



September 2017 MEETING NOTES

WateReuse Colorado / RMWEA/RMSAWWA Joint Water Reuse Committee/

September 7, 2017

Plum Creek Water Reclamation Authority 4255 N US Highway 85, Castle Rock, CO 80108

• Main WRCO Meeting: Introductions & Welcome (Brenley)

1:00 - 1:15

- a. Overview of mission of WRCO (Brenley)
- b. Self-introductions
- Abbey Antolovich Denver Water (phone)
- 2. Allegra da Silva Stantec
- 3. Brandi Honeycutt CDPHE WQCD
- 4. Caroline Verlander Tetra Tech
- 5. Damian Higham Denver Water
- 6. David Takeda MSK Consulting
- 7. Eric Dole Hazen
- 8. Fidan Karamova WE&RF (phone)
- 9. Frank Johns Tetra Tech
- 10. Jason Assouline CH2M
- 11. John Rehring Carollo Engineers
- 12. Lane Wyatt Northwest Colorado Council of Governments (phone)
- 13. Laura Belanger Water Resources Advocates
- 14. Liz Lemonds CDPHE WQCD (phone)
- 15. Matt Benak Castle Rock Water
- 16. Mike Waresak Forsgren Associates
- 17. Phil Overeynder City of Aspen (phone)

- 18. Richard Leger Aurora Water
- 19. Tara Kelley Colorado Springs Utilities
- 20. Torie Jarvis Northwest Colorado Council of Governments (phone)
- 21. Will Koger Forsgren Associates
- c. New WRCO Members (Richie): Forsgren Associates
- Direct Potable Reuse (DPR) Project Colorado

1:15 - 1:20

a. WRCO DPR Project Update (John)

Project is 2/3 done, lasts 1 year. The mission is to support the implementation of DPR in Colorado in three areas – regulatory, public outreach, and technical. The genesis was this group recognizing that we want to be prepared for DPR and have the tools in place to be able to do DPR. The project is developing a regulatory framework, identify outreach tools, and further develop the technical planning tools to help utilities that choose to consider DPR as part of the plan. Third workshop for regs/outreach was carried last week. Covered a lot of ground in breakout groups. Ron Falco and Tyson Engels (CDPHE) have been great to work with. Jeff Mosher (Water Environment & Reuse Foundation) has been involved.

- Regulatory Developed a regulatory matrix to identify what goes in a regulation, policy, and guidance, in 11 different category areas. Now that we have the framework, we have a roadblock CDPHE doesn't have the resources to implement the regulation or to implement the framework in the long run. So now the focus has shifted from what do we want to do to how do we want to do it.
- Outreach Have a good outreach communication plan based on various audiences. Katz and Associates have been helping with that part, as well as our local experts – WRA, City of Aurora, Colorado Springs Utilities, CWCB, Denver Water. They're prioritizing actions and developing materials. An example was talking to the state legislature committee yesterday.
- Technical There's a tool that helps utilities evaluate treatment trains. They're updating
 it to match specific Colorado context. Castle Rock and Dave Takeda are helping with
 that adaptation.
- b. WQCD Safe Drinking Water Program staff and service reductions and how relates to DPR Project (John) – attachment

See the attachment sent with meeting announcement (a letter from Ron Falco). The Division is potentially pursuing legislation to pursue funds for the drinking water program in the next legislative session.

On the other side of the WQCD, there was not funding to review potential changes to Regulation 84 (nonpotable reuse), so WRCO identified Colorado Water Conservation Board and Colorado Water and Power Authority funding to support an FTE (Brandi Honeycutt). Phase 1 is

evaluating new uses, and phase 2 will be an approach to overhaul the regulation to make it more flexible.

c. Colorado Water Plan Grant Application Due Oct 1 (John, Laura) – matching funds and WRCO input and approval to submit

The Colorado Water Conservation Board (CWCB) has an application process for grant funding to implement the Colorado Water Plan. A few members (Laura, Brenley, John) put together an intent to apply on behalf of WRCO. Next round of applications is due October 1 and then in February. Kevin Reidy (Conservation and Land Use Planning pot of funds) expects his pot of funding to be gone in this first round of funding, so there is some urgency to apply rather than wait for the next round in 2018 Q1. CWCB requires a 50% cash match for funding.

Laura and John did some brainstorming with Ron and Tyson and Jeff Mosher to prioritize ideas that we would propose, under the DPR project. Under the DPR project regulatory framework there are 11 categories, including development of the health based standards (numeric standards and monitoring requirements). What's the right way to develop health based standards? The national precedent is to convene an independent advisory panel. One group that has been doing that very successfully is the National Water Research Institute (NWRI). CDPHE WQCD would also like to do some case studies as well as some analytical work. That would be about \$80,000 for four quarterly meetings not counting some administration (managing NWRI) and if there are lab costs on top of that. That doesn't include CDPHE funding for the rulemaking hearing, the development of the implementation components within the regulation, or the ongoing administration of the regulation.

Looking for a \$40k cash match. Utilities could use 2017 funds held in reserve, 2018 funds, or 2019 funds, because the project notice to proceed would be quarter 1 or quarter 2 of 2018.

Castle Rock – could probably contribute \$10k

WRCO – could contribute \$10k – motion made to approve up to \$10k funding from WRCO and approved through unanimous vote.

Action item: John/Laura to send a 1-pager to everyone in WRCO email list.

CDPHE-WQCD Items

1:20 - 1:30

a. New Agronomic Rate Guidance – training events (Liz)

Liz has had 2 training sessions – in Erie and in Aurora. There were about 25 attendees. Liz is still willing to hold classes if someone else would like to sponsor a workshop or CDPHE, depending on interest.

b. CDPHE Notices of Authorization (Brandi)

CDPHE is working on the NOAs for recycled water to make things more efficient for both CDPHE and treaters to get them turned around and approved quicker. This will be both for transfer forms and termination forms. The new approach will include both a user application as well as the treater application in one bundle for quicker review. This would also help with

records keeping. Brandi also encourages folks to be sure they're using the most current application on the website.

c. Proposed new uses under Colorado Regulation 84 (nonpotable reuse) (Damian)

Denver Water had originally come forward to propose 5 new uses of reclaimed water – toilet flushing, impoundment filling, livestock washdown, urban garden edible crop irrigation, and commercial edible crop irrigation. Since coming forward with those, the Division had some asks that made Denver Water adjust their approach. Denver Water has dropped livestock washdown. Denver Water decided not to be the proponent for community garden setting of edible crop irrigation. Denver Water has talked with Dave Takeda and Denver Urban Gardens (Shannon Spurlock) about picking that component up to move forward with that. Denver Water will address impoundments outside of the regulatory process. The next stakeholder meeting is 9/26 on marijuana cultivation. At that meeting, we'll also be talking about whether to have a different regulatory approach for centralized and decentralized water reclamation treatment systems. A wrap-up stakeholder meeting is scheduled for Wednesday 11/15 in the afternoon. At that meeting, Denver Water will present a proposal for regulatory changes to cover toilet flushing and marijuana cultivation.

WRCO Business Items

1:30 - 1:40

a. Scholarships and Awards (Tara/Abbey)

Awards and scholarship celebration today at 4pm at Danielle's Scratch Kitchen.

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

We have about \$92k in reserves.

c. Approve July 2017 minutes and financials

Approved.

d. Insurance Renewal (Dave)

Jason to verify that we paid for our insurance. [CONFIRMED 11/1/17.]

e. Other

Legislative meeting – initial question about DPR

WateReuse Association (WRA) (national)

1:40-1:50

a. Medical initiative (Richie)

No update.

b. WRA Director search (Richie)

WateReuse Boarding Meeting is Sunday 8am in Phoenix during the WateReuse Symposium.

New Director is Pat Sincropi (former Executive Director at NACWA)

c. Recycled Water Consumer Network (Richie)

No update.

- d. WateReuse Connect platform (Richie) Facebook-like forum for water reuse professionals; Online network went live to every WateReuse Association member; sign up here (login requires WateReuse Association credentials): http://connect.watereuse.org/home;
- e. Filling WRCO's national rep role (Discussion)
 - i. Richie has been serving but is timing out
 - ii. 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

Action item: Create an ad hoc nominating committee at the November meeting.

f. WRA Industrial Reuse Committee (Abbey)

No movement from the industrial reuse committee.

Water Environment & Reuse Foundation (WE&RF) (formerly WERF and WRRF) 1:50 –
 1:55

No additional update

American Water Works Association (AWWA)

1:55 - 2:00

a. AWWA Water Reuse Committee Updates (Alex)

No update (Alex not present).

b. ISO Water Reuse Committee Overview and Highlights (Alex)

No update (Alex not present).

Water Research Foundation (WRF)

2:00 - 2:05

• Update (Brenley)

No update.

Water Environment Federation (WEF) / Rocky Mountain Water Environment
 Association (RMWEA)
 2:05 – 2:10

a. WEF Water Reuse Committee Update (Frank)

No update.

b. Joint Annual Conference

Some members attending. Others attending the WateReuse Symposium in Phoenix (same dates). No special WRCO events planned at either event.

• Other items 2:10 – 2:20

- a. Legislative outreach Water Resource Review Committee reuse presentations
- b. Graywater Non-Traditional Uses (Tara) no entity has implemented graywater use yet
- c. Statewide Water Supply Initiative (Laura)
- Future Meetings
 - i. Other
 - November 2 (strategic planning session in morning (9am) followed by regular membership meeting in afternoon)
 - City of Aurora Municipal Center Aspen Room
 - o 15151 E. Alameda Parkway, Aurora, CO
- Featured presentation Fidan Karimova, Water Environment Federation 2:25 2:40
 - WEF LIFT program overview

LIFT program – Leaders for Innovation and Technology. Has been around 5 years. The goal is to push technology and innovation in the water industry.

- Utility subscribers can join and participate in topics of interest (12 focus areas);
 they can get feedback from peers
- LIFT Technology scan
 - a. Application for technology providers
 - b. Review
 - c. Present to utilities interested in learning more or piloting that technology

2:20 - 2:25

 LIFT Link is a platform that includes utilities, technology providers, universities, consultants, and investors

- a. Includes 100+ technologies that have gone through the review process
 - i. Each technology has a page with information and you can "follow" any technology
- b. Also includes "experts"
- c. Also includes utility survey which covers what they are planning to do in the future
- FAST Water Network
 - a. Includes pins for laboratories to serve as test beds for technologies
- Sustainability symposium in Boulder 11/3-11/4/17
 - Day 1 conference
 - Day 2 Envision training

Potential future topics to weave into meetings (brainstorming)

- WRCO award recipients overview of their research and aspirations
- USACE/USBR funding for water reuse
- CU Boulder research topics
- Flint crisis and what it means for recycled water industry
- WRA International Advisory Group
- Interesting drivers/barriers for reuse in Colorado (member perspectives)
- Other

Please contact Brenley McKenna (<u>bmckenna@waterrf.org</u>) or Allegra da Silva (allegra.dasilva@stantec.com) with ideas for future meeting content.

Upcoming Conferences

<u>Title</u>	Organization	Location	Start date	<u>Website</u>
ULI Colorado: Our Water, Our Future	Urban Land Institute	Denver, CO	9/7/2017	https://netforum.uli.org/eweb/DynamicPag e.aspx?webcode=EventInfo&Reg_evt_ke y=298efabf-4fe4-4abc-862a- 78f3cd76e82a&RegPath=EventRegFees &FreeEvent=&Event=ULI Colorado: Our

				Water, Our Future&FundraisingEvent=&evt_guest_li mit=0
2017 Annual WateReuse Symposium	WateReuse	Phoenix, AZ	9/10/2017	https://watereuse.org/news- events/conferences/annual-watereuse- symposium/
2017 Rocky Mountain Joint Annual Conference	Rocky Mountain Water Environment Association (RMWEA) & Rocky Mountain Section AWWA (RMSAWWA)	Loveland, CO	9/11/2017	http://www.rmwea.org/annual_conference.php
2017 Tri-State Seminar	Tri-State	Las Vegas, NV	9/26/2017	http://www.tristateseminar.com/events/32 nd-annual-tri-state-seminar/event- summary- 828b0feb87194839ba92fbc9b31bc31a.as px
2017 WEFTEC	WEFTEC	Chicago, IL	9/30/2017	http://weftec.org/about/about-weftec/
2017 Intermountain AWWA Annual Conference	AWWA	Sun Valley, ID	10/11/2017	http://www.ims- awwa.org/group/2017AnnualConference
2017 PNCWA Annual Conference	Pacfic NW Clean Water Ass	Vancouver, WA	10/22/2017	http://www.pncwa.org/annual-conference
2017 Annual Fall Conference	CA-NV AWWA	Reno, NV	10/23/2017	
2017 Annual AWRA Conference	AWRA	Portland, OR	11/5/2017	http://www.awra.org/meetings/Portland20 17/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	?
International Symposium on Potable Reuse	AWWA	Austin, TX	1/22- 1/23/18	https://www.awwa.org/conferences- education/conferences/potable-reuse.aspx
2018 Emerging Contaminants Summit	?	Westminste r, 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 – 100 th Annual Meeting	AWWA	Las Vegas, NV	6/11- 6/14/2018	https://www.awwa.org/conferences- education/conferences/annual- conference.aspx

WRCO Financial Statements

As of 10/31/2017

Balance Sheet

	Oct 31, 17
ASSETS Current Assets	
Cash	106,586.91
Total Cash	106,586.91
Other Current Assets	
1315 ⋅ Prepaid Expenses	
1323 · WateReuse CO - Prepaid Expense	291.65
Total 1315 · Prepaid Expenses	291.65
Total Other Current Assets	291.65
Total Current Assets	106,878.56
TOTAL ASSETS	106,878.56
LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	
Accounts Payable	
2100 · Accounts Payable	
2111 · Accounts Payable - WateReuse CO	18,010.35
Total 2100 · Accounts Payable	18,010.35
Total Accounts Payable	18,010.35
Other Current Liabilities	
1360 · Accruals	
2508 · Accrual - CO Section	16.00
Total 1360 · Accruals	16.00
2400 · Pre-Paid Dues	
2408 · Pre-Paid Dues - WateReuse CO	2,250.00
Total 2400 · Pre-Paid Dues	2,250.00
2416.10 · Pre-Paid SS Membership	
2422 · Pre-Paid SSM - CO	250.00
Total 2416.10 · Pre-Paid SS Membership	250.00
Total Other Current Liabilities	2,516.00
Total Current Liabilities Total	20,526.35
Liabilities	20,526.35
Equity	
3210 · WateReuse CO Reserves	50,593.26
3210.5 · WRCO - DPR Project	43,848.55

3210 · WateReuse CO Reserves - Other	0.00
Total 3210 · WateReuse CO Reserves Net	94,441.81
Income	-8,089.60
Total Equity	86,352.21
TOTAL LIABILITIES & EQUITY	106,878.56

Income Statement

	Jan - Oct 17
Income	
4050 · Membership	
4300 · MEMBERSHIP DUES	
4311 · 30% of WateReuse CO Dues	16,609.43
Total 4300 · MEMBERSHIP DUES	16,609.43
4325 · State Section Membership	
4325.60 ⋅ Colorado	2,750.00
Total 4325 · State Section Membership	2,750.00
Total 4050 · Membership	19,359.43
4400 · Product & Services	
4380.25 · Special Projects	64,910.84
Total 4400 · Product & Services	64,910.84
Total Income	84,270.27
Expenses	
6529 · Marketing & Communication	
6529.70 ⋅ Scholarships	3,000.00
Total 6529 · Marketing & Communication	3,000.00
6351 · Conferences, Events & Meeting	
6351.02 ⋅ Awards	344.00
6351.10 ⋅ Food & Beverage	1,875.00
6351.65 ⋅ Sponsored Items	2,000.00
Total 6351 · Conferences, Events & Meeting	4,219.00
6500 · Contract Services	
6552 · Contract Services	
6552.50 ⋅ Other	83,755.90
Total 6552 · Contract Services	83,755.90
Total 6500 · Contract Services	83,755.90
6510 · Administration	
6510.20 ⋅ Credit Card Fees	126.59
6510.30 · Insurance (non-employee)	500.00
6510.40 ⋅ Online Tools	180.00
6510.60 · Supplies	222.48
Total 6510 · Administration	1,029.07
6584 · Travel	
6584.20 · Travel - Non-Staff	355.90
Total 6584 · Travel	355.90
Total Expenses	92,359.87
Net Income	-8,089.60

WRCO DPR Project Income Statement

	<u> </u>	2016 - 2017	
	Income		
	4400 · Product & Services		
	4380.20 · Potable Reuse Sponsorship	45,000.00	
	4380.25 · Special Projects	103,321.37	
	Total 4400 · Product & Services	148,321.37	
	Total Income	148,321.37	
	Expenses		
	5800 · WateReuse CO Expenses		
	5800.83 · Direct Potable Reuse Project		
	5800.ff · Contractor	43,129.13	2016
	Total 5800.83 · Direct Potable Reuse Project	43,129.13	
	Total 5800 · WateReuse CO Expenses	43,129.13	
	Total 5300 · SECTION EXPENSES	43,129.13	
	6500 · Contract Services		
	6552 · Contract Services		
	6552.50 · Other	83,755.90	2017
	Total 6552 · Contract Services	83,755.90	
	Total 6500 · Contract Services	83,755.90	
	Total Expenses	126,885.03	
Net Income		21,436.34	

Expenses – Detail

6520 Marketing 9 C	Туре	Date	Num	Name	Memo	Class	Amou
6529 · Marketing & Communication							
6529.70 · Scholarships	0	00/07/00/7	2010			WD00 F	
	Check	08/07/2017	2816	Kathryn Newhart	Winner of Martha Hahn Memorial Scholarship	WRCO-Expense	-1,5
	Check	08/07/2017	2817	Emily Gustafson	Winner of the general scholarship	WRCO-Expense	-1,5
Total 6529.70 · Scholarships							-3,0
Total 6529 · Marketing & Communication							-3,0
Total 6100 · Marketing and Communication							-3,0
6351 · Conferences, Events & Meeting							
6351.02 · Awards							
	Bill	09/09/2017	Expense Report	John Rehring	WRCO Award Plaques (4) A1 Custom Trophy W	es WRCO-Expense	-3
Total 6351.02 · Awards							-3
6351.10 · Food & Beverage							
	Bill	08/31/2017	Expense report	Jason Assouline	WRCO Awards dinner - 20% downpayment at D	ani WRCO-Expense	-
	Bill	09/09/2017	Expense Report	John Rehring	WRCO Awards reception Castle Rock, CO	WRCO-Expense	-1,
Total 6351.10 · Food & Beverage							-1,8
							-1,6
6351.65 · Sponsored Items	5.11	04/04/0047				1 WB00 F	-
	Bill	04/21/2017	1020	Idaho Dept of Environmental Quality	2017 Water Reuse Conference Class A Sponsor	sn wkco-Expense	-2,
Total 6351.65 · Sponsored Items							-2,
Total 6351 · Conferences, Events & Meeting							-4,
500 - Contract Services							
6552 · Contract Services							
6552.50 · Other							
	Bill	02/14/2017	155462	Carollo Engineers.	Professional services for January 2017	WRCO-Expense	-8
	Bill	03/15/2017	29488.55	Carollo Engineers.	Professional services for February 2017	WRCO-Expense	-29
	Bill	04/26/2017	157190	Carollo Engineers.	Professional services for March 2017	WRCO-Expense	-9
	Bill	05/30/2017	157981	Carollo Engineers.	Professional services for April 2017 Professional services for April 2017	WRCO-Expense	-4
				-	·		
	Bill	06/12/2017	158397	Carollo Engineers.	Professional services for May 2017	WRCO-Expense	-6
	Bill	07/18/2017	159468	Carollo Engineers.	Professional services for June 2017	WRCO-Expense	-7,
	Bill	08/21/2017	160219	Carollo Engineers.	Professional services for July 2017	WRCO-Expense	-4,
	Bill	09/14/2017	160724	Carollo Engineers.	Professional services for August 2017	WRCO-Expense	-13,
Total 6552.50 · Other							-83,
Total 6552 · Contract Services							-83,
otal 6500 · Contract Services							-83,
510 · Administration							
6510.20 · Credit Card Fees							
	General Journal	01/03/2017	5097		reversed cc fees	WRCO-Expense	
	General Journal	01/31/2017	5173		cc fees	WRCO-Expense	
	General Journal	02/28/2017	5239		cc fees	WRCO-Expense	
			5391				
	General Journal	04/30/2017	•		CO March dues	WRCO-Expense	_
	General Journal	05/31/2017	5483		cc fees	WRCO-Expense	
	General Journal	07/03/2017	5606		dues cc fee	WRCO-Expense	
	General Journal	09/05/2017	5739		cc fees	WRCO-Expense	_
Total 6510.20 · Credit Card Fees							
6510.30 · Insurance (non-employee)							
	General Journal	01/03/2017	5097		WRCO's Liability insurance from 8/1/16 - 7/31/17	WRCO-Expense	
	Bill	07/07/2017		GreatAmerican Insurance Group	WRCO Liability insurance from 8/1/2017 - 7/31/2	01 WRCO-Expense	T .
Total 6510.30 · Insurance (non-employee)					· ·		
6510.40 · Online Tools							
6510.40 · Offilite Tools	Dill	04/04/0047	1	Obsistant as I Tour	M/DOO Firshames are like in	WDOO F	
	Bill	01/31/2017	January	Christopher J. Traub	WRCO Exchange mailbox	WRCO-Expense	
	Bill	02/28/2017	February	Christopher J. Traub	WRCO Exchange mailbox	WRCO-Expense	
	Bill	03/31/2017	March	Christopher J. Traub	WRCO Exchange mailbox	WRCO-Expense	-
	General Journal	04/01/2017	5361	Christopher J. Traub	WRCO Exchange mailbox	WRCO-Expense	
	Bill	05/31/2017	May	Christopher J. Traub	WRCO Exchange mailbox	WRCO-Expense	
	Bill	06/30/2017	June	Christopher J. Traub	WRCO Exchange mailbox	WRCO-Expense	
	Bill	07/31/2017	July 2017	Christopher J. Traub	WRCO Exchange mailbox	WRCO-Expense	
	Bill	08/31/2017	August	Christopher J. Traub	WRCO Exchange mailbox	WRCO-Expense	
	Bill	09/29/2017	September	Christopher J. Traub	WRCO Exchange mailbox	WRCO-Expense	
	General Journal	10/01/2017	5771	Christopher J. Traub	October WRCO Exchange mailbox	WRCO-Expense	
	Bill	10/03/2017	Expense Report	Maria Greenly	2017 Registered the Association in the State of		
T. 10540 40 . O . F T.	Bill	10/03/2017	Expense Report	Maria Greenly	changed Richard Leger's name to Laura Belange	www.co-expense	-
Total 6510.40 · Online Tools							
6510.60 · Supplies							
	Bill	07/28/2017	Expense Report	Abigail Antolovich	thank you gift for red rocks student and professo	r WRCO-Expense	
	Bill	08/01/2017	Expense report	Laura Belanger	Sympathy flowers for Jodi Villa	WRCO-Expense	
Total 6510.60 · Supplies							
Total 6510 - Administration							-94
5584 - Travel							-34
							+
							-
6584.20 · Travel · Non-Staff							
6584.20 · Travel - Non-Staff	Bill	03/07/2017	Expense Report	Richard Leger	Las Vegas Board Meeting	WRCO-Expense	-
6584.20 · Travel · Non-Staff Total 6584.20 · Travel · Non-Staff	Bill	03/07/2017	Expense Report	Richard Leger	Las Vegas Board Meeting	WRCO-Expense	