

Minutes of NPBRT Meeting: 1-23-18
USFS Conf. Room (5-7 PM) 100 Main Street, Walden, CO

Members/Liaisons Present

*Mike Allnutt
Deb Alpe
*Kent Crowder
*Blaine Evans
*Mark Hackleman
Debbi Heeney (NRCS)
*Randy Miller
*Carl Trick II
*Barbara Vasquez
*Ty Wattenberg
Tara Wertz
*Rick Wyatt
Jeremiah Zamora (USFS)

Members/Liaisons Absent

*Jim Baller
Paula Belcher (BLM)
*Scott Fischer
David Graf (CPW)
*Mike Honholz
*John Rich
Curtis Utley (CSU Ext.)
*Pat VanValkenberg

Others Present

Greg Johnson, CWCB
Wendy Ryan, Colorado River Engineering
Matt Sinclair, State Forest State Park
Jerd Smith, Water Education
Kincaid Waldron

I. Introductions/Agenda Review

Agenda was accepted as proposed.

II. Approval of Minutes for NPBRT 9-25-18 meetings

The minutes of the 9-25-18 meeting was approved as written with one edit to clarify language describing property ownership for the proposed DU projects.

III. Presentation and update on the project to re-establish lysimeters in North Park to determine high altitude, hay meadow crop coefficients -Wendy Ryan, Colorado River Engineering

Wendy's presentation is attached with these minutes. The Lysimeter project began in the fall of 2015. Various issues with the equipment prevented a delivery of the goal of the project, a reliable estimation of the Crop evapotranspiration (ET) for high mountain hay. In the spring of 2018 a technical representative of the German manufacturer of the lysimeter (MeterGroup- formerly UMS) made a site visit to inspect the system. All major components were replaced and/or repaired. Data was successfully collected May 1 to Sept 7. Data for the two lysimeters (one-minute basis) were filtered and reduced to 30-minute averages. The ET values were summed for the day and compared between the two lysimeter and also to reference ET calculated using CoAgMet station data.

Month	ASCE Penman - Daily (in)	ASCE - hourly refET (in)	Kimberly-Penman (in)	Blaney-Criddle (in)	Lysimeter 1 (in)	Lysimeter 2 (in)
May	6.39	6.83	6.45	4.59	5.06	5.23
June	7.63	8.20	8.16	5.47	8.62	8.94
July	6.82	7.13	7.47	5.94	9.65	10.58
August	7.53	7.44	7.50	5.22	9.89	10.96
September	6.96	6.66	6.26	4.03	4.05	4.92
May - Jul (in)	20.84	22.16	22.09	16.00	23.33	24.76
May-Sept (in)	35.32	36.26	35.85	25.25	37.28	40.63
May - Jul (ft)	1.74	1.85	1.84	1.33	1.94	2.06
May-Sept (ft)	2.94	3.02	2.99	2.10	3.11	3.39

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Lysimeter based ETs were consistently higher in the months of July and August than any calculated ETs, in the range of 9-11in. The seasonal total (3.11 & 3.39 ft for Lysimeter 1 & 2) is close to the estimate calculated with the ASCE reference equation (3.02). The Three State Agreement uses 0.83 AF/ac which is quite low compared to the preliminary results from the lysimeter data. The grant runs through 9/19 and has approximately \$17k left which is sufficient for the data collection and interpretation next season.

Discussion ensued regarding continuation of measurements to gather at least 3 more years of data. Wendy's estimate of cost for the work is approximately \$15k-\$20k/yr. Timing for application was discussed. Application by midsummer before would be timely, and the RT would need the application 20d before its meeting date. Since the application would be <\$100k, it would operate under POs and be quicker to fund.

IV. Presentation and discussion on on-going efforts to update the Statewide Water Supply Initiative and how that work relates to the water plan and future basin planning – Greg Johnson, CWCB

Greg's presentation, Technical Update to the Colorado Water Plan, is attached. He reviewed the elements of the 5-yr cyclical planning schedule for the State Water Plan, and highlighted some changes implemented in new stakeholder-driven methodologies including various elements of modeling: hydrological, municipal, agricultural, environmental plus scenario planning across major drivers. The scenarios developed by the IBCC include A Business as usual, B Water Economy, C Cooperative Growth, D Adaptive Innovation and E Hot Growth. The methodologies used for future estimates were guided by Technical Advisory Groups (TAGs) populated by representatives from across the basins. Stakeholder input provided a top-3 asks: 1) Provide a toolbox, 2) Tell the SWSI history to communicate the limitations of the data and 3) unify 'branding' by explaining how SWSI update is related to the CO Water Plan. Roundtables will be asked to update their Basin Implementation Plans in late 2018/early 2019. SWSI update is due in July 2019 culminating in a Basin Summit (9/2019).

The central question revolves around funding. There have been two parallel processes underway, one driven by the State through IBCC, the other facilitated by the Keystone Group which has a broader participation. Greg provided some additional materials following the meeting. You will see attached to these minutes AttachmentA_2018 Funding Timeline.pdf, Keystone Funding Strategy Talking Points.pdf, IBCC Funding update from G Johnson.pdf and IBCC Funding Discussion FINAL.pdf. Finally, he provided a link to the SWSI update webpage: <http://cwcb.state.co.us/water-management/water-supply-planning/Pages/SWSIUpdate.aspx>. In November the CWCB will vote on proposed funding which would feed into potential legislation (session Jan-May) to define appropriations. Potential avenues for funding that have been discussed include a bottle fee, a tap fee, gambling revenue. Carl Trick asked about the Colorado River Compact Compliance. Colorado has 53% of the entitlement from the upper basin states. Greg said the State plans to go ahead with its mitigation plan. This is in spite of difficulties with the plan. In particular, the Northern water has been sued regarding plans for storage on the Poudre and Windy Gap Firming. The lawsuit puts into jeopardy many of the other projects.

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- V. CWCB//BCC – Curran Trick, John Rich and Mike Allnutt**
No report: Information covered by presentation by Greg Johnson
- VI. Old Business/New Business**
Old: Barbara showed the current NPBRT membership list (attached with these minutes) to verify with the participants at this meeting that the information for them was correct. The report of WSRF balances for the State and each basin as of Oct. 1 is attached with these minutes. The North Platte Basin account balance as of that date is \$915,827
New:
Kent called for vote to seat Mark Hackleman on the Roundtable as the approved agent for the Walden Reservoir. The vote was unanimous.
- VII. Date for the next meeting**
No next meeting date was set at this time. Watch your email for date/time.