



#### United States Department of the Interior



NK-100 WTR-4.03 BSW BUREAU OF RECLAMATION
Great Plains Region
Nebraska-Kansas Area Office
P.O. Box 1607
Grand Island, Nebraska 68802-1607

JUN 2 8 2007

**RECEIVED** 

JUL 02 2007

DEPARTMENT OF NATURAL RESOURCES

Mike Delka, Manager Bostwick Irrigation District in Nebraska P. O. Box 446 Red Cloud, NE 68970-0446

Kenneth Nelson, Superintendent Kansas Bostwick Irrigation District No. 2 P. O. Box 165 Courtland, KS 66939-0165

Subject: Amendment No. 3 to Memorandum of Agreement – Bostwick Division, Pick-Sloan Missouri Basin Program, Nebraska and Kansas

Dear Messrs. Delka and Nelson:

Enclosed for your records is a fully executed duplicate original Amendment 3 - "Amendment to Memorandum of Agreement Between the Bostwick Irrigation District in Nebraska and Kansas-Bostwick Irrigation District No. 2," dated June 21, 2007.

If you have any questions or need additional information, please contact me at the above address or telephone 308-389-5304 or Marv Swanda at our McCook Field Office, telephone 308-345-1027.

Sincerely,

Stephén F. Ronshaugen

Acting Area Manager

Enclosure

cc: Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, 109 SW 9<sup>th</sup> Street, 2<sup>nd</sup> Floor, Topeka, KS 66612-1283
Ann Bleed, Director of Natural Resources, PO Box 94676, Lincoln, NE 68509-4676 Lee Orton, Attorney, 1233 Lincoln Mall, Suite 201, Lincoln, NE 68508 (all w/enclosure)

#### **DUPLICATE ORIGINAL**

## AMENDMENT TO MEMORANDUM OF AGREEMENT BETWEEN THE BOSTWICK IRRIGATION DISTRICT IN NEBRASKA AND KANSAS-BOSTWICK IRRIGATION DISTRICT NO. 2

#### WITNESSETH:

WHEREAS, the following statements are made by way of explanation:

- a. Kansas-Bostwick Irrigation District No. 2, party of the first part, and the Bostwick Irrigation District in Nebraska, party of the second part, during Board of Directors meetings for each of the respective Districts executed the "Memorandum of Agreement between the Bostwick Irrigation District in Nebraska and Kansas-Bostwick Irrigation District No. 2" dated October 4, 2000.
- b. The "Memorandum of Agreement between the Bostwick Irrigation District in Nebraska and Kansas-Bostwick Irrigation District No. 2" was amended on March 5, 2002, to provide a more accurate and comprehensive description of the water supply facilities covered by the Agreement.
- c. The "Memorandum of Agreement between the Bostwick Irrigation District in Nebraska and Kansas-Bostwick Irrigation District No. 2" was amended on May 18, 2006 to provide for appropriate accounting and delivery of water during the 2006 irrigation season.
- d. To provide for appropriate accounting and delivery of water during the 2007 irrigation season, certain provisions of the Agreement needs to be amended to reflect procedures to be followed for the 2007 irrigation season, therefore the "Memorandum of Agreement between the Bostwick Irrigation District in Nebraska and Kansas-Bostwick Irrigation District No. 2" is hereby amended as follows:

NOW, THEREFORE, in consideration of the premises and of the mutual covenants herein set

out, it is agreed as follows:

- 1. The following shall be substituted for the existing Article 3. G. for the 2007 irrigation season ONLY:
- 3. G. The Bostwick Irrigation District in Nebraska agrees before the start of the irrigation season to relinquish the rights to the use of 12,500 acre-feet of storage water to be used on Kansas-Bostwick Irrigation District No. 2 project lands. For purposes of this agreement for the 2007 irrigation season only, "irrigation season" and "water supply" as used herein are defined as follows:
- (1) "Water Supply" shall be 12,500 acre-feet of storage water allocated to the Bostwick Irrigation District in Nebraska in its water storage account at Harlan County Lake as calculated and published by Reclamation for 2007 according to the Harlan County Lake Operation Consensus Plan (hereinafter "Consensus Plan"), and natural flow that may become available for diversion at the Superior-Courtland Diversion Dam during the Irrigation Season.
- (2) "Irrigation Season" shall mean the date beginning with the commencement of water deliveries for direct irrigation at the Superior-Courtland Diversion Dam and ending on the date of the last water delivery for direct irrigation, which date shall be no later than September 1, 2007.
  - 2. The following shall be substituted for the existing Article 2. as it applies to the 2007 irrigation season ONLY:
    - 2. To the allocation and payment of irrigation's share of the Corps of Engineers' operation, maintenance and replacement cost-associated with Harlan-County Damand Harlan County Lake based on the most recent three-year moving average of each District's total diversions as established by Reclamation. (See the spreadsheet attached hereto and made a part hereof as Attachment A for prior year computations and procedures for computing individual District percentages.)
    - a. For purposes of this agreement for the 2007 irrigation season, the Bostwick Irrigation District in Nebraska's 2007 diversions to be recorded on Attachment A, will be computed assuming that the Bostwick Irrigation District in Nebraska had diverted the above referenced 12,500 acre-feet of Bostwick Division water supply into the Superior Canal. In addition, commencing with water deliveries for direct irrigation at the Superior-Courtland Diversion Dam and ending no later than September 1, 2007, the available natural flow at Superior-Courtland Diversion Dam will be apportioned as described in Attachment B of this Memorandum of Agreement. The accounting for the Bostwick Irrigation District in Nebraska's use of the above referenced 12,500 acre-feet of storage waters from Harlan County Lake will begin with the commencement of releases

from Harlan County Lake for Kansas-Bostwick Irrigation District No. 2 and end when storage releases from Harlan County Lake for Kansas-Bostwick Irrigation District No. 2 have ceased for the season or September 1, 2007, whichever is earlier. The accounting for any diversions at Superior-Courtland Diversion Dam subsequent to September 1, 2007 will be based on the historical methods used in prior years and recorded on said Attachment A.

b. For purposes of this agreement in 2007, Kansas-Bostwick Irrigation District No. 2's total diversions to be recorded on Attachment A, will be computed as follows: Kansas-Bostwick Irrigation District No. 2's actual diversions during 2007, as accounted for by Reclamation, LESS any diversions resulting from the purchase and or lease of irrigation water supplies from the Frenchman-Cambridge, Frenchman Valley and Riverside Irrigation Districts for the benefit of Kansas Bostwick Irrigation District, LESS the Bostwick Irrigation District in Nebraska's 2007 diversions to be recorded on Attachment A as provided in Article 2.a. above.

- 3. For purposes of this agreement in 2007, it is agreed that the irrigation waters being supplied to Kansas-Bostwick Irrigation District No. 2 will be utilized in the following order of priority by Kansas Bostwick Irrigation District No. 2:
  - a. Natural flow that may become available for diversion at the Superior-Courtland Diversion Dam during the Irrigation Season purchased or leased from Bostwick Irrigation District in Nebraska;
  - b. Any irrigation water resulting from the purchase and or lease of irrigation water supplies from the Frenchman Valley and Riverside Irrigation Districts for the benefit of Kansas-Bostwick Irrigation District No. 2,
  - c. Any irrigation water resulting from the purchase and or lease of irrigation water supplies from the Frenchman-Cambridge Irrigation District for the benefit of Kansas-Bostwick Irrigation District No. 2,
  - d. The 12,500 acre-feet of storage water allocated to the Bostwick Irrigation District in Nebraska in its water storage account at Harlan County Lake as calculated and published by Reclamation for 2007 according to the Harlan County Lake Operation Consensus Plan (hereinafter "Consensus Plan"),
  - e. Storage water allocated to the Kansas-Bostwick Irrigation District No. 2 in its water storage account at Harlan County Lake as calculated and published by Reclamation for 2007 according to the Harlan County Lake Operation Consensus Plan (hereinafter "Consensus Plan").
- 4. For purposes of this agreement in 2007, the delivery, protection, and accounting of the irrigation water supplies from the Frenchman-Cambridge Irrigation District for the benefit of Kansas-Bostwick Irrigation District No. 2 will be as directed by the Nebraska Department of Natural Resources, pursuant to applicable state laws and regulations. However, the United States desires to reserve the right to protect its

property interests if the delivery, protection, and accounting of the assigned water by the Nebraska Department of Natural Resources appears to reduce or diminish the water use benefits of the Bostwick Irrigation District in Nebraska's water supply that they would have received as a result of normal irrigation water deliveries from Harry Strunk Lake.

- 5. For purposes of this agreement in 2007, should any of the above referenced irrigation water resulting from the purchase and or lease of irrigation water supplies from the Frenchman-Cambridge Irrigation District for the benefit of Kansas-Bostwick Irrigation District No. 2 remain in Harlan County Lake at the end of the 2007 irrigation season, such amount less an appropriate reduction for losses associated with that storage, will be available for the exclusive use of the Kansas-Bostwick Irrigation District in water year 2008. However, should Harlan County Lake fill subsequent to the 2007 irrigation season, any flood storage releases made from Harlan County Lake will be subtracted from the exclusive use carryover storage available to Kansas-Bostwick Irrigation District as described above.
- 6. For purposes of this agreement in 2007, should any of the above referenced 12,500 acre-feet of storage water purchased and or leased by Nebraska Department of Natural Resources from the Bostwick Irrigation District in Nebraska for the benefit of Kansas-Bostwick Irrigation District No. 2 remain in Harlan County Lake at the end of the 2007 irrigation season, such amount less an appropriate reduction for losses associated with that storage, will be available for the exclusive use of the Kansas-Bostwick Irrigation District in water year 2008. However, should Harlan County Lake fill subsequent to the 2007 irrigation season, any flood storage releases made from Harlan County Lake in excess of the exclusive use carryover storage referenced in Article 5 above, will be subtracted from the exclusive use carryover storage available to Kansas-Bostwick Irrigation District as described above.

EXCEPT AS PROVIDED HEREIN, all other terms and conditions of the "Memorandum of Agreement between the Bostwick Irrigation District in Nebraska and Kansas-Bostwick Irrigation District No. 2" shall remain in full force and effect.

BOARD OF DIRECTORS

Kansas-Bostwick Irrigation District No. 2

Gary L. Housholder President

BOARD OF DIRECTORS
Bostwick Irrigation District in Nebraska

Walter Knehans

President

Brad D. Peterson	Secretary	James Miller	Nilly VPres./Sec
Most & Dale			T
Monty D. Dahl	Treasurer	Rodney Ely	Treasure

APPROVED:

BUREAU OF RECLAMATION Nebraska-Kansas Area Office

Stephen F. Ronshaugen Acting Area Manager

# COST DISTRIBUTION PERCENTAGES

Corps of Engineers

1996 1984 1990 1980 386 \* Annual diversions were estimated based on the procedure outlined in the amendment to the MOA between the two districts dated May 18th, 2006. These ATTACHMENT 59.2% 58.7% 81.9% 58.8% 61.0% %9:09 59.0% %9.99 57.6% 58.6% %0.09 1%6.09 55.4% 57.4% 60.3% 58.4% 55.8% 57.4% 58.0% 62.2% 62.9% 62.0% 60.8% 55.6% %9.09 62.3% Distribution 33.4% 26.0% 44.4% 44.4% 42.6% 39.4% 40.0% 37.8% 40.8% 41.4% 41.0% 37.1% 41.2% 44.6% 42.6% 42.4% 41.3% 39.1% 39.7% 37.7% 37.8% 39.2% 39.0% 38.0% 42.0% 41.7% 46.6% Nebraska 39.4% Percentage 41.6% 3-Year 420,039 400,576 374,868 392,122 235,177 322,991 385,381 382,649 354,197 384,164 392,395 272,643 317,164 427.605 Diversions 388,796 151,172 387,610 339,948 394,808 344,003 220,538 107,651 309,772 325,639 198,157 409,254 391,053 372,918 Total
Annual 45,794 48,260 126,484 120,926 116,497 127,670 128,492 135,960 142,420 118,706 38,446 106,212 136,202 36,713 99,579 121,365 163,153 90,345 117,154 114,515 22,746 104,103 81,967 152,495 138,850 142,967 111,884 127,798 132,384 177,291 104,204 80,577 HARLAN COUNTY DAM 221,861 Diversions 181,948 88,160 165,342 230,082 202,587 203,061 250,694 240,495 198,525 211,426 213,556 196,798 226,674 225,955 114,975 223,348 226,620 193,078 239,530 213,433 181,462 234,492 210,335 270,106 187,289 228,387 (3) can be found in Table 6 of AOP 20,323 30,542 71,277 72,700 72,634 75,370 80,163 110,406 59,353 83,490 52,661 60,331 69,133 67,334 68,414 80,129 71,942 74,549 30.91353,191 66,436 95,161 84,092 64,110 80,12679,574 83,964 90,207 80,909 71,009 50,635 56,927 19,491 158,209 152,865 107,301 135,216 153,007 162,040 172,015 169:093 157,399 168,134 130,570 164,262 162,176 3-Year Diversions 158,486 139,134 119,930 83,182 98,396 162,666 116,694 150,889 76,911 162,583 157,467 124,000 Bostwick in Nebraska Data to fill in columns (1) and 39,993 25,471 17,718 55,207 62,291 67,992 48,226 43,863 53,122 55,797 28,776 4,712 8,979 5,80058,665 56,204 52,810 52,238 58,875 51,553 48,740 46,764 ► Diversions 48,713 50,356 33,418 55,360 27,916 39,776 66,885 47,181 53,121 62,288 41,837 Revised: 12/19/2006 1992 1993 1995 1998 1999 2000 2002 2003 1989 1990 1991 1994 1996 2001 1983 1985 1986 1988 1997 1972 1974 1975 1976 1<u>977</u> 1<u>978</u> 1979 1982 1984 1987 Year 1973 -1980 1981

2006 irrigation season

procedures assume that NE Bostwick utilized their share of the available water supply in Superior Canal. NE Bostwick did not actually divert water during the



#### United States Department of the Interior



NREPLY REFER TO: NK-100 WTR-4.03 FRC BUREAU OF RECLAMATION
Great Plains Region
Nebraska-Kansas Area Office
P.O. Box 1607
Grand Island, Nebraska 68802-1607

JUN 2 8 2007

**RECEIVED** 

JUL 02 2007

DEPARTMENT OF NATURAL RESOURCES

Roy Patterson, Superintendent Frenchman-Cambridge Irrigation District PO Box 116 Cambridge, NE 69022

Subject: Temporary Assignment of Project Water - Frenchman-Cambridge Irrigation

District, Frenchman-Cambridge Division, Pick-Sloan Missouri Basin Program,

Nebraska

Dear Mr. Patterson:

Enclosed for your records is a fully executed duplicate original "Temporary Assignment of Project Water from Frenchman-Cambridge Irrigation District to Kansas-Bostwick Irrigation District No. 2," dated June 21, 2007.

Also enclosed for your information is a copy of the June 21, 2007 letter from Ann Bleed, Director of the Nebraska Department of Natural Resources, which describes the procedure that will be used to account for water that will be available for use by Kansas as a result of the Republican River Basin Coalition agreements with Frenchman Valley, Riverside, and Frenchman-Cambridge Irrigation Districts.

If you have any questions or need additional information, please contact me at the above address or telephone 308-389-5304 or Marv Swanda at our McCook Field Office, telephone 308-345-1027.

Sincerely,

Stephen F. Ronshaugen

Acting Area Manager

Enclosures

cc: Dale Cramer, President Frenchman-Cambridge Irrigation District 71293 Road 409 Cambridge, NE 69022

Merlin Brown, Vice-President Frenchman-Cambridge Irrigation District 71255 Road 385 McCook, NE 69001

Steve Henry, Secretary/Treasurer Frenchman-Cambridge Irrigation District PO Box 540 Arapahoe, NE 68922

Stan Goodwin Attorney at Law PO Box 607 McCook, NE 69001

Lee Orton, Attorney 1233 Lincoln Mall, Suite 201 Lincoln, NE 68508

Ann Bleed
Director of Natural Resources
PO Box 94676
Lincoln, NE 68509-4676
(all w/enclosures)

#### Temporary Assignment No. 1 Contract No. 009D6B0122

#### **DUPLICATE ORIGINAL**

### UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF RECLAMATION PICK-SLOAN MISSOURI BASIN PROGRAM

## TEMPORARY ASSIGNMENT OF PROJECT WATER FROM FRENCHMAN-CAMBRIDGE IRRIGATION DISTRICT CONTRACT NO. 009D6B0122 TO KANSAS-BOSTWICK IRRIGATION DISTRICT NO. 2 CONTRACT NO. 009D6B0120

THIS Assignment made this day of day of day of day of day of supplementary thereto, all collectively hereinafter referred to as the Federal Reclamation laws, between the UNITED STATES OF AMERICA, hereinafter called the "United States" acting through the Secretary of the Interior; the Frenchman-Cambridge Irrigation District, hereinafter called the "FCID", an irrigation district organized and existing pursuant to the laws of the State of Nebraska, with its principal place of business and office at Cambridge, Nebraska; Kansas-Bostwick Irrigation District No. 2, hereinafter called the "KBID"; an irrigation district organized and existing pursuant to the laws of the State of Kansas, with its principal place of business and office at Courtland, Kansas; and the Republican River Basin Coalition, hereinafter called the "Coalition", established under the laws of the State of Nebraska, particularly Sections 13-801 et.seq. RRS, Nebraska. The United States, the above districts, and the Coalition hereinafter are referred to collectively as the "Parties".

- a. WHEREAS, the United States has constructed the Frenchman-Cambridge Division of the Pick-Sloan Missouri Basin Program (P-SMBP), Nebraska, and the Bostwick Division of the P-SMBP, Kansas, pursuant to the Act of December 22, 1944 (58 Stat. 887), as set forth in House Document 475 and Senate Document 191, as revised and coordinated by Senate Document 247, 78<sup>th</sup> Congress, Second Session, to provide benefits for irrigation, flood control, sediment control, fish and wildlife enhancement, and recreation; and
- b. WHEREAS, the United States and the FCID have entered into Contract No. 009D6B0122, dated July 25, 2000 for the furnishing of a project water supply, repayment and Operation, Maintenance and Replacement (OM&R) of the project water supply and distribution system; and

- c. WHEREAS, the United States and KBID have entered into Contract No. 009D6B0120, dated July 25, 2000 for the furnishing of a project water supply, repayment and OM&R of the project water supply and distribution system; and
- d. WHEREAS, the United States has an interest in and legal responsibilities with respect to the temporary assignment of project water, and has an obligation to ensure the uses of project water are in accordance with authorized purposes, existing contracts, and use of Federal facilities; and
- e. WHEREAS, the FCID has entered into an agreement with the Coalition whereby the FCID has agreed that it will not utilize a portion of their existing project water supply for irrigation of FCID lands during the 2007 irrigation season; and
- f. WHEREAS, the Coalition has entered into an agreement with the FCID to lease the rights to the use of storage and natural flow water available to FCID for beneficial use from Harry Strunk Lake to assist the State of Nebraska to meet its obligations under the Republican River Compact Settlement; and
- g. WHEREAS, The delivery, protection, and accounting of the assigned water will be by the Nebraska Department of Natural Resources, pursuant to applicable state laws and regulations. However, the United States desires to reserve the right to protect its property interests if the delivery, protection, and accounting of the assigned water by the Nebraska Department of Natural Resources appears to reduce or diminish the water use benefits of the Bostwick Irrigation District in Nebraska's water supply that they would have received as a result of normal irrigation water deliveries from Harry Strunk Lake.
- h. WHEREAS, the release of this water from Harry Strunk Lake will be made during the period of June 10, 2007 through September 1, 2007 in a manner that "mimics" normal irrigation season releases.

NOW, THEREFORE, in consideration of the mutual and dependent covenants herein contained, it is mutually agreed as follows:

- 1. This Assignment is authorized under Article 23 of Contract No. 009D6B0122 titled "Assignment Limited Successors and Assigns Obligated" which provides "that no assignment or transfer of this Contract or any right or interest therein shall be valid until approved in writing by the Contracting Officer."
- 2. FCID will not utilize their existing project water supply for irrigation of FCID lands during the 2007 irrigation season as stipulated in the agreement with the Coalition.

- 3. The agreement between FCID and the Coalition is clarified in that the end use of the agreement's water supply has been identified in paragraph 6 of this Assignment.
- 4. This Assignment is a temporary, one-year assignment of the above-referenced water supply (2007 irrigation season ONLY).
- 5. The delivery, protection, and accounting of the assigned water will be by the Nebraska Department of Natural Resources, pursuant to applicable state laws and regulations. However, the United States reserves the right to protect its property interests if the delivery, protection, and accounting of the assigned water by the Nebraska Department of Natural Resources appears to reduce or diminish the water use benefits of the Bostwick Irrigation District in Nebraska's water supply that they would have received as a result of normal irrigation water deliveries from Harry Strunk Lake.
- 6. Pursuant to the accounting provisions identified in paragraph 5 of this Assignment, a portion of the above-referenced project water supply will be released from Harlan County Lake as necessary to provide irrigation water as may be requested by the KBID for the irrigation of KBID lands.
- 7. This Assignment will be in accordance with all other applicable Federal laws, including, but not limited to the National Environmental Policy Act and the Endangered Species Act, and must not impair the Secretary of the Interior's trust obligation to Native Americans.
- 8. The Coalition, the FCID, and the KBID, in carrying out this Assignment, shall comply with all applicable federal, state, tribal, and local laws, including, but not limited to, those concerning appropriation, diversion, storage, use of water, and changes of water rights.
- 9. KBID agrees to utilize the project water made available under this Assignment for irrigation of its project lands.
- 10. Except as herein provided, the terms and provisions of Contract No. 009D6B0122 and Contract No. 009D6B0120 will remain in full force and effect.

IN WITNESS WHEREOF, the Parties hereto have signed their names the day and year first above written.

UNITED STATES OF AMERICA

Michael J. Ryan

Regional Director

Frenchman-Cambridge Irrigation District

(ŞEAL) Secretary

Kansas-Bostwick Irrigation District No. 2

(SEAL)

Republican River Basin Coalition

Authorized Agent



Dave Heineman Governor

#### STATE OF NEBRASKA

DEPARTMENT OF NATURAL RESOURCES
Ann Bleed
Director

June 21, 2007

IN REPLY TO:

Stephen Ronshaugen
Acting Area Manager
U. S. Bureau of Reclamation
Federal Building, 203 West 2nd Street
Grand Island NE 68801-5907

Daniel L. Smith Republican River Basin Coalition Republican River Natural Resource District P.O. Box 81 220 Center Avenue Curtis, NE 69025

SUBJECT:

Accounting for Water Not Used in 2007 by the Riverside Irrigation District, the Frenchman Valley Irrigation District and the Frenchman-Cambridge Irrigation District in Accordance with the Agreement between the Irrigation Districts and the Republican River Basin Coalition

This letter describes the procedure that will be used to account for the water that will be available for use by Kansas as a result of the Republican River Basin Coalition entering into an agreement whereby the Frenchman-Cambridge Irrigation District, the Riverside Irrigation District and Frenchman Valley Irrigation District will not utilize a portion of their existing water supply for irrigation of district lands during the 2007 irrigation season. In the case of the Riverside Irrigation District and the Frenchman Valley Irrigation Districts, the lease is for natural flow water. In the case of the Frenchman-Cambridge Irrigation District the lease is for both natural flow and storage water.

The Nebraska Department of Natural Resources will provide an accounting of the purchased natural flow and storage water that will be protected from use by other surface water diverters in each reach of the river. This water will be protected from the point the water would have been diverted, or in the case of the Frenchman-Cambridge Irrigation District, from the point of release from Harry Strunk Lake, to Harlan County Lake. Protected water released from Harlan County Lake will be protected to the Kansas-Bostwick Diversion at Guide Rock in the same manner that storage water released for Kansas-Bostwick is protected. Any Frenchman Valley and Riverside Irrigation District protected water passing Guide Rock minus any carriage losses will be protected from the Guide Rock Diversion Dam until it passes into Kansas near the Hardy gage.

It is the Department's understanding that the U. S. Bureau of Reclamation will be willing to account for and store in Harlan County Lake any protected natural flow or storage water resulting from the assignment of water from the Frenchman-Cambridge Irrigation that is not immediately used to meet the demands of the Kansas-Bostwick Irrigation District. It is also our understanding that the protected purchased water from Frenchman Valley Irrigation District and Riverside

301 Centennial Mall South, 4th Floor • P.O. Box 94676 • Lincoln, Nebraska 68509-4676 • Phone (402) 471-2363 • Telefax (402) 471-2900

An Equal Opportunity/Affirmative Action Employer

Irrigation District cannot be stored in Harlan County Lake but will be passed though Harlan County Lake.

The Temporary Assignment No. 1 Contract No. 009D6B0122 between the U. S. Bureau of Reclamation, the Frenchman-Cambridge Irrigation District, the Kansas-Bostwick Irrigation District No. 2 and the Republican River Basin Coalition is premised on the assumption that the delivery, protection and accounting of the assigned water will not reduce or diminish the water use benefits of the Nebraska-Bostwick Irrigation District's water supply that would have been received as a result of normal irrigation water deliveries from Harry Strunk Lake and will otherwise be in accordance with the National Environmental Policy Act and other federal and state laws. Based on this contract as well as other state laws, the water from Riverside Irrigation District, the Frenchman Valley Irrigation District and the Frenchman-Cambridge Irrigation District that will be protected from diversions by Nebraska surface water irrigators will be that which would not have returned to the Republican River or its tributaries if the water had been diverted and used for the irrigation of lands in accordance with the districts' permits from the Nebraska Department of Natural Resources. To determine the percentage of the water that would have been diverted and would not have returned to the river as a result of normal deliveries for irrigation, the Department will use the same accounting procedures as described in the Republican River Settlement. These procedures assume that 60% of the diversion to the Riverside Irrigation would not have returned to the river. For the Frenchman Valley Irrigation District and the Frenchman-Cambridge Irrigation District, the percentages of the diversion that would not have returned to the river are based on measured diversions from the river into the canal, measured field deliveries, and assumptions of how much of the water that was lost from the canal or the field would have returned to the Republican River. The details of this procedure are described in Attachment 7 in Appendix C of the Republican River Basin Final Settlement Stipulation (See Attachment A).

Using this methodology at a meeting on June 20, 2007 representatives from the Bureau of Reclamation, the Republican River Basin Coalition and the Department of Natural Resources mutually agreed that the consumptive use amounts of water that would have been diverted by each irrigation district entering into an agreement with the Republican River Basin Coalition that will be protected are as follows: Riverside Irrigation District, 60% of the diversion; Frenchman Valley Irrigation District, 50% of the diversion. In addition, in each reach of the river, the conveyance losses from evaporation and any additional seepage loss in each reach of the river will be subtracted from the water to be protected from diversion in proportion to the percentage of the total flow that is attributable to the protected water. (For more information see Attachment B.) Based on these percentages, the amount of water that will be made available to Kansas in 2007 as a result of these contracts will be approximately 84% of the Riverside Irrigation District diversion, 80% of the Frenchman Valley Irrigation District diversion and 83% of the Frenchman-Cambridge Irrigation District diversion minus any carriage losses.

The Department of Natural Resources will provide a timely accounting of the water to be protected and will work closely with the U. S. Bureau of Reclamation to assure protection of this water.

Sincerely,

Ann Bleed, Director

Unn Bleed

Republican River Compact Administration

Accounting Procedures and Reporting Requirements
Revised January 2005

#### Attachment 7: Calculations of Return Flows from Bureau of Reclamation Canals

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6	Col 7	Col 8	Col 9	Col 10	Col 11
Cansl	Canal Diversion	Spill to Waste-way	Field Deliveries	Canal Loss	Average Pield Loss Factor	Field Loss	Total Loss from District	Percent Held and Canal Loss That Returns to the Stream	Total Return to Stream from Canal and Field Loss	Return as Percent of Canal Diversion
Name Canal	Headgate Diversion	Sum of measured spills to river	Sum of deliveries to the field	+Col 2 - Col	1 -Weighted Average Efficiency of Application System for the District*	Col 4 x Col 6	Col 54 Col 7	Estimated Percent Loss*	Columns 8 x Col 9	Col To/Çol 2
Example	100	5	60	40	30%	18	58	82%	48	48%
Culbertson		-			30%				en e	
Culbertson					30%					
Extensión	teration and		ن نیستان		30%					
Mecker- Driftwood					- SUPRO	lan e sa				ت مسجونات
Red Willow	- 12 S				30%					S. a. ta.
Bartley				A Comment	30%		2 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 y - 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	diamentalisti		7.7 %	30%			97700		
Cambridge		4	and some and	39 vo	35%					
Naponne	Services -		Jungerous s		35%		1 3 4 7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			
Franklin					35%					
Pranklin Pump		L.	1 00000 1000 100	antiness to				15 may 11 may 12 may		
Almena					30%		Eliana.	Street and		
Superior		ne .emel.ir.voire-mily	To the second of	THE REAL PROPERTY.	31%	and the organization of the second	Mary St. Committee Committ			
Nebraska				1.00	23%	E TOTAL SECTION				
Courtland	<u> </u>				23%		<del>- Times and the second of the</del>			
Courtland Canal Above					<del></del>					
ovewell KS)		1								
Courtland	<del>orion trice</del>	1	P. Carlotte		23%					
Canal Below Lovewell								a a sala a sala		

<sup>\*</sup>The average field efficiencies for each district and percent loss that returns to the stream may be reviewed and, if necessary, changed by the RRCA to improve the accuracy of the estimates.

#### Attachment B

Notes:

Water accounting will start on the date indicated in the applicable agreement.

Only the portion of the water that would have been consumed if diverted is protected from diversion by other surface water users. The entire FCID water is protected from its release from Harry Strunk Lake down to the Cambridge Diversion Dam.

Amount of water purchased from Frenchman-Cambridge is released water from Harry Strunk Lake as measured at the river gage below the dam. Amount is 26,000 acre-leet. Releases from Harry Strunk Lake will mimic a normal irrigation season. Maximum Canal capacity is 325 CFS

Amount of Water Purchased from Frenchman Valley (up to 8000 acre feet) = Frenchman Cr at Pallsade + Stinkingwater Cr. One day totals will be capped at the legal natural flow diversion rate for Frenchman Valley irrigation District.

Amount of water purchased from Riverside = 2000 acre feet. This is assumed that 9.6 cfs will be available at the Diversion for 105 days starting on date indicated in agreement (or signed).

The consumptive use portion of the purchased water that is protected will be based on the percentages of consumed water in the Compact Accounting formulas. Riverside is 60% of Headgate is CBCU, Frenchman Valley average from 2001 to 2005 is 35.6% CBCU

Carriage losses include surface water evaporation and any additional loss in the section, if any. The additional loss is determined by subtracting the inflows to the section from the outflows to the section. If the result is a positive, there is no additional loss to the purchased water above evaporation. If it is a negative, the section loss will be included in the carriage losses assigned to the purchased water

The percentage of carriage losses assigned to the purchased water will be based on the percentage of the purchased water in each section as part of the total flow in the section.

The total flow in the section is the maximum of either the total inflows to the section or the total outflow to the section.

The total amount of FCID purchased protected water arriving at Harian County Lake will be assigned to a special purchased water account for Kansas Bostwick Irrigation District (KBID) if stored. Any natural flow purchased from Frenchman Valley and Riverside that arrives at Harian County Reservoir will be passed through when releases are made for KBID. Any remaining inflow to the Lake will be split between Nebraska Bostwick Irrigation District (NBID) and KBID according to the usual Bureau of Reclamation accounting procedures.

The Department of Natural Resources will provide a timely accounting of the water to be protected and will work closely with the U. S. Bureau of Reclamation to assure protection of this water.

When the first storage water is released from Harlan County Lake, 12,500 acre feet of NBID water will be assigned to the KBID Purchased Water Account.

If KBID is taking water from or thru Harian County Lake, the priority of use is 1) the consumptive use portion of the purchased water from FCID and 3) NBID purchased water.

At the end of the irrigation season, any water remaining in the KBID Purchased Water Account will be carried over in that account for the next irrigation season.

Attachment B

Notes:

Water accounting will start on the date indicated in the applicable agreement.

Only the portion of the water that would have been consumed if diverted is protected from diversion by other surface water users. The entire FCID water is protected from its release from Harry Strunk Lake down to the Cambridge Diversion Dam. Amount of water purchased from Frenchman-Cambridge is released water from Harry Strunk Lake as measured at the river gage below the dam. Amount is 26,000 acre-feet. Releases from Harry Strunk Lake will mimic a normal irrigation season. Maximum Canal capacity is 325 CFS

Amount of water purchased from Riverside = 2000 acre feet. This is assumed that 9.6 cfs will be available at the Diversion for 105 days starting on Amount of Water Purchased from Frenchman Valley (up to 8000 acre feet) = Frenchman Cr at Palisade + Stinkingwater Cr. One day totals will be capped at the legal natural flow diversion rate for Frenchman Valley Irrigation District date indicated in agreement (or signed).

The consumptive use portion of the purchased water that is protected will be based on the percentages of consumed water in the Compact Accounting formulas. Riverside is 60% of Headgate is CBCU! Frenchman Valley average from 2001 to 2005 is 35.6% CBCU

Carriage losses include surface water evaporation and any additional loss in the section, if any. The additional loss is determined by subtracting the inflows to the section from the outflows to the section. If the jesult is a positive, there is no additional loss to the purchased water above evaporation. If it is a negative, the section loss will be included in the carriage losses assigned to the purchased water The percentage of carriage losses assigned to the purchased water will be based on the percentage of the purchased water in each section as part of the total flow in the section.

The total flow in the section is the maximum of either the total inflows to the section or the total outflow to the section.

Kansas Bostwick Irrigation District (KBID) if stored. Any natural flow purchased from Frenchman Valley and Riverside that arrives at Harlan County Reservoir will be passed through when releases are made for KBID. Any remaining inflow to the Lake will be split between Nebraska Bostwick The total amount of FCID purchased protected water arriving at Harlan County Lake will be assigned to a special purchased water account for Irrigation District (NBID) and KBID according to the usual Bureau of Reclamation accounting procedures.

The Department of Natural Resources will provide a timely accounting of the water to be protected and will work closely with the U. S. Bureau of Reclamation to assure protection of this water. When the first storage water is released from Harlan County Lake, 12,500 acre feet of NBID water will be assigned to the KBID Purchased Water Account. If KBID is taking water from or thru Harlan County Lake, the priority of use is 1) the consumptive use portion of the purchased water from Frenchman Valley and Riverside 2) the consumptive use portion of the purchased water from FCID and 3) NBID purchased water.

At the end of the irrigation season, any water remaining in the KBID Purchased Water Account will be carried over in that account for the next irrigation season.