineers, planners, developers, etc.). Education and outreach is important in creating and fostering behaviors and actions that help protect our lakes and rivers. Staff will lead a discussion on education practices using the three discussion points below.

### **Discussion Points:**

- What audiences should we target?
- What media/methods should we use?
- What are the most important topics/messages to get out?

### **Recommended WMOAC Committee Action:**

- Input only

### **Attachments**



## Carver County Water Management Advisory Committee

October 25<sup>th</sup>, 2016

### Information Items & Project Updates

#### **Education Program**

- Aquatic Invasive Species Program Stakeholder meeting is scheduled for November 16<sup>th</sup> at the Chanhassen Library. Goal is to gather input from stakeholders on the current program to help shape the 2017 program.
- Madeline presented to students at Clear Water Middle School on October 25<sup>th</sup> on the topic of Aquatic Invasive Species.
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#### **WMO Project Updates**

##### ***Lake Burandt Reuse (Phase 2)***

*Funding source:* Clean Water Legacy (BWSR)

*Grant allocation:* \$200,000

*WMO Match:* \$50,000

*Background:* This is the second phase of the overall project of installing water reuse tanks for use by Waconia School District to irrigate adjacent ball fields. The scope of this phase is to install three water tanks, increasing holding capacity of the system to 15,900 cubic feet or roughly four nights of watering the football field. Tanks were installed and irrigation system is online and awaiting power hookup from Xcel energy.

*Update:* The school district hooked up pumping equipment in the spring the system was function in summer 2016. The City of Waconia rerouted phase II of stormwater reconstruction to the tanks.

##### ***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.

### ***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 fall of 2016.

### ***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. The County Board approved an extension to Dec 31, 2016 to cover the project permitting and weather delays.

### ***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:* Staff discussed Phase II with the WMOAC committee in March 2016. Phase II will consist of rotenone during winter conditions. An additional meeting will be held with the city on Oct 3<sup>rd</sup>, 2016.

**2016 SSTS:**

*Funding source:* WMO

*WMO contribution:* \$50,000

*Background:* This program incentivizes direct discharge SSTS systems in the Bevans/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
<b>11/29/2016</b>	Regular	Aquatic Invasive Species Water Management Plan	
<b>12/27/16</b>	No meeting		
<b>1/31/2016</b>	Regular	Review Operating Rules	

### Others Events

<b>11/5/16</b>	Science Museum show WATER!	CCWMO is bringing the Science Museum to NYA to do their show WATER! It targets elementary school aged kids. 9:30am to 10:20am	Norwood Young America Pavilion located at 327 Elm Street W in NYA, MN.
<b>11/16/16</b>	AIS Stakeholder Forum	Bring together stakeholders to gather input on the County's Aquatic Invasive Species Program and help shape the 2017 program. 6pm -8pm at Chanhassen Library	