

Colorado Water Conservation Board
Colorado Water Loss Control & Management Committee

August 27, 2024
10:00am-11:00am Mountain

Hybrid meeting.

Location:

23044 US Hwy 6 PO Box 38 (K-66), Keystone, CO 80435

Microsoft Teams

[Join the meeting now](#)

Meeting ID: 268 669 256 03

Passcode: yYv9GA

Attendees:

Virtual: Maher Lugo, Kylie Comet, Marci Bruno, Isabel Szendrey, Katie Helm, Ryan Dalton, Steve Cavanaugh, Scott Winter, James DeHerrera, Scott Thomas, Devon Buckels, Hope Bartlett, Kelly Gordon, Peter Mayer

In Person: Drew Blackwell, Kevin Reidy, Kylie Couch, Nina Khanzadeh

Meeting Notes

1. Welcome (Drew Blackwell)

- Any new members?
 - Devon Buckels - Executive Director of AWWA Rocky Mountain Section: Would like a better understanding of what other Sections do to integrate water loss best practices into utilities.
 - Hope Bartlett – Co-Chair Rocky Mountain Section Water Conservation Committee – eager to learn more about water loss in Colorado.
 - Scott Thomas - Colorado Rural Water – Looking forward to hearing ideas and resources to help bring water loss control to Colorado.
- Bring a recent water loss stories to share! Anything goes here and you are welcome to share screen if you would like (open floor)
 - **Katie Helm** - City of Fountain - has a population of 28000, with 8700 active taps. Has been experiencing odd water losses and discrepancy in billing water distributed vs water billed. City of Fountain began an internal audit to determine issues.
 - **Scott Thomas** – Scott spoke w/Town of Branson last week. They used to get 38 gal/min from their local springs but now they are getting 4 gal/min. They are using 100-year galvanized pipe being and there are challenges of new production sources and the repair of pipe. This is a common scenario in Colorado to have water loss being caused by old pipes. Main objective is to find funding to help these utilities.
 - **James DeHerrera** - City of Aurora; Aurora Water - population of about 400,000. Recently, an out of state fire suppression system designer wanted a live fire flow test performed, however water loss from fire flow test is unrecoverable loss and not always practical. Determined that providing him with hydraulic meter test results would get them the results needed without wasting water.
 - **Nina** – They have 3 potable water treatment plants and a reclamation facility to water the golf course and parks. As they were going through their assessment, there

was a discrepancy with metered water use. It is higher at the reclamation facility than it should be. They think it may be a mag meter accuracy problem but are unsure.

2. CWCB Updates (Kevin Reidy)

- Annual water loss audit reporting was instituted last November through House Bill 1051. The submittal occurs yearly June 30, with the first year offering a grace period of a year. Several have been submitted already.
- Have been working w/Denver Water, who have been having issues with distributors and managing several different customer categories. There is no maintenance on the distribution systems. Hoping to get Denver Water involved in the next training sessions.
- Upcoming Workshops are being planned for September, October, and November.
- CWLI Phase 3 is coming up and has funding.
- The latest grant is focused on SRF technical assistance, specifically green infrastructure, and water efficiency.

3. Task 1 Update: Research on AWWA Section Water Loss Control Committees (Drew Blackwell)

- Review of new Committee page on CWLI website
- Review of Committee Research Report slides (Slides will be posted to website after meeting). Committee members are encouraged to review the report and provide any feedback and/or follow-up questions to any of the Section Water Loss Committees that were interviewed.

4. Elevating water loss across the Colorado water industry and professional orgs (Discussion)

- Call to action to share more water loss stories, case studies, and projects through professional organizations throughout Colorado.

Minutes prepared by:
Marci Bruno, Cavanaugh

Preliminary:
August 28, 2024

Colorado Water Loss Control & Management Committee

RESEARCH OTHER STATES WATER LOSS CONTROL
COMMITTEE FORMATION AND GOVERNING
PROCESS



COLORADO

Colorado Water
Conservation Board

Department of Natural Resources

PREPARED FOR
Colorado Water
Conservation Board –
Colorado Water Loss Control
& Management Committee



CAVANAUGH

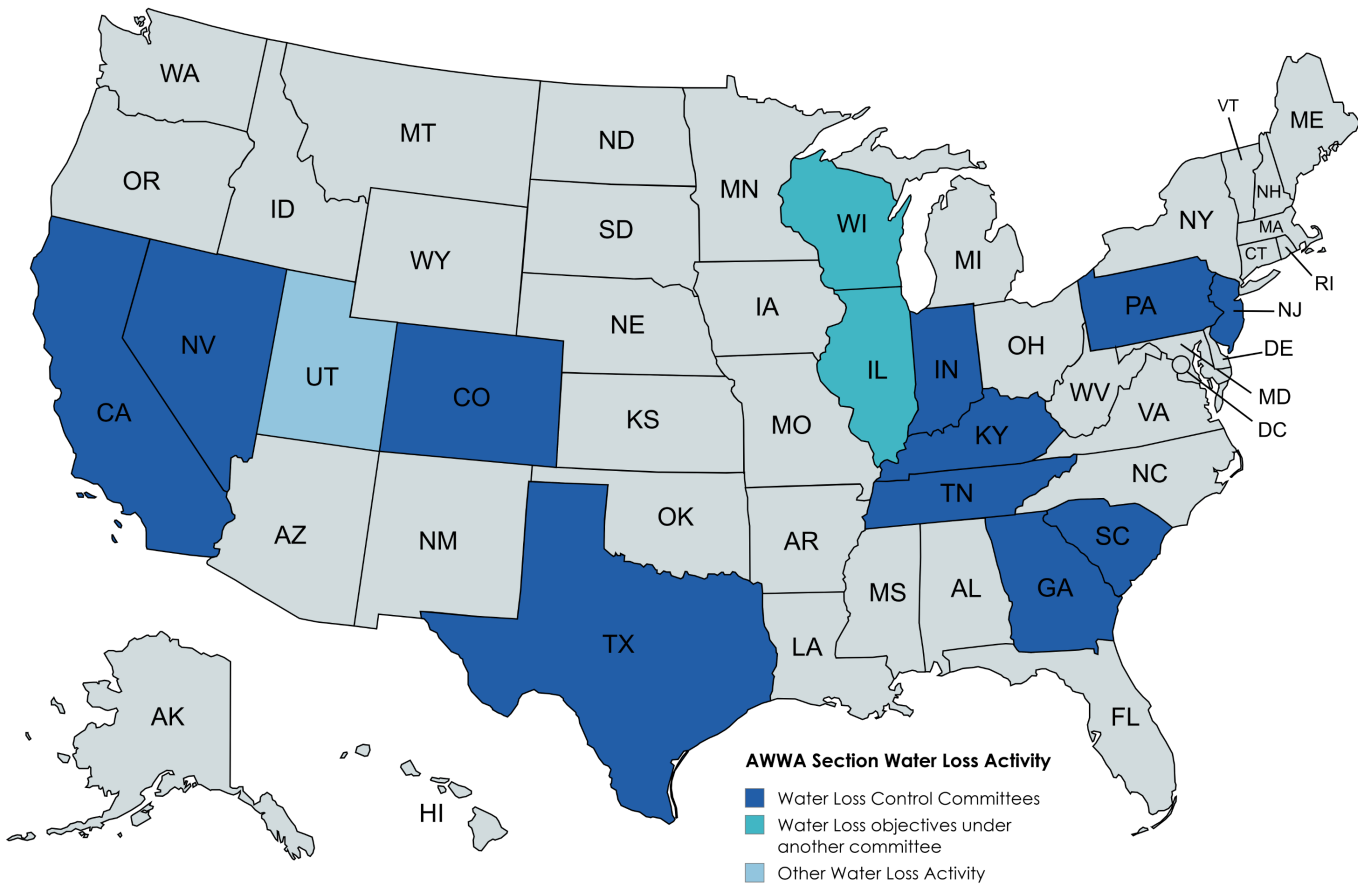
Stewardship Through Innovation

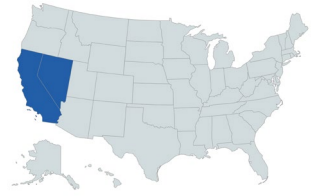
PREPARED BY
Cavanaugh

Questions determined to ask committees:

- Benchmarking, how has this improved accounting in the state, what are top 5 benchmarks? What was the greatest hurdle?
- How to sustain momentum?
- What are other committees' goals and objectives?
- Open to be a guest speaker at a Colorado committee meeting?

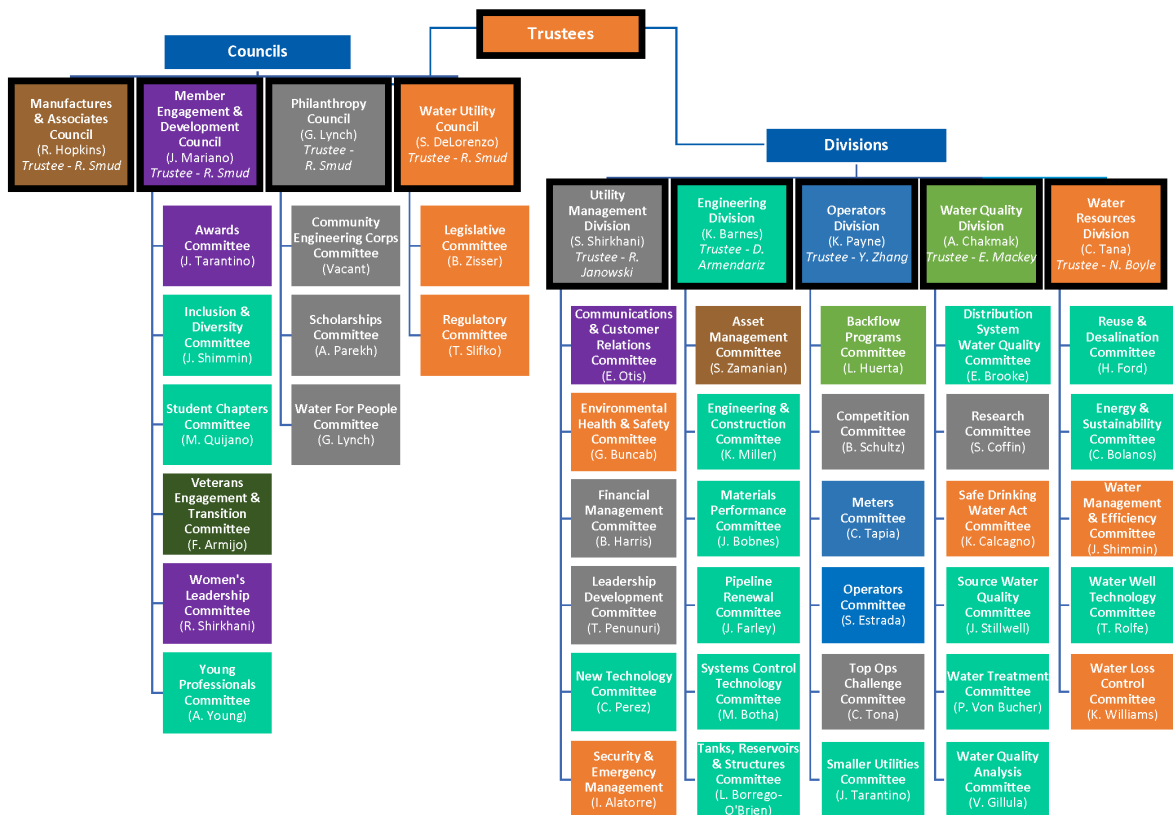
Water Loss Activity in AWWA Sections



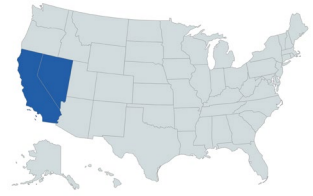


CA-NV AWWA Water Loss Control Committee

Committee Governance



- Officers: Chair, Vice Chair, Secretary
- Current Chair: Kris Williams, E Source
- 152 members, 66 work at a water utility
- File sharing: minutes, agendas, presentations



Committee Budget

- Budget request prepared and submitted annually by July 31
- Typically includes in-person meetings, trainings

Committee Goals & Objectives

- Tech resource
- Media resource
- Advocacy (funding, legislation)
- Trainings, workshops, webinars
- Helping utilities that have difficulty in reporting requirements

Committee Benchmarking

- Attendees per training - engagement rating
- Attendee meeting attendance

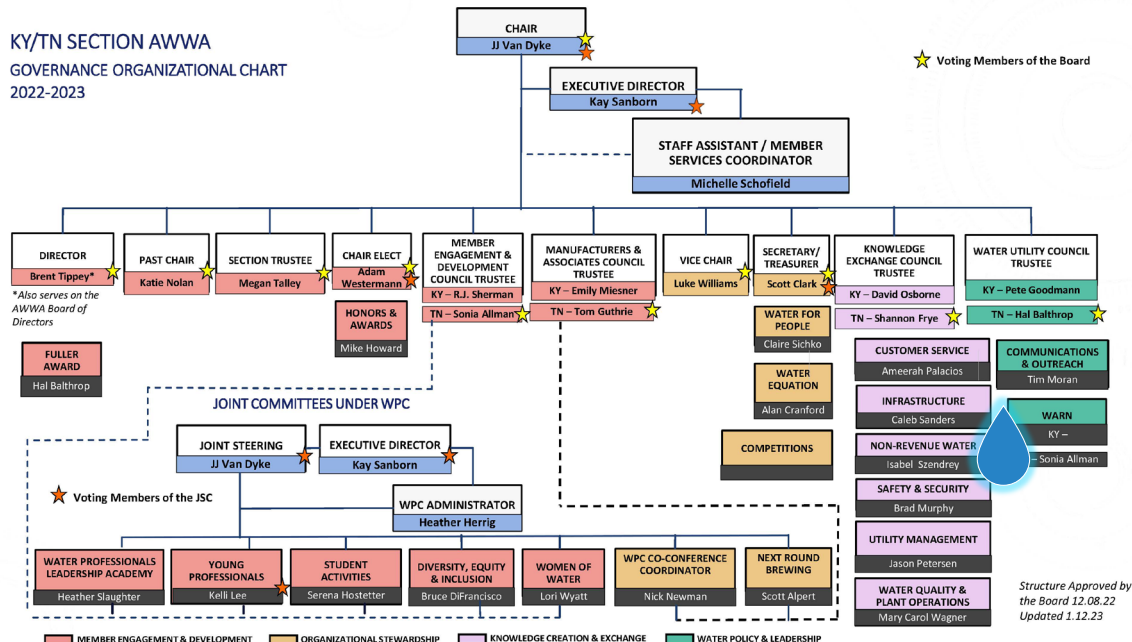
Ways/Ideas to sustain Momentum

- Regulations are a big driver
- Is there a validator subcommittee?
- Consultant speed dating
- More technical trainings
- Trainings that offer CEUs and are approved by the section
- Maybe longer more comprehensive trainings
- Site visits – organized a tour in the past of customer meter testing
- Field trip! Member hosted
- Innovation focused session



KY-TN AWWA Non-Revenue Water Committee

Committee Governance



- Established 2015/2016
- Officers: Chair, Vice Chair (understanding that the Vice Chair will become Chair).
- Current Chair: Isabel Szendry, E Source
- Committee under Knowledge Exchange Council
- 16 members, slightly heavier on TN and Consultants
- File sharing: minutes, agendas, presentations
- Meet every other month
- Committee webpage (forum): 'Ask A Non-Revenue Water Expert'
<https://www.kytnawwa.org/group/NRWexperts>



Committee Budget

- Budget requested annually – 2023 budget: \$800
- Proposed in-person meetings, trainings

Committee Goals & Objectives

- Each year the committee is tasked with selecting at least two of four objectives outlined by the governing Knowledge Exchange Council (KEC)
- KEC Strategic Objectives
 1. Partner to advance and expand the Section's resources for the water community.
 2. Provide educational programs and knowledge resources through increased collaboration between the Section and the Association.
 3. Increase the use of technology through which the Section and its members create and share knowledge resources.
 4. Enhance opportunities for water professionals to connect and exchange knowledge

Committee Benchmarking

- KEC Strategic Objective #2: Provide educational programs and knowledge resources through increased collaboration between the Section and the Association
 - NRW Committee Identified measurable benchmarks:
 - Revise NRW Committee website
 - Host 2 webinars and 1 in-person workshop
- KEC Strategic Objective #4: Enhance opportunities for water professionals to connect and exchange knowledge and experiences



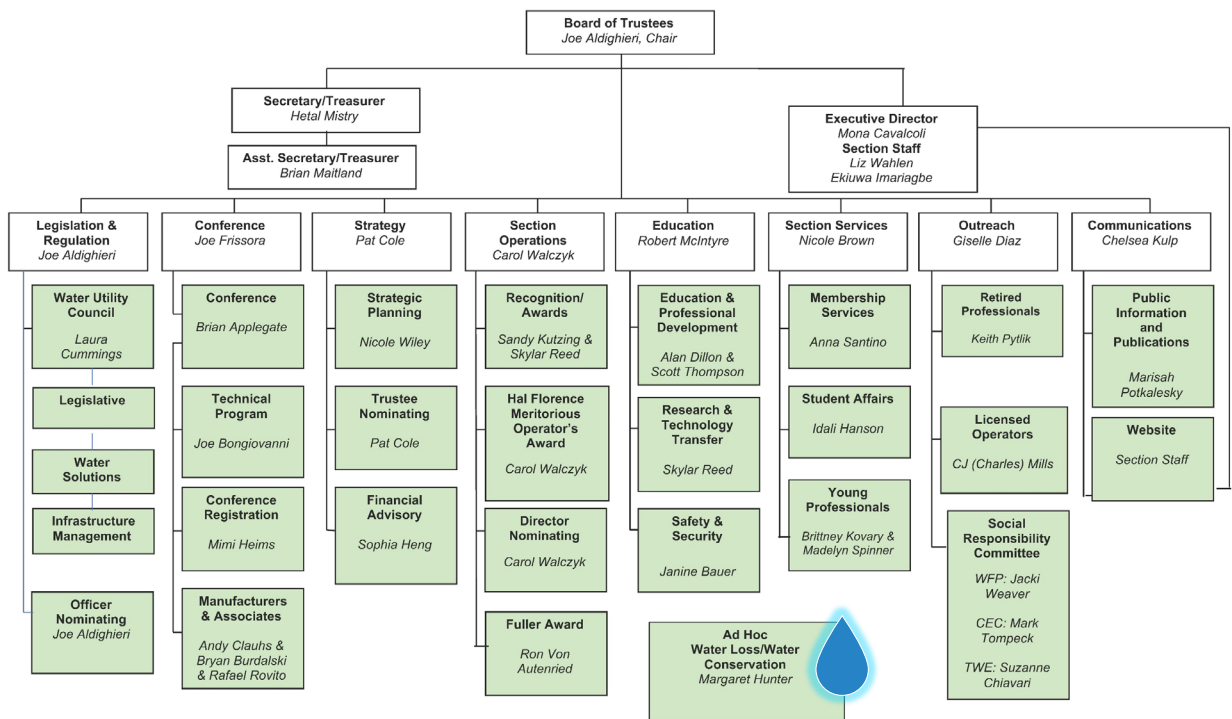
Ways to sustain momentum

- Committee week: list of activities - member spotlight in newsletter, encouraged to have a webinar, article in section magazine
- 2 webinars. 1 in person workshop every 2 years. Lunches are typically sponsored
- Topics in meetings:
 - Regulatory agencies
 - Utility presentations

NJ AWWA Water Loss Control Committee

Committee Governance

Organizational Chart 2023 - 2024



- Established 2024 – ad hoc committee
- Officers: Chair
- Current Chair: Margaret Hunter, NJ American Water
- 13 members
- File sharing: minutes, agendas, presentations
- Meet every other month

Committee Budget

- Budget requested annually – 2023 budget: approx. net \$550
- Typically includes in-person meetings, trainings



AWWA NJ Committee Goals & Budget Request

DUE MAY 19, 2023

Fiscal Year: July 1, 2023 to June 30, 2024

Committee Name	Water Efficiency (AdHoc)
Committee Chair Name	Margaret Hunter
Co-Chair Name (if applicable)	
Vice Chair Name (if applicable)	
Trustee Liaison:	Mona Cavalcoli
Form Completed by	Margaret Hunter

COMMITTEE GOALS, BASED ON STRATEGIC PLAN

1	To increase water utility awareness of the nature and extent of water loss in the industry and improve the level of water accountability employed by water suppliers; by furthering the science and application of water accounting, leakage and pressure management technology and universal metering systems.
2	To facilitate communication among water conservation and water loss management professionals, strengthen public education and consumer actions in the water conservation/efficiency arena, and coordinate sharing of legislative development and advocacy information.
3	enter goal here
4	enter goal here
5	enter goal here

INSTRUCTIONS: At left, define your committee's goals, which should be based on the Section Strategic Plan. Below, specify your committee's activities, events, or tasks, and provide any anticipated income or expense related to each. Include an anticipated completion date or timeframe, if applicable. If you need assistance, please contact your Trustee Liaison or reach out to Section Manager or Administrator. In spaces below, please add any additional comments or notations about unusual expenses, and provide a list of committee meetings or other dates we should be aware of for the Section Calendar. On the NEXT TAB, please provide your current Committee Roster

PLANNED ACTIVITIES/TASKS FOR BUDGET YEAR		anticipated date	enter as (+) number	enter as (-) number
Activity	Estimated Completion	Anticipated Income	Anticipated Expense	
SAMPLE ACTIVITY: host 3 committee meetings in person (\$50 each meeting for coffee & bagels)	12/31/2023	\$0.00	(\$150.00)	
Virtual meetings quarterly beginning in January. Include educational sessions with various Association level experts for knowledge transfer	TBD	\$0.00	\$0.00	
1 Educational Training seminar - Water Efficiency Operator training. Webinar estimate people (~30 people, food \$10/person), room rental fee (\$350), etc. (assume cost for charge to operators training, could charge \$10 per operator and \$50 per engineer)	April 1, 2025	\$700.00	\$750.00	
2 Meeting at the annual conference, doesn't cost anything - need to assign a room. Have a block of rooms, breakfast may cost a little more, could add budget for lunch for committee. Assume ~13 core members, plus ~7 extra for attracting new members	March 1, 2025		\$200.00	
3 Technical article to submit to pipeline and update the website, change from drought web page could be water efficiency page. Can republish articles - no sales pitches, etc. https://www.njawwa.org/page/Newsletters	TBD	\$0.00	\$0.00	
4 Educational and Promotional Material - Giveaways: coloring books, stickers, magnets pens, water bottles etc. (\$500) -Branded Apparel for Committee Members (\$300)	TBD		\$300.00	
5 add more if needed				
6 add more if needed				
7 add more if needed				
8 add more if needed				
9 add more if needed				
10				
SUBTOTALS			\$700.00	\$1,250.00

Committee Goals & Objectives

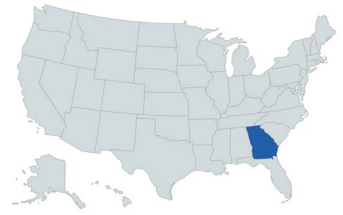
- To increase water utility awareness of the nature and extent of water loss in the industry and improve the level of water accountability employed by water suppliers; by furthering the science and application of water accounting, leakage and pressure management technology and universal metering systems.
- To facilitate communication among water conservation and water loss management professionals, strengthen public education and consumer actions in the water conservation/efficiency arena, and coordinate sharing of legislative development and advocacy information.

Committee Benchmarking

- Not quite there yet statewide, still gaining traction and committee representation.
- Committee formed ahead of more significant statewide regulations for water audits (currently only the Delaware River Basin Commission (DRBC) in part of the state requires water audits). Other existing and proposed regulations are referenced below which will likely sustain/support the need for the committee along with the need for water efficiency education going forward.

Ways to sustain momentum

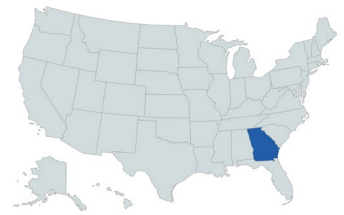
- Existing and proposed legislation and [NJ Water Supply Plan](#) (NJWSP) pending regulation is driving the need to collaboration and support as technical guidance in the future
- Existing regulations:
 - <https://www.nj.gov/drbc/programs/supply/water-audit-program.html>
 - 7:19-6.4 Unaccounted-for-water
 - https://dep.nj.gov/wp-content/uploads/rules/rules/njac7_19.pdf
 - Proposed Regulations (along with NJWSP imbedded regulations):
[SB986](#) - carried over from 2023



GA GAWP/AWWA Water Loss Control Committee

Committee Governance

- GAWWA enjoys a special relationship with the Georgia Association of Water Professionals. GAWWA is affiliated with GAWP through an executed Memorandum of Understanding, which outlines a joint commitment to serving the water industry in Georgia. The partnership is outlined in an executed Service Agreement, which documents the financial support that GAWWA provides to GAWP and the support services provided by GAWP to GAWWA. More on the committee at <https://www.gawp.org/page/Volunteer>
- Officers: Chair, Vice Chair
- Current Chair (at time of interview): Jennifer Arp, Cherokee County Water & Sewerage Authority
- Current Chair: Derek Bufardi
- File sharing: minutes, agendas, presentations
- Meet every other month



Committee Budget

- Not discussed

Committee Goals & Objectives

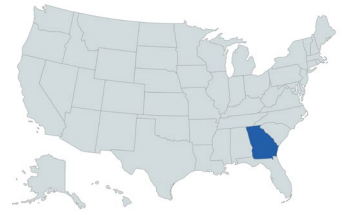
- Water Loss Control is the identification and reduction of water losses, both real and apparent, through the use of the IWA/AWWA Methodology. This GAWWA committee will meet bi-monthly, and perform a selection of the following activities based on demand and need:
 - Support Georgia EPD updates to the Georgia Water Loss Control Manual.
 - Organize and plan workshops focusing on the water audit and water loss control (standalone workshops, and in conjunction with GAWP conferences.)
 - Organize sessions at all relevant GAWP conferences
 - Periodically provide articles for GAWWA and GAWP publications (newsletter, Operator, etc.)
 - Develop and update messaging and talking points for utilities and Georgia EPD to explain best practices of water loss control to Elected Officials and the public.
 - Provide a connection to the national AWWA WLCC and their experts and the latest information and developments. · Provide on-call support through committee member experts to water utilities on water loss control best practices (water audit support, real loss control, apparent loss control, etc.)



Georgia Section
American Water Works Association



Georgia
Association of
Water
Professionals



Committee Benchmarking

- Water audit manual
- QWLA training, registry maintenance, CEC management
- Resource and sounding board for EPD and North GA District regulations
- resource to all utilities regardless of awwa gawp membership
- Working on 5 year audit report. Shortfalls, needs assessment

Ways to sustain momentum

- GAWP has instituted a utility first approach that limits consultant involvement. Consultants must present with a utility. Utilities are going to pay more attention to utilities
- Rural Water is important for small utilities.
- State representation is crucial. Both need to be consistent.

PA AWWA Water Loss Control Committee

Committee Governance

- Reports to Education/Technical Council
<https://paawwa.org/about/committees-and-councils/>
- Established 2019
- Officers: Chair
- Current Chair: Julian Mazero
- 25 members
- File sharing: minutes, agendas, presentations
- Meet every other month

Committee Budget

- Not discussed

Committee Goals & Objectives

- Improved Concepts for 21st Century Water Management
- Improved Terminology: Non-revenue Water
- Enhanced Performance Indicators to Measure Progress

Committee Benchmarking

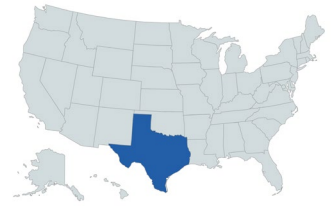
- Responses to proposed PA regs

TX AWWA Water Loss Control Committee

Committee Governance

The Water Conservation and Reuse Division has three Committees are Conservation, Reuse and Alternative Water Supplies. Each committee has members with specific interests related to a committee, and/or broad interests in Conservation. **Effective August 2022, the Division has a new subcommittee, the Water Loss Control Committee.**

- Established 2022 – organized after the 2021 North American Water Loss Conference in Austin, TX
- Officers: Chair, Vice Chair
- Current Chair: Daniel Rice, Texas Water Development Board
- File sharing: minutes, agendas, presentations
- Meet every other month



Committee Budget

- No budget

Committee Goals & Objectives

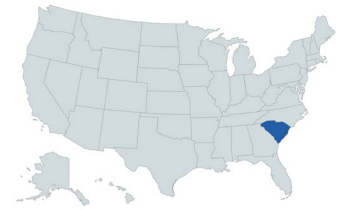
- Sharing information
- Be a resource
- Beta testers for online reporting
- TWDB does the training and webinars

Committee Benchmarking

- Not defined.
- Still too early

Ways to sustain momentum

- Need more utilities outside of the big ones - Austin-centric



SC AWWA/WEA Water Loss Control Committee

Committee Governance

SCAWWA has a special relationship with the Water Environment Association of South Carolina. Some committees are held jointly, but the Water Loss Control Committee is under SCAWWA.

- Established 2017/2018
- Officers: Chair, Vice Chair
- Current Chair: Kevin Sterling, Charleston Water
- 10 active members, 25 on roster
- File sharing: minutes, agendas, presentations
- Meet every other month

Committee Budget

- Budgeting for annual workshop
- Sponsorship for lunch
- Other committees: add social media to budget

Committee Goals & Objectives

- Increase awareness of need for better understanding of water losses as M36 as our guide

Recommendations

- Interview RMS AWWA to better understand answers to some of these questions
- Set preliminary benchmarks
 - Committee attendance
 - Events per year
 - Webinar
 - In-Person Workshops