



IDAHO WASHINGTON AQUIFER COLLABORATIVE

iwac.us

P.O. Box 1822
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Dan Kegley - President
Terry Pickel - Vice President
Rob Lindsay - Secretary
Ron Wilson - Treasurer
Mike Galante – Past President

Our Water. Our Future.

The Idaho Washington Aquifer Collaborative (IWAC) works to maintain and enhance water quality and quantity for present and future generations by developing management strategies which benefit the Spokane Valley Rathdrum Prairie Aquifer and the Spokane River watersheds.

May 8, 2018 1:30 – 3:30 PM, Liberty Lake Sewer and Water District

Representatives Present

	Organization	Representative	Email Address
	Avista	Chris Moan	chris.moan@avistacorp.com
	Avondale Irrigation District	Bob Chandler	bobchandlercda@gmail.com
	Bar Circle S Water Company	Rob Turnipseed	avondalecon@frontier.com
√	City of Coeur d’Alene	Terry Pickel	tpickel@cdaid.org
√	City of Post Falls	John Beacham Monica Ott	jbeacham@postfallsidaho.org mott@postfallsidaho.org
√	City of Spokane Water Department	Dan Kegley	dkegley@spokanecity.org
	Coeur d’Alene Tribe of Indians	Laura Laumatia	llaumatia@cdatriben-sn.gov
	Consolidated Irrigation District No. 19	Shane Sheppard	consolidatedirrigation@comcast.net
	East Greenacres Irrigation District	Ron Wilson	ron@eastgreenacres.org
	Hayden Area Regional Sewer Board	Ken Windram*	ken@harsb.org
	Hayden Lake Irrigation District	Branden Rose	branden@haydenirrigation.com.
√	Liberty Lake Sewer and Water District	BiJay Adams Jeremy Jenkins	bijay@libertylake.org jjenkins@libertylake.org
	Moab Irrigation District	Kathleen Small	kathleensmall@comcast.net
√	Model Irrigation District	Rick Neal	rick@modirr.org
	Modern Electric Water Company	Bryan St Clair	bstclair@mewco.com
√	North Kootenai Water & Sewer District	Chris deGroot	chrisd@nkswd.com
√	SAJB Program Leader	Tonilee Hanson	sajbinfo@gmail.com

√	Spokane Co. Environmental Services	Rob Lindsay	rlindsay@spokanecounty.org
	Spokane County Water District No. 3	Kelly Williquette	scwd3engr@comcast.net
	Spokane Tribe of Indians	Brian Crossley	crossley@spokanetribe.com
√	Vera Water and Power	Todd Henry	thenry@verawaterandpower.com
√	Whitworth Water District	Tim Murrell	tim@whitworthwater.com
√	IWAC Past President	Mike Galante	MikeGalante1@gmail.com
√	City of Spokane Valley	Henry Allen	hallen@spokanevalley.org
√	City of Spokane	Kristen Zimmer	kzimmer@spokanecity.org
√	City of Spokane	Hillary Nickerson	hnickerson@spokanecity.org
√	University of Idaho – Water Education	Jim Ekins	jekins@uidaho.edu

AGENDA

Welcome and Introductions –President Dan Kegley called the meeting to order at 1:30 pm and everyone introduced themselves.

Agenda Additions or Revisions – No changes were requested.

Approval of Meeting Minutes –President Kegley called for additions or corrections to the minutes for April 10, 2018. No changes were requested. Bijay Adams moved to approve the April meeting minutes and Mike Galante seconded the motion. The motion passed unanimously.

Financial Report – Ron Wilson presented the Treasurer’s Report. The Mountain West checking account balance as of 4/30/18 is \$41,040.32. Invoices paid in April included \$957.50 for Anderson Brothers CPA’s, PA and \$750.00 as a contribution to the Spokane River Forum’s H₂O Breakfast. Treasurer Wilson shared the state report and confirmed that IWAC is in compliance with all required filings. Terry Pickel made a motion to accept the Treasurer’s report and BiJay Adams seconded the motion. President Kegley called for a vote and the motion passed unanimously.

Old Business

Irrigation Design Standards Update - The proposed RFP, “Advertisement for Request for Professional Services (RFP) Efficient Irrigation and Landscape Design Standards” was not discussed. A distribution list and return deadline are still to be determined.

Reminder Spokane River Forum – H₂O Breakfast May 9, 2018 at Historic Davenport Hotel, Spokane, WA. Speaker Sandra Postel author of *Replenish*. The Spokane River Forum will acknowledge Mike Galante, NKSWD, and Guy Gregory, Ecology, for their exemplary contribution to regional water stewardship. Mike and Guy both retired in April. IWAC appreciates their contributions and extends a special thanks to Mike as the founding President of the Idaho Washington Aquifer Collaborative.

Drippy the Water Drop – A bid was received from Eric Miller to complete the Drippy the Water Drop coloring card project. Eric estimated 21 hours of work at \$42.00 per hour with total

compensation not to exceed \$882. The bid was reviewed, and discussion included the importance of 1) completing the project and printing cards in time for the 2018-19 school year; 2) fulfilling on the 2016-17 deliverables funded by the APD, IDWR and IWAC members (Four 30 second video spots, 3-5-minute Aquifer video and Drippy the Water Drop). Rob Lindsay moved to accept the graphic artist bid to complete Drippy. Terry Pickel seconded the motion. President Kegley called for the vote and the motion carried unanimously.

IWAC Website – Mobile Friendly Upgrade was introduced in April and tabled until May to include input from more members. Anne Francis Web Design provided a bid of \$600.00 to make the upgrade. Anne’s company can offer that price because IWAC is using a template shared by the Lake Roosevelt Forum (LRF) website. LRF has completed the mobile upgrade to its website and replicating those changes on the IWAC site is cost effective. The importance of a mobile friendly site was discussed. Bijay Adams moved to accept the bid to make IWAC’s website mobile friendly. Tim Murrell seconded the motion. President Kegley called for the vote and the motion carried unanimously.

Water Conservation Video – President Kegley met with KSPS representatives, Dawn Bayman, Carl Heidle and Ben Gurtel to discuss production of a 2-3-minute video. The audience for the video would be elected officials and decision makers regarding the need for irrigation design standards to protect the quality and quantity of water in the Spokane River and SVRP aquifer. The script would be completed and footage for the video would be gathered during the 2018 summer months. The video would be ready for showing at the next SRF Conference (April 2019). Three 30 second spots would be developed from the video for airing by the 2019 irrigation season.

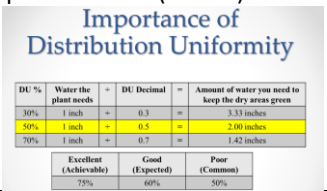

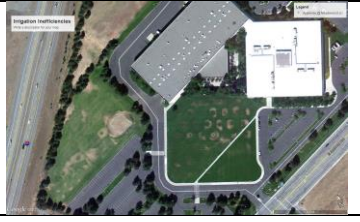
Funding for this project has been received from the Cities of Spokane and Coeur d’Alene. A request for \$10,000 was presented to the Kootenai County Aquifer Protection District (APD) and decisions will be made in early June. Mike Galante will research additional funding opportunities with Washington Department of Health division of Drinking Water (DOH) and the Idaho Department of Environmental Quality (IDEQ).

A report will be created to share with funders that details the results for the Aquifer Video, the 4 (30 second) game show spots and progress on Drippy the Water Drop. The report should include Google analytics for website views on IWAC and SAJB, KSPS affidavit of air times and shows, SRF Facebook Insights, SRF Instagram Insights, and CDA TV air times. This report is needed by early June.

Additions to the script were discussed. Below is a revised draft of ideas for the Irrigation – Water Conservation video. The chart below captures ideas, but the order will need further review.

5/8/18 - DRAFT 2 SCRIPT OUTLINES: IWAC IRRIGATION DESIGN STANDARDS VIDEO

VIDEO – SHOTS AND GRAPHICS	Time	AUDIO – <i>conceptual outline only</i>
Image of irrigation sprinkler on center pivot and in lawn. Sound of a Rain-bird (pivot sprinkler)		Irrigation, we all like lush green lawns and beautiful flower gardens,
Present data graph of municipalities pumping and the seasonal increase. Months on x axis. Millions of gallons on y axis		... but how much of the water we use on our lawns and gardens is really needed?
5-mile prairie overwatering photos – Dan Kegley		

Cut away graphic showing a plant and the root zone. Irrigation past the root zone.		Debunk the standard of 1 inch of water per week. Factors that determine the amount of water needed:
Images of different soil types and water transport/retention		Soil quality: sandy, clay or removed top soil
Images showing plants and lawns in different locations/weather conditions		Micro climates, wind and sun exposure all affect water use.
Image comparing shallow and deep root zones		Compare watering every day vs watering less often but for longer periods. Deeper root zone.
Images of changing climate start to end of irrigation season. Sprinklers running in the rain. Sprinklers watering hard scape.		Problem: Irrigation systems set once and no seasonal adjustments.
Distribution uniformity table from Bijay's presentation. (Slide 7) 		Distribution Uniformity (DU) is a key indicator of the performance of an irrigation system DU measures how uniformly an irrigation system applies water to the landscape (Slide 3 Bijay's presentation)
		Areal example of inefficient water distribution Slide 11 – Bijay's Presentation. Water loss due to inefficient watering
		Areal example of inefficient water distribution Slide 14 – Bijay's Presentation.
Before and after images. Show an effective system.		A well-designed irrigation system conserves water
Images that document the changes - before and after shots of smart scape Demonstration sites		Cost before and after. Time spent on maintenance before and after. Data from successful programs to save water e.g., AWWA, Ashland OR, Wisescape Pullman/Moscow (Bijay Adams)
Images of technology: smart sensors, rain sensors, controllers being adjusted		Solution: Moisture sensors, learn to adjust controllers,
Images from drought areas like CA and AZ. Houses with no lawn.		
Comparison photos of past open farming land and current housing developments in Rathdrum Prairie, Liberty Lake, Spokane Valley.		Rate Increases as more water is used.
Graphs showing rate of new home development		East Greenacres example Ron Wilson: growth of 1,500 homes without additional water production. Due to water loss prevention.
Images of maintenance, not watering hardscapes, repairing broken sprinkler heads		Water quality: stormwater contaminants, fertilizer. What can you do?
Image of adding amendments and aeration		improve soil quality with aeration and amendments
Image: homeowner or lawn maintenance company setting timer		controllers: setting timers, establishing lawn vs maintenance adjust when plants acclimate
How do we show evaporation?		Do not water in the heat of the day (10:00 am and 6:00 pm)

Broken sprinkler heads in early morning or late at night with no one around.		observe the sprinkling cycle while on to be sure it is watering properly
Image replacing fine mist sprinkler heads with rotator		retrofit sprinkler heads with efficient rotators
Images of area lakes and rivers. Drinking water. Images of runoff from lawn to storm drain. Sprinklers spraying on the road		Protect water quality, Keep harmful contaminants like fertilizer and herbicides out of our drinking water. Poor use of water has a direct impact on the flow of river water in August.
Spokane County bar chart use of water by months now and 2040		Look to the future. Population increase over next years by 25%. Protect water quality for future generations. Positive. What you can do. Stewards of the future.
We see the effect in the river.		Climate variability what will happen if we have a less snow pack? Why conservation now matters.

New Business

In Development - City of Spokane Landscape Design Manual – Kristen Zimmer and Hillary Nickerson showed a draft publication, **SpokaneScape**, and reported on the City of Spokane’s Lawn Replacement Rebate Program which begins in May and ends November 1, 2018. The program will credit the customer’s utility bill with up to \$500.00 for removing lawn and replacing it with water smart plants, mulch and drip irrigation. The rebate is \$0.50 per square foot. A minimum of 300 square feet must be removed to be eligible. Program details and applications can be found at [Water Stewardship.org](http://WaterStewardship.org). A link to this program will be added to the IWAC website.

Construction Season – IWAC will continue to meet during the summer construction season. It is important to keep the momentum going on the irrigation design standards, the video and Drippy.

Updates Around the Table

Dan Kegley reported that the City of Spokane is drilling a new 24 inch well at 6th and Havana. This well will increase system resiliency by moving pumping away from the river in the event of a chemical spill and to reduce the impact on the river from summer pumping. Dan offered to schedule a future IWAC meeting at Upriver Dam and include a tour of the facilities.

Rob Lindsay reported that Spokane County is resuming Watershed Planning due to the Hirst Decision. A plan will be developed that includes accounting of rural water rights. Counties now have a legal obligation to protect rural water resources.

Todd Henry reported that Vera Water and Power has adjusted water rates, so higher water use is no longer less expensive. Rates will continue to be reviewed every 15 months.

Jim Ekins, UI Extension shared the following outreach events:

- IDAH2O Master Water Stewards – Citizen Science Water Quality Monitoring training is available at: Sandpoint May 12, CDA May 19, Newport July 21, Ashton, ID July 28, or as requested by a group.

- Project WET Training is available in McCall, ID June 6th. Wet/Wild Salmon River 3-Days 2 credits – cost \$610.
- Youth Water Summit May 22nd Needs project judges. There will be 350 students and 144 projects.
- The final five interpretive signs are being printed (\$3,158.05). they will be delivered by June 5th.
- Native plants for river bank restoration are available. Contact Jim.
- Outdoor Classroom skeleton is installed with permeable pavers for the stage area. The city of CDA provided \$8,000 in funding, equipment and work crew. APD provided over \$9,700. CDA Tribe provided funding and will continue with interpretive signs and other support. UI provided \$1,000. Jim thanked all funders.
- Swale – 9,600 square feet contained a recent storm event. The swale has been planted and hydroseeded. More plantings will occur with CDA High School students. Additional BMP demonstrations (e.g., living roof, permeable paving options, additional swale, etc.) will be installed as funding permits.

Agenda for June 12, 2018 Meeting – Irrigation Design Consultant RFP, KSPS Proposal for Irrigation Design and Water Conservation video.

Adjourn

There being no further business this 8th day of May 2018, President Kegley adjourned the meeting at 3:30 pm.

President Dan Kegley

Vice President Terry Pickel

Handouts sent via e-mail: IWAC Agenda, IWAC April Meeting Minutes, Treasurer’s Report, Previous IWAC meeting agendas, minutes, supporting documents and presentations can be found at <http://www.iwac.us/category/meetings/>.