KWR &

Kansas Water Resources Consulting

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Neutral Testimony on HB 2678 related to Water Banking House Committee on Water, February 8, 2024

My name is David Barfield, and I am providing neutral testimony regarding HB 2678.

Qualifications - I am a professional civil engineer with over 40 years of water resources experience. I worked for the Kansas Dept. of Agriculture's Division of Water Resources (DWR) from 1984 until my retirement from the state during early 2020, which included 12 years as DWR's Chief Engineer. Since mid-2020, I have been a water resources consultant, assisting two GMDs in their LEMA development and implementation and a diverse set of cities, industry, and irrigators in water right matters. That said, **my comments provided herein are my own alone.**

My testimony will be limited due to the short notice provided of the bill and this hearing which makes meaningful review of the issues it raises difficult.

Statute requires Water Bank operations to be reviewed periodically. My testimony provides the committee with excerpts from the most recent five-year review of Kansas only water bank, the Central Kansas Water Bank (CKWB), as well as an excerpt from its latest annual report. The most recent review covered the years 2013-17.

From my knowledge dealing with the CKWB as Chief Engineer I have not identified any concerns with the Bank's basic operations a regular account deposit and leases.

However, I have concerns with the operation of safe deposit accounts as amended in 2016. Here is a quote from the latest review explain their basic operation and changes made in 2016 to make them much more attractive: "Safe deposit accounts are for a water right owner's own use, in which a portion of unused water in one year is saved to supplement a need in a future year. A water right owner is allowed to deposit up to 25% of the unused portion of the water right in a calendar year when the use was less than the authorized quantity. The Safe Deposit formula was changed after the previous Evaluation, and an additional conservation factor was removed by the May 5, 2016 Findings and Order of the Chief Engineer, which adopted the current Bank Charter."

I was the Chief Engineer that approved these provisions. I had a concern at that time but assumed the 5-review process would address any concerns as they were evidenced. Perhaps this will be the case in due course with the next review with the significant additional growth and use of safe deposit accounts.

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Below are additional quotes about safe deposit accounts from the most recent five year review.

- The Kansas Water Banking **Act requires the operation of safe deposit accounts by the bank shall not result in an increase in the amount of net consumptive use of water** in any hydrologic unit, computed on a long-term rolling average compared to a representative past period. K.S.A. 82a763(c)(9).
- **SD Account usage has been rapidly increasing** since the past evaluation and **after changes to the Bank Charter** were completed, modifying the amount of water that can be deposited into SD Accounts and the Fee Structure.
- The total in accounts grew from 1002 AF in 2014 to 42,290 AF in 2018.
- Some water has been withdrawn from SD Accounts, with a maximum of 664 acre-feet being reported as withdrawn on the 2018 Annual Report.
- This comparison shows that **four of the nine hydrologic units have a higher net consumptive use** on average for the 2013-2017 Evaluation Period.
- This analysis was conducted and included within the Safe Deposit Accounts section of this report as well as mentioned earlier in these findings, highlighting that net consumptive use increased in 4 of 9 hydrologic units within the Bank boundary while showing only a very small increase when looked at for the Bank area as a whole. As safe deposit account balances continue to increase there remains an opportunity for net consumptive use to increase, particularly during periods of drought when safe deposit account balances are drawn upon by Bank participants. Potential remedies to this situation are included within the Recommendations section of this report.

Also attached is an excerpt from the latest Water Bank Report with the last page of Report's listing of savings account operations. It shows the total in savings accounts at the beginning of 2022 was 98,024 acre-feet and 26,090 acre-feet of savings account water used in 2022. This included significant withdrawals in the Rattlesnake Creek basin above Quivira.

I believe the next water bank review will demonstrate that the revisions to savings accounts of 2016 are in conflict with Statute's requirement to not increase the net consumptive use of water in any hydrologic unit. This is especially problematic in the Rattlesnake Creek Basin.

The bill adds an admittedly small increase in flexibility in the use of safety deposit accounts. However, I believe the Legislature should consider such changes very carefully.

I would be happy to stand for questions.

Attachments:

- 1) Title page and table of contents from latest Water Bank Review
- 2) Transmittal letter and end of savings account table from Water Bank Annual Report

Central Kansas Water Bank Association Five Year Review Evaluation Report

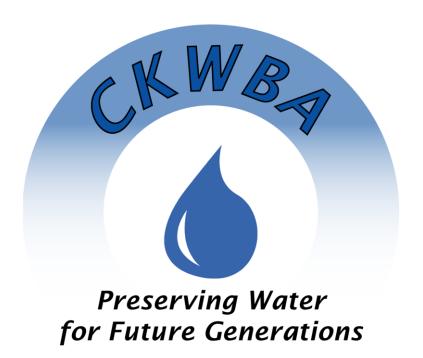


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John Janssen - Public (Chair) Brandon Bortz - Private Andrew Vosburgh - Private Greg Ebert - Private Vernon Hirt - Private



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April 12, 2023

Earl Lewis Division of Water Resources Kansas Department of Agriculture 1320 Research Park Drive Manhattan, KS 66502

RE: Central Kansas Water Bank Association 2023 Annual Report

Dear Mr. Lewis,

As per K.A.R. 5-17-11, enclosed is a spreadsheet outlining the activity for the Central Kansas Water Bank Association through the calendar year 2022. This letter and attachment will serve as the 2023 annual report of activity within the Central Kansas Water Bank Association.

If there are any questions with the annual report spreadsheet or information in this letter, please contact the Association office.

Sincerely,

Orrin Feril Manager

Enclosure

Central Kansas Water Bank Association

2023 Annual Report

SAVINGS ACCOUNTS

| | | | | | | 0. | AVIIIVOU A | CCOUNTS | | | | | | | | | | |
|-------------|-----------------|------------|--------------------|--------|-----------|----------|------------|-----------|---------|------------------------------|------------|------------|---------|-----------|---------|------------|------|------|
| Water Right | Savings Account | Date | Hydrologic | Auth. | Beginning | Annual | Savings | | Type of | quantity diverted past 3 yrs | | | | Acres Irr | | Crop Codes | | |
| Number | Number | Opened | Unit | AF | Balance | Deposit | Acct. Used | Balance | Use | 2020 | 2021 | 2022 | 2020 | 2021 | 2022 | 2020 | 2021 | 2022 |
| | 047 | 11/22/2022 | SF Ninnescah River | 233.00 | 0.00 | 1.99 | 0.00 | 1.99 | IRR | 177.00 | 224.00 | 225.04 | 130 | 155 | 155 | 4 | 2 | 17 |
| 32 | 048 | 11/22/2022 | SF Ninnescah River | 253.00 | 0.00 | 0.73 | 0.00 | 0.73 | IRR | 205.00 | 166.00 | 250.09 | 165 | 165 | 165 | 2 | 4 | 2 |
| | 049 | 11/23/2022 | Cow Creek | 105.00 | 0.00 | 26.25 | 0.00 | 26.25 | IRR | 0.00 | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A | N/A |
| | 050 | 11/25/2022 | NF Ninnescah River | 231.00 | 0.00 | 0.53 | 0.00 | 0.53 | IRR | 164.00 | 192.00 | 228.89 | 155 | 155 | 155 | 2 | 2 | 2 |
| | 051 | 11/25/2022 | SF Ninnescah River | 197.00 | 0.00 | 0.99 | 0.00 | 0.99 | IRR | 126.00 | 160.00 | 193.06 | 130 | 130 | 130 | 2 | 2 | 2 |
| | 052 | 11/25/2022 | NF Ninnescah River | 198.00 | 0.00 | 0.48 | 0.00 | 0.48 | IRR | 145.00 | 185.00 | 196.10 | 130 | 130 | 130 | 4 | 2 | 2 |
| | 053 | 11/25/2022 | SF Ninnescah River | 207.00 | 0.00 | 0.34 | 0.00 | 0.34 | IRR | 146.58 | 160.08 | 205.63 | 130 | 130 | 130 | 2 | 4 | 2 |
| | 054 | 11/29/2022 | Rattlesnake Creek | 216.00 | 0.00 | 0.00 | 0.00 | 0.00 | IRR | 132.17 | 133.50 | 244.03 | 120 | 122 | 120 | 26 | 15 | 22 |
| | 055 | 11/29/2022 | SF Ninnescah River | 198.00 | 0.00 | 9.03 | 0.00 | 9.03 | IRR | 68.34 | 124.27 | 161.88 | 125 | 125 | 125 | 15 | 15 | 15 |
| | 056 | 11/30/2022 | Pawnee River | 57.00 | 0.00 | 4.71 | 0.00 | 4.71 | IRR | 46.58 | 9.33 | 38.15 | 160 | 148 | 145 | 25 | 5 | 3 |
| | 057 | 11/30/2022 | Cow Creek | 105.00 | 0.00 | 0.91 | 0.00 | 0.91 | IRR | 26.30 | 65.59 | 101.34 | 46 | 70 | 70 | 2 | 4 | 2 |
| | 058 | 11/30/2022 | Cow Creek | 240.00 | 0.00 | 11.88 | 0.00 | 11.88 | IRR | 137.00 | 110.75 | 192.48 | 130 | 130 | 130 | 2 | 4 | 2 |
| | 059 | 11/30/2022 | Cow Creek | 224.00 | 0.00 | 22.30 | 0.00 | 22.30 | IRR | 145.17 | 156.42 | 134.78 | 149 | 149 | 149 | 2 | 2 | 17 |
| 36 | 060 | 11/30/2022 | Cow Creek | 195.00 | 0.00 | 8.15 | 0.00 | 8.15 | IRR | 128.00 | 153.00 | 162.40 | 130 | 130 | 130 | 2 | 2 | 15 |
| | D61 | 11/30/2022 | Cow Creek | 187.00 | 0.00 | 0.34 | 0.00 | 0.34 | IRR | 116.00 | 134.00 | 185.65 | 130 | 130 | 130 | 2 | 2 | 2 |
| | 062 | 11/30/2022 | Cow Creek | 98.00 | 0.00 | 4.94 | 0.00 | 4.94 | IRR | 24.84 | 53.74 | 78.25 | 65 | 65 | 65 | 32 | 2 | 2 |
| 33 | 063 | 11/30/2022 | Cow Creek | 195.00 | 0.00 | 7.91 | 0.00 | 7.91 | IRR | 125.76 | 142.84 | 163.36 | 130 | 130 | 130 | 2 | 2 | 2 |
| | 064 | 11/30/2022 | Cow Creek | 198.00 | 0.00 | 4.47 | 0.00 | 4.47 | IRR | 112.66 | 121.81 | 180.11 | 130 | 130 | 130 | 2 | 2 | 2 |
| | 065 | 11/30/2022 | Cow Creek | 169.00 | 0.00 | 0.32 | 0.00 | 0.32 | IRR | 123.00 | 101.00 | 167.74 | 130 | 130 | 130 | 17 | 17 | 2 |
| | 066 | 12/1/2022 | NF Ninnescah River | 198.00 | 0.00 | 0.00 | 0.00 | 0.00 | IRR | 103.00 | 99.00 | 171.13 | 130 | 130 | 130 | 2 | 3 | 3 |
| | 067 | 12/1/2022 | NF Ninnescah River | 174.00 | 0.00 | 0.00 | 0.00 | 0.00 | IRR | 92.00 | 115.00 | 171.82 | 120 | 120 | 120 | 2 | 4 | 5 |
| | 068 | 12/1/2022 | NF Ninnescah River | 195.00 | 0.00 | 0.00 | 0.00 | 0.00 | IRR | 84.25 | 59.92 | 137.51 | 125 | 125 | 125 | 2 | 3 | 2 |
| | 069 | 12/1/2022 | NF Ninnescah River | 186.00 | 0.00 | 0.00 | 0.00 | 0.00 | IRR | 96.60 | 123.39 | 173.10 | 120 | 120 | 120 | 2 | 4 | 5 |
| | 070 | 11/30/2022 | Cow Creek | 170.00 | 0.00 | 9.11 | 0.00 | 9.11 | IRR | 94.18 | 105.47 | 133.55 | 130 | 130 | 130 | 17 | 2 | 2 |
| | D71 | 11/30/2022 | Cow Creek | 195.00 | 0.00 | 0.85 | 0.00 | 0.85 | IRR | 117.66 | 101.69 | 191.60 | 130 | 130 | 130 | 2 | 17 | 17 |
| | 072 | 12/1/2022 | Rattlesnake Creek | 316.00 | 0.00 | 0.00 | 0.00 | 0.00 | IRR | 183.00 | 190.00 | 233.00 | 130 | 130 | 130 | 2 | 2 | 4 |
| RLY TOTALS | | | | | 98,024.34 | 4,735.02 | 26,090.55 | 69,456.60 | | 232,128.28 | 268,117.43 | 340,703.59 | 227,379 | 229,461 | 229,731 | | | |