REPUBLICAN RIVER COMPACT ARBITRATION

Pursuant to Section VII, Final Settlement Stipulation (December 15, 2002)

NEBRASKA'S ALTERNATIVE WATER-SHORT YEAR PLAN

and

NEBRASKA'S ROCK CREEK AUGMENTATION PLAN ◆ _____



DIRECT TESTIMONY OF DR. JAMES C. SCHNEIDER, PH.D., RE NEBRASKA'S ROCK CREEK AUGMENTATION PLAN

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1	1. Q: Please state your full name for the record.
2	A: James C. Schneider, Ph.D.
3	2. Q: Please summarize the scope of your testimony.
4	A: I am the primary author of Nebraska's Rock Creek Augmentation Plan ("Plan"),
5	attached hereto as Exhibit N20021. I have also authored a responsive expert report on
6	this matter, which is entitled Response to Kansas' Reports on the Nebraska Rock Creek
7	Augmentation Plan ("Response Report"). A copy of that report is attached hereto as
8	Exhibit N20022. That report and the Plan constitute the bulk of my Direct Testimony.
9	The remainder of my Direct Testimony is intended to summarize my conclusions and
10	provide some background on the development of the Rock Creek Augmentation Project
11	("Project").
12	PROFESSIONAL BACKGROUND
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1314151617	3. Q: Please summarize your professional background. A: I have over ten years of experience in the areas of water resources management and planning, with a more recent emphasis on integrated management of groundwater and surface water resources. My specific technical expertise lies in groundwater flow modeling, hydrology, hydrogeology, and related statistical analysis of hydrologic data.
13 14 15 16 17	3. Q: Please summarize your professional background. A: I have over ten years of experience in the areas of water resources management and planning, with a more recent emphasis on integrated management of groundwater and surface water resources. My specific technical expertise lies in groundwater flow modeling, hydrology, hydrogeology, and related statistical analysis of hydrologic data. A complete copy of my <i>curriculum vitae</i> is included in Exhibit N20022.
13 14 15 16 17 18	 3. Q: Please summarize your professional background. A: I have over ten years of experience in the areas of water resources management and planning, with a more recent emphasis on integrated management of groundwater and surface water resources. My specific technical expertise lies in groundwater flow modeling, hydrology, hydrogeology, and related statistical analysis of hydrologic data. A complete copy of my <i>curriculum vitae</i> is included in Exhibit N20022. Q: What is integrated water management?

Republican River.

- 1 5. Q: What is your educational background?
- A: I hold a Ph.D. in Geology (May 2003) from the University of South Florida; an M.S.
- 3 in Geology (May 1998) from Northern Illinois University; and a B.S. in Geology (May
- 4 1996) from Northern Illinois University.
- 5 G. Q: Have you authored any publications?
- A: I have authored peer-reviewed publications and presented original material at various
- 7 conferences and meetings on issues related to groundwater modeling and the
- 8 management of integrated water resources.
- 9 7. Q: What is your present position?
- A: Since 2010, I have been the Deputy Director of the Nebraska Department of Natural
- 11 Resources ("DNR").
- 12 8. Q: What are your basic duties in that role?
- 13 A: In that capacity, I advise and assist the DNR's Director in formulating and
- administering department policies, budgets, organization, and work assignments. I also
- facilitate development of state water policies, particularly as they pertain to water
- quantity issues, including serving as liaison with the legislature, Federal agencies, other
- 17 State and local agencies, and public interest groups. Of particular relevance to this case, I
- assist the Director in the administration of interstate compacts and decrees, including the
- 19 Republican River Compact ("Compact").
- 9. Q: What are some key issues you address in the Republican River Basin?
- A: One of my primary responsibilities in the Republican River Basin ("Basin") is the
- development and implementation of Integrated Management Plans ("IMPs"). Simply
- put, IMPs, and the controls contained within those plans, are the primary means by which
- Nebraska ensures compliance with the Compact. These plans are jointly developed with

- the Basin natural resources districts ("NRDs") and establish the actions that will be taken
 to limit and/or offset Nebraska's consumptive uses in the Basin as required by the
 Compact and the Final Settlement Stipulation ("FSS").
 - 10. Q: What do the IMPs have to do with these proceedings?

- A: The IMPs are based, in large part, on the terms of the FSS. The FSS contemplates the implementation of augmentation projects as a means for Compact compliance. Not surprisingly, therefore, the IMPs specifically contemplate the potential for stream augmentation as one potential management activity that could be used to ensure Compact compliance. Copies of the IMPs are attached to the Alternative Water-Short Year Plan. See N25001.
 - 11. Q: Do you interact with the Republican River Compact Administration?
- A: Yes. For example, I serve as Nebraska's representative on technical committees, including the Republican River Compact Administration's ("RRCA") Engineering Committee. I also oversee the technical work of consultants and prepare special reports related to surface water and groundwater interactions.
 - 12. Q: What did you do before you were made Deputy Director?
 - A: Prior to my service as Deputy Director, from 2008 through 2009 I served as the Head of the DNR's Integrated Water Management Division. In that capacity, my responsibilities included management of the integrated water management planning process at the DNR. This included oversight of surface water and groundwater related studies, development and implementation of IMPs, supervision of the Integrated Water Management Division and coordination with other DNR Divisions, NRDs, and other State and Federal agencies.
 - 13. Q: Do you have experience with groundwater models?

A: Yes. I have approximately fifteen years of experience developing and applying various groundwater models. Most recently, before I was made Head of the DNR's Integrated Water Management Division, I worked for the DNR as a Senior Groundwater Modeler. This role required me to model and analyze various management scenarios, including scenarios that might be applied in the Basin. I relied primarily on the RRCA Groundwater Model (the "Model"). The analyses I conducted for these proceedings also rely on the Model.

DEVELOPMENT OF THE ROCK CREEK AUGMENTATION PROJECT AND PLAN

14. Q: Please describe your understanding of the history of the Project.

A: While the potential for streamflow augmentation has been studied to varying degrees for some time, following adoption of the revised IMPs in 2010, the Upper Republican NRD ("URNRD") began to pursue the development of an augmentation project for the purpose of offsetting any potential depletions during an upcoming Compact Call Year as specified in those IMPs. Such a project would be able to limit or eliminate the otherwise required curtailment of groundwater wells in an area designated the Rapid Response Region during Compact Call Years (i.e., the curtailment of wells provides the required offsets in lieu of other management actions).

15. O: What interaction did the DNR have with the URNRD?

A: Early in 2011, the URNRD contacted the DNR to discuss a potential project in the Rock Creek subbasin. The general concept was to acquire a property that was then currently on the market, retire the irrigation that occurred on the property, and use the same irrigation source (i.e., the aquifer) as a source for augmentation pumping. The water would then be delivered to Rock Creek via an augmentation pipeline.

16. Q: Did DNR and the URNRD expect to receive augmentation credit immediately through the RRCA?

- A: While both DNR and the URNRD understood that the FSS provided for a full augmentation credit (as opposed to a simple increase in the Virgin Water Supply and allocations) after the RRCA approved an augmentation plan, it was also recognized that such a credit may not be available immediately. This understanding was generally based on the long process for approval by Kansas of the Colorado Compliance Pipeline, which to date has not been approved and is currently subject to a second non-binding arbitration proceeding.
 - 17. Q: Given that history, did the URNRD seek some assurance from DNR?
 - A: The URNRD requested that DNR provide some level of assurance as to the short-term benefits of the project in the absence of an approved augmentation plan before it proceeded with the project. In January 2011, I provided what I would characterize as a generic analysis of the potential benefits of an augmentation project in the Rock Creek subbasin. See N20003. I attempted to make a conservative analysis to ensure that I did not overstate the potential benefits of the Project. It included a non-exclusive example of the potential benefits of such a project absent an approved augmentation plan. It was not intended to limit the URNRD's options in terms of operations or protocols.
 - 18. Q: What did the URNRD do with that information?
- A: The URNRD proceeded to acquire the land in the Rock Creek subbasin (See N20021,
- Page 23 of 102), and to design and construct the Project. The URNRD provided the
- necessary details on the project to DNR for the development of the Plan.
- 23 19. Q: Once the URNRD commenced developing the project, how did Nebraska 24 proceed before the RRCA?

- A: At the annual meeting of the RRCA in August of 2011, Nebraska came forward to request that the RRCA develop a framework for augmentation plans that it could then follow in developing the Plan. The RRCA assigned this to the Engineering Committee as part of the committee's assignments for that year. During this time period, the State of Kansas was chair of both the RRCA and the Engineering Committee and responsible for organizing meetings and coordinating the work of the committee. While there were several conference call meetings that occurred during the spring and summer of 2012, no progress was made on this assignment.
- 9 20. Q: Given the Engineering Committee's inertia, what did you do?

- A: In these meetings I repeatedly explained that Nebraska needed to understand what Kansas would accept in an augmentation plan. Nebraska received no feedback until just before that annual meeting in October of 2012. At that time Kansas supplied a non-exhaustive list of requirements, many of which had no cited foundation in the FSS or elsewhere. A copy of that list is N20024.
 - 21. Q: How did Nebraska respond to that list?
- A: Frustrated by these efforts to work collaboratively with Kansas, Nebraska proceeded to develop a framework based on the explicit language of the FSS and requested a special meeting of the RRCA to discuss this framework. A copy of that framework is N20025. That meeting was held on December 11, 2012. After discussion Nebraska requested timely feedback from the States during the meeting.
- 22. Q: Did you receive any constructive feedback?
- A: No. Kansas eventually provided a "brief response" by raising various issues and providing a list of topics for Nebraska to address that would "begin" to address those

- issues. Most notably, Kansas indicated that they would need to know the details for a
- 2 specific augmentation project to fully comment. A copy of that letter is N20026.
- 3 Q: Did you provide those details?
- 4 A: Yes. Nebraska developed the Plan and submitted it to the RRCA for action. All the
- 5 details required by the FSS are contained in the Plan.
- 6 24. Q: Did you make any other efforts to address Kansas' concerns?
- A: Yes. Representatives of DNR travelled to Topeka, Kansas, March 1, 2013, for an
- 8 RRCA Workshop, in which the RRCA members typically attempt to address technical
- 9 issues. Prior to the Workshop, Kansas, as chair of the RRCA, sent out a proposed
- agenda. See N20030. After reviewing the agenda, Nebraska informed Kansas that it
- 11 could find no foundation in the Compact or the FSS for many of the issues found on that
- agenda. A copy of that letter is N20027.
- 13 25. Q: What happened next?
- A: At the workshop, Kansas did not identify any foundation in the Compact or the FSS
- for the additional issues Kansas wanted the Plan to address. Thus, those issues were not
- discussed. However, there was considerable discussion of the remaining agenda items.
- 17 26. Q: What did the RRCA ultimately do with the Plan?
- A: In a subsequent special meeting of the RRCA on March 8, 2013, Nebraska offered a
- resolution for adoption of the Plan by the RRCA. A copy of that Resolution is N20028.
- Nebraska and Colorado voted in favor of the Plan, Kansas voted against the Plan. This
- 21 two-one outcome has become commonplace, with Kansas' dissenting vote leading to five
- currently pending arbitrations issues.
- 23 27. Q: Then what happened?

1 A: Thereafter Nebraska submitted the Plan to non-binding arbitration pursuant to the 2 dispute resolution procedures of the FSS. TECHNICAL DETAILS OF THE PLAN 3 4 28. Q: Please describe generally the details of the Plan. 5 A: DNR developed the Plan consistent with the straightforward methodologies of the RRCA Accounting Procedures and Reporting Requirements ("Accounting Procedures"). 6 7 The groundwater pumping from the augmentation wells is incorporated into the Model to 8 assess any depletions caused by this pumping. See N20021, Page 6 of 102. Whereas 9 historical irrigation pumping was only 80% consumptive, with the remaining 20% of the 10 water returning to the aquifer as recharge, the full augmentation pumping would be 11 represented in the Model with no portion of this water returning to the aguifer as 12 recharge. 13 29. Q: How is the Augmentation Credit determined? 14 A: Determining the Augmentation Water Supply ("AWS") Credit is then a simple matter 15 of measuring the water that is discharged to Rock Creek. See N20021, Page 6 of 102. 16 The Plan then modifies the Accounting Procedures so that the AWS Credit is subtracted 17 from the gaged flows in the determination of the Virgin Water Supply. 18 appropriate as any losses of the AWS in Rock Creek appear to be de minimis. See 19 N20022, Page 9 of 53. 20 30. Q: How do you account for the AWS Credit under the Plan? 21 A: The AWS Credit is then combined with the Imported Water Supply Credit as offsets 22 against Nebraska's Computed Beneficial Consumptive Use in the various accounting 23 tests included in the FSS. See N20021, Pages 9-10 of 102.

31. Q: Does the Plan have a mechanism for preventing "new net depletions" as required by the FSS?

A: Yes. The Plan includes a process for meeting the requirement of no new net depletions for augmentation wells as required by the FSS. While the Project did involve the retirement of a considerable amount of irrigated acreage, the anticipated pattern and level of pumping under the Plan varies from that which occurred historically on those lands. See N20021, Pages 5-6 of 102. Specifically, the project would be operated at pumping rates much greater than average annual historical rates in those years when it was needed for Compact compliance (termed Compact Operations Years in the Plan), and operated at the lowest possible level in intervening years. See N20021, Pages 5-9 of 102. While the Project was designed and located such that any increase in depletions (i.e., new depletions) resulting from these operations would be very minimal, as is apparent from the technical analysis provide in the Plan, there is the potential for very minimal new depletions to occur. See N20021, Pages 15, 18-19 of 102.

- 32. Q: Don't you need to do something to prevent even those minimal depletions?
- A: Yes, they are addressed in the Plan by incorporating what is called Maintenance Operations in the years between Compact Operations Years. See N20021, Pages 5-6 of 102. Based on the analyses included in the Plan, a minimum of 300 acre-feet (or 0.41 cubic feet per second if delivered at a constant rate over the year) would be delivered in Maintenance Operations Years. See N20021, Page 9 of 102.
- 33. Q: What if your modeling is later determined to be off a bit?
- A: Nebraska would conduct annual Model runs to be shared with the other States to determine if that amount would need to increase in the future. See N20021, Page 9 of 102. If the new depletions resulting from the project ever increase to a value greater than

1 300 acre-feet, Nebraska will increase the Maintenance Operation delivery accordingly. 2 The analyses included in the Plan indicate that Maintenance Operations at a level of 3 300 acre-feet should be sufficient for at least the next 60 years. See N20021, Pages 18-19 4 of 102. 5 34. Q: Is the Plan intended to limit or constrain the operation of the Project? 6 A: No. The Plan provides an example of the accounting method that would be used to 7 quantify the AWS Credit. The Project will be operated based on the forecast needs to 8 ensure Compact compliance. The Plan, however, identifies 20,000 acre-feet as the 9 annual maximum amount that could be pumped for augmentation purposes based on the 10 plant and equipment constructed for the Project. See N20021, Page 7 of 102. Thus, for 11 purposes of the Plan, Nebraska's maximum AWS Credit in one year could not exceed 12 20,000 acre-feet. KANSAS' CONCERNS REGARDING THE PLAN ARE NOT VALID 13 14 35. Q: Please describe your understanding of Kansas' criticisms of the Plan. 15 A: Kansas believes that the Plan should account for transit losses, both within the Rock 16 Creek subbasin and downstream, by attempting to route the flows through the streamflow 17 package of the Model. O: Would you recommend an analysis of transit losses within the Rock Creek 18 36. 19 subbasin? 20 A: Yes. I have analyzed that issue with direct observations, and concluded that the 21 transit losses are *de minimis*. See N20022, Pages 8-9 of 53. 22 37. Do you believe the Model must be used to calculate transit losses? O: 23 A: In my professional opinion, the Model is not a proper tool to estimate transit losses.

See N20022, Pages 9-10 of 53. The Model was not constructed for or calibrated for this

purpose. Furthermore, as discussed previously, losses in the Rock Creek subbasin appear 2 to be de minimis if they exist at all. This conclusion is based on the examination of actual 3 data, not the artifact of a Model simulation. 4 38. Q: But, why not just use the Model as Kansas suggests to determine transit losses 5 downstream of the Rock Creek subbasin associated with the operation of the Project? 6 A: After the water passes the streamgage in the Rock Creek subbasin, it should be 7 treated in a manner consistent with all other surface water that flows past any of the 8 subbasin streamgages into the Mainstem of the Republican River. Currently, the 9 Accounting Procedures do not assess any transit losses to any of this water. See N20022, 10 Pages 10-11 of 53. Rather, the assumption implicit in the Accounting Procedures is that 11 all of this water shows up at a downstream gage (e.g., the Hardy gage at the Kansas – 12 Nebraska stateline) or is otherwise consumptively used. It would be improper to assess 13 transit losses to the augmentation water in the Mainstem if all other surface water flowing 14 into the Mainstern from the subbasins, including other water from the Rock Creek 15 subbasin, is not assigned any transit losses. Conversely, if the augmentation water should 16 be assigned transit losses in the Mainstem, then the RRCA should develop consistent 17 methodologies to assign transit losses to all subbasin water flowing through the Mainstem 18 and incorporate those methods into the Accounting Procedures. 19 39. O: Has Kansas cited other concerns? 20 A: Kansas also feels that the operation of the augmentation project under the Plan should

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A: No. In this case Kansas seems to be relying on some undocumented belief regarding the intent of the "no new net depletion" requirement. The simple answer to this is that if

Q: Does that concern have any foundation in the FSS?

be limited to the historical consumptive use of the lands retired as part of the project.

the FSS was intended to include such a limitation, it would say exactly that. Rather, instead of using a term that is defined in the FSS (Historical Consumptive Use), the limitation imposed on augmentation wells is "no new net depletions" which is not defined. See N20022, Pages 13-15 of 53. The Plan incorporates a process to ensure that there will not be any new net depletions either annually or long-term, consistent with the explicit requirements of the FSS.

41. Q: Doesn't Kansas also claim that the Rock Creek Project can only be operated for Compact compliance?

A: Yes, and I don't really see the point of that concern, as wet water should generally help Kansas. But, in any event, operation of the Project will always be for the purposes of offsetting stream depletions in order to achieve Compact compliance. See N20022, Pages 15-17 of 53. Given that all Compact accounting is conducted on rolling averages, all water would be beneficial for Compact compliance. I cannot see any scenario wherein operation of the Project would not be for Compact compliance purposes.

42. Q: What about the notion of a temporal limit on the duration of the Plan?

A: A multi-million dollar investment has been made in this case. We cannot set up roadblocks to wise water management. Neither URNRD, nor any other NRD, will likely be willing to spend significant resources on projects that have only fleeting benefit. This is especially true in the Republican River Basin, where there is so little good faith shown by Kansas. See N20022, Pages 18-20 of 53. Once the Plan is approved, it should not expire. However, Nebraska would concede to a built-in review of the Plan after 20 years that would afford the RRCA an opportunity to discuss whether any revisions to the Plan would be appropriate at that time. However, I would note that the annual accounting

1 process affords Kansas with the opportunity to raise concerns regarding the operation or 2 reporting under the Plan on an annual basis. 3 43. Q: Is Nebraska willing to make any other concessions if it would ensure Kansas' 4 affirmative vote? 5 A: Nebraska would concede that the AWS Credit should be limited to that portion of the 6 augmentation pumping in excess of any new depletions for a given year. However, your 7 caveat is important: We would only do this if it ensured an affirmative vote. 8 44. Q: In your professional opinion, is the Plan in conformance with the FSS and the 9 Compact with regard to any required temporal limits, RRCA review, and its reporting 10 requirements? 11 A: Yes. 12 45. Q: Will the project adversely affect Kansas water users? 13 A: It is very hard for me to conceive of a scenario where introducing wet water to the 14 Basin will harm Kansas water users. Nevertheless, Kansas has raised a final concern 15 regarding the usability of its Compact allocations, a matter the Compact is generally 16 silent about. It appears to me that this concern is really rooted in philosophical objections 17 to the practice of stream augmentation. Given the reregulation afforded to Kansas water 18 users by Harlan County Lake, I can conceive of no scenario that would affect the 19 usability of Kansas' Compact allocations for their water users outside of actions taken by 20 Kansas that are in conflict with the interests of its own water users. 21 46. Q: On what do you base that view? 22 A: Well, in fact this year, Nebraska water management generated additional water for

Compact compliance purposes that was re-regulated through Harlan County Lake for the

1	benefit of Kansas Bostwick Irrigation District ("KBID"). See N20022, Page 13 of 53.
2	The augmentation water from Rock Creek was a large part of those activities.
3	CONCLUSIONS
4	47. Q: Please summarize your conclusions about the Plan.
5	A: The Plan as presented to the RRCA fulfills all requirements set forth in the plain
6	language of the FSS and should be approved. While not necessary to bring the Plan in
7	conformance with the FSS, Nebraska would concede two minor modifications as
8	discussed above and in my Response Report. See N20022, Page 21 of 53.
9	48. Q: Do you think it will help to make these concessions?
10	A: I doubt it. Kansas has demonstrated, through its actions with regard to the Plan and
11	with other actions regarding other RRCA business, that neither Nebraska nor Colorado
12	should ever expect productive discussions with Kansas in any regard. Furthermore
13	Kansas' objections to the Plan appear to be geared toward levying some type of
14	punishment on Nebraska for utilizing the practice of stream augmentation, despite its
15	express reference in the FSS. See N20022, Page 18 of 53. I find this ironic given the
16	depletions of the Ogallala Aquifer throughout Kansas. See N20029. None of Kansas
17	objections have any grounds in the plain language of the FSS. Therefore, they should no
18	be afforded any weight in any examination of the merits of the Plan.
19	
20	I declare under penalty of perjury that the foregoing is true and correct.
	Executed this 2/3 day of August, 2013.

James C. Schneider, Ph.D.

Respectfully submitted this 21st day of August, 2013.

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NEBRASKA'S ALTERNATIVE WATER SHORT YEAR PLAN and NEBRASKA'S ROCK CREEK AUGMENTATION PLAN

CERTIFICATE OF SERVICE

I, Justin D. Lavene, Assistant Attorney General for the State of Nebraska in the above-captioned matter, hereby certify that on August 21, 2013, I made service of the **DIRECT TESTIMONY OF DR. JAMES C. SCHNEIDER, PH.D., RE NEBRASKA'S ROCK CREEK AUGMENTATION PLAN**, by causing a paper copy and an electronic copy to be delivered by UPS Overnight Mail and/or electronic mail pursuant to Section E of the Arbitration Agreement and Paragraph 8 of the Arbitrator's Pre-Hearing Order on the following:

Jeffrey C. Fereday, Arbitrator

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