



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

May 15, 2015

KIRK S EGBERT
1410 E 1300 N
TERRETON IDAHO 83450

RE: APPLICATIONS TO RENT WATER FROM THE WATER SUPPLY BANK 31-7316 and 31-11443.

Dear Applicant:

On April 17, 2015 the Idaho Department of Water Resources (Department) received your applications to rent water from the Water Supply Bank (Bank) for irrigation during the 2015 season. The Department is returning your applications since they were not processed prior to the latest possible start date of the proposed rental period (April 8, 2015).

Any use associated with your proposed rental request is considered unauthorized and, if occurring, will be subject to any necessary enforcement action.

If you wish to rent water in the future, please reapply using new forms from the Department's website at www.idwr.idaho.gov. If you have any questions regarding this matter, please contact me at (208) 287-4910.

Sincerely,

Clay Webster
Water Resource Agent
WSB Process Point of Contact

Enclosures: (2) Rental Applications

c: Keith Wilson – Rocky Mountain Environmental

STATE OF IDAHO
WATER RESOURCE BOARD

RECEIVED

APR 17 2015

DEPARTMENT OF
WATER RESOURCESAPPLICATION TO RENT WATER
FROM THE BOARD'S WATER SUPPLY BANKApplicant Name: Kirk S. EgbertIs this application being submitted with a lease application as a lease/rental package? Yes ☐ No ☒

An *Application to Rent Water from the Board's Water Supply Bank* must be completed in accordance with the minimum requirement checklist below to be acceptable for processing by the Idaho Department of Water Resources (IDWR). 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.**

Applications to rent water should be submitted well in advance of the desired start date for the use of water. Rental applications may be submitted as early as November 1 of the year prior to the intended use of rental water. Rental applications submitted more than one year in advance of the proposed start date for water use will not be accepted and will be returned to applicants. Rental applications will not be processed if they are received after the end of the rental season of use.

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

For additional instructions on completing a rental application, visit the Department's website at www.idwr.idaho.gov.

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

YES

☒ Completed *Application to Rent Water from the Board's 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
- 3E ☒ ☐ Authorization from the owner/operator of the rental point(s) of diversion
- 3G ☐ ☒ Water modeling to account for the impacts of the rental request
- 3J ☒ ☐ Documents justifying a need to rent water for irrigation at 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

RETURNED
Past Latest Possible
Start Date

Department Use Only – Proposed Water Right(s)

31-7316

STATE OF IDAHO
WATER RESOURCE BOARD

Application to Rent Water (Continued)

1. CONTACT INFORMATION

A. Applicant Kirk S. Egbert

Mailing Address 1410 East 1300 N, Terreton, ID 83450

Email Address kkegbert1985@yahoo.com Phone Number 208-663-4505

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 Keith C. Wilson Professional Title Senior Water Rights Analyst

Organization Rocky Mountain Environmental Associates Inc Relationship to Applicant Consultant & Friend

Mailing Address 482 Constitution Way, Suite 303, Idaho Falls, ID 83402

Email Address keith.rmea@gmail.com Phone Number 208-254-2353

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 place of use is outlined with an obvious, bolded line. For irrigation purposes, note that the place of use outlined on your map cannot exceed the number of acres you are proposing to rent. Attach the map to this application and label it **Attachment 2**.

3. DESCRIPTION OF PROPOSED USE FOR RENTAL WATER

A. Describe the purpose of your rental request. Include any anticipated rates of water application, water use practices or number of stock (if any). If the proposed use is not for irrigation, please provide a detailed description of the proposed use and how you determined the amount of rental water required. Attach additional sheets if required and label it **Attachment 3A**:
To allow irrigation with end-guns of three center pivot in response to a N.O.V.

B. Enter the desired and/or minimum necessary 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)	Acres (if applicable) (Acre)
0.358 CFS	60.6 AF	0.358 CFS	60.6 AF	20.2 AC

Sometimes water rights available for rent 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. Enter the proposed start date and latest possible start date for using rental water. Also provide the number of years you would like to rent water:

Proposed Start Date (month/day/year)	Latest Possible Start (month/day/year)	* Proposed Rental Duration (Max 5 Years)	** For multi-year rentals, indicate whether you desire to rent water for remaining years if a rental request cannot be approved for the first year?	
April 1,2015	April 8,2015	1	☒ Yes, approve rental for all remaining future years.	☐ No, return rental request if first year is unapprovable.

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

** Subject to the availability of rentable water. A multi-year rental that cannot begin during the first year requested may be approved for some or all remaining years, depending on availability. Rental requests will be returned if no water is available to rent in the first and/or subsequent years of the rental request.

STATE OF IDAHO
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Application to Rent Water (Continued)

- D. Refer to the map you created in item 2 and specify the location of the point(s) of diversion (POD) from which rental water is proposed to be diverted:

Water Source	TWP	RGE	SEC	¼	¼	¼	County	Other water rights for the same purpose diverted from this POD
Ground water	8N	37E	33	NW	SE	NE	Jefferson	31-12283 & 31-12285
Ground water	8N	37E	33	NW	SE	NW	Jefferson	31-7104
Ground water	8N	37E	33	NW	SE	SW	Jefferson	31-7105 & 31-11388

The entry in this grid must match the map from item 2 on the application.

- E. Do you own and/or possess the authority to divert water from the above POD(s)? Yes ☒ No ☐
If no, provide documentation from the owner/operator confirming your authorization to use the POD(s) and label it **Attachment 3E**.
- F. Do any POD(s) identified in Question 3D 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.
- G. Has water modeling been provided with your rental request? Yes ☒ No ☐
If yes, include as **Attachment 3G**. Otherwise please explain why modeling was not provided:

Rental applications that require modeling will be returned if modeling is not provided.

- H. Specify the proposed beneficial use: ☒ Irrigation ☐ Commercial ☐ Industrial ☐ Municipal
☐ Groundwater Recharge ☐ Mining ☐ Stockwater ☐ Other: _____
- I. Refer to the map you created in item 2 and specify below the places you propose to use water. If for irrigation, specify the number of acres to be irrigated per ¼ ¼ tract. Otherwise indicate usage by marking the ¼ ¼ tracts with the first letter of your proposed use identified above:

TWP	RGE	SEC	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
8N	37E	33	3.6	3.3	2.1	2.2		2.0	1.0	2.0			2.0	2.0					20.2
The entry in this grid must match the map from item 2 on the application. Total Acres (for irrigation)																			20.2

- J. For irrigation uses, do you propose a water diversion rate greater than 0.02 cfs/acre? N/A ☐ Yes ☐ No ☒
If yes, explain the justification for this rate of flow and attach any supporting documents as **Attachment 3J**:

- 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. Describe your water distribution system and how water will be delivered from the POD(s) to the proposed POU(s):
 Three wells with main-lines to three center pivots with end-guns.

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Application to Rent Water (Continued)

M. List all other water rights and sources of water at the rental place of use for the same purpose and explain why additional water is required. Include privately owned water rights and water received from a municipal supplier, an irrigation district, a canal company, or any other water deliver entity:

Ground water rights: 31-7104, 31-7105 & 31-11388, 31-12283 & 31-12285 in response to a N.O.V.

4. RENTAL REQUESTS FOR SPECIFIC WATER RIGHTS - See Attachment 4.A

A. Are you requesting to rent specific water rights?

Yes ☒ No ☐

If yes, specify below the water rights you are requesting to rent. Otherwise continue to Section 5 of this application form.

Please note: Diversion rates and volumes to be rented from a leased water right must be proportionate to the per acre diversion rates and per acre volume limits of the water right leased to the Bank. Applicants should query a water right's rental availability by reviewing active lease and rental documents, searchable via [IDWR's website](#), to ensure all elements of a water right remain available in sufficient quantity to satisfy a rental request.

Water rights identified below must either already be leased to the Bank or a lease proposal should accompany the 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 with combined limits, applicants should request to rent against the combined limit diversion rate, volume or acre limits.

Elements of Water Rights Leased to the Bank (Contract Details)								Leased totals minus water actively engaged in rental agreement equals rental availability	Rental Request		
Water Right Number	Nature of Use	Water Source	Rate (CFS)	Volume (AF)	Acres (AC)	Start (year)	End (year)		Rate (CFS)	Vol. (AF)	Acres (AC)
31-7316	Irrigation	Ground water	0.69	117.0	39.0	2015	2015		0.358	60.6	20.2
Applicants must ensure the requested rate per acre and volume per acre do not exceed the rate per acre and volume per acre that have been leased to the Water Supply Bank								TOTAL	0.358 CFS	60.6 AF	20.2 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**:

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Application to Rent Water (Continued)

- C. Does your rental request propose to change the nature of use for any water right(s) being requested? 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, as well as the new consumptive use amount for your proposed beneficial use. Attach a separate page if space is insufficient and label it **Attachment 4C**:

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: _____

- 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.

August 13, 2014, Sec 36, T 6N, R34E & Sec 28, T6N, R35E, Jefferson County. See Attachment 5C

NOTE: This rental application are for additional acres found to have been irrigated in addition to N.O.V. acres

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.


Signature of Applicant

Kirk S Egbert
Printed Name of Applicant

4/15/2015
Date

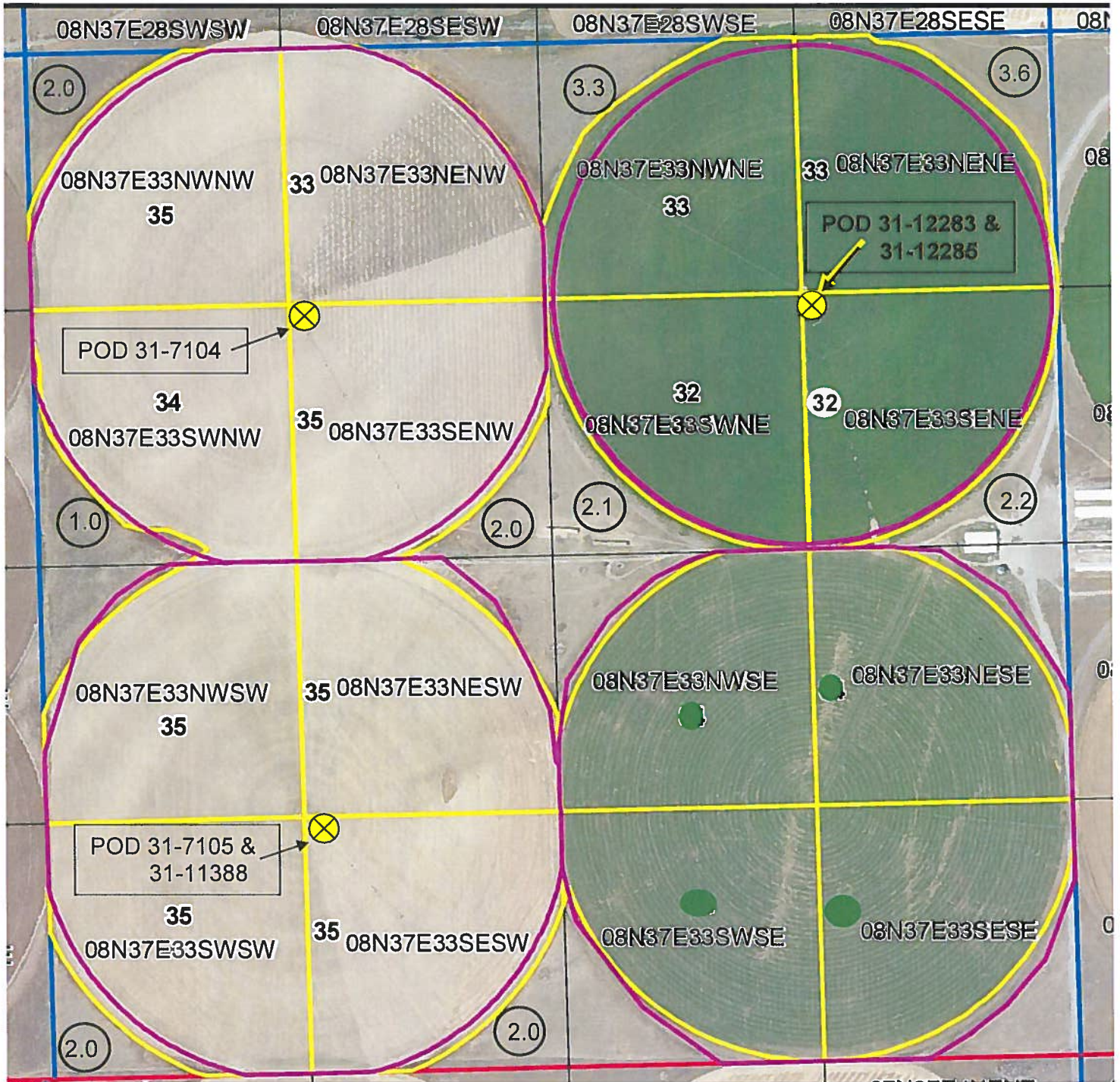
Signature of Representative

Printed Name of Representative

Date

Mail to:

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



Number of acres per quarter-quarter Place of Use for Rental Water for end-guns on pivots.

X Points of Diversion

ESPA Ground Water Rights Transfer Spreadsheet Data Summary

TRANSFER NO:
 TRANSFER NAME: Egbert_20.2ac

PREPARED BY: Rocky Mountain Environmental - Keith C Wilson
 DATE: 4/5/2015
 Transfer Tool Version Version 3.1

WATER RIGHTS INVOLVED:

Group 1 Transfer Rights		Group 2 Additional Mitigation Rights	
Right No.	Priority Date	Right No.	Priority Date
31-7316	5/10/1979		

HISTORIC BENEFICIAL USE:

Trans/Mit. Rights (group no.)	Acres to Dry Up (ac)	Beneficial Use (afa/yr)	Total (af/yr)
31-7316	20.2	3.0	60.6

MODEL CELL LOCATIONS:

	TO WELL ¹	FROM1 WELL	FROM2 WELL	FROM3 WELL
ROW	42	40	0	0
COLUMN	174	172	0	0

¹ The 'TO WELL' Model cell was chosen as it is the east most "Model Cell" in the NE 1/4 Sec 33, T8N, R37E

	Start Date		End Date		Water Use		Acres Authorized (acres)	Notes
	Season	Year	Season	Year	Annual (af/yr)	Trimester (af/trimester)		
TO Well (Projected Use)	Spring	2015	Winter	2015	60.6	20.2	20.2	
FROM1 Well (With Transfer)	Spring	1979	Winter	2014	60.6	20.2	20.2	
	Spring	2015	Winter	2015	0	0.0	0.0	
	Spring	2016	Winter	2128	60.6	20.2	20.2	
FROM1 Well (Without Transfer)	Spring	1979	Winter	2128	60.6	20.2	20.2	
FROM2 Well (With Transfer)								
FROM2 Well (Without Transfer)								

ENHANCED GROUND-WATER RIGHTS TRANSFER SPREADSHEET **UNIVERSITY OF IDAHO - IDAHO WATER RESOURCES RESEARCH INSTITUTE**

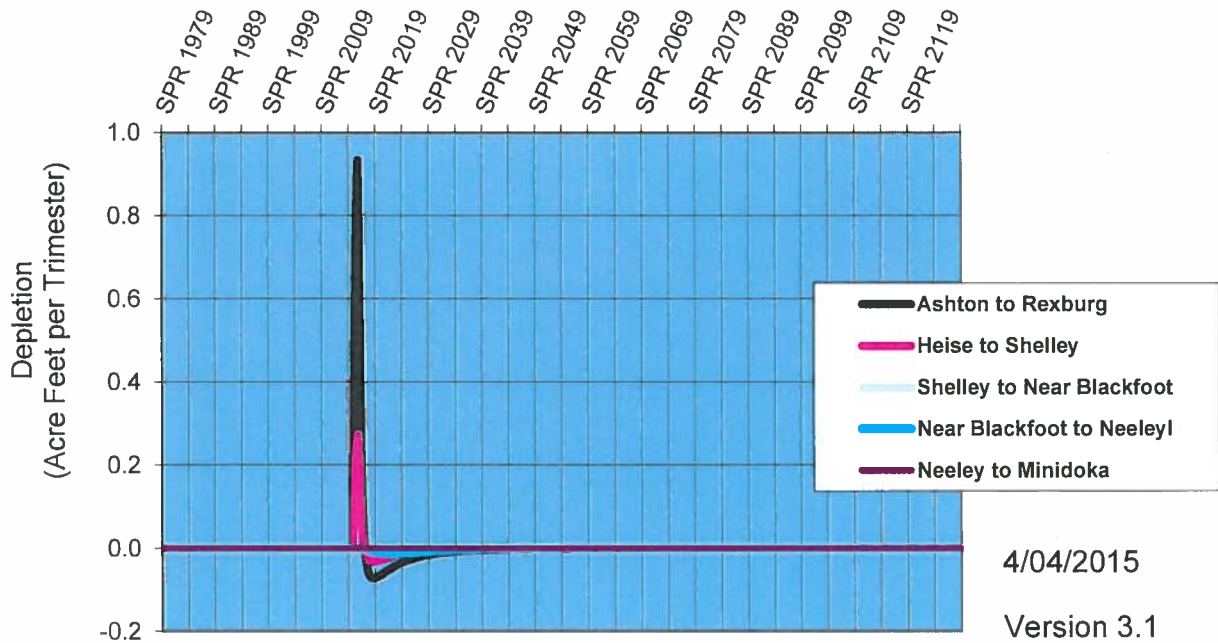
TRANSFER NO:	31-7316 / 31-11443
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YEAR	1979	TRANSFER NAME:	Egbert_20.2ac
SEASON	Spring		

ENTER CELL LOCATIONS:				
	'TO' CELL	'FROM1' CELL	'FROM2' CELL	'FROM3' CELL
ROW	42	40	0	0
COLUMN	174	172	0	0

TRIMESTER OF ACTIVITY	TO WELL	FROM1 WELL		FROM2 WELL	
	Projected Use AF/TRIMESTER	With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER	With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER
SPR 1979	0	20.2	20.2	0	0
SUM 1979	0	20.2	20.2	0	0
WIN 1979	0	20.2	20.2	0	0
SPR 2013	0	20.2	20.2	0	0
SUM 2013	0	20.2	20.2	0	0
WIN 2013	0	20.2	20.2	0	0
SPR 2014	0	20.2	20.2	0.0	0.0
SUM 2014	0	20.2	20.2	0.0	0.0
WIN 2014	0	20.2	20.2	0.0	0.0
SPR 2015	20	0.0	20.2	0.0	0.0
SUM 2015	20	0.0	20.2	0.0	0.0
WIN 2015	20	0.0	20.2	0.0	0.0
SPR 2016	0	20.2	20.2	0.0	0.0
SUM 2016	0	20.2	20.2	0.0	0.0
WIN 2016	0	20.2	20.2	0.0	0.0
SPR 2017	0	20.2	20.2	0.0	0.0
SUM 2017	0	20.2	20.2	0.0	0.0
WIN 2017	0	20.2	20.2	0.0	0.0
SPR 2125	0	20.2	20.2	0.0	0.0
SUM 2125	0	20.2	20.2	0.0	0.0
WIN 2125	0	20.2	20.2	0.0	0.0
SPR 2126	0	20.2	20.2	0.0	0.0
SUM 2126	0	20.2	20.2	0.0	0.0
WIN 2126	0	20.2	20.2	0.0	0.0
SPR 2127	0	20.2	20.2	0.0	0.0
SUM 2127	0	20.2	20.2	0.0	0.0
WIN 2127	0	20.2	20.2	0.0	0.0
SPR 2128	0	20.2	20.2	0.0	0.0
SUM 2128	0	20.2	20.2	0.0	0.0
WIN 2128	0	20.2	20.2	0.0	0.0

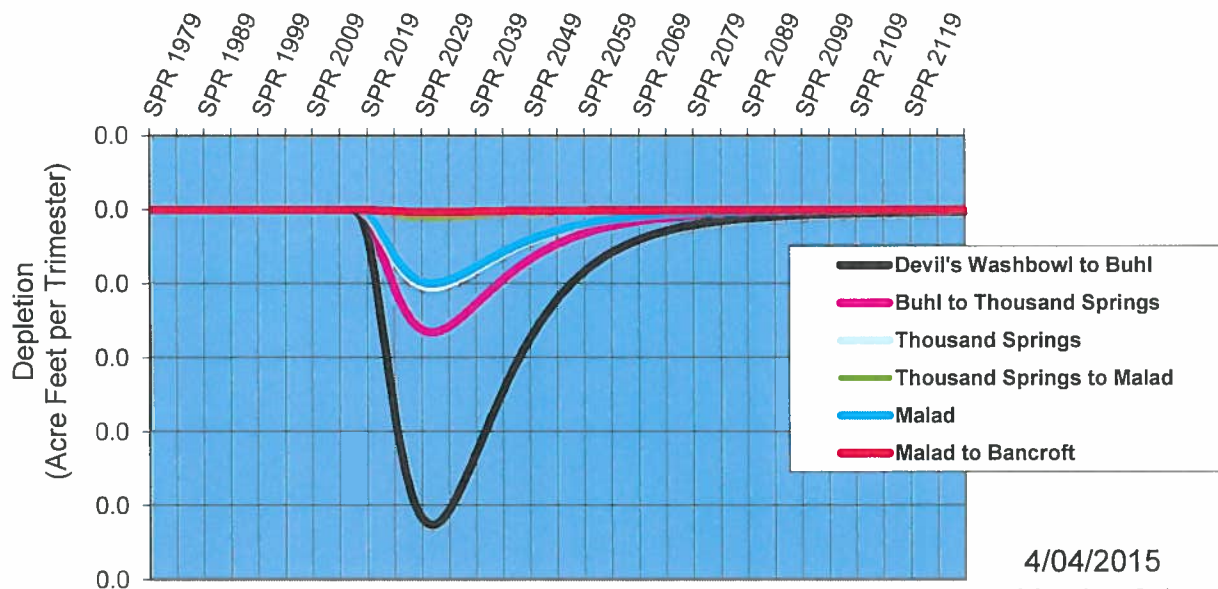
Net Transfer Effect Above Milner
(Total Effect With Transfer - Total Effect Without Transfer)



Customer Name: Egbert 20.2 ac

Transfer No:

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



Customer Name: Egbert 20.2 ac

Transfer No:

Change Ratio

Period	Asht to Rexburg	Heise to Shelley	Shelley to Nr. Blckft.	Nr. Blckft to Neeley	Neeley to Minidoka	DWB to Buhl	Buhl to Kspr	Kspr Kspr	Kspr to Malad	Malad	Malad to Bancr.
SPR 2014	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
SUM 2014	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
WIN 2014	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
SPR 2015	1.05	1.03	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
SUM 2015	1.07	1.05	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
WIN 2015	1.08	1.06	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
SPR 2016	1.04	1.03	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
SUM 2016	1.01	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
WIN 2016	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
SPR 2017	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
SUM 2017	1.00	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
WIN 2017	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
SPR 2018	0.99	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
SUM 2018	0.99	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
WIN 2018	0.99	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
SPR 2019	0.99	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
SUM 2019	0.99	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
WIN 2019	0.99	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	99.9%
SPR 2026	1.00	1.00	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.00	99.6%
SUM 2026	1.00	1.00	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.00	99.6%
WIN 2026	1.00	1.00	1.00	0.99	0.99	1.00	1.00	1.00	1.00	1.00	99.6%
SPR 2027	1.00	1.00	1.00	0.99	0.99	1.00	1.00	1.00	1.00	1.00	99.6%
SUM 2027	1.00	1.00	1.00	1.00	0.99	1.00	1.00	1.00	1.00	1.00	99.6%
WIN 2027	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	99.6%
SPR 2123	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
SUM 2123	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
WIN 2123	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
SPR 2124	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
SUM 2124	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
WIN 2124	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
SPR 2125	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
SUM 2125	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
WIN 2125	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
SPR 2126	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
SUM 2126	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
WIN 2126	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
SPR 2127	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
SUM 2127	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
WIN 2127	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
SPR 2128	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
SUM 2128	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%
WIN 2128	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100.0%

Calculated Effects

Net Transfer Effect (AF/four months)

	Ashton to Rexburg	Heise to Shelley	Shelley to Nr Bkft	Nr Bkft to Neeley	Neeley to Minidoka	Dev. Wbl. to Buhl	Buhl to Kspr	Kspr	Kspr to Malad	Malad	Malad to Bancroft
SPR 2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPR 2015	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 2015	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 2015	0.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPR 2016	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 2016	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 2016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPR 2017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 2017	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 2017	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPR 2018	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 2018	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 2018	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPR 2019	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 2019	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 2019	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPR 2021	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 2021	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 2021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPR 2122	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 2122	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 2122	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPR 2123	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 2123	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 2123	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPR 2124	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 2124	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 2124	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPR 2125	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 2125	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 2125	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPR 2126	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 2126	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 2126	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPR 2127	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 2127	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 2127	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPR 2128	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUM 2128	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WIN 2128	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

ESPA Spreadsheet Data

Enter First Time Step of Transfer: **SPR 2015**

2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Steady State				AtR	HtS	StNB	NBtN	NtM	DWtB	BtTS	TS	TStM	M	MtB	Total	Total Effects				
Preexisting Effects @ (Last Time Step):				12.04	4.83	1.24	1.93	0.05	0.05	0.02	0.01	0.00	0.01	0.00	20.19	w/o Transfer - Last Timestep				
Value of Dep. @ Last Time Step:				12.04	4.83	1.24	1.93	0.05	0.05	0.02	0.01	0.00	0.01	0.00	20.19	w/Trans - Last Time Step				
Transient State																				
Preexisting Effects @ (Max Value Timestep):				12.04	4.83	1.24	1.93	0.05	0.05	0.02	0.01	0.00	0.01	0.00	20.19	w/o Trans - Correlates to Max Value from w/Trans				
Max. Value of Dep. After Trans:				12.84	5.05	1.24	1.93	0.05	0.05	0.02	0.01	0.00	0.01	0.00	21.22	w/Trans - Max Value: Start of Trans to Last Time Step				
Steady State Change:				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
Transient State Change:				0.80	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						

Mitigation Analysis

Impact by Reach (AF/Trimester)

	AtR	HtS	StNB	NBtN	NtM	DWtB	BtTS	TS	TStM	M	MtB
Pre-SS	12.04	4.83	1.24	1.93	0.05	0.05	0.02	0.01	0.00	0.01	0.00
Post-SS	12.04	4.83	1.24	1.93	0.05	0.05	0.02	0.01	0.00	0.01	0.00
Pre-TS	12.04	4.83	1.24	1.93	0.05	0.05	0.02	0.01	0.00	0.01	0.00
Post-TS	12.84	5.05	1.24	1.93	0.05	0.05	0.02	0.01	0.00	0.01	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%	0.0%
Mitigation Check 2: > 2 AF/T:	0.0	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:	59.6%	23.9%	6.1%	9.6%	0.2%	0.3%	0.1%	0.1%	0.0%	0.1%	0.0%
Mitigation Required?:	NO	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	0.0

Transient State Analysis

Mitigation Check 1 - >10% of Historical:	6.7%	4.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Mitigation Check 2: > 2.01 AF/T:	0.8	0.2	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	NO
Mitigation Vol. Req'd (ac-ft):	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Calculations for Water Bank Rental

R40 C172	5/10/1979											
31-7316	Linford 5.46 cfs/308 ac, 924 afa = 3.0 af/ac											
T08N, R36E	SEC.	¼-¼	Acres	LEASED		¼-¼	Acres	LEASED		¼-¼	Acres	LEASED
0.017727 cfs/ac 3.0 ac-ft/ac 39.0 ac-ft/ac	25	NENE	5.6	2.6		NENW	30.0	5.0		NESE	9.3	3.1
		NWNE	38.0	2.0		SENW	32.0	6.0		NWSE	40.0	1.1
		SWNE	40.0	3.2		NESW	34.0	4.5		SWSE	37.0	1.1
		SENE	6.3	3.2		SESW	29.0	4.0		SESE	6.8	3.2
Total												
117.0 afa			11.0 ac			19.5 ac			8.5			39.0 ac
Dave Sanders Rented for Sec 14 & 15, T7N, R36E =												-16.8 ac
See calculation below for Ebgrt Rent for Sec 33. T8N, R37E =												-20.2
Remaining Acres from 31-7316 =												2.0 ac

R42 C172	5/14/1976											
31-11443	Jacobs_ 0.66 cfs/33 ac, 99.0 afa = 3.0 ac-ft/ac											
T07N, R37E	SEC.	¼-¼	Acres	LEASED		¼-¼	Acres	LEASED				
	7	NENE	38.0	4.1		NENW	39.0	4.2				
0.02 cfs/ac		NWNE	39.0	4.2		NWNW	30.0	4.1				
3.0 ac-ft/ac		SWNE	40.0	4.1		SWNW	30.0	4.1				
33.0 ac		SENE	39.0	4.1		SESW	40.0	4.1				
= Total available acres = 33.0 ac												
99.0 afa			16.5 ac			+ 16.5						

31-7316 Linford: Available Acres =	2.0 ac	X	0.017727	=	0.03545 cfs
31-11443 Jacobs: Available Acres =	33.0 ac	X	0.02	=	0.66000 cfs
Rental Acres for Sec 1 & 2, T8N, R37E =	35.0 ac	& Total Diversion Rate =		0.69545 cfs	

Determine Acres Requiring Rental Water in Sec 33, T8N R37E

R42 C175												
T8N, R37E	SEC	¼-¼	Acres	Irrigated Acres		Acres						
	33	NENE	29.4	33 ac		-3.6						
11.2 ac		NWNE	29.7	33 ac		-3.3						
x 0.017727 cfs/ac		SWNE	29.9	32 ac		-2.1						
0.1985 cfs/ac		SENE	29.8	32 ac		-2.2						
33.6 AFA		Totals	118.8	130.0 ac		-11.2 ac						

T8N, R37E	SEC	¼-¼	Acres	Irrigated Acres		Acres						
	33	NENW	33	33 ac		0.0						
5.0 ac		NWNW	33	35 ac		-2.0						
x 0.017727 cfs/ac		SWNW	33	34 ac		-1.0						
0.0886 cfs		SESW	33	35 ac		-2.0						
15.0 AFA		Totals	137	132 ac		-5.0 ac						

T8N, R37E	SEC	¼-¼	Acres	Irrigated Acres		Acres						
	33	NESW	35	35 ac		0.0						
4.0 ac		NWSW	35	35 ac		0.0						
x 0.017727 cfs/ac		SWSW	33	35 ac		-2.0						
0.07091 cfs/ac		SESW	33	35 ac		-2.0						
12.0 AFA		Totals				-4.0 ac						

11.2 ac
5.0 ac
4.0 ac
20.2 ac = Total Rental Ac for S33

Using 31-7316 (Linford right)
20.2 ac
X 0.017727 cfs/ac
0.3581 cfs
Vol. = 60.6 AFA