CMSCWD
Citizen Advisory Committee
July 21, 2020

- Ann Warner
- Jim Schoeller
- Diane Rohan
- Steve Dibb
- John Bower
- Pam Arnold
- Scott Alexander
- John Goodfellow
Welcome

- Paul Richert, Board Manager
- Mike Isenee, Administrator
- Bobbie Law, Administrative and Program Assistant
- Barb Bickford Local Consultant and Facilitator
Board Manager Directives for a Successful Citizen Advisory Committee

- Increase your familiarity with the water resources, programs, and projects.
- Understand guidelines and goals of the Watershed Management Plan and
- Gather your informed input on issues and projects.
Tonight’s Objectives

- Getting To Know One Another
- Tour of Watershed
- Review Draft Public Survey Results
- Identify CAC Priorities and Concerns
Barb Bickford, Bickford Collaboration
Paul Richert, Board Manager
Mike Isensee, CMSCWD Administrator
Bobbie Law, CMSCWD Administrative and Program Assistant

Ann Warner
Jim Schoeller
Diane Rohan
John Goodfellow
Steve Dibb
John Bower
Pam Arnold
Scott Alexander
Rapid Breakout Questions

- **FIRST Breakout:**
  What activity do you enjoy the most that involves water? Why?

- **SECOND Breakout:**
  Who do you hope will benefit most by your being on the CAC and why?

- **THIRD Breakout:**
  What do you hope to provide for the watershed district and why?
CMSCWD Virtual Watershed Tour

July 21, 2020
Overview

- 81 square miles
- 31 lakes, 22 streams, 18 miles of St. Croix River
- Ten Year Management Plan
  - Water Quantity (flood control)
  - Water Quality Protection/Improvement
    - Improvements (projects)
  - Monitoring
  - Permitting
  - Aquatic Invasive Species
  - Public Education
  - Maintenance
2020 Budget Categories

- Implementation: 3%
- Administration: 2%
- Planning: 2%
- Monitoring: 5%
- Permitting: 8%
- AIS Inspections and Treatment: 9%
- Public Education: 11%
- Inspection and Maintenance: 60%
Administration 2010-2019

- Annual Reporting, Audits, Governance Policies, Local Government Coordination
- Internal Control, Conflict of Interest, Fund Balance, & Data Request Policies
- Local Water Plans
- Transportation and Park Plans
- Wash. County Groundwater Advisory Committee
Water Quality Plans
- 2011 Multi-Lake Total Maximum Daily Load
- 2015 Watershed Management Plan Major Amendment
- 2016 Streams Bacterial Assessment
- 2019 Lower St. Croix One Watershed One Plan
<table>
<thead>
<tr>
<th>Year</th>
<th>Description</th>
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<tbody>
<tr>
<td>2010</td>
<td>Square, Sand, Long Lake and Subwatershed Analysis</td>
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<tr>
<td>2011</td>
<td>Square Lake Biological Analysis</td>
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<td>2013</td>
<td>Log House Landing Feasibility</td>
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<td>Fairy Falls Feasibility</td>
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<td>197th St. Ravine Feasibility</td>
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<td>2014</td>
<td>Aquatic Invasive Species Survey Final Report (Lakes)</td>
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<td>Willow Brook Stream Restoration Concept</td>
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<td>Silver Creek Comprehensive Water Quality Assessment</td>
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<td>2015</td>
<td>Sediment Borings on Big Carnelian, Big Marine, and Square Lakes</td>
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<td>Carnelian Heights Feasibility Study</td>
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<td>Zebra Mussel Early Detection, Rapid Response, and Control Plan</td>
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<td>2016</td>
<td>Stream Bacteria Assessment (Swedish Flag, Carnelian, Gilbertsons)</td>
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<td>Aquatic Invasive Species Action Plan- Square Lake</td>
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<tr>
<td></td>
<td>Aquatic Invasive Species Action Plan- Big Carnelian Lake</td>
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<td>2017</td>
<td>German and Alice Lakes Diagnostic Study</td>
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<td>2018</td>
<td>Clear, Mays, and Terrapin Lakes Diagnostic Study</td>
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<td>2019</td>
<td>Seven Lakes Subwatershed Analysis</td>
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<td>133rd/Panorama Basin 60% Plan</td>
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<td>Lower St. Croix One Watershed One Plan</td>
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<td>10 Year Lake Monitoring Plan Update</td>
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Seven Lake Subwatershed Analysis Planning

- Fish, Long, Jellums, Big Marine, Square, Big Carnelian, Little Carnelian
- Identify targeted and cost-effective water quality improvement projects to improve grant application scores.
- $88,000 Grant in 2020
- $30,000 Grant in 2021
- $30,000 Levy in 2021
Planning

Bliss Addition Water Quality Improvements Implementation

2022-2027 Construction

$40,000 grant funding for survey and feasibility report.
Implementation: Plans & Construction 2010-2019

Designs

2012  Silver Creek Ravine Stabilization
      Goose Lake Ravine Stabilization
2014  197th St. Ravine Stabilization
2015  Long lake Iron Enhanced Sand
2017  Marine Bioretention Basins
2018  Goose Lake Iron Enhanced Sand Filter
      Marine Ravine Stabilization
2019  133rd/Panorama Bioretention Basin
      Marine on St. Croix Phase I Bioretention Basins
Implementation

Marine Ravine Stabilization

82.0’ drop over 370’ long
17.0 lbs. per year phosphorus reduction to the St. Croix River
$142,500 grant funding
$152,500 levy funding

Project Area
Implementation

Downtown Marine Stormwater Quality Improvements

2020 Construction

27.0 lbs. per year phosphorus reduction to the St. Croix River

$322,000 grant funding, $83,000 levy funding
Implementation: Cost Share 2010-2019

290 Landowner Site Visits by Washington Conservation District Technical Staff

72 Voluntary Conservation Projects

Top Photo: 1 acre native prairie buffer on Hay Lake

Bottom Photo: Stream Buffer Restoration Project on St. Croix
Carnelian Heights Voluntary Cost Share
Implementation: Aquatic Invasive Species

AIS Treatment - Long Lake Above

Big Marine Lake (cost share), Square Lake (cost share)
Implementation: Aquatic Invasive Species

Washington County 2019 AIS Boat Ramp Inspections
On Carnelian Marine St. Croix Watershed District Lakes

In 2019, Washington County with supporting funding from the Carnelian Marine St. Croix Watershed District and staff from the Washington Conservation District spent a total of 1,761.5 hours at landings on CMSCWD lakes inspecting watercraft and educating boaters. 5,012 inspections were completed this year.

- 6.3% of boats entering the water had plants, animals, water, mud, etc. at the time of inspection. This can be compared to 4% in 2019.

- 4% of boats arriving at the launch had their drain plug in at the time of inspection. This can be compared to 9% in 2015, 7% in 2016, and 5% in 2017 and 2018.
Implementation: Aquatic Invasive Species

Washington County 2019 AIS Boat Ramp Inspections
On Carnelian Marine St. Croix Watershed District Lakes

In 2019 5,012 boats entering 15 launches in Washington County (including six launches in CMSCWD) came from at least 57 lakes.
Implementation: Permit Program 2010-2019

176 Permit Applications
14 Enforcement Actions

- Single Lot Riparian Shoreline Redevelopment
- Single Lot Riparian Shoreline New Development
- Shoreline Stabilization/Restoration
- Single Lot Residential within 1,000 feet of a Groundwater Dependent Natural Resource
- New Subdivision
- Other
Implementation: Operations and Maintenance

Carnelian Channel

Carnelian Outlet Pipe
Water Quality Best Management Practices
Overview of Draft Survey
Results Overview

Questions? Short Discussion?
Draft Survey Results Overview

There are ~3,500 landowners in the District
We have 2 months left to get more!
Highest Priority Opinions

Shoreline Landowners

- Preventing the spread of aquatic invasive species (AIS)
- Planning and constructing flood prevention projects
- Monitoring and publishing annual data on water quality and lake levels
- Conducting education and outreach
- Engaging the public in volunteer projects to monitor, protect, or improve water resources
- Engaging the public in the decision-making process
- Developing recreational opportunities and family activities
- Planning and constructing water quality improvement projects
- Creating healthy habitat
- Monitoring and publishing annual data on the health and level of groundwater
- Providing expert assistance to landowners to improve water quality
- Ensuring clean and safe streams, lakes, and wetlands
- Enforcing rules to protect natural shoreline
- Enforcing rules to protect water quality

General

- Preventing the spread of aquatic invasive species (AIS)
- Planning and constructing flood prevention projects
- Monitoring and publishing annual data on water quality and lake levels
- Conducting education and outreach
- Engaging the public in volunteer projects to monitor, protect, or improve water resources
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- Providing expert assistance to landowners to improve water quality
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- Enforcing rules to protect water quality
Meeting 2 Mission Accomplished!

- Got To Know One Another
- Toured the Watershed (virtually)
- Reviewed Early Public Survey Results
- Shared CAC Priorities/Concerns
Next Meeting: Tuesday, September 15

• 6:20 PM
• 1.5 hours
• Gather your input/final recommendations for the Watershed Mgt Plan Update.
• Decide whether or not we should meet in November or December or in 2021
• Informal-socially-distanced-with-masks-watershed-tour Friday, August 28?
• Thank you for attending and participating!
Post Meeting Chit-Chat?