

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

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WATER RESOURCES

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Total Water Use Authorized Under Rental Agreement [Click here to enter text.](#)

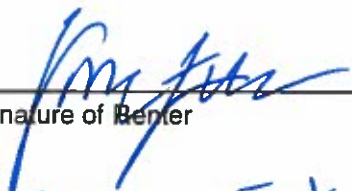
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STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WATER SUPPLY BANK RENTAL AGREEMENT NO. 160

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:

 5-10-17
Signature of Renter Date

Lois Funk owner
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  Date 5/16/2017
BRIAN PATTON, Acting Administrator
Idaho Water Resource Board

Rental approved by IDWR  Date 5-16-2017

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

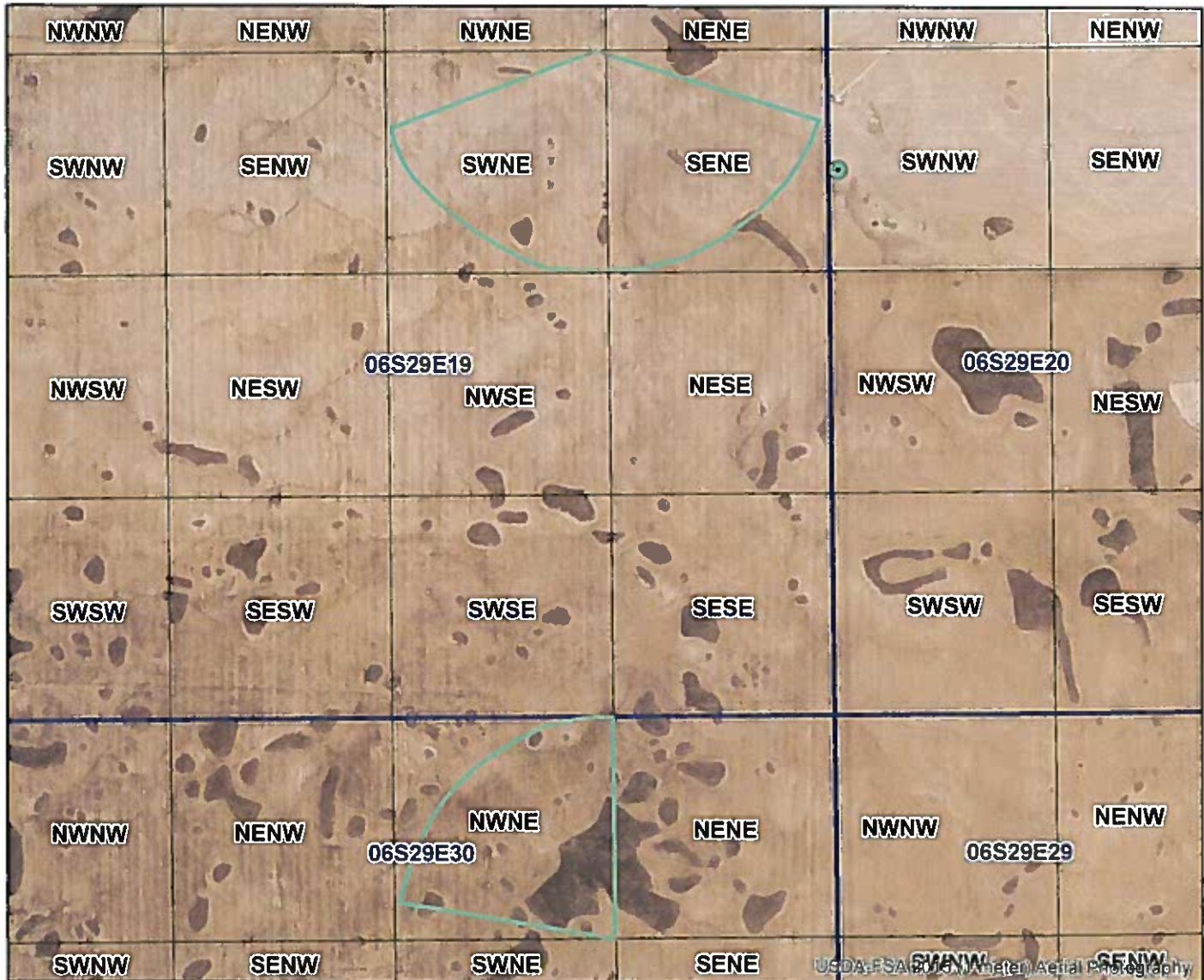
9. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 4.0 afa per acre at the field headgate for irrigation of the place of use.
10. This rental agreement does not authorize the construction of a well.
11. The right holder shall maintain a measuring 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.



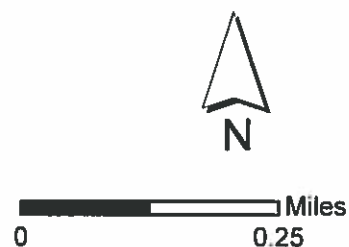
Idaho Water Resource Board
Water Supply Bank Rental Agreement No. 160

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

RECEIVED

FEB 14 2017

DEPARTMENT OF
WATER RESOURCESAPPLICATION TO RENT WATER
FROM THE BOARD'S WATER SUPPLY BANKApplicant 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

Yes ☒ No ☐

4. RENTAL REQUESTS FOR SPECIFIC WATER RIGHTS

A. Are you requesting to rent specific water rights?

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)
35-14040	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
						CFS	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

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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 to Bank, minus water right elements involved in active rental agreements, equals water right elements available for rent

**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:

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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? Yes ☒ No ☐
If yes, describe:
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

Lana Funk
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,

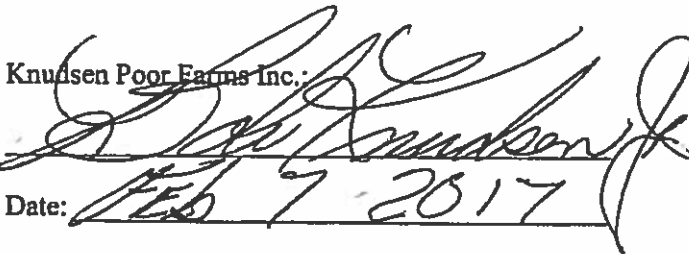
Knudsen Poor Farms Inc. and Lance Funk have in place a long term farm lease agreement or contract for property owned by Knudsen Poor Farms Inc. The contract includes the property, water rights and water distribution systems pertaining to water rights 35-2391 and 35-7777.

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.

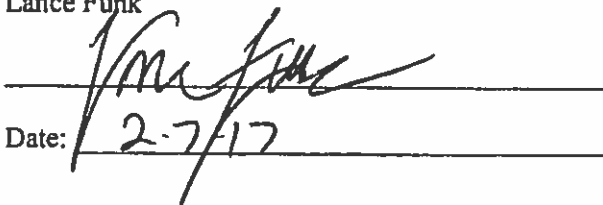
Lance Funk will pay the Idaho Water Supply Bank the 2017 10% rental fee when the rental agreement is signed and submitted to IDWR. Lance Funk will pay the 10% rental fee for the 2017-2020 irrigation seasons.

Knudsen Poor Farms Inc.:



Date:

Lance Funk

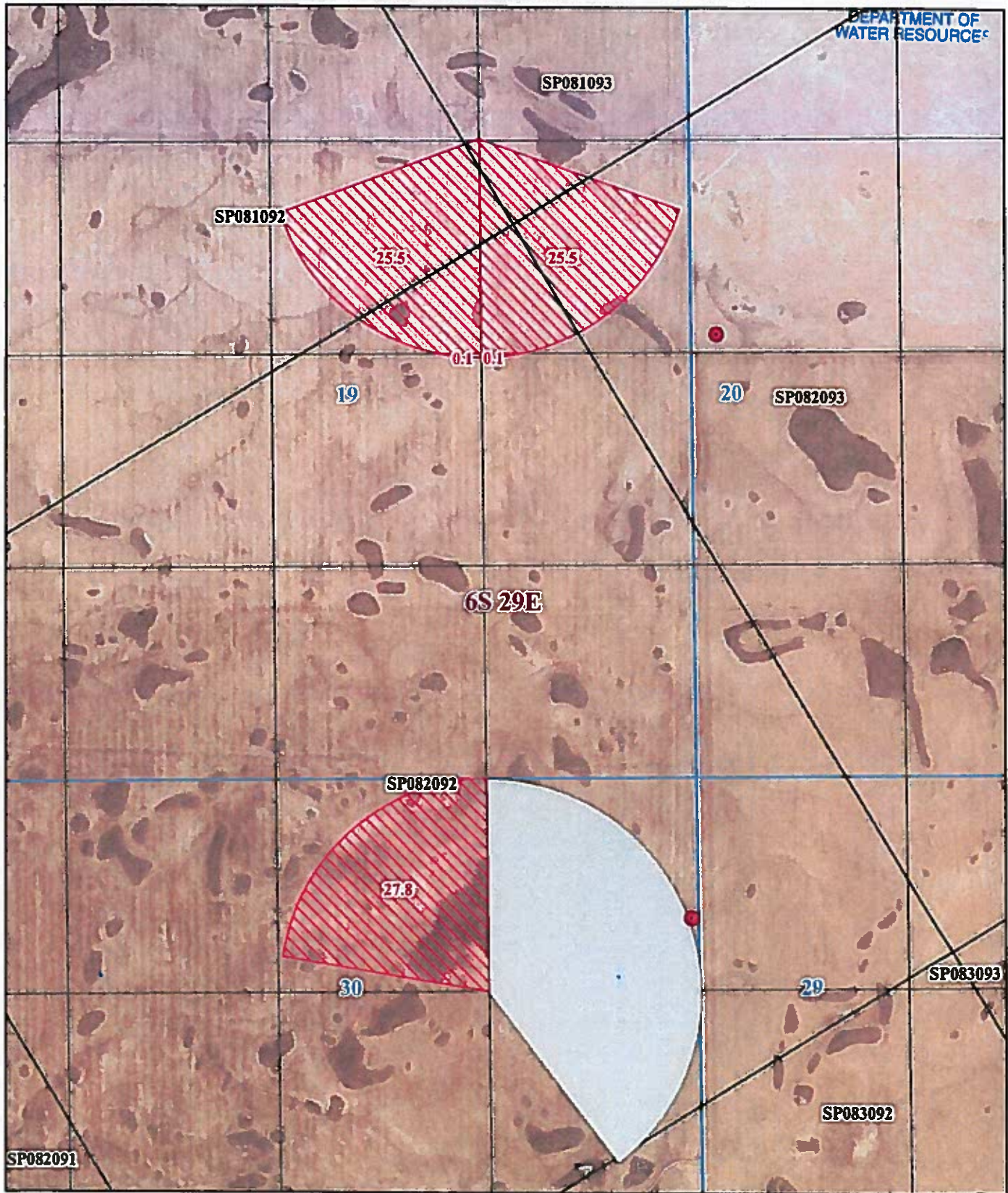


Date:

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



0 250 500 1,000 Feet

FUNK, LANCE

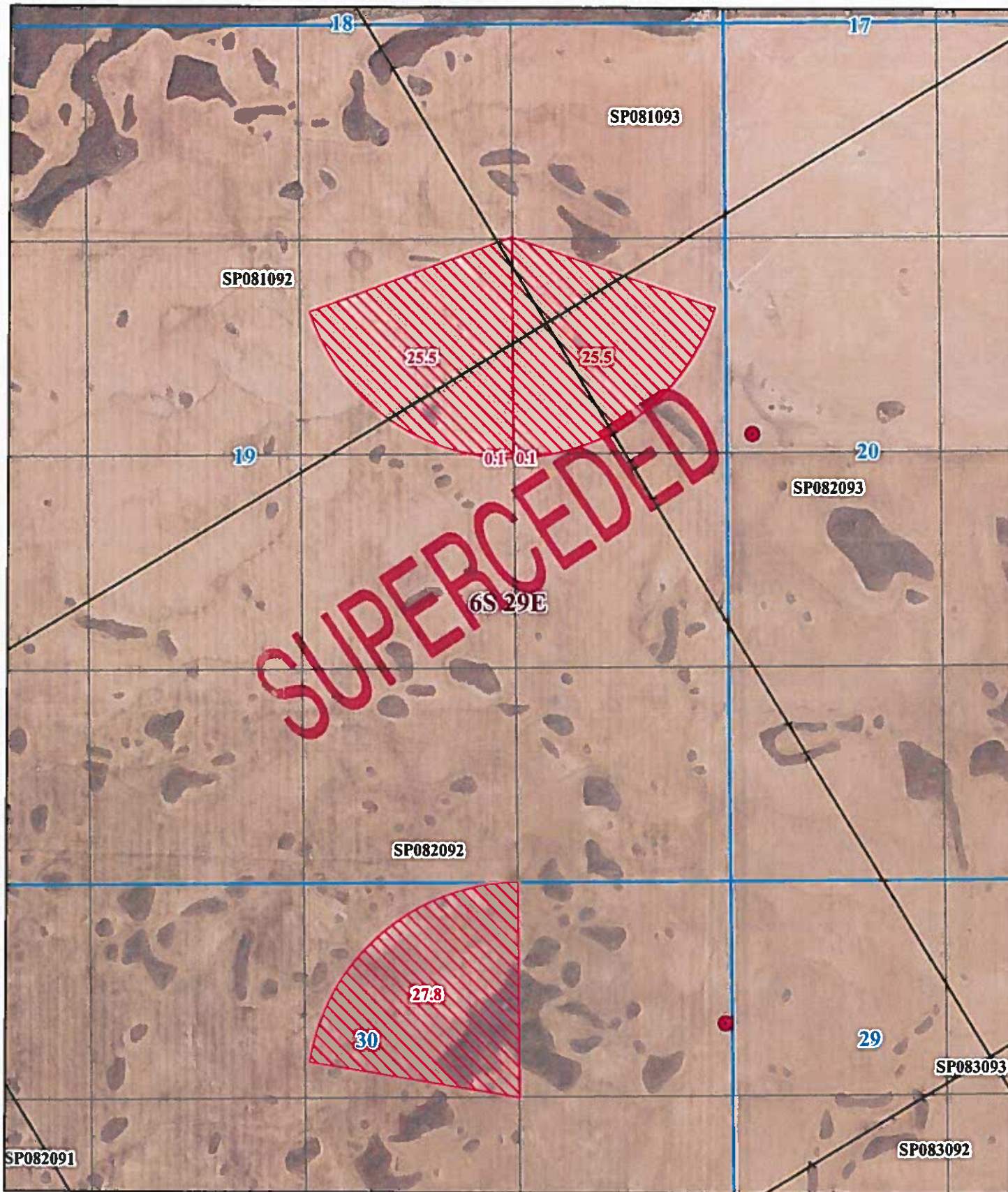
**WATER BANK RENTAL 2017
NAIP 2015 AERIAL**

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

Legend

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

N



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APR 12 2017

DEPARTMENT OF
WATER RESOURCES

Mitigation Analysis Period

Trimester
Annus 1 2 Trimester)
As (i)

Total Reach Depletion Impacts

AFIT: 0.0 0.0 0.0 0.0 0.2 0.9 1.0 0.5 0.3 0.2 0.0

One-Way Analysis of Independent Transfers

Transfer 1: Rental of 79 acres from KBC and Knudson to Winters Road

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

100.0% Pre-SS 318.0 AFA 79.0 Acres
100.0% Post-SS 318.0 AFA 79.0 Acres

Impact by Reach (AF/Trimester)

Ashburn to Rensburg	Hesse to Shelby	Shelby to Hs Backfl	Hs Backfl to Hestey	Hestey to Mandakia	Dev. Writ. To BuH	BuH to 1000 Spr	1000 Spr to 1000 Spr to Meted	Meted to Barcroft
1.82	5.48	18.77	51.28	0.30	0.95	1.08	0.48	0.30
1.81	5.48	18.77	51.28	0.30	0.95	1.08	0.48	0.30
1.82	5.48	18.77	51.28	0.30	0.95	1.08	0.48	0.30
1.81	5.48	18.77	51.28	0.54	1.81	2.11	0.83	0.58

Steady State Analysis	Mitigation Check 1 - >10% of Historical:	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Mitigation Check 2: > 2 AFIT:	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:	2.3%	7.0%	81.3%	65.1%	0.4%	1.2%	1.4%	0.8%	0.4%	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:	-0.1%	0.0%	0.0%	0.0%	79.4%	96.2%	81.8%	94.6%	82.8%	84.7%
	Mitigation Check 2: > 2 AFIT:	0.0	0.0	0.0	0.0	0.24	0.88	1.0	0.5	0.3	0.2
	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	0.24	0.88	1.0	0.5	0.3	0.2

Transfer 2:

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

0.0% Pre-SS 0.0 AFA 0.0 Acres
0.0% Post-SS 0.0 AFA 0.0 Acres

Impact by Reach (AF/Trimester)

Ashburn to Rensburg	Hesse to Shelby	Shelby to Hs Backfl	Hs Backfl to Hestey	Hestey to Mandakia	Dev. Writ. To BuH	BuH to 1000 Spr	1000 Spr to 1000 Spr to Meted	Meted to Barcroft
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 AFIT:	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 AFIT:	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

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 DEPT

Cells this color are
set up for user entries

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

TRANSFER NO:

YEAR
SEASON

1950

SPRING

TRANSFER NAME:

ENTER CELL LOCATIONS:

	TO CELL	FROM1 CELL	FROM2 CELL	FROM3 CELL	35-2391	11.2	33.6
ROW	83	71	71	66	35-7777	\$6.5	169.5
COLUMN	92	130	130	128	35-14040	11.3	33.9

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	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		

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WATER RESOURCES

WIN 2003	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SPR 2004	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SUM 2004	0.0	11.2	11.2	54.5	54.5	11.3	11.3
WIN 2004	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SPR 2005	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SUM 2005	0.0	11.2	11.2	54.5	54.5	11.3	11.3
WIN 2005	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SPR 2006	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SUM 2006	0.0	11.2	11.2	54.5	54.5	11.3	11.3
WIN 2006	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SPR 2007	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SUM 2007	0.0	11.2	11.2	54.5	54.5	11.3	11.3
WIN 2007	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SPR 2008	0.0	11.2	11.2	54.5	54.5	0.0	11.3
SUM 2008	0.0	11.2	11.2	54.5	54.5	0.0	11.3
WIN 2008	0.0	11.2	11.2	54.5	54.5	0.0	11.3
SPR 2009	0.0	11.2	11.2	54.5	54.5	0.0	11.3
SUM 2009	0.0	11.2	11.2	54.5	54.5	0.0	11.3
WIN 2009	0.0	11.2	11.2	54.5	54.5	0.0	11.3
SPR 2010	0.0	11.2	11.2	54.5	54.5	0.0	11.3
SUM 2010	0.0	11.2	11.2	54.5	54.5	0.0	11.3
WIN 2010	0.0	11.2	11.2	54.5	54.5	0.0	11.3
SPR 2011	0.0	11.2	11.2	54.5	54.5	0.0	11.3
SUM 2011	0.0	11.2	11.2	54.5	54.5	0.0	11.3
WIN 2011	0.0	11.2	11.2	54.5	54.5	0.0	11.3
SPR 2012	0.0	11.2	11.2	54.5	54.5	0.0	11.3
SUM 2012	0.0	11.2	11.2	54.5	54.5	0.0	11.3
WIN 2012	0.0	11.2	11.2	54.5	54.5	0.0	11.3
SPR 2013	0.0	11.2	11.2	54.5	54.5	0.0	11.3
SUM 2013	0.0	11.2	11.2	54.5	54.5	0.0	11.3
WIN 2013	0.0	11.2	11.2	54.5	54.5	0.0	11.3
SPR 2014	0.0	11.2	11.2	54.5	54.5	0.0	11.3
SUM 2014	0.0	11.2	11.2	54.5	54.5	0.0	11.3
WIN 2014	0.0	11.2	11.2	54.5	54.5	0.0	11.3
SPR 2015	0.0	11.2	11.2	54.5	54.5	0.0	11.3
SUM 2015	0.0	11.2	11.2	54.5	54.5	0.0	11.3
WIN 2015	0.0	11.2	11.2	54.5	54.5	0.0	11.3
SPR 2016	0.0	11.2	11.2	54.5	54.5	0.0	11.3
SUM 2016	0.0	11.2	11.2	54.5	54.5	0.0	11.3
WIN 2016	0.0	11.2	11.2	54.5	54.5	0.0	11.3
SPR 2017	79.9	0.0	11.2	0.0	54.5	0.0	11.3
SUM 2017	79.9	0.0	11.2	0.0	54.5	0.0	11.3
WIN 2017	79.9	0.0	11.2	0.0	54.5	0.0	11.3
SPR 2018	79.9	0.0	11.2	0.0	54.5	0.0	11.3
SUM 2018	79.9	0.0	11.2	0.0	54.5	0.0	11.3
WIN 2018	79.9	0.0	11.2	0.0	54.5	0.0	11.3
SPR 2019	0.0	0.0	11.2	0.0	54.5	11.3	11.3
SUM 2019	0.0	0.0	11.2	0.0	54.5	11.3	11.3
WIN 2019	0.0	0.0	11.2	0.0	54.5	11.3	11.3
SPR 2020	0.0	0.0	11.2	0.0	54.5	11.3	11.3
SUM 2020	0.0	0.0	11.2	0.0	54.5	11.3	11.3
WIN 2020	0.0	0.0	11.2	0.0	54.5	11.3	11.3
SPR 2021	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SUM 2021	0.0	11.2	11.2	54.5	54.5	11.3	11.3
WIN 2021	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SPR 2022	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SUM 2022	0.0	11.2	11.2	54.5	54.5	11.3	11.3
WIN 2022	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SPR 2023	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SUM 2023	0.0	11.2	11.2	54.5	54.5	11.3	11.3
WIN 2023	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SPR 2024	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SUM 2024	0.0	11.2	11.2	54.5	54.5	11.3	11.3
WIN 2024	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SPR 2025	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SUM 2025	0.0	11.2	11.2	54.5	54.5	11.3	11.3
WIN 2025	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SPR 2026	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SUM 2026	0.0	11.2	11.2	54.5	54.5	11.3	11.3
WIN 2026	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SPR 2027	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SUM 2027	0.0	11.2	11.2	54.5	54.5	11.3	11.3
WIN 2027	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SPR 2028	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SUM 2028	0.0	11.2	11.2	54.5	54.5	11.3	11.3
WIN 2028	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SPR 2029	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SUM 2029	0.0	11.2	11.2	54.5	54.5	11.3	11.3
WIN 2029	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SPR 2030	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SUM 2030	0.0	11.2	11.2	54.5	54.5	11.3	11.3
WIN 2030	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SPR 2031	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SUM 2031	0.0	11.2	11.2	54.5	54.5	11.3	11.3
WIN 2031	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SPR 2032	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SUM 2032	0.0	11.2	11.2	54.5	54.5	11.3	11.3
WIN 2032	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SPR 2033	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SUM 2033	0.0	11.2	11.2	54.5	54.5	11.3	11.3
WIN 2033	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SPR 2034	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SUM 2034	0.0	11.2	11.2	54.5	54.5	11.3	11.3
WIN 2034	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SPR 2035	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SUM 2035	0.0	11.2	11.2	54.5	54.5	11.3	11.3
WIN 2035	0.0	11.2	11.2	54.5	54.5	11.3	11.3
SPR 2036	0.0	11.2	11.2	54.5	54.5	11.3	11.3

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Mitigation Analysis Period

Transfer 1 2 Transfer 2
Annual AP-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 70 acres from Lise to Winters Road

WR No.	Div. Rate (CF8)	Con. Vol. (AFA)	No. of Int. 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-BS		267.3 AFA		79 0 Acres				
100 0%		Post-BS		267.3 AFA		79 0 Acres				
Impact by Reach (AF/Transfer)										
Ashton to Reuburg	Heese to Shelby	Shelby to Ne Blackf	Ne Blackf To Neesley	Neesley to Subedokas	Dev. Wht. To Buhl	Buhl to 1000 Spr	1000 Spr to Mated	Mated to Mated to Bancroft		
1.84	5.48	16.64	53.29	1.53	4.86	0.50	2.47	1.56	1.42	0.06
1.83	5.48	16.64	53.27	1.53	4.86	0.50	2.48	1.55	1.42	0.06
1.84	5.48	16.64	53.29	1.53	4.86	0.50	2.47	1.56	1.42	0.06
1.83	5.48	16.64	53.27	1.53	4.86	0.50	2.48	1.55	1.42	0.06
Steady State Analysis										
Mitigation Check 1 - >10% of Historical										
Mitigation Check 2 - > 2 AFT										
Mitigation Check 3 - >10% of Total										
Mitigation Required?:										
Mitigation Vol. Req'd (ac-ft)										
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Evaluation of overall mitigation requirements per reach, Steady State and Transient State, and Off-Setting 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 Reburg	Hesse to Shelley	Shelley to Hr Bickl	Hr Bickl To Nesley	Nesley to Minickla	Dev. Wtl. To Bunt	Bunt to 1000 Spr	1000 Spr to Mated	Mated to Buncroft	Mated to Buncroft	Mated to Buncroft	Mated to Buncroft
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 Reburg	Hesse to Shelley	Shelley to Hr Bickl	Hr Bickl To Nesley	Nesley to Minickla	Dev. Wtl. To Bunt	Bunt to 1000 Spr	1000 Spr to Mated	Mated to Buncroft	Mated to Buncroft	Mated to Buncroft	Mated to Buncroft
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 transient state mitigation requirement is not comprehensive across all time steps. Instead this evaluation finds the maximum stream depletion following the start of the transfer and looks at depletion amounts from that time step. In many instances this depletion is greater than the depletion associated with the steady state condition or final time step. This evaluation is merely an indicator of whether transient depletions must be considered, not an indicator of all transient impacts.

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/Dislocation):

WR No.	Div. Rate (CFR)	Con. Vol. (AF)	No. of Tr. Acres	Priority Date	POD Location	Dedicated Vol AF/ AFT	Model Node
Non-Use: Proposed Steady State Impacts following Change							
Non-Use 1: Worst Case Transient State Impacts following Change							

Impact by Reach (AF/Trimester)

Action to Reburg	Hesse to Shelley	Shelley to Hr Bickl	Hr Bickl To Nesley	Nesley to Minickla	Dev. Wtl. To Bunt	Bunt to 1000 Spr	1000 Spr to Mated	Mated to Buncroft	Mated to Buncroft	Mated to Buncroft	Mated to Buncroft
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

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 Reburg	Hesse to Shelley	Shelley to Hr Bickl	Hr Bickl To Nesley	Nesley to Minickla	Dev. Wtl. To Bunt	Bunt to 1000 Spr	1000 Spr to Mated	Mated to Buncroft	Mated to Buncroft	Mated to Buncroft	Mated to Buncroft
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 Reburg	Hesse to Shelley	Shelley to Hr Bickl	Hr Bickl To Nesley	Nesley to Minickla	Dev. Wtl. To Bunt	Bunt to 1000 Spr	1000 Spr to Mated	Mated to Buncroft	Mated to Buncroft	Mated to Buncroft	Mated to Buncroft
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

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

TRANSFER NO:

"UPDATE DATES" BUTTON

YEAR

1950

TRANSFER NAME:

SEASON

SPRING

ENTER CELL LOCATIONS:

'TO' CELL

'FROM1' CELL

'FROM2' CELL

'FROM3' CELL

79

257.3

ROW

86

82

COLUMN

109

92

TRIMESTER OF ACTIVITY	TO WELL	FROM1 WELL		FROM2 WELL		FROM3 WELL	
	Projected Use AF/TRIMESTER	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	95.0	95.0	0.0	0.0	0.0	0.0
SUM 1961	0.0	95.0	95.0	0.0	0.0	0.0	0.0
WIN 1961	0.0	95.0	95.0	0.0	0.0	0.0	0.0
SPR 1962	0.0	95.0	95.0	0.0	0.0	0.0	0.0
SUM 1962	0.0	95.0	95.0	0.0	0.0	0.0	0.0
WIN 1962	0.0	95.0	95.0	0.0	0.0	0.0	0.0
SPR 1963	0.0	95.0	95.0	0.0	0.0	0.0	0.0
SUM 1963	0.0	95.0	95.0	0.0	0.0	0.0	0.0
WIN 1963	0.0	95.0	95.0	0.0	0.0	0.0	0.0
SPR 1964	0.0	95.0	95.0	0.0	0.0	0.0	0.0
SUM 1964	0.0	95.0	95.0	0.0	0.0	0.0	0.0
WIN 1964	0.0	95.0	95.0	0.0	0.0	0.0	0.0
SPR 1965	0.0	95.0	95.0	0.0	0.0	0.0	0.0
SUM 1965	0.0	95.0	95.0	0.0	0.0	0.0	0.0
WIN 1965	0.0	95.0	95.0	0.0	0.0	0.0	0.0
SPR 1966	0.0	95.0	95.0	0.0	0.0	0.0	0.0
SUM 1966	0.0	95.0	95.0	0.0	0.0	0.0	0.0
WIN 1966	0.0	95.0	95.0	0.0	0.0	0.0	0.0
SPR 1967	0.0	95.0	95.0	0.0	0.0	0.0	0.0
SUM 1967	0.0	95.0	95.0	0.0	0.0	0.0	0.0
WIN 1967	0.0	95.0	95.0	0.0	0.0	0.0	0.0
SPR 1968	0.0	95.0	95.0	0.0	0.0	0.0	0.0
SUM 1968	0.0	95.0	95.0	0.0	0.0	0.0	0.0
WIN 1968	0.0	95.0	95.0	0.0	0.0	0.0	0.0
SPR 1969	0.0	95.0	95.0	0.0	0.0	0.0	0.0
SUM 1969	0.0	95.0	95.0	0.0	0.0	0.0	0.0
WIN 1969	0.0	95.0	95.0	0.0	0.0	0.0	0.0
SPR 1970	0.0	95.0	95.0	0.0	0.0	0.0	0.0
SUM 1970	0.0	95.0	95.0	0.0	0.0	0.0	0.0
WIN 1970	0.0	95.0	95.0	0.0	0.0	0.0	0.0

1/30/2017

[illegible]



State of Idaho

DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

May 17, 2017

LANCE FUNK
PO BOX 310
AMERICAN FALLS ID 83211

**RE: RENTAL OF WATER FROM THE WATER SUPPLY BANK
WATER RIGHT NOS. 35-2391, 35-7777 and 35-14040**

Dear Renter:

Please find enclosed a receipt in the amount of **\$2,806.36** and a copy of a fully executed Water Supply Bank Rental Agreement in connection with the rental of 338.0 acre-feet of water for irrigation of 79.0 acres during 2017. Upon receipt of this fully executed agreement, you are authorized to divert water in compliance with the conditions of water use described in the agreement.

Pursuant to the Water Supply Bank Rules, 90% or \$2,111.40 of the rental fee will be paid to the lessor(s) and 10% or \$694.96 will be retained by the Department to offset administrative costs.

If you have any questions, please contact this office at (208) 287-4800.

Sincerely,


for Water Supply Bank

Enclosures: Receipt No. C103561
Rental Agreement (copy)

c: Sascha Marston – Fiscal
James Cefalo – IDWR Eastern Regional Office/Water District 120
Greg Sullivan – Brockway Engineering
Bingham GWD



State of Idaho

DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

May 8, 2017

LANCE FUNK
PO BOX 310
AMERICAN FALLS ID 83211

**RE: APPLICATION TO RENT WATER FROM THE WATER SUPPLY BANK
WATER RIGHT NOS. 35-2391, 35-7777, and 35-14040**

*****TIME SENSITIVE RESPONSE REQUIRED*****

Dear Applicant:

The Department of Water Resources acknowledges receipt of your application to rent water from the Water Supply Bank. **I have enclosed a Water Supply Bank Rental Agreement for your review and signature.** Upon signature and return of the original agreement, together with the rental fee described below, the Department will also sign the original agreement and return an executed copy to you. Execution of the agreement and compliance with the conditions of approval authorize diversion and use of water as provided in the agreement.

A rental fee of \$2,806.36 was calculated based on the current rental rate of \$17.00 per acre-foot times a diversion volume of 338.0 acre-feet. An annual payment shall be received by the Department prior to the execution of this agreement and prior to January 1 in all subsequent years for the duration of the rental period. The agreement will be void if payment is not received prior to the due date in a given year. If you would like to terminate the agreement prior to the end of the rental period, you must submit written notice of your intent to the Department at least 30 days prior to the rental fee due date.

Please send a check for \$2,806.36 made payable to the Idaho Department of Water Resources, **together with the signed rental agreement, within 14 days** so I can complete processing. 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.

If you have any questions, please contact this office at (208) 287-4800.

Sincerely,

Water Supply Bank

Enclosure

c: IDWR Front Desk
Greg Sullivan-Brockway Engineering PLLC

Webster, Clay

From: Cefalo, James
Sent: Tuesday, May 02, 2017 1:47 PM
To: Webster, Clay
Subject: RE: Watermaster and Regional Comments on Rental Application 369 Funk

Clay,

I don't have any concerns with the proposed WSB Rental.

James

From: Webster, Clay
Sent: Tuesday, May 02, 2017 1:22 PM
To: Cefalo, James <James.Cefalo@idwr.idaho.gov>
Subject: Watermaster and Regional Comments on Rental Application 369 Funk

James,

We are currently processing this rental application. Do you have any concerns/comments? Thanks.

Clay

MEMORANDUM FOR APPLICATION # 369

To: Water Rights 35-2391, 35-7777 and 35-14040

From: Clay Webster

Date: 05/01/2017

Re: Review & Analysis of Application to Rent Water from the State Water Supply Bank

PURPOSE/NARRATIVE: The department received this application (369) to rent 1.53 cfs and 316 af to irrigate 79 acres located in two partial pivots located in the NE quarters of sections 19 and 30 in Twp 06S Rng 29E. The rest of the Southern pivot is being covered by a portion of rental application 370 and water rights 35-7632A, 35-14442 and 35-14443. The rest of the Northern pivot is covered by rental # 83. This application was received from Brockway Engineering on behalf of Lance Funk. The department sent a request for more information with concerns of enlargement and for clarification on points of diversion on 3/28/2017.

Greg Sullivan from Brockway Engineering drove to the State Office on 4/12/2017 to discuss this application and others. He hand delivered the modeling. He emailed an amendment to page 4 and a map on 4/13/2017. When asked about the rate of these three pivots, he explained that the system actually runs on 6.5 GPM per acre.

The current water rights and current rental give the system an average 0.016 cfs per acre. He proposes to rent an additional 0.34 cfs, 138 af appurtenant to 34.5 acres from 35-14040 to bump the rate of the existing 50 acres to make it feasible to run the southern pivot. The existing rights provide 0.52 cfs, 200 af to irrigate 50 acres.

WR 35-2391 provides 0.02 cfs to irrigate 11.2 acres, WR 35-7777 provides 0.017 cfs per acre to irrigate 38.8 acres, 35-14040 provides 0.01 cfs to irrigate 47.5 acres. 0.014 cfs per acre is needed to irrigate these pivots.

Application 369 is for 79.0 acres of irrigation, application 370.0 is for 95.6 acres of irrigation, application 383 is for 77.4 acres of irrigation. Rights 35-7632A, 35-14442 & 35-14443 provide 50 acres of irrigation. Rental agreement 83 provides irrigation of 74 acres.
 $79.0 + 95.6 + 77.4 + 50.0 + 74.0 = 376$ acres of irrigation is what they are covering with these rentals and the existing water rights.
 $376 \times 0.014 = 5.26$ cfs is what is needed for the system.

0.52 (current WRs) + 1.54 (current rental agreement 83) = 2.06 cfs currently available.

Application 383 will provide 1.49 cfs.

Application 369 will provide 1.22 cfs

Application 370 will provide 1.58 cfs

These total 6.35 cfs could provide enough rate for this system.

$6.35 - 5.26 = 1.09$ cfs to add to the 50 acres covered by the current water rights.

$1.09 + 0.52 = 1.61/50 = 0.03$ cfs per acre for southern pivot.

AUTHORITY TO FILE: These applications were all signed by Lance Funk. Current taxlot information shows that he is the owner at the POU's. One of the PODs is located on Lance Funk's property and one is located on Monty Funk's property. I will add the easement condition to the rental to keep the Board and Department from being held liable.

WATER RIGHT VALIDITY: 35-2391 is being leased into the WSB entirely from 2017 through 2020. 35-7777 was decreed in 2002 and is being leased into the bank from 2017 through 2020. 35-14040 has been continuously leased to the bank since 2008. It is currently leased from 2017 through 2018. I have no concerns of validity.

INJURY TO OTHER WATER RIGHTS: Modeling was provided by the consultant. Although they used the wrong to cell, the wrong from cell for 35-2391 and 35-7777, and the wrong volume for the "from 3 well", I ran the model with the corrected information and verified no mitigation was required.

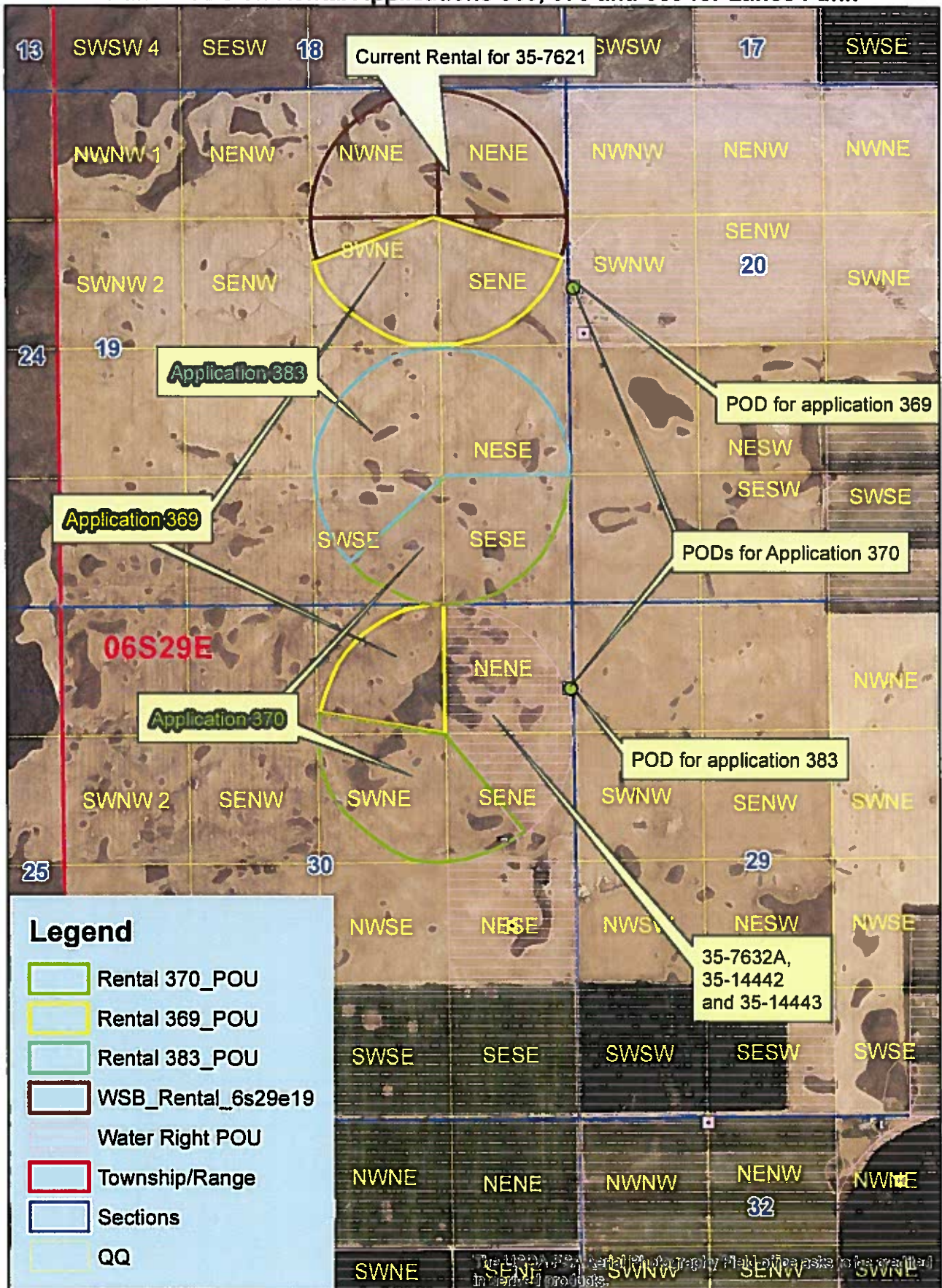
ENLARGEMENT OF USE: 35-7777 has combined limits with 35-2391, however they are all additive and these rights were leased to the bank separately. This rental will use 0.22 cfs and 44.8 af and 11.2 acres of 35-2391. They will rent 0.66 cfs and 155.2 af and 38.8 acres of right 35-7777. 35-14040 has a rate per acre that is similar to the water rights in place they will rent 0.34 cfs and 138 af and 34.5 acres of this right. Since the applicant is renting additional water to address the low rate of the existing water rights, I have no other enlargement concerns.

LOCAL PUBLIC INTEREST: Review staff has no information to suggest this application is inconsistent with the local public interest.

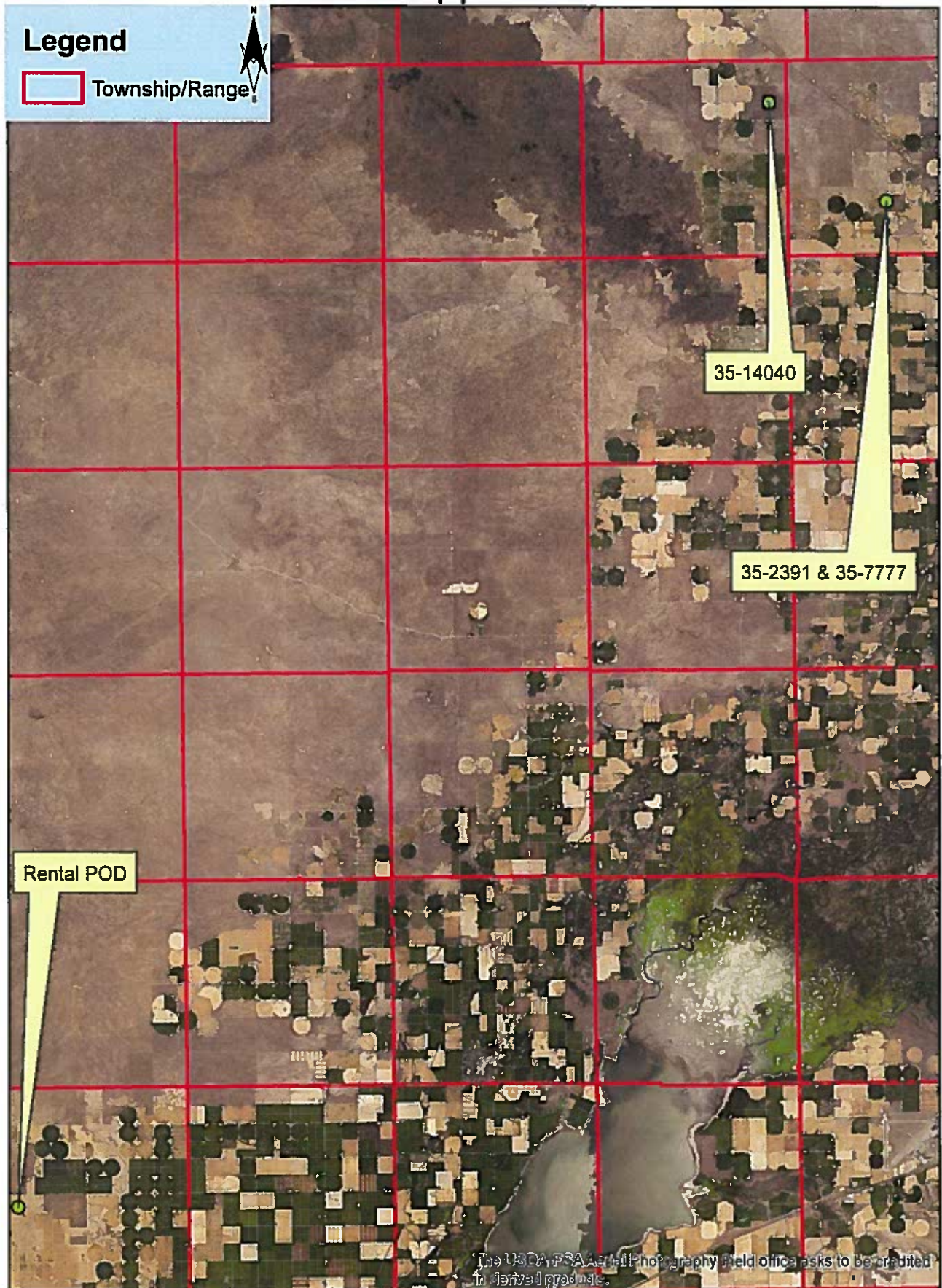
BENEFICIAL USE/CONSERVATION OF WATER RESOURCES: The rental appears consistent with the conservation of water resources in Idaho.

DEPARTMENT STAFF OR WATERMASTER COMMENTS: The location for the rental PD is subject to Water District # 120.

POUs and PODs on Rental Applications 369, 370 and 383 for Lance Funk



Funk Rental Application 369 2017



ENHANCED GROUND-WATER RIGHTS TRANSFER

UNIVERSITY OF IDAHO - IDAHO WATER RESOURCES RESEARCH INSTITUTE IDAHO DEPT

Cells this color are
set up for user entries

UPDATE
DATES

RUN
MODEL

GET
OUTPUT

ENTER STARTING DATE FOR

SIMULATION. THEN PUSH

"UPDATE DATES" BUTTON

YEAR 1954

SEASON WINTER

TRANSFER NO:

Rental

TRANSFER NAME:

Funk app 369

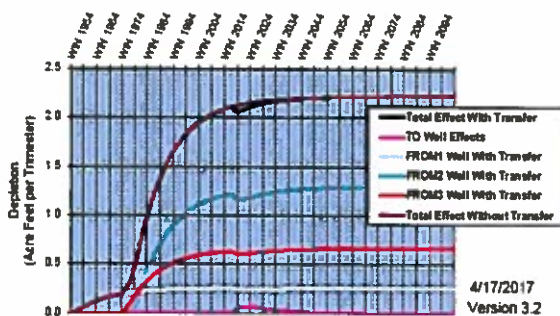
CALCULATE EFFECTS

ENTER CELL LOCATIONS:

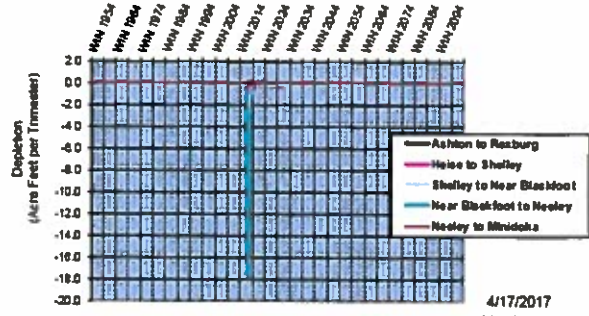
	'TO' CELL	'FROM1' CELL	'FROM2' CELL	'FROM3' CELL
ROW	82	70	70	66
COLUMN	92	130	130	128

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
WIN 1954	0	11	11	0	0	0	0
SPR 1955	0	11	11	0	0	0	0
SUM 1955	0	11	11	0	0	0	0
WIN 1955	0	11	11	0	0	0	0
WIN 1973	0	11	11	0	0	0	0
SPR 1974	0	11	11	0	0	29	29
SUM 1974	0	11	11	0	0	29	29
WIN 1974	0	11	11	0	0	29	29
SPR 1975	0	11	11	0	0	29	29
SUM 1975	0	11	11	0	0	29	29
WIN 1975	0	11	11	0	0	29	29
SPR 1976	0	11	11	0	0	29	29
SUM 1976	0	11	11	0	0	29	29
WIN 1976	0	11	11	0	0	29	29
SPR 1977	0	11	11	0	0	29	29
SUM 1977	0	11	11	0	0	29	29
WIN 1977	0	11	11	57	57	29	29
SPR 1978	0	11	11	57	57	29	29
SUM 2016	0	11	11	57	57	29	29
WIN 2016	0	11	11	57	57	29	29
SPR 2017	79	0	11	0	57	0	29
SUM 2017	79	0	11	0	57	0	29
WIN 2017	79	0	11	0	57	0	29
SPR 2018	0	11	11	57	57	29	29
SUM 2018	0	11	11	57	57	29	29
WIN 2018	0	11	11	57	57	29	29

Hydrologic Response--Ashton to Rexburg
Customer Name: Funk app 369 Transfer No: Rental



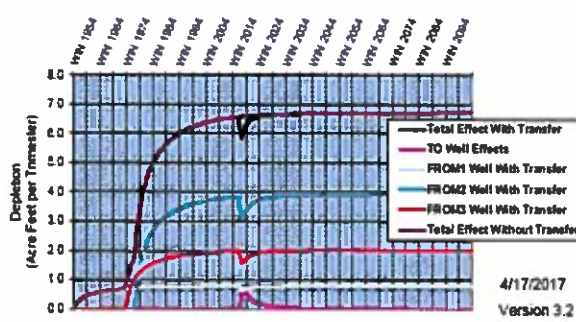
Net Transfer Effect Above Milner
(Total Effect With Transfer - Total Effect Without Transfer)



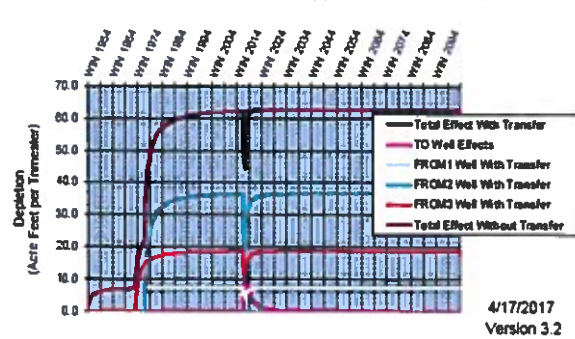
Customer Name: Funk app 369

Transfer No: Rental

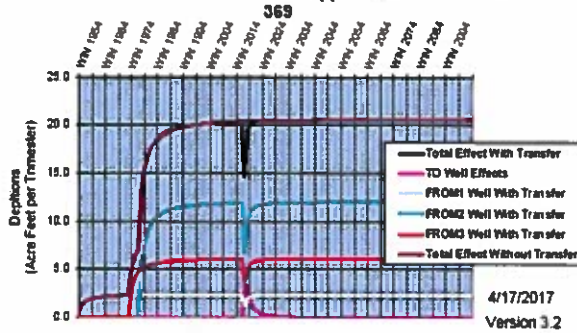
Hydrologic Response--Heise to Shelley
Customer Name: Funk app 369 Transfer No: Rental



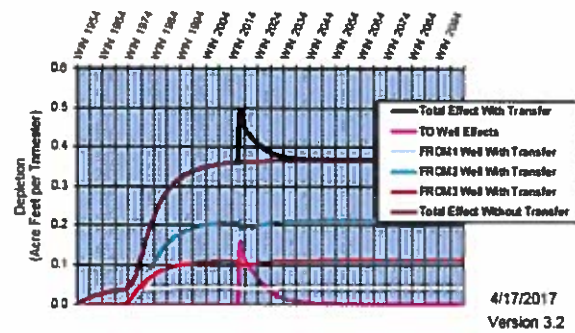
Hydrologic Response-- Near Blackfoot to Neeley
Customer Name: Funk app Transfer No: Rental



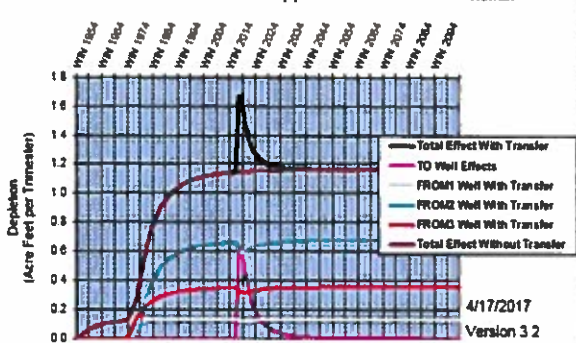
Hydrologic Response--Shelley to Near Blackfoot
Customer Name: Funk app 369 Transfer No: Rental



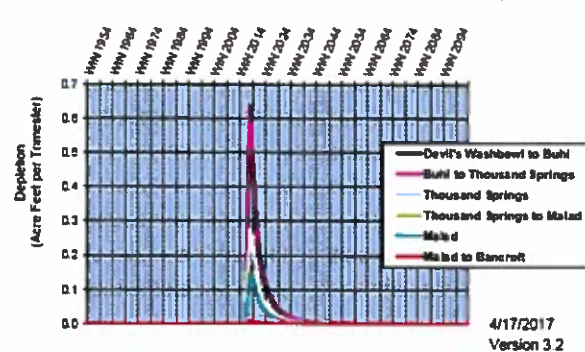
Hydrologic Response-- Neeley to Minidoka
Customer Name: Funk app 369 Transfer No: Rental



Hydrologic Response--Devil's Washbowl to Buhl
Customer Name: Funk app 369 Transfer No: Rental



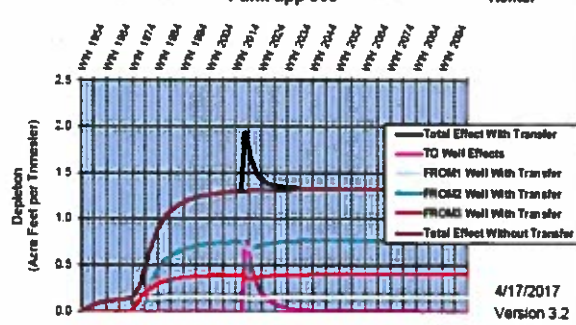
Net Transfer Effect Below Milner
(Total Effect With Transfer - Total Effect Without Transfer)



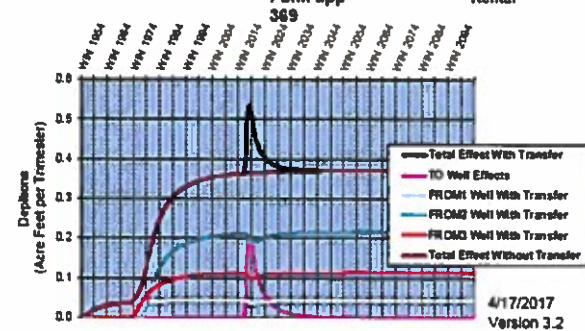
Customer Name: Funk app 369

Transfer No: Rental

Hydrologic Response--Buhl to Thousand Springs
Customer Name: Funk app 369 Transfer No: Rental



Hydrologic Response--Thousand Springs to Malad
Customer Name: Funk app 369 Transfer No: Rental

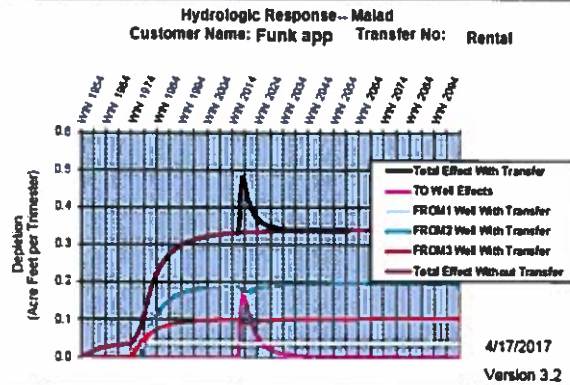


Disposition
(Acres Feet per Timester)

WY 1984 WY 1984 WY 1984 WY 1984 WY 1984 WY 2004 WY 2014 WY 2024 WY 2034 WY 2044 WY 2044 WY 2044 WY 2044 WY 2044 WY 2044

— Total Effect With Transfer
— TO Well Effects
— FROM1 Well With Transfer
— FROM2 Well With Transfer
— FROM3 Well With Transfer
— Total Effect Without Transfer

4/17/2017
Version 3.2



4/17/2017
Version 3.2

The graph displays the ratio of DWB to Buhl, Buhl to Kopr, Kopr to Maled, and Maled to Bancr over time. The Y-axis represents the Ratio (0.00 to 1.60), and the X-axis represents the Trimester (from 1984 to 2009). A horizontal red line indicates the 5% Limit at a ratio of 1.00. The Kopr to Maled ratio (light blue line) shows a significant spike around 2007, reaching approximately 1.45.

Trimester	DWB to Buhl	Buhl to Kopr	Kopr to Maled	Maled to Bancr
WIN 1984	1.00	1.00	1.00	1.00
SPR 1985	1.00	1.00	1.00	1.00
SUN 1975	1.00	1.00	1.00	1.00
WIN 1985	1.00	1.00	1.00	1.00
SPR 1996	1.00	1.00	1.00	1.00
SUN 2008	1.00	1.00	1.00	1.00
WIN 2016	1.00	1.00	1.00	1.00
SPR 2027	1.00	1.00	1.00	1.00
SUN 2037	1.00	1.00	1.00	1.00
WIN 2047	1.00	1.00	1.00	1.00
SPR 2059	1.00	1.00	1.00	1.00
SUN 2068	1.00	1.00	1.00	1.00
WIN 2078	1.00	1.00	1.00	1.00
SPR 2089	1.00	1.00	1.00	1.00
SUN 2099	1.00	1.00	1.00	1.00

[illegible]

Webster, Clay

From: Greg Sullivan <greg.sullivan@brockwayeng.com>
Sent: Thursday, April 13, 2017 10:53 AM
To: Webster, Clay
Subject: RE: Map for CSS Potato Farms Rental Applications
Attachments: Scan041320106.pdf

Clay,

See attached page for and associated aerial map of the 79.0 acre rental and the additional cfs rental that adds no volume or acres.

Greg Sullivan
Brockway Engineering
2016 North Washington Street, Suite 4
Twin Falls, Idaho 83301
208-736-8543

From: Webster, Clay [<mailto:Clay.Webster@idwr.idaho.gov>]
Sent: Thursday, April 13, 2017 9:27 AM
To: Greg Sullivan <greg.sullivan@brockwayeng.com>
Subject: RE: Map for CSS Potato Farms Rental Applications

Greg, Thanks for the catch. Will do.

Clay

From: Greg Sullivan [<mailto:greg.sullivan@brockwayeng.com>]
Sent: Thursday, April 13, 2017 9:15 AM
To: Webster, Clay <Clay.Webster@idwr.idaho.gov>
Subject: RE: Map for CSS Potato Farms Rental Applications

Thanks Clay. Make sure that is 35-7618 that is withdrawn and not 36-7618. LOL

Greg

From: Webster, Clay [<mailto:Clay.Webster@idwr.idaho.gov>]
Sent: Thursday, April 13, 2017 9:05 AM
To: Greg Sullivan <greg.sullivan@brockwayeng.com>
Subject: Map for CSS Potato Farms Rental Applications

Greg,

It was good to finally meet you. I hope your drive was uneventful yesterday evening. Here is the map that you asked me to send.

As discussed yesterday, I will use the release form for 36-7618 this morning as the basis for a withdrawal of that lease.

We will proceed with the processing of Rental Application 369, when we receive the amended page 4 and map. Thanks.

Sincerely,
Clay Webster
Water Resource Agent Sr.
clay.webster@idwr.idaho.gov
208-287-4910
Idaho Department of Water Resources (IDWR)

Webster, Clay

From: Greg Sullivan <greg.sullivan@brockwayeng.com>
Sent: Monday, April 03, 2017 11:31 AM
To: Webster, Clay
Subject: RE: WSB Rental applications 369, 383 and 370 for Lance Funk

Clay,

I recognize the concern that you have brought up concerning water rights 35-7632A, 35-14442 and 35-14443. Transfer 80631 was processed and approved by the Eastern IDWR office in 2016. The administration of 35-7632A, 35-14442 and 35-14443 is under the Eastern IDWR office to monitor and to recommend changes if needed.

Please process the rental applications 369 and 370 as the applications have been submitted to the Water Supply Bank. It is my understanding that a grain crop will be planted in this pivot for the 2017 season.

Greg Sullivan
Brockway Engineering
2016 North Washington Street, Suite 4
Twin Falls, Idaho 83301
208-736-8543

From: Webster, Clay [mailto:Clay.Webster@idwr.idaho.gov]
Sent: Wednesday, March 29, 2017 9:03 AM
To: Greg Sullivan <greg.sullivan@brockwayeng.com>
Subject: WSB Rental applications 369, 383 and 370 for Lance Funk

Greg,

The enclosed letter went out yesterday requesting additional information. I wanted to give you a head's up.

Sincerely,
Clay Webster
Water Resource Agent Sr.
clay.webster@idwr.idaho.gov
208-287-4910
Idaho Department of Water Resources (IDWR)

Webster, Clay

From: Greg Sullivan <greg.sullivan@brockwayeng.com>
Sent: Thursday, March 30, 2017 12:07 PM
To: Webster, Clay
Subject: RE: WSB Rental applications 369, 383 and 370 for Lance Funk

Clay,

The rental of irrigation water from water right 35-7618 will only divert water from the well located in the SWNW of Section 20 of 06S 29E. *Application 369*

The rental of irrigation water from water rights 35-14040 and 35-14308 will be diverted from the well located in the SWNW of Section 20 of 06S 29E and the well located in the NENE of Section 30 06S 29E. *Application 370*

The pivot located in the NE $\frac{1}{4}$ of Section 19 will be irrigated by the Rental 369 ($25.5+25.5+0.1+0.1=51.2$ acres) and 79.0 acres rented from 35-7621. The 51.2 acres will have 0.95 cfs and the 79.0 acres will have 1.54 cfs for a total of 2.49 cfs to be applied on 130.0 acres. Which means that there will be an application rate of 0.019 cfs/acre ($2.49/130.0$). The 0.019 cfs/acres is more than adequate to provide a sufficient diversion rate for this pivot.

I had not considered the cfs/acre for water right 35-14040 as an issue because for the past several years of renting water right 35-14040. This discussion was not touched on or discussed by IDWR. It was not an issue that prevented this water right to be rented multiple times for the full 47.5 acres. I am currently working on scenarios that would eliminate the issues that you are now raising.

Greg Sullivan
Brockway Engineering
2016 North Washington Street, Suite 4
Twin Falls, Idaho 83301
208-736-8543

From: Webster, Clay [mailto:Clay.Webster@idwr.idaho.gov]
Sent: Wednesday, March 29, 2017 9:03 AM
To: Greg Sullivan <greg.sullivan@brockwayeng.com>
Subject: WSB Rental applications 369, 383 and 370 for Lance Funk

Greg,

The enclosed letter went out yesterday requesting additional information. I wanted to give you a head's up.

Sincerely,
Clay Webster
Water Resource Agent Sr.
clay.webster@idwr.idaho.gov
208-287-4910
Idaho Department of Water Resources (IDWR)



State of Idaho

DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Web Site: www.idwr.idaho.gov

GARY SPACKMAN
Director

C.L. "BUTCH" OTTER
Governor

March 28, 2017

GREG SULLIVAN
BROCKWAY ENGINEERING
2016 N WASHINGTON ST STE 4
TWIN FALLS ID 83301

RESPONSE DEADLINE

April 11, 2017

RE: ADDITIONAL INFORMATION REQUEST FOR PROCESSING APPLICATIONS 369, 383 and 370 TO RENT WATER FROM THE WATER SUPPLY BANK

*****TIME SENSITIVE RESPONSE REQUIRED*****

Dear Mr. Sullivan:

The Department of Water Resources ("Department") acknowledges receipt of your Applications to Rent Water from the Water Supply Bank ("Bank"). A preliminary review of your application has been completed and it has been determined that additional information is required to continue processing the applications for Lance Funk located in sections 19 and 30 of Township 06S Range 29E.

Please provide the following information within 14 days of the date of this letter or the application will be returned:

- Clarification of the Point(s) of Diversion requested on these applications (see maps provided)
- How the partial pivot located in SWNE and SENE of Twp 06S 29E section 19 could possibly operate on 0.95 cfs?
- How your client would prevent enlargement of 35-7632A, 35-14442 and 35-14443, which currently operate with 0.01 cfs per acre, when you add rights 35-7618 and 14308, which operate at 0.02 cfs per acre. Simply by combining the two disproportionate sets of rights into the same system provides an expectation of enlargement of use of the higher rate rented rights being spread to acres under the existing portion of the pivot and allowing a more consumptive crop to be grown.
- How your client would prevent enlargement of 35-14040 (0.01 cfs/acre) while renting with 35-2391 (0.02 cfs /acre), 35-7789 (0.02 cfs /acre) and 35-14308 (0.02 cfs/acre) to irrigate a pivot? This is the same enlargement issue noted above.

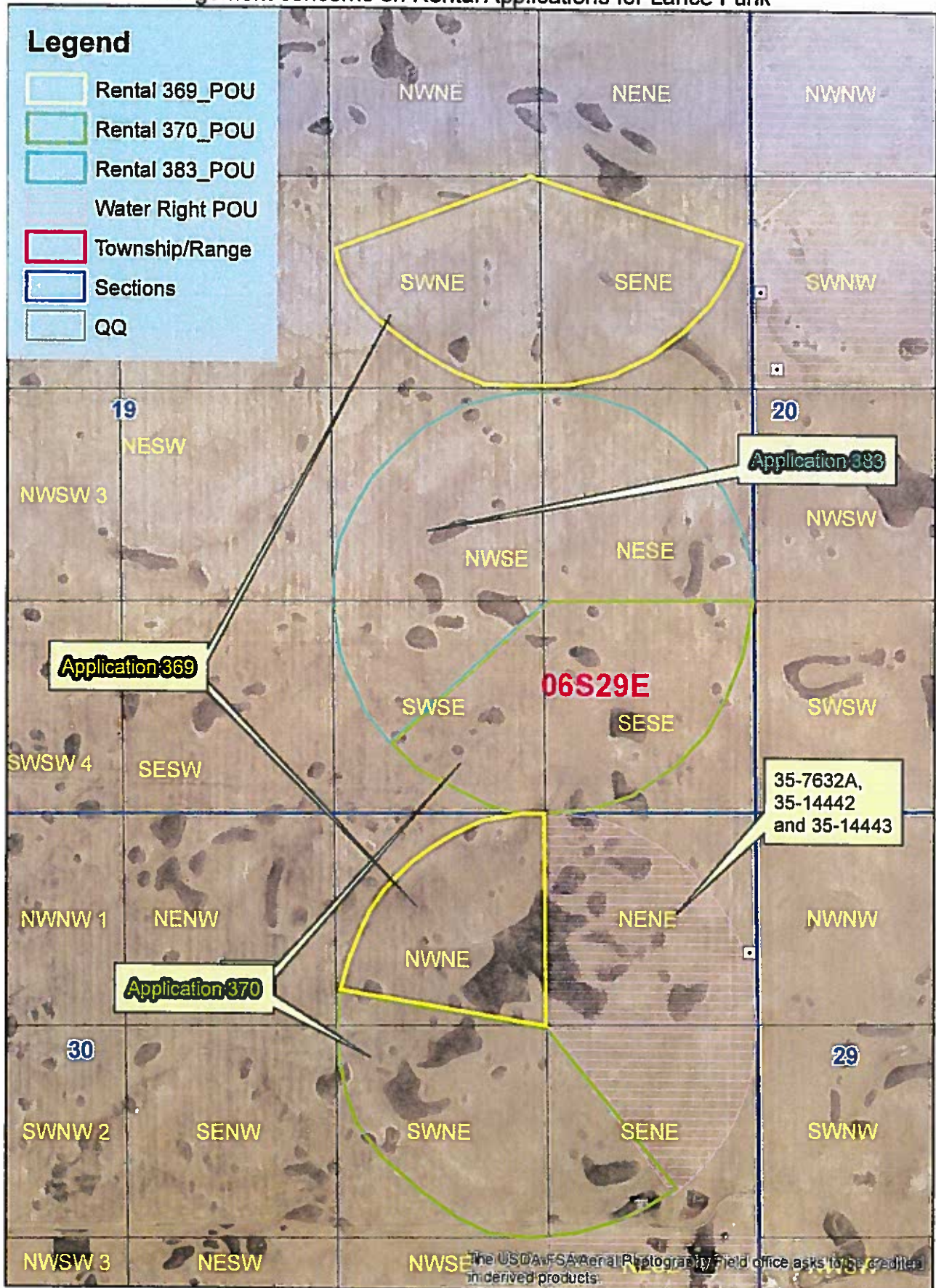
Please provide the required information within 14 calendar days. If sufficient information is not received within 14 days, your application will be returned to you unprocessed.

Sincerely,

Clay Webster
Water Resource Agent Sr.

c: IDWR Regional Office
Lance Funk – Applicant

Enlargement concerns on Rental Applications for Lance Funk



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