

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

WATER SUPPLY BANK RENTAL AGREEMENT NO. 160

This is to certify that:

LANCE FUNK
PO BOX 310
AMERICAN FALLS, ID 83211

RECEIVED
MAY 16 2017
DEPARTMENT OF
WATER RESOURCES

filed an application to rent water from the Water Supply Bank ("Bank"). The Idaho Water Resource Board ("Board"), being authorized to operate a Bank and to contract by and through the Director of the Idaho Department of Water Resources ("Director, Department") for rental of water from the Bank, agrees to rent water as follows:

Summary of Water Rights or Portions Rented from the Bank

Water Right No.	Priority Date	Source	Diversion Rate (CFS)	Diversion Volume (AF)	Acres (AC)	Rate Per Acre (CFS/AC)	Volume Per Acre (AF/AC)
35-2391	12/20/1954	GROUND WATER	0.22	44.8	11.2	0.020	4.0
35-7777	1/24/1978	GROUND WATER	0.66	155.2	38.8	0.017	4.0
35-14040	10/16/1974	GROUND WATER	0.34	138.0	34.5	0.010	4.0
Combined Rental Totals			1.22	338.0	84.5	0.014	4.0

Term of Rental: This rental shall take effect when all parties have signed it and shall continue in effect until December 31, 2018

Annual Rental Fee:

2017: \$2,806.36
2018: \$3,301.60

SUPPORT DATA

IN FILE # 35-2391

The full fee for the rental of the above-described right(s) is \$2,806.36 per year for year 2017 and \$3,301.60 for 2018. The rental fee includes an administrative fee of \$694.96 per year for year 2017 and \$817.60 for 2018. Note that the renter is obligated to pay only the administrative fees associated with the water rights 35-2391, 35-7777.

An annual payment shall be received by the Department on or before December 31 each year preceding the use of the rented water rights. The agreement will be void if payment is not received by the due date in a given year. Rental fees are non-refundable. To voluntarily terminate the agreement early, notify the Department in writing prior to the rental fee due date.

Total Water Use Authorized Under Rental Agreement Click here to enter text.

Beneficial Use	Diversion Rate (CFS)	Diversion Volume (AF)	Acres (AC)	Rate/Acre (CFS/AC)	Volume/Acre (AF/AC)
IRRIGATION	1.22	316.0	79.00	0.015	4.28
Combined Total	1.22	316.0	79.00	0.015	4.28

* The authorized water usage reflects a reduction from the water right elements rented, to account for acres allowed to be irrigated.

Detailed water right conditions are attached.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WATER SUPPLY BANK RENTAL AGREEMENT NO. 160

The undersigned renter agrees to use the water rented under this agreement in accordance with the Water Supply Bank rules and in compliance with the limitations and conditions of use described in this agreement:

_____ Signature of Renter	_____ Date
_____ Printed Name	_____ Title

*Title required if signing on behalf of a company or organization or with power of attorney

Having determined that this agreement satisfied the provisions of Idaho Code § 42-1763 and IDAPA 37.02.03.030 (Water Supply Bank Rule 30), for the rental and use of water under the terms and condition herein provided, and none other, I hereby execute this Rental Agreement on behalf of the Idaho Water Resource Board.

By _____ BRIAN PATTON, Acting Administrator Idaho Water Resource Board	Date _____
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Rental approved by IDWR _____	Date _____
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WATER SUPPLY BANK RENTAL AGREEMENT NO. 160

WATER USE DETAILS

LOCATION OF POINT(S) OF DIVERSION

GROUND WATER SWSW Sec. 20, Twp 06S, Rge 29E, POWER County

Beneficial Use **Diversion Rate** **Volume**
IRRIGATION 1.22 CFS 316.0 AF

BENEFICIAL USE & SEASON OF USE

Water Right No.	From	To	Diversion Rate
35-7777	4/1	10/31	0.22 CFS
35-2391	4/1	10/31	0.66 CFS
35-14040	4/1	10/31	0.34 CFS

RENTERS PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
06S	29E	19			26.0	25.0													51.0
06S	29E	30		28.0															28.0

Total Acres: 79.0

RENTAL AGREEMENT CONDITIONS OF ACCEPTANCE

1. The use of water under this agreement shall be subject to the provisions of Idaho Code § 42-1766.
2. Rental of the specified right from the bank does not, in itself, confirm the validity of the right or any elements of the water right, or improve the status of the right including the notion of resumption of use. It does not preclude the opportunity for review of the validity of this water right in any other department application process.
3. Use of water under this agreement shall not prejudice any action of the Department in its consideration of an application for transfer or permit filed by the applicant for this same use.
4. Renter agrees to comply with all applicable state and federal laws while using water under this agreement.
5. Renter agrees to hold the Board, the Director and the state of Idaho harmless from all liability on account of negligent acts of the renter while using water.
6. Renter acknowledges and agrees that the Director may terminate authorization for the use of a water right based on a water right's priority date.
7. Failure of the renter to comply with the conditions of this agreement is cause for the Director to rescind approval of the rental agreement.
8. Pursuant to Section 42-1412(6), Idaho Code, this water right is subject to such general provisions necessary for the definition of the rights or for the efficient administration of water rights as may be determined by the Snake River Basin Adjudication court at a point in time no later than the entry of the final unified decree.

WATER SUPPLY BANK RENTAL AGREEMENT NO. 160

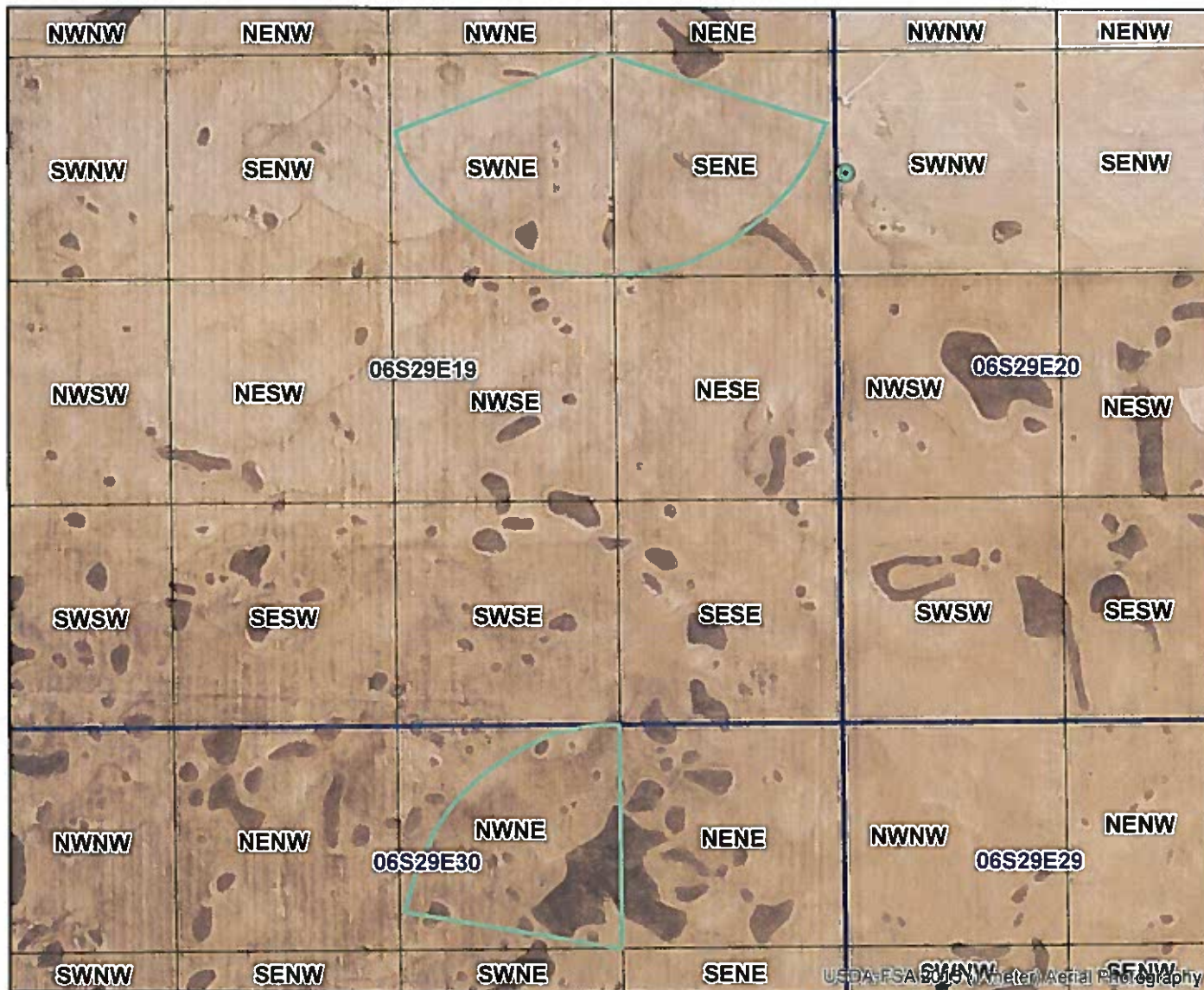
9. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 4.0 afa per acre at the field headgate for irrigation of the place of use.
10. This rental agreement does not authorize the construction of a well.
11. The right holder shall maintain a measuring device and lockable controlling works of a type approved by the Department in a manner that will provide the watermaster suitable control of the diversion.
12. This rental does not grant any right-of-way or easement across the land of another.
13. Use of water under this right will be regulated by a watermaster with responsibility for the distribution of water among appropriators within a water district. At the time of this approval, this water right is within State Water District No. 120.



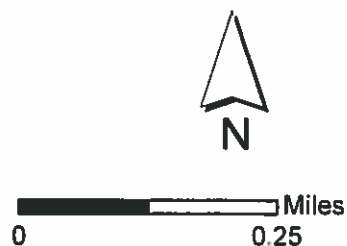
Idaho Water Resource Board
Water Supply Bank Rental Agreement No. 160

Effective until December 31, 2018

This map depicts the rental place of use pursuant to the rental agreement and is attached to the agreement solely for illustrative purposes.



-  Authorized Rental Point of Diversion
-  Authorized Rental Place of Use
-  Townships
-  PLS Sections
-  Quarter Quarters



STATE OF IDAHO
WATER RESOURCE BOARD

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FEB 14 2017

DEPARTMENT OF
WATER RESOURCES

**APPLICATION TO RENT WATER
FROM THE BOARD'S WATER SUPPLY BANK**

Applicant Name: Lance Funk

Is this application being submitted with a lease application as a lease/rental package?

Yes ☒ No ☐

If yes, specify companion water rights in Section 4

This application must be completed according to the minimum requirement checklist below. This checklist is part of the rental application and must be included with the rental application. Applications that do not meet the minimum requirements will not be placed in the processing queue and may be returned until all minimum requirements have been met.

Rental applications should be submitted well in advance of the desired start date for the use of rental water. Rental applications may be processed as early as November 1 of the year prior to the intended use of rental water. Any rental application received on or before November 1 for use in the next year will be assigned a received date of November 1. Rental applications submitted more than one year in advance of the proposed start date for the use of rental water will not be accepted and will be returned to applicants. Rental applications may be returned to applicants if the desired start date for the use of rental water cannot be accommodated by the Water Supply Bank. Rental requests will not be accepted once the rental season of use period has concluded.

One rental application per beneficial use of water. For multiple beneficial uses of water, separate rental requests should be submitted for each unique beneficial use of water. One rental application can be submitted if you propose to rent water from multiple sources.

For additional instructions on completing a rental application, visit the Bank's website at http://idwr.idaho.gov/water_supply_bank.

MINIMUM REQUIREMENT CHECKLIST

Check All Items as Either Attached (Yes) or Not Applicable (N/A)

Yes

- ☒ Completed *Application to Rent Water from the Board's Water Supply Bank*
- ☒ Confirmation that this form has been printed single sided, per requirement of the Water Supply Bank

Attachment N/A Yes

- | | | |
|----|-------------------------------------|--|
| 2 | ☐ | A map showing the proposed point(s) of diversion, place(s) of use, and water diversion and distribution systems proposed to be used with your rental request |
| 3A | ☐ | ☒ Detailed information on a proposed use of rental water |
| 3F | ☐ | ☒ Authorization from the owner/operator of the rental point(s) of diversion |
| 3H | ☐ | ☒ Water modeling to account for the impacts of the rental request |
| 3J | ☒ | ☐ Documents justifying a rate of flow greater than 0.02 cfs/acre |
| 3K | ☐ | ☒ Authorization from the owner/operator of the property at the proposed rental place(s) of use |
| 4B | ☐ | ☒ Explanation of how the rental water will sufficiently accomplish your rental purposes |
| 4C | ☒ | ☐ Explanation of consumptive use amounts for water rights experiencing a change in nature of use |

Department Use Only – Proposed Water Right(s)

~~35-7818~~

35-2391

35-7777

35-14040

309

**STATE OF IDAHO
WATER RESOURCE BOARD**

Application to Rent Water (Continued)

1. CONTACT INFORMATION

A. Applicant Lance Funk

Mailing Address P.O. Box 310 American Falls, Idaho 83211

Street

City

State

Zip Code

Email Address _____

Phone Number 208-226-5551

B. Is this application being completed by an authorized representative on behalf of the applicant? Yes ☒ No ☐
If yes, representatives (includes company employees if the applicant is a corporation, as well as legal counsel or consultants) should provide their information below if they desire to be included on correspondence with the rental applicant.

Representative Greg Sullivan

Professional Title Engineer

Organization Brockway Engineering

Relationship to Applicant Consultant

Mailing Address 2016 N Washington St Ste 4 Twin Falls, Idaho 83301

Email Address greg.sullivan@brockwayeng.com

Phone Number 208-736-8543

2. MAP

Create a map of the proposed point(s) of diversion, place(s) of use and water diversion, delivery and distribution systems. Make sure the rental place of use is outlined and annotated with legal land descriptions (Township, Range, Section and Quarter-Quarters) or with GPS coordinates. For irrigation purposes, mark the number of acres you desire to irrigate. Attach the map to this application and label it **Attachment 2**.

3. DESCRIPTION OF PROPOSED USE FOR RENTAL WATER

A. Describe why you desire to rent water and provide a detailed description of your proposed use. If the proposed use is not for irrigation, describe in detail how you determined the amount of rental water required. If the space below is insufficient, attach additional sheets as required and label them **Attachment 3A**:

Rented water is for the purpose of irrigation. No existing water rights currently at proposed place of use.

B. Enter the desired and/or minimum rates of flow, volume, or irrigable acres requested for your rental purposes:

Desired Rate (Cubic Feet/Second)	Desired Volume (Acre-Foot)	Minimum Rate* (Cubic Feet/Second)	Minimum Volume* (Acre-Foot)	Desired Acres (if applicable)
1.48 CFS	316 AF	1.48 CFS	316 AF	79.0 AC

* Sometimes water rights provide an exceptionally low rate per acre and/or low volume per acre. This section is meant to establish an acceptable range of water sufficient for your proposed water use. Please see question 4B and complete if necessary.

C. This section must be completed in full. Enter the proposed start date and latest possible start date for using rental water as well as the number of years you would like to rent water. The latest possible start is the latest possible date by which you would be willing to pay for a rental and be able to benefit from utilizing rental water.

Desired Start Date (month/day/year)	Latest Possible Start Date (month/day/year)	*Mark Desired Rental Duration (Calendar Years)					**Applicant's preference if rental application cannot be processed prior to the latest possible start?	
4/1/2017	7/1/2017	☒ 1	☐ 2	☐ 3	☐ 4	☐ 5	☒ Process application as soon as possible	☐ Return application to applicant

* The number of years permissible for a rental is subject to the lease contract duration for the water right(s) being rented.

** Per Idaho Code 42-201, it is unlawful to divert or use water without a valid water right. Water Supply Bank rental applicants are not authorized to utilize rental water prior to the execution of an approved rental agreement. Rental requests may be returned to applicants if no water is available from the Bank to fulfill a rental request.

STATE OF IDAHO
WATER RESOURCE BOARD

Application to Rent Water (Continued)

- D. Describe your water distribution system and how rental water will be delivered from the point(s) of diversion (POD) to the proposed place of use (POU):
Existing well. Mainlines and pivot will be installed this spring.

- E. Describe the physical type (pump, headgate, etc.) and location of the POD from which rental water is proposed to be diverted:

POD Description	Water Source	Other Water Rights Diverted from this POD
06S 29E Sec 20 SWNW	Ground Water	35-13810, 35-13811, 35-13812, 35-13813

If the POD(s) above are located where water is turned into a canal, lateral or ditch, or if they are located on your property but are serviced by water that is delivered via a canal, lateral or ditch, your rental request must include documented authorization from all relevant canal companies, irrigation districts and/or water delivery entities, confirming that they consent to your diversion of water from their system.

- F. Has documented consent from all relevant water delivery entities been obtained? Yes ☐ N/A ☒
If yes, include documented consent as Attachment 3F.

- G. Do any POD(s) identified in Question 3E divert from a water source that may require water modeling? Yes ☒ No ☐
Refer to the Water Modeling Requirements Information Sheet to determine if a rental POD may require water modeling.

- H. Has water modeling been provided with your rental request? Yes ☒ N/A ☐
If yes, label modeling Attachment 3 H.
Rental applications that require modeling will be returned if modeling is not provided.

- I. Specify the desired beneficial use of water and the requested season of use or number of acres required:

- ☒ Irrigation 79.0 (number of acres) Duration: Subject to IDWR standard seasons of use
☐ Commercial from: _____ (mm/dd) to: _____ (mm/dd)
☐ Stockwater from: _____ (mm/dd) to: _____ (mm/dd)
☐ Industrial from: _____ (mm/dd) to: _____ (mm/dd)
☐ Other: _____ from: _____ (mm/dd) to: _____ (mm/dd)

- J. For irrigation uses, do you propose to divert water at a rate greater than 0.02 cfs/acre? N/A ☐ Yes ☐ No ☒
If yes, justify the rate of flow and attach any supporting documents as Attachment 3J. Justification may include information on soil composition, conveyance losses, crop type, irrigation systems, public access areas, etc. A rate of 0.03 cfs/acre is permissible for irrigation of 5 acres or less.

- K. Do you own the land at the proposed rental place of use (POU)? Yes ☒ No ☐
If no, attach documentation from the POU owner/operator confirming your authorization to use the POU and label it Attachment 3K.

- L. List all other water rights and sources of water at the rental place of use for the same purpose, including privately owned water rights and water received from a municipal supplier, an irrigation district, a canal company or any other water delivery entity. Explain why additional water is required:
None

STATE OF IDAHO
WATER RESOURCE BOARD

Application to Rent Water (Continued)

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DEPARTMENT OF
WATER RESOURCES

4. RENTAL REQUESTS FOR SPECIFIC WATER RIGHTS

A. Are you requesting to rent specific water rights?

Yes ☒ No ☐

If yes, specify below the elements of the water rights you are requesting to rent. If no, continue to Question 4B.

Important Information: Diversion rates and volumes sought for rent must be proportionate to the per acre diversion rates and per acre volume limits of the water right under lease contract to the Water Supply Bank. Prior to completing this section, applicants should review all water right lease contracts and any active rental agreements to determine which elements of a water right are available to satisfy a rental request. Lease and rental documents are searchable via IDWR's website.

Water rights identified below must either already be leased to the Bank or a lease proposal should accompany this rental request. Rental requests for water rights not yet leased to the Bank will be returned if companion lease applications are not provided with the rental request. For leased rights featuring combined limits, rentals must be consistent with combined diversion rate, volume or acre limits. Combined limits should be listed on a row below water right numbers.

Water Right Elements Leased to Water Supply Bank					Leased totals, minus water right elements involved in active rental agreements, equals water right elements available for rent	Water Supply Bank Rental Request		
Water Right Number (leave blank if sub-total of combined limits)	Nature of Use	Diversion Rate (CFS)	Volume (AF)	Acres (AC)		Diversion Rate (CFS)	Volume (AF)	Acres (AC)
35-14040	Irrigation	0.47	190	47.5		0.34	138	34.5
35-2391	Irrigation	3.44	688	172		0.22	44.8	11.2
35-7777	Irrigation	1.77	416	104		0.96	226	56.5
Applicants must ensure the requested rate per acre and volume per acre do not exceed the rate per acre and volume per acre limits of water rights leased to the Water Supply Bank					TOTAL	1.53	316	79.0
						CFS	AF	AC

*Attach multiple copies of this page if space above is insufficient to list all water rights requested to be rented on this application.

B. If water right conditions, combined limits, or the sum of all water right elements being requested provide an unconventional duty of water (e.g., an unusually low rate per acre or volume per acre for irrigation use), explain how your proposed rental will sufficiently accomplish your intended purposes. Attach a separate page if space is insufficient and label it Attachment 4B:

N/A

C. Does your rental request propose to change the nature of use for any water right(s) being rented?

Yes ☐ No ☒

If yes, explain how the water right(s) will be converted to new uses. Include the historic, consumptive use amounts for the water right being rented if you have it, as well as the new consumptive use amount for your proposed beneficial use. If space below is insufficient, attach a separate page and label it Attachment 4C:

STATE OF IDAHO
WATER RESOURCE BOARD

Application to Rent Water (Continued)

4. RENTAL REQUESTS FOR SPECIFIC WATER RIGHTS

A. Are you requesting to rent specific water rights?

Yes ☐ No ☐

If yes, specify below the elements of the water rights you are requesting to rent. If no, continue to Question 4B.

Important Information: Diversion rates and volumes sought for rent must be proportionate to the per acre diversion rates and per acre volume limits of the water right under lease contract to the Water Supply Bank. Prior to completing this section, applicants should review all water right lease contracts and any active rental agreements to determine which elements of a water right are available to satisfy a rental request. Lease and rental documents are searchable via [IDWR's website](#).

Water rights identified below must either already be leased to the Bank or a lease proposal should accompany this rental request. Rental requests for water rights not yet leased to the Bank will be returned if companion lease applications are not provided with the rental request. For leased rights featuring combined limits, rentals must be consistent with combined diversion rate, volume or acre limits. Combined limits should be listed on a row below water right numbers.

Water Right Elements Leased to Water Supply Bank					Water Supply Bank Rental Request		
Water Right Number (leave blank if sub-total of combined limits)	Nature of Use	Diversion Rate (CFS)	Volume (AF)	Acres (AC)	Diversion Rate (CFS)	Volume (AF)	Acres (AC)
35-7618	Irrigation	1.48	316	79.0	1.48	316	79.0
Applicants must ensure the requested rate per acre and volume per acre do not exceed the rate per acre and volume per acre limits of water rights leased to the Water Supply Bank					TOTAL	1.48	316
						CFS	AF
							AC

Leased totals, minus water right elements involved in active rental agreements, equals water right elements available for rent

SUPERCEDED

**Attach multiple copies of this page if space above is insufficient to list all water rights requested to be rented on this application.*

B. If water right conditions, combined limits, or the sum of all water right elements being requested provide an unconventional duty of water (e.g., an unusually low rate per acre or volume per acre for irrigation use), explain how your proposed rental will sufficiently accomplish your intended purposes. Attach a separate page if space is insufficient and label it Attachment 4B:

N/A

C. Does your rental request propose to change the nature of use for any water right(s) being rented?

Yes ☐ No ☒

If yes, explain how the water right(s) will be converted to new uses. Include the historic, consumptive use amounts for the water right being rented if you have it, as well as the new consumptive use amount for your proposed beneficial use. If space below is insufficient, attach a separate page and label it Attachment 4C:

STATE OF IDAHO
WATER RESOURCE BOARD

Application to Rent Water (Continued)

5. ADDITIONAL INFORMATION

- A. Is this the first time that rental water is being requested for this purpose at the rental place of use? Yes ☒ No ☐
If no, list previous rental requests/agreements and explain why you have not secured a permanent water right for your needs:

- B. Have you or do you intend to submit an application for permit or transfer proposing a similar use as this rental?
If yes, describe: Yes ☒ No ☐
In the future when a permanent ground water right can be secured.

- C. Was this rental application submitted in response to a Notice of Violation (NOV) or a pending NOV? Yes ☐ No ☒
If yes, describe the date and location of the NOV.

- D. Additional Information

DECLARATION

I hereby assert that the information contained in this application is true to the best of my knowledge. I understand that any willful misrepresentations made in this application may result in rejection of the application or cancellation of an approval. I understand that if this rental application is approved, it will be subject to the provisions of Section 42-1766, Idaho Code and all applicable state and federal laws. I understand that the submission of a rental application provides no guarantee for approval of a rental agreement. I also understand that, per Idaho Code 42-201, it is unlawful to divert or use water without a valid water right and that I am not authorized to utilize water as proposed in this application prior to the execution of an approved rental agreement.



Signature of Applicant



Printed Name of Applicant

2-2-17

Date

Signature of Representative

Printed Name of Representative

Date

Mail to:

Idaho Department of Water Resources
P.O. Box 83720
Boise, ID 83720-0098

CONTRACT OF AGREEMENT

To Whom It May Concern,

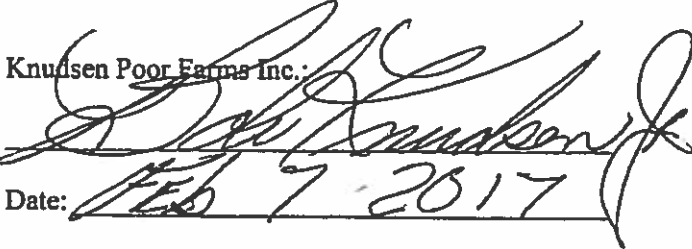
Knudsen Poor Farms Inc. and Lance Funk have in place a long term farm lease agreement or contract for property owned by Knudsen Poor Farms Inc. The contract includes the property, water rights and water distribution systems pertaining to water rights 35-2391 and 35-7777.

Lance Funk has agreed to pay the annual farm contract payment for 2017-2020. No additional fees are required by Knudsen Poor Farms Inc. of Lance Funk for 2017 from the Idaho Water Supply Bank.

Therefore, the rental payment of the 90% of the rental fees for water rights 35-2391 and 35-7777 for the year 2017-2020 have been paid in full.

Lance Funk will pay the Idaho Water Supply Bank the 2017 10% rental fee when the rental agreement is signed and submitted to IDWR. Lance Funk will pay the 10% rental fee for the 2017-2020 irrigation seasons.

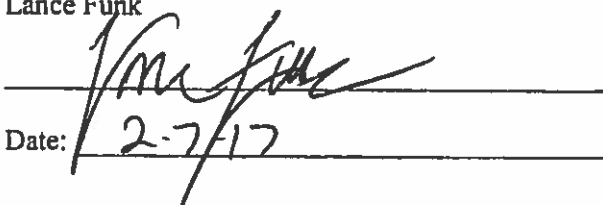
Knudsen Poor Farms Inc.:



Date:

FEB 7 2017

Lance Funk



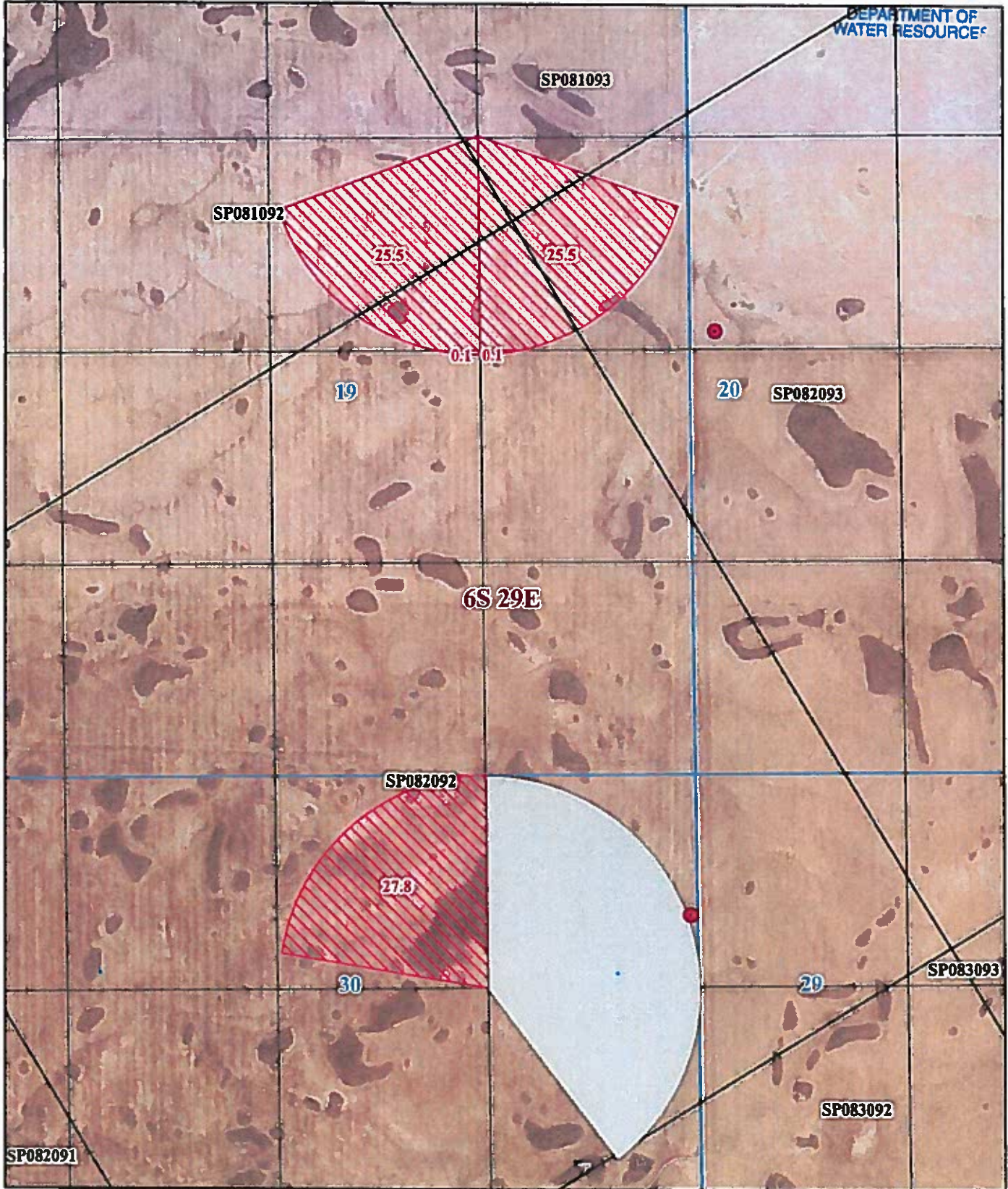
Date:

2-7-17

APR 13 2017

Path: F:\Projects\Funk, Lance - AF Farm\Arcview Maps\WSB RENTAL AF 79 ACRES 2017 Winters Road.mxd

DEPARTMENT OF
WATER RESOURCES



0 250 500 1,000 Feet

FUNK, LANCE

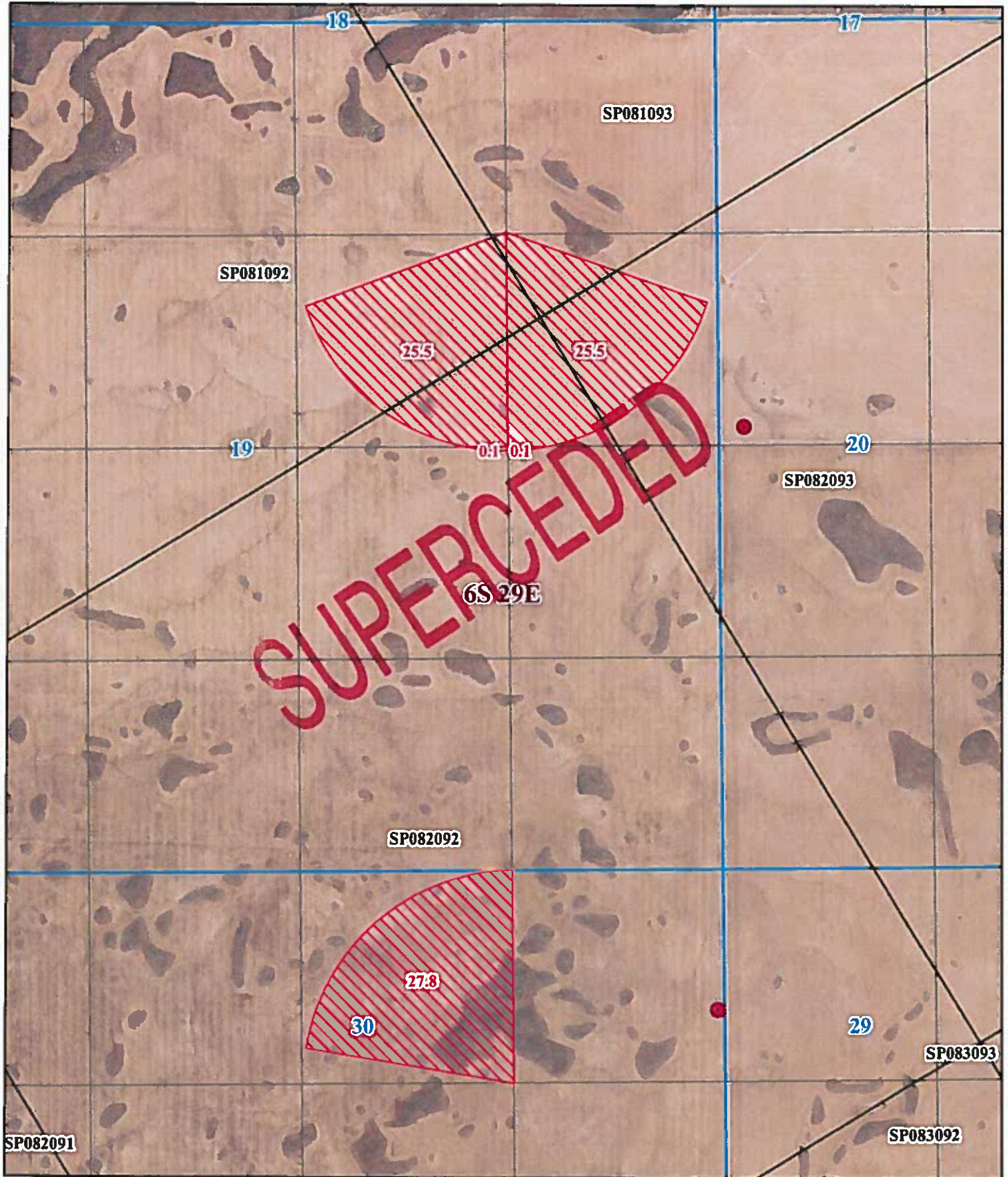
WATER BANK RENTAL 2017
NAIP 2015 AERIAL

Legend

- POD Rental
- Diversion Rate Rental
- modelgrid_trimmed
- WSB Rental Acres

BROCKWAY ENGINEERING, PLLC.
GWS - Date: 4/13/2017

N
↑



0 250 500 1,000 Feet

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DEPARTMENT OF
WATER RESOURCES

Mitigation Analysis Period
1/1/2017 to 12/31/2017

Trimester: 1 2 Trimester:
Annual AP-11

Total Reach Depletion Impacts

AFIT: 0.0 0.0 0.0 0.00 0.2 0.0 1.0 0.5 0.3 0.2 0.0

One-View Analysis of Independent Transfers

Transfer 1: Rental of 70 acres from KBC and Knudsen to Winters Road

100.0% Pre-88 316.0 AFA 70.0 Acres
100.0% Post-88 316.0 AFA 70.0 Acres

Impacts by Reach (AFIT/Trimester)

Ashton to Rensburg	Hesse to Shelley	Shelley to Hr Block	Hr Block to Hessley	Hessley to Mankota	Dev. Wpts To Buhl	Buhl to 1000 Spr	1000 Spr to Mated	Mated to Bancroft
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1.82	5.48	16.77	51.28	0.30	0.95	1.08	0.48	0.30	0.28	0.02
1.81	5.48	16.77	51.28	0.30	0.95	1.08	0.48	0.30	0.28	0.02
1.82	5.48	16.77	51.28	0.30	0.95	1.08	0.48	0.30	0.28	0.02
1.81	5.48	16.77	51.28	0.54	1.81	2.11	0.93	0.58	0.52	0.03

Transfer 1: Proposed Steady State Impacts following Transfer

Transfer: Worst Case Transient State Impacts following Transfer

Steady State Analysis

Mitigation Check 1 - >10% of Historical	Mitigation Check 2 - > 2 AFIT	Mitigation Check 3 - >10% of Total	Mitigation Required?	Mitigation Vol. Req'd (ac-ft)
-0.1%	0.0%	0.0%	NO	0.0
0.0	0.0	0.0	NO	0.0
2.3%	7.0%	21.3%	NO	0.0
0.0	0.0	0.0	NO	0.0

Transient State Analysis

Mitigation Check 1 - >10% of Historical	Mitigation Check 2 - > 2 AFIT	Mitigation Required?	Mitigation Vol. Req'd (ac-ft)
-0.1%	0.0%	NO	0.0
0.0	0.0	NO	0.0
0.0	0.0	NO	0.0
0.0	0.0	NO	0.0

Transfer 2:

Transfer 2: Rental of 70 acres from KBC and Knudsen to Winters Road

100.0% Pre-88 316.0 AFA 70.0 Acres

Impacts by Reach (AFIT/Trimester)

Ashton to Rensburg	Hesse to Shelley	Shelley to Hr Block	Hr Block to Hessley	Hessley to Mankota	Dev. Wpts To Buhl	Buhl to 1000 Spr	1000 Spr to Mated	Mated to Bancroft
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0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Transfer: Proposed Steady State Impacts following Transfer

Transfer 1: Worst Case Transient State Impacts following Transfer

Steady State Analysis

Mitigation Check 1 - >10% of Historical	Mitigation Check 2 - > 2 AFIT	Mitigation Check 3 - >10% of Total	Mitigation Required?	Mitigation Vol. Req'd (ac-ft)
0.0%	0.0%	0.0%	NO	0.0
0.0	0.0	0.0	NO	0.0
0.0%	0.0%	0.0%	NO	0.0
0.0	0.0	0.0	NO	0.0

Transient State Analysis

Mitigation Check 1 - >10% of Historical	Mitigation Check 2 - > 2 AFIT	Mitigation Required?	Mitigation Vol. Req'd (ac-ft)
0.0%	0.0%	NO	0.0
0.0	0.0	NO	0.0
0.0	0.0	NO	0.0
0.0	0.0	NO	0.0

79.0 acres to
Winters Road
35-14040
35-2341
35-7777

APR 12 2017

DEPARTMENT OF
WATER RESOURCES

ENHANCED GROUND-WATER RIGHTS TRANSFER

UNIVERSITY OF IDAHO - IDAHO WATER RESOURCES RESEARCH INSTITUTE

IDAHO DEPARTMENT OF WATER RESOURCES

Cells this color are
set up for user entries

ENTER STARTING DATE FOR
SIMULATION. THEN PUSH
"UPDATE DATES" BUTTON

TRANSFER NO:

YEAR

1950

TRANSFER NAME:

SEASON

SPRING

ENTER CELL LOCATIONS:

TO CELL	FROM1 CELL	FROM2 CELL	FROM3 CELL	35-2301	11.2	33.6
83	71	71	66	35-7777	56.5	169.5
92	130	130	128	35-14040	11.3	33.9

TRIMESTER OF ACTIVITY	TO WELL Protected Use AF/TRIMESTER	FROM1 WELL With Transfer AF/TRIMESTER	FROM1 WELL Without Transfer AF/TRIMESTER	FROM2 WELL With Transfer AF/TRIMESTER	FROM2 WELL Without Transfer AF/TRIMESTER	FROM3 WELL With Transfer AF/TRIMESTER	FROM3 WELL Without Transfer AF/TRIMESTER
SPR 1950	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 1950	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 1950	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPR 1951	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 1951	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 1951	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPR 1952	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 1952	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 1952	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPR 1953	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 1953	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 1953	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPR 1954	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 1954	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 1954	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SPR 1955	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SUM 1955	0.0	11.2	11.2	0.0	0.0	0.0	0.0
WIN 1955	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SPR 1956	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SUM 1956	0.0	11.2	11.2	0.0	0.0	0.0	0.0
WIN 1956	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SPR 1957	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SUM 1957	0.0	11.2	11.2	0.0	0.0	0.0	0.0
WIN 1957	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SPR 1958	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SUM 1958	0.0	11.2	11.2	0.0	0.0	0.0	0.0
WIN 1958	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SPR 1959	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SUM 1959	0.0	11.2	11.2	0.0	0.0	0.0	0.0
WIN 1959	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SPR 1960	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SUM 1960	0.0	11.2	11.2	0.0	0.0	0.0	0.0
WIN 1960	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SPR 1961	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SUM 1961	0.0	11.2	11.2	0.0	0.0	0.0	0.0
WIN 1961	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SPR 1962	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SUM 1962	0.0	11.2	11.2	0.0	0.0	0.0	0.0
WIN 1962	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SPR 1963	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SUM 1963	0.0	11.2	11.2	0.0	0.0	0.0	0.0
WIN 1963	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SPR 1964	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SUM 1964	0.0	11.2	11.2	0.0	0.0	0.0	0.0
WIN 1964	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SPR 1965	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SUM 1965	0.0	11.2	11.2	0.0	0.0	0.0	0.0
WIN 1965	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SPR 1966	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SUM 1966	0.0	11.2	11.2	0.0	0.0	0.0	0.0
WIN 1966	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SPR 1967	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SUM 1967	0.0	11.2	11.2	0.0	0.0	0.0	0.0
WIN 1967	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SPR 1968	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SUM 1968	0.0	11.2	11.2	0.0	0.0	0.0	0.0
WIN 1968	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SPR 1969	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SUM 1969	0.0	11.2	11.2	0.0	0.0	0.0	0.0
WIN 1969	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SPR 1970	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SUM 1970	0.0	11.2	11.2	0.0	0.0	0.0	0.0
WIN 1970	0.0	11.2	11.2	0.0	0.0	0.0	0.0

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SPR 1971	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SUM 1971	0.0	11.2	11.2	0.0	0.0	0.0	0.0
WIN 1971	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SPR 1972	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SUM 1972	0.0	11.2	11.2	0.0	0.0	0.0	0.0
WIN 1972	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SPR 1973	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SUM 1973	0.0	11.2	11.2	0.0	0.0	0.0	0.0
WIN 1973	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SPR 1974	0.0	11.2	11.2	0.0	0.0	0.0	0.0
SUM 1974	0.0	11.2	11.2	0.0	0.0	0.0	0.0
WIN 1974	0.0	11.2	11.2	0.0	0.0	11.3	11.3
SPR 1975	0.0	11.2	11.2	0.0	0.0	11.3	11.3
SUM 1975	0.0	11.2	11.2	0.0	0.0	11.3	11.3
WIN 1975	0.0	11.2	11.2	0.0	0.0	11.3	11.3
SPR 1976	0.0	11.2	11.2	0.0	0.0	11.3	11.3
SUM 1976	0.0	11.2	11.2	0.0	0.0	11.3	11.3
WIN 1976	0.0	11.2	11.2	0.0	0.0	11.3	11.3
SPR 1977	0.0	11.2	11.2	0.0	0.0	11.3	11.3
SUM 1977	0.0	11.2	11.2	0.0	0.0	11.3	11.3
WIN 1977	0.0	11.2	11.2	0.0	0.0	11.3	11.3
SPR 1978	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SUM 1978	0.0	11.2	11.2	56.5	56.5	11.3	11.3
WIN 1978	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SPR 1979	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SUM 1979	0.0	11.2	11.2	56.5	56.5	11.3	11.3
WIN 1979	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SPR 1980	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SUM 1980	0.0	11.2	11.2	56.5	56.5	11.3	11.3
WIN 1980	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SPR 1981	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SUM 1981	0.0	11.2	11.2	56.5	56.5	11.3	11.3
WIN 1981	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SPR 1982	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SUM 1982	0.0	11.2	11.2	56.5	56.5	11.3	11.3
WIN 1982	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SPR 1983	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SUM 1983	0.0	11.2	11.2	56.5	56.5	11.3	11.3
WIN 1983	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SPR 1984	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SUM 1984	0.0	11.2	11.2	56.5	56.5	11.3	11.3
WIN 1984	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SPR 1985	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SUM 1985	0.0	11.2	11.2	56.5	56.5	11.3	11.3
WIN 1985	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SPR 1986	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SUM 1986	0.0	11.2	11.2	56.5	56.5	11.3	11.3
WIN 1986	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SPR 1987	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SUM 1987	0.0	11.2	11.2	56.5	56.5	11.3	11.3
WIN 1987	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SPR 1988	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SUM 1988	0.0	11.2	11.2	56.5	56.5	11.3	11.3
WIN 1988	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SPR 1989	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SUM 1989	0.0	11.2	11.2	56.5	56.5	11.3	11.3
WIN 1989	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SPR 1990	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SUM 1990	0.0	11.2	11.2	56.5	56.5	11.3	11.3
WIN 1990	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SPR 1991	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SUM 1991	0.0	11.2	11.2	56.5	56.5	11.3	11.3
WIN 1991	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SPR 1992	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SUM 1992	0.0	11.2	11.2	56.5	56.5	11.3	11.3
WIN 1992	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SPR 1993	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SUM 1993	0.0	11.2	11.2	56.5	56.5	11.3	11.3
WIN 1993	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SPR 1994	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SUM 1994	0.0	11.2	11.2	56.5	56.5	11.3	11.3
WIN 1994	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SPR 1995	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SUM 1995	0.0	11.2	11.2	56.5	56.5	11.3	11.3
WIN 1995	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SPR 1996	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SUM 1996	0.0	11.2	11.2	56.5	56.5	11.3	11.3
WIN 1996	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SPR 1997	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SUM 1997	0.0	11.2	11.2	56.5	56.5	11.3	11.3
WIN 1997	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SPR 1998	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SUM 1998	0.0	11.2	11.2	56.5	56.5	11.3	11.3
WIN 1998	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SPR 1999	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SUM 1999	0.0	11.2	11.2	56.5	56.5	11.3	11.3
WIN 1999	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SPR 2000	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SUM 2000	0.0	11.2	11.2	56.5	56.5	11.3	11.3
WIN 2000	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SPR 2001	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SUM 2001	0.0	11.2	11.2	56.5	56.5	11.3	11.3
WIN 2001	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SPR 2002	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SUM 2002	0.0	11.2	11.2	56.5	56.5	11.3	11.3
WIN 2002	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SPR 2003	0.0	11.2	11.2	56.5	56.5	11.3	11.3
SUM 2003	0.0	11.2	11.2	56.5	56.5	11.3	11.3

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WIN 2003	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SPR 2004	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SUM 2004	0.0	11.3	11.3	56.5	56.5	11.3	11.3
WIN 2004	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SPR 2005	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SUM 2005	0.0	11.3	11.3	56.5	56.5	11.3	11.3
WIN 2005	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SPR 2006	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SUM 2006	0.0	11.3	11.3	56.5	56.5	11.3	11.3
WIN 2006	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SPR 2007	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SUM 2007	0.0	11.3	11.3	56.5	56.5	11.3	11.3
WIN 2007	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SPR 2008	0.0	11.3	11.3	56.5	56.5	0.0	11.3
SUM 2008	0.0	11.3	11.3	56.5	56.5	0.0	11.3
WIN 2008	0.0	11.3	11.3	56.5	56.5	0.0	11.3
SPR 2009	0.0	11.3	11.3	56.5	56.5	0.0	11.3
SUM 2009	0.0	11.3	11.3	56.5	56.5	0.0	11.3
WIN 2009	0.0	11.3	11.3	56.5	56.5	0.0	11.3
SPR 2010	0.0	11.3	11.3	56.5	56.5	0.0	11.3
SUM 2010	0.0	11.3	11.3	56.5	56.5	0.0	11.3
WIN 2010	0.0	11.3	11.3	56.5	56.5	0.0	11.3
SPR 2011	0.0	11.3	11.3	56.5	56.5	0.0	11.3
SUM 2011	0.0	11.3	11.3	56.5	56.5	0.0	11.3
WIN 2011	0.0	11.3	11.3	56.5	56.5	0.0	11.3
SPR 2012	0.0	11.3	11.3	56.5	56.5	0.0	11.3
SUM 2012	0.0	11.3	11.3	56.5	56.5	0.0	11.3
WIN 2012	0.0	11.3	11.3	56.5	56.5	0.0	11.3
SPR 2013	0.0	11.3	11.3	56.5	56.5	0.0	11.3
SUM 2013	0.0	11.3	11.3	56.5	56.5	0.0	11.3
WIN 2013	0.0	11.3	11.3	56.5	56.5	0.0	11.3
SPR 2014	0.0	11.3	11.3	56.5	56.5	0.0	11.3
SUM 2014	0.0	11.3	11.3	56.5	56.5	0.0	11.3
WIN 2014	0.0	11.3	11.3	56.5	56.5	0.0	11.3
SPR 2015	0.0	11.3	11.3	56.5	56.5	0.0	11.3
SUM 2015	0.0	11.3	11.3	56.5	56.5	0.0	11.3
WIN 2015	0.0	11.3	11.3	56.5	56.5	0.0	11.3
SPR 2016	0.0	11.3	11.3	56.5	56.5	0.0	11.3
SUM 2016	0.0	11.3	11.3	56.5	56.5	0.0	11.3
WIN 2016	0.0	11.3	11.3	56.5	56.5	0.0	11.3
SPR 2017	75.0	0.0	11.3	0.0	56.5	0.0	11.3
SUM 2017	75.0	0.0	11.3	0.0	56.5	0.0	11.3
WIN 2017	75.0	0.0	11.3	0.0	56.5	0.0	11.3
SPR 2018	75.0	0.0	11.3	0.0	56.5	0.0	11.3
SUM 2018	75.0	0.0	11.3	0.0	56.5	0.0	11.3
WIN 2018	75.0	0.0	11.3	0.0	56.5	0.0	11.3
SPR 2019	0.0	0.0	11.3	0.0	56.5	11.3	11.3
SUM 2019	0.0	0.0	11.3	0.0	56.5	11.3	11.3
WIN 2019	0.0	0.0	11.3	0.0	56.5	11.3	11.3
SPR 2020	0.0	0.0	11.3	0.0	56.5	11.3	11.3
SUM 2020	0.0	0.0	11.3	0.0	56.5	11.3	11.3
WIN 2020	0.0	0.0	11.3	0.0	56.5	11.3	11.3
SPR 2021	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SUM 2021	0.0	11.3	11.3	56.5	56.5	11.3	11.3
WIN 2021	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SPR 2022	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SUM 2022	0.0	11.3	11.3	56.5	56.5	11.3	11.3
WIN 2022	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SPR 2023	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SUM 2023	0.0	11.3	11.3	56.5	56.5	11.3	11.3
WIN 2023	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SPR 2024	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SUM 2024	0.0	11.3	11.3	56.5	56.5	11.3	11.3
WIN 2024	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SPR 2025	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SUM 2025	0.0	11.3	11.3	56.5	56.5	11.3	11.3
WIN 2025	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SPR 2026	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SUM 2026	0.0	11.3	11.3	56.5	56.5	11.3	11.3
WIN 2026	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SPR 2027	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SUM 2027	0.0	11.3	11.3	56.5	56.5	11.3	11.3
WIN 2027	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SPR 2028	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SUM 2028	0.0	11.3	11.3	56.5	56.5	11.3	11.3
WIN 2028	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SPR 2029	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SUM 2029	0.0	11.3	11.3	56.5	56.5	11.3	11.3
WIN 2029	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SPR 2030	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SUM 2030	0.0	11.3	11.3	56.5	56.5	11.3	11.3
WIN 2030	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SPR 2031	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SUM 2031	0.0	11.3	11.3	56.5	56.5	11.3	11.3
WIN 2031	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SPR 2032	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SUM 2032	0.0	11.3	11.3	56.5	56.5	11.3	11.3
WIN 2032	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SPR 2033	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SUM 2033	0.0	11.3	11.3	56.5	56.5	11.3	11.3
WIN 2033	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SPR 2034	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SUM 2034	0.0	11.3	11.3	56.5	56.5	11.3	11.3
WIN 2034	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SPR 2035	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SUM 2035	0.0	11.3	11.3	56.5	56.5	11.3	11.3
WIN 2035	0.0	11.3	11.3	56.5	56.5	11.3	11.3
SPR 2036	0.0	11.3	11.3	56.5	56.5	11.3	11.3

APR 12 2017

DEPARTMENT OF
WATER RESOURCES[illegible]

RECEIVED

FEB 14 2017

DEPARTMENT OF
WATER RESOURCES

Mitigation Analysis Period

Transfer 1 2 Transfer 2
Arrival AF-11

Total Reach Depletion Impacts

AFIT: 0.0 0.0 0.0 -0.02 0.0 0.0 0.0 0.0 0.0

One-Way Analysis of Independent Transfers

Transfer 1: Rental of 79 acres from Lisa to Winters Road

WR No.	Div. Rate (CF8)	Con. Vol. (AFA)	No. of In Acres	Priority Date	POD Location	Dedicated Vol. AFA/ AFT	Model Node
Transfer 1: Proposed Steady State Impacts following Transfer							
Transfer: Worst Case Transient State Impacts following Transfer							

100.0% Pre-88 287.3 AFA 79.0 Acres
100.0% Post-88 287.3 AFA 79.0 Acres

Impact by Reach (AF/Transfer)

Ashton to Redburg	Hesse to Shelby	Shelby to Mr Blackf	Mr Blackf To Hesse	Hesse to Minnoka	Dev. Wht. To Buhl	Buhl to 1000 Spr	1000 Spr to 1000 Spr to Mated	Mated to Mated to Bancroft		
1.84	5.48	15.64	53.29	1.53	4.88	5.55	2.47	1.58	1.42	0.09
1.83	5.48	15.64	53.27	1.53	4.88	5.55	2.48	1.55	1.42	0.09
1.84	5.48	15.64	53.29	1.53	4.88	5.55	2.47	1.58	1.42	0.09
1.83	5.48	15.64	53.27	1.53	4.88	5.55	2.48	1.55	1.42	0.09

Steady State Analysis	Mitigation Check 1 - >10% of Historical	-0.2%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Mitigation Check 2 - >2 AFT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Mitigation Check 3 - >10% of Total	1.5%	0.6%	17.5%	56.2%	1.6%	5.9%	2.6%	1.6%	1.5%	0.1%
	Mitigation Required?	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Mitigation Vol. Req'd (ac-ft)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Transient State Analysis	Mitigation Check 1 - >10% of Historical	-0.2%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Mitigation Check 2 - >2 AFT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Mitigation Required?	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Mitigation Vol. Req'd (ac-ft)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Main Map

Transfer 2:

WR No.	Div. Rate (CF8)	Con. Vol. (AFA)	No. of In Acres	Priority Date	POD Location	Dedicated Vol. AFA/ AFT	Model Node
Transfer: Proposed Steady State Impacts following Transfer							
Transfer: Worst Case Transient State Impacts following Transfer							

0.0% Pre-88 0.0 AFA 0.0 Acres
0.0% Post-88 0.0 AFA 0.0 Acres

Impact by Reach (AF/Transfer)

Ashton to Redburg	Hesse to Shelby	Shelby to Mr Blackf	Mr Blackf To Hesse	Hesse to Minnoka	Dev. Wht. To Buhl	Buhl to 1000 Spr	1000 Spr to 1000 Spr to Mated	Mated to Mated to Bancroft
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Steady State Analysis	Mitigation Check 1 - >10% of Historical	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Mitigation Check 2 - >2 AFT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Mitigation Check 3 - >10% of Total	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Mitigation Required?	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Mitigation Vol. Req'd (ac-ft)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Transient State Analysis	Mitigation Check 1 - >10% of Historical	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Mitigation Check 2 - >2 AFT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Mitigation Required?	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Mitigation Vol. Req'd (ac-ft)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SUPERCEDED

Evaluation of overall mitigation requirements per reach, Steady State and Transient State, and Limiting Benefits (sum of reach debits only where mitigation is required and credits)

Carry out one way analysis. If reach depletions go up, it is a debit, if they go down, it is a credit. Sum all debits, only where mitigation is required (dark yellow), and all credits (light yellow). Mitigation is required for the full amount of the summed values if greater than zero.

Steady state analysis represents permanent mitigation requirements at future steady state (or last timestep from the ESPAM Transfer Tool model run).

Transient state analysis represents mitigation requirements for the worst or maximum time step in the model run.

Steady State Summary of Modified Stream Depletions Following Transfer(s)											
Impact by Reach (AF/Trimester)											
Action to	From to	Shelley to	Ne Black To	Nealey to	Dev. Wrt. To	Burn to	1000 Spr	1000 Spr to	Mixed	Mixed to	Burnoff
Reedburg	Shelley	Ne Black	Nealey	Minick	Burn	1000 Spr					
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Summary	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Transient State Summary of Modified Stream Depletions Following Transfer(s)											
Impact by Reach (AF/Trimester)											
Action to	From to	Shelley to	Ne Black To	Nealey to	Dev. Wrt. To	Burn to	1000 Spr	1000 Spr to	Mixed	Mixed to	Burnoff
Reedburg	Shelley	Ne Black	Nealey	Minick	Burn	1000 Spr					
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Summary	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Evaluation of Permanent Mitigation Efforts (non-use, acreage consolidation) [In Addition to Off-Setting Transfer Benefits - Steady State Evaluation Only]

Set Aside 1 (Non-Use/Desiccation):

Wt. No.	Div. Rate	Cont. Vol.	No. of Int.	Priority	POD	Dedicated Vol.	Model
(CF8)	(AFA)	(AFA)	(AFA)	(AFA)	(AFA)	(AFA)	(AFA)

Non-Use: Proposed Steady State Impacts following Change

Non-Use 1: Worst Case Transient State Impacts following Change

Impact by Reach (AF/Trimester)											
Impact by Reach (AF/Trimester)											
Action to	From to	Shelley to	Ne Black To	Nealey to	Dev. Wrt. To	Burn to	1000 Spr	1000 Spr to	Mixed	Mixed to	Burnoff
Reedburg	Shelley	Ne Black	Nealey	Minick	Burn	1000 Spr					

Printable

SS Reach Impacts	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TS Reach Impacts	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Re-evaluation of overall mitigation requirements per reach, Steady State Only (sum of reach debits only where mitigation is required and credits)

Steady State Summary of Modified Stream Depletions Following Transfer(s)											
Impact by Reach (AF/Trimester)											
Action to	From to	Shelley to	Ne Black To	Nealey to	Dev. Wrt. To	Burn to	1000 Spr	1000 Spr to	Mixed	Mixed to	Burnoff
Reedburg	Shelley	Ne Black	Nealey	Minick	Burn	1000 Spr					
Total 1-Way Transfer Depletions	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Mitigation Credits	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Summary	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Transient State Summary of Modified Stream Depletions Following Transfer(s)											
Impact by Reach (AF/Trimester)											
Action to	From to	Shelley to	Ne Black To	Nealey to	Dev. Wrt. To	Burn to	1000 Spr	1000 Spr to	Mixed	Mixed to	Burnoff
Reedburg	Shelley	Ne Black	Nealey	Minick	Burn	1000 Spr					

Total 1-Way Transfer Depletions	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Mitigation Credits	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Summary	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SUPERCEDED

ENHANCED GROUND-WATER RIGHTS TRANSFER

UNIVERSITY OF IDAHO - IDAHO WATER RESOURCES RESEARCH INSTITUTE

IDAHO DEPARTMENT OF AGRICULTURE

Cells this color are set up for user entries

ENTER STARTING DATE FOR SIMULATION. THEN PUSH "UPDATE DATES" BUTTON

TRANSFER NO:

YEAR

1950

TRANSFER NAME:

SEASON

SPRING

ENTER CELL LOCATIONS:

'TO' CELL

'FROM1' CELL

'FROM2' CELL

'FROM3' CELL

79

287.3

ROW

86

82

COLUMN

109

92

TRIMESTER OF ACTIVITY	TO WELL Protected Use AF/TRIMESTER	FROM1 WELL		FROM2 WELL		FROM3 WELL	
		With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER	With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER	With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER
SPR 1950	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 1950	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 1950	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPR 1951	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 1951	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 1951	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPR 1952	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 1952	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 1952	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPR 1953	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 1953	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 1953	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPR 1954	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 1954	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 1954	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPR 1955	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 1955	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 1955	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPR 1956	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 1956	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 1956	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPR 1957	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 1957	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 1957	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPR 1958	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 1958	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 1958	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPR 1959	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 1959	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 1959	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPR 1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPR 1961	0.0	95.8	95.8	0.0	0.0	0.0	0.0
SUM 1961	0.0	95.8	95.8	0.0	0.0	0.0	0.0
WIN 1961	0.0	95.8	95.8	0.0	0.0	0.0	0.0
SPR 1962	0.0	95.8	95.8	0.0	0.0	0.0	0.0
SUM 1962	0.0	95.8	95.8	0.0	0.0	0.0	0.0
WIN 1962	0.0	95.8	95.8	0.0	0.0	0.0	0.0
SPR 1963	0.0	95.8	95.8	0.0	0.0	0.0	0.0
SUM 1963	0.0	95.8	95.8	0.0	0.0	0.0	0.0
WIN 1963	0.0	95.8	95.8	0.0	0.0	0.0	0.0
SPR 1964	0.0	95.8	95.8	0.0	0.0	0.0	0.0
SUM 1964	0.0	95.8	95.8	0.0	0.0	0.0	0.0
WIN 1964	0.0	95.8	95.8	0.0	0.0	0.0	0.0
SPR 1965	0.0	95.8	95.8	0.0	0.0	0.0	0.0
SUM 1965	0.0	95.8	95.8	0.0	0.0	0.0	0.0
WIN 1965	0.0	95.8	95.8	0.0	0.0	0.0	0.0
SPR 1966	0.0	95.8	95.8	0.0	0.0	0.0	0.0
SUM 1966	0.0	95.8	95.8	0.0	0.0	0.0	0.0
WIN 1966	0.0	95.8	95.8	0.0	0.0	0.0	0.0
SPR 1967	0.0	95.8	95.8	0.0	0.0	0.0	0.0
SUM 1967	0.0	95.8	95.8	0.0	0.0	0.0	0.0
WIN 1967	0.0	95.8	95.8	0.0	0.0	0.0	0.0
SPR 1968	0.0	95.8	95.8	0.0	0.0	0.0	0.0
SUM 1968	0.0	95.8	95.8	0.0	0.0	0.0	0.0
WIN 1968	0.0	95.8	95.8	0.0	0.0	0.0	0.0
SPR 1969	0.0	95.8	95.8	0.0	0.0	0.0	0.0
SUM 1969	0.0	95.8	95.8	0.0	0.0	0.0	0.0
WIN 1969	0.0	95.8	95.8	0.0	0.0	0.0	0.0
SPR 1970	0.0	95.8	95.8	0.0	0.0	0.0	0.0
SUM 1970	0.0	95.8	95.8	0.0	0.0	0.0	0.0
WIN 1970	0.0	95.8	95.8	0.0	0.0	0.0	0.0

[illegible]

