



MEETING NOTES

WaterReuse Colorado / RMWEA/RMSAWWA Joint Water Reuse Committee

November 2, 2017

City of Aurora Municipal Center – Aspen Room
15151 E. Alameda Parkway, Aurora, CO

10 am – 1 pm

Strategic Planning – open to all

See separate "2018 WRCO Strategic Plan" document for a summary of results of this meeting

1 – 3 pm

Main WRCO membership meeting – open to all

Present:

1. Julie Tinetti – phone
2. Liz Lemonds – phone
3. John Rehring – phone
4. Bob Tarika (?) – USBR – phone
5. Damian Higham
6. Tara Kelley
7. Bob Dye
8. Lisa Hollander
9. Brenley McKenna
10. Donene Dillow
11. Jodi Villa
12. Laura Belanger
13. Brandi Honeycutt
14. Frank Johns
15. Jason Assouline
16. Eric Dole
17. Will Raatz
18. Dave Takeda
19. Bobby Anastasov
20. Kirk Watson
21. Alex Gerling
22. Wade Jackson – Hach
23. Kyle Thompson – CU Boulder - grey
24. Talia Assi – CU Boulder
25. Bret Eastberg – Westminster
26. Matt Benak
27. Melinda Katson (?) – WRA

- **Introductions & Welcome (Brenley)** **1:00 – 1:30**
 - a. Self-introductions
 - b. New WRCO Members – none
 - c. Overview of WRCO (Brenley)
 - i. Mission & overarching goals
 - ii. Read-out from strategic planning meeting

- **Leadership** **1:30 – 1:40**
 - a. Volunteers needed for an ad hoc nominating committee for these roles:
 - i. Incoming President – Allegra da Silva (1 year term)
 - ii. Incoming Secretary (automatically succeeds to President role after 1 year)
 - iii. Incoming Treasurer (2 year term)
 - iv. National Representative to WateReuse Association (3 year term; can serve 2 consecutive terms; 5 meetings a year; travel expenses are covered by WRCO up to \$3k annually; most meetings are Saturdays/Sundays) – Donene Dillow offered to fill the role until January
 - v. Joint Reuse Committee Chair – Damian Higham offered to continue to fill the role
 - vi. Trustees (term is duration of membership; utilities are automatically Trustees) and At-Large Trustees (3 year term; there must be 3 At-Large Trustees, no defined maximum)
 - vii. See bylaws for more info: <https://watereuse.org/wp-content/uploads/2015/09/Strategic-Direction-Colorado-Bylaws-2014.01.17.pdf>

Volunteer committee: Brenley, Tara, John – deadline to get nominations in by December 18th

- **WRCO DPR Project Phase I – John Rehring**

- We can do a brown bag on the WRCO DPR project; it might be easiest to do that in conjunction with the January WRCO meeting when everyone will be together again (vs. trying to pick a separate date when everyone could be available)
 - DPR project update – regulatory development, outreach, and technical tools
 - o Regulatory – writing up the implementation plan for regulatory development
 - Health-based standards
 - Administrative elements (internal CDPHE element) – working with Division staff about how to develop/cover those
 - Both have regulation, policy, and guidance elements
 - CWCB grant – to support development of health-based standards for DPR
 - We’ve raised \$35k; asking for 65k
 - o Outreach – subgroup; identified key audiences; drafting a DPR fact sheet to host discussions 1 on 1 with key stakeholders; then plan next steps; DPR demonstration pilot
 - o Technical – integrated toolbox for potable reuse – modifying the toolbox to include some processes that are not in it; screens treatment trains for pathogen removal and other constituents like NDMA; will do some case studies with utilities identified in the last workshop
 - Carollo will be doing a DPR demonstration in conjunction with the WRCO DPR project’s outreach task in 1Q2018, as noted at the last meeting.
 - o Coalition of in-kind contributions – equipment manufacturers, engineering support, and host facility identified (Denver Water)
 - o It’ll be a relatively short term demonstration, so I think it still makes sense to consider a possible longer-term demonstration (perhaps mobile / similar in concept to the AZ model) where we can get more direct public access and more time to work with treatment and monitoring technologies. The near-term demonstration could be a vehicle to help garner legislative (et al) funding support for the longer-term demonstration.
 - o Operational for a few months
 - o Might be able to generate support for funding a mobile treatment unit
 - Laura and John are now working on supporting the CWCB grant app through the CWCB/BRT process. If successful, that addresses part of the need (developing health based standards), but we are still working with WQCD to identify the anticipated WQCD staff workload for reg development and administration, and how to cover it.
- **CDPHE-WQCD Items** **1:40 – 1:50**
- a. Annual Report format change (Liz)
 - Annual report is going to change to be more brief; involve DMRs
 - a. Compliance Brown Bag on November 27th at the CDPHE (Liz)
 - Monday November 27th at 12:30pm – Room C1A
 - Develop FAQs

- Under what circumstances does the Division need to be notified of a “modification” or “transfer”
 - Inspections – there have been occasions where Liz has been asked about resources (training materials, other programs); have been referring folks to WRCO
 - Liz needs to know who to contact
- b. Reg 84 New Uses (Damian)
- DW and other stakeholders in the reuse community had interest in gaining approval for new uses for some time. Division had resource constraints that we were able to address in getting funds allocated from CWCB and Water and Power Authority for 1 FTE (Brandi Honeycutt). Originally proposed toilet flushing, livestock washdown, edible crops for community gardens, commercial edible crops (including marijuana), and impoundments. Have pared the list down to toilet flushing and marijuana.
 - Other entities are pondering taking on the edible crops in community gardens (Denver Urban Gardens and Dave Takeda and his client).
 - Informal stakeholder process over the past year has preceded the formal rulemaking process leading up to the formal hearing August 6, 2018.
- **Water Environment & Reuse Foundation and Water Research Foundation 1:50 – 1:55**
 - Update (Brenley)
 - As of January 1, 2018, becoming the Water Research Foundation (WRF); will have 1200 members, 2300 research, \$700 million value of research portfolio (past). Subscribers wanted this merger to happen.
 - 2018 – the historical WE&RF and WRF research portfolios will be maintained and there will be a proposal for the Board of Directors to vote on for new programs in 2019.
 - Brenley to be Deputy Director of Subscriber Services
 - LIFT is part of this organization
- **American Water Works Association (AWWA) – Alex Gerling** **1:55 – 2:00**
 - a. Potable Reuse Symposium (Austin, TX – Jan 22-23, 2018)
 - i. Pierre – Windhoek – keynote speaker – collocated with International Symposium on Biological Treatment
 - b. International Standards Organization (ISO) Water Reuse Committee Overview and Highlights (Alex)

- i. AWWA administers the US Technical Advisory Group – coordinates the US position on these international standards
- c. AWWA Water Reuse Committee Updates (Alex)
- i. Submitted a webinar for 2018
 - ii. Meetings
 1. ACE 2018
 2. Sustainable Water Management conference – Seattle (March 25-28, 2018)
 - iii. Time to review abstracts for 2018 ACE – soliciting **volunteers**
 - iv. Seeking **volunteers** to review AWWA’s policy statement on water reuse

Comment from Laura Belanger - National conference on advancing potable reuse – several utilities have implemented potable reuse; it came up that when you’re talking about education and outreach – the How Water Works series of information from AWWA – great resources.

- **Water Reuse Legislation** **2:00 – 2:30**
 - Chris Piper (Denver Water Government Relations Manager) and Brandi Honeycutt (WQCD) – update on Colorado General Assembly Interim Committee reuse bills and actions

DW has been talking with legislature about how to implement the Colorado Water Plan, which outlines goals including reuse.

Legislature meets from January through May in the regular session. Rest of the year is off session in which interim committees meet. The Water Resources Review Committee meets 5-6 times in the summer and fall to invite people to give updates and talk about water topics and to decide whether the legislature needs to change policy or pass laws regarding those topics.

In September the WRRC had a 2-day hearing in which they invited several entities to come talk about reclaimed water, reuse water, and other topics. CDPHE, Denver Water, and others were present. There were bills for toilet flushing, edible crop cultivation, marijuana cultivation, and hemp cultivation. Denver Water was asked to participate in the drafting of those bills. DW agreed and helped their legislative drafting team work on language that would meet the requests of the legislature.

On October 3rd, the committee reviewed 10 draft bills and combined toilet flushing and irrigation of edible crops into one bill (4b) and left marijuana and hemp in different bills.

On October 31st, the committee met to take final action on those bills. Bill 4b was defeated on a 6 to 4 vote. It takes 7 votes to recommend legislation. There were concerns around irrigation of edible crops – questions about salinity. There didn’t seem to be concerned about toilet flushing.

2 remaining bills (marijuana and hemp) will be introduced into the legislature as actual bills in January and go through the regular process, including at least 2 opportunities for the public to testify; opportunity to amend the legislation.

There's an opportunity right now to propose bills through individual legislators, who are allowed to introduce 5 bills, but that # can be increased with the agreement of the chamber leadership (speaker and minority leader). That is typically granted.

Brandi Honeycutt

Two main issues the Division had with the bills. Doesn't include an iterative stakeholder process. Also doesn't allow evolution of reuse requirements as scientific information emerges to protect public health. The Division has some specific questions about the 4 uses.

Attach issue statement along with the draft bills.

- Discussion:
 - WRCO interest in involvement in legislation and how to be a collective voice (Legislative Committee?)

ACTION: Propose legislative/regulatory/outreach committee – Laura, Dave, Frank, Shannon

• **Other updates** **2:30 – 2:45**

a. Graywater Non-Traditional Uses (Tara)

At the end of 2015, the Water Quality Control Commission passed Regulation 86 that governs the use of graywater for toilet flushing and subsurface landscape irrigation. The program is administered at the local level. There must be the development of a local ordinance to allow it to be used in a region. To this point, Denver is the only entity that has developed an ordinance.

Kyle – went to a stakeholder meeting a year ago to allow flexibility for research entities.

b. WRA Industrial Reuse Committee (Frank)

Interest in coordinating with the WEF industrial waste committee.

c. Statewide Water Supply Initiative (Laura)

The state is rotating – we do SWSI and the Basin Implementation Plans – they kick off after each other. The Metro Basin and South Platte Basin have a plan that touches reuse. The SWSI now incorporates BIPs to set up for their implementation. Laura has been reaching out to CWCB to make sure reuse is included. There's interest in developing models for the basins, including water reuse (existing and planned).

d. Water Environment Federation (WEF) / Rocky Mountain Water Environment Association (RMWEA) (Damian)

No update.

e. WEF Water Reuse Committee Update (Frank)

The annual committee meeting was held at WEFTEC October 1. The Water Reuse Roadmap is officially rolled out. They've updated the WEF Water Reuse Policy Statement. Abstracts are due December 3 for WEFTEC. Workshops due next Tuesday – 3 reuse workshops are being submitted. Two reuse publications submitted – industrial reuse (Al Goodman), potable reuse (Gary Hunter is chair). March 8th webcast planned. Specialty conference on reuse and disinfection planned for July in Oregon.

f. WateReuse Association (WRA) (national)

November 8th – funding for potable reuse webcast

Next board meeting – Saturday December 16th – Vegas – Donene will attend as our interim state rep

• **WRCO Business Items** **2:45 – 2:55**

a. WRCO Treasurer's Report for this Month (Jason)

b. September 2017 minutes and financials

Motion to approve: Donene Dillow

Second: Damian Higham

Unanimously approved

c. Budgeting discussion:

- Discussed ideas of contracting w/ someone to help with WRCO items, such as outreach, communications, public engagement, other.
- Public engagement and print materials
- New uses – technical support
- Plus up DPR regulatory project
- Scholarship revamp
- WE&RF grant match
- Workshop with WRF
- Conclusions: revisit in January

• **2018 Membership Meetings** **2:55 – 3:00**

Locations to consider –

1. Aurora municipal center (historic meeting location)
2. Plum Creek WRA (historic meeting location)
3. Water Research Foundation in Lakewood (good technology)
4. Red Rocks Community College
5. Binney WTP (contact Kirk Watson)
6. CDPHE

7. Colorado School of Mines
8. Denver Water Recycling Plant – note that in April, the DPR demo will be onsite (contact Russ Plakke)
9. WQCC meeting on western slope (find out when this is?)

Schedule –
 First Thursday of odd months of the calendar

- Format –
- Membership items
 - Technical presentation
 - Tour (if possible)

- Potential meeting technical presentations –
- Overview of WE&RF research themes going forward defined by Issue Area Team February 21-22, 2018 (Allegra)
 - WRCO award recipients – overview of their research and aspirations
 - USACE/USBR funding for water reuse
 - College/University topics (CU Boulder, Colorado School of Mines, Metro State One World One Water Center & collaboration with Denver Botanic Gardens (Jennifer Riley-Chetwynd and Thomas Cech), CSU)
 - Flint crisis and what it means for recycled water industry
 - Stephen Fisher – Colorado Section ASCE Sustainability Committee – make a connection with the group to see what overlap and interest there might be in members
 - Interesting drivers/barriers for reuse in Colorado (member perspectives)
 - January meeting: identify volunteers to organize invited speakers for each membership meeting
 - Please contact Allegra da Silva (allegra.dasilva@stantec.com) with ideas for future meeting content.

Date	Proposed Location	Topic(s) and speaker(s)
January 4, 2018	Plum Creek (confirmed) 1-3pm	Official Annual Meeting (vote on leadership) – MUST SEND OUT NOTICE 30 DAYS BEFORE Legislative process (Laura Belanger to identify speaker) Get an update on industrial reuse following WaterReuse board meeting (Donene Dillow)
January 4, 2018	TBD 11:30-1pm	Brown bag on DPR project (John Rehring)
February 2018	TBD	CWCB Water Plan Grant funding proposal – hold a scoping meeting
March 1, 2018	Denver Water Recycling Plant (?)1-3pm	Membership meeting Scholarships and Awards (Tara/Abbey)

		WE&RF IAT research themes (Allegra) CWCB Grant Workshop planning Tour
March/April 2018	WRF HQ (?)	Event (workshop) in March/April timeline that focuses on technical and policy issues in water reuse and involves Division and Commission members
May 3, 2018	? 1-3pm	Membership meeting Workshop readout
June 11, 2018	Salida	Consider outreach event on the tails of the WQCC meeting on 6/11/18 in Salida or 11/13/18 in Frisco? Confirm schedule with WQCC.
July 12, 2018	Binney WTP (?)1-3pm	Membership meeting Tour
August 22 – 24, 2018	Colorado Water Congress – Hotel Talisa (Vail, CO)	Consider organizing a session
September 6, 2018	Red Rocks Community College (?)1-3pm	Membership meeting Awards ceremony Tour
November 1, 2018	Aurora municipal center (?) 10 – 3pm	Strategic planning meeting Membership meeting

Upcoming Conferences in the Industry

- Needs to be updated – **volunteer** = Alex Gerling

<u>Title</u>	<u>Organization</u>	<u>Location</u>	<u>Start date</u>	<u>Website</u>
2017 Annual AWRA Conference	AWRA	Portland, OR	11/5/2017	http://www.awra.org/meetings/Portland2017/index.html
2017 WWEMA Annual Meeting	WWEMA	Scottsdale, AZ	11/8/2017	?
2017 India ACE Conference	India AWWA	Mumbai	11/2017	?
2017 Colorado River Basin conference	?	Las Vegas, NV	12/16/2017	?
2018 Emerging Contaminants Summit	?	Westminster, CO	3/6/2018	http://www.contaminantssummit.com/
2018 Membrane Technology Conference and Exposition	AWWA/AMTA	Palm Beach County, FL	3/12/2018	https://www.awwa.org/conferences-education/conferences/membrane-technology.aspx

2018 ACE Annual Meeting	AWWA	Las Vegas, NV	6/11-14//2018	https://www.awwa.org/conferences-education/conferences/annual-conference.aspx
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