

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Transfer No.

78937

Idaho Water Co.
(Foster - Wickel)
0.08cfs, 32.0afa, 8.0ac

MINIMUM REQUIREMENTS CHECKLIST

TO BE SUBMITTED WITH APPLICATION FOR TRANSFER

An application for transfer must be prepared in accordance with the minimum requirements listed below to be acceptable for processing by the Department. Incomplete applications will be returned. The instructions, fee schedule, Part 2A reports and additional Part 2B forms are available from any Department office or on the Department's website at <http://www.idwr.idaho.gov/>.

Check whether each item below is *attached* (Yes) or *not applicable* (N/A) for the proposed transfer.

- Yes N/A * Means the item is always required and must be included with the application.
- ☒ * Completed Application for Transfer of Water Right form, Part 1.
 - ☒ * Signature of applicant(s) or applicant's authorized representative on Application for Transfer Part 1. Include evidence of authority labeled Attachment #3 (see below) if signed by representative.
 - ☒ * Application for Transfer Part 2A. Attach a Part 2A report describing each water right in the transfer as currently recorded.
 - ☒ ☐ Complete and attach an Application for Transfer Part 2B for each water right for which only a portion is proposed to be changed through this transfer application.
 - ☒ * Application for Transfer Part 3A is always required (see Attachment #7a below); Parts 3B and 3C must be completed for transfer applications proposing to change the nature of use of the water right(s) or proposing changes to supplemental right(s).
 - ☒ * Correct fee submitted with transfer application form. ([Fee schedule](#) is on website and instructions for application for transfer.)

Attachments to Application - Label each attachment with the corresponding number shown below as Attachment #1-9.

- ☐ ☒ #1 If the applicant is a business, partnership, organization, or association, and not currently registered in the State of Idaho as a business entity, attach documentation identifying officers authorized to sign or act on behalf of right holder. (See Part 1.)
- ☐ ☒ #2a Water Right ownership documentation if Dept. records do not show the transfer applicant as the current water right owner. Additional fee(s) required for water right ownership changes; see fee schedule.
- ☐ ☒ #2b If the ownership of the water right will change as a result of the proposed transfer to a new place of use, attach documentation showing land and water right ownership at the new place of use. Include documentation for all affected land and owner(s). Additional fee(s) required for water right ownership changes; see fee schedule.
- ☒ ☐ #3 Documentation of authority to make the change if the applicant is not the water right owner.
- ☐ ☒ #4 Power of Attorney or documentation providing authority to sign or act on the applicant's behalf. (See Part 1.)
- ☒ ☐ #5 If the transfer application proposes to change the point of diversion for a water right affecting the Eastern Snake Plain Aquifer (ESPA), attach the results of an ESPA analysis and a detailed mitigation plan to offset any depletions to hydraulically connected reaches of the Snake River. ESPA transfer spreadsheet and model grid labeled cells are available on the Department's website at <http://www.idwr.idaho.gov/WaterManagement/WaterRights/WaterRightTransfers/resources.htm>.
- ☐ ☒ #6 Notarized statement of agreement or a statement on official letterhead signed by an authorized representative from each lien holder or other entity with financial interest in the water right(s) or land affected by the proposed transfer. (See Part 1.5.c.)
- ☒ * #7a Attach a map identifying the proposed point(s) of diversion, place(s) of use, and water diversion and distribution system details as described on the application. Include legal description labels. If only a portion of the right is proposed to be changed, identify the current location of the part of the existing right(s) proposed to be changed. (See Part 3A.)
- ☒ ☐ #7b If the transfer application proposes to change the place or purpose of use of an irrigation right attach a Geographic Information System (GIS) shape file, or an aerial photo or other image clearly delineating the location and extent of existing acres and changes to the place of use.
- ☐ ☒ #8a If the transfer application proposes to change the nature of use or period of use for one or more rights, provide documentation describing the extent of historic beneficial use for the water rights proposed to be transferred and document how enlargement will be avoided. (See Part 3B.) Additional fee required for proposed changes to nature of use; see fee schedule.
- ☐ ☒ #8b If the transfer application proposes to change the place of use of a supplemental irrigation right, provide documentation regarding the historic use of the supplemental right(s) and availability or reliability of the primary right(s) being supplemented, both before and after the proposed change. (See Part 3C.)
- ☒ ☐ #9 Other. Please describe: Provide off-setting ESPA impacts. This is Transfer #4 of 5 for ESPA mitigation purposes.

78937

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Transfer No. 78937

RECEIVED

NOV 05 2013

Department of Water Resources
Eastern Region

APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1

Name of Applicant(s) Idaho Water Co., LLC

Phone (208) 312-1135

Mailing address 1135 Valley Rd S. Eden, ID 83325

Email delkohtzidwc@mindspring.com

- ☐ If applicant is not an individual and not registered to do business in the State of Idaho, attach documentation identifying officers authorized to sign or act on behalf of the applicant. Label it **Attachment #1**.
- ☒ Attach water right ownership documentation if Department records do not show the transfer applicant as the current water right owner. Label it **Attachment #2a**.
- ☒ If the ownership of the water right will change as a result of the proposed transfer to a new place of use, attach documentation showing land and water right ownership at the new place of use. Include documentation for all affected land and owner(s). Label it **Attachment #2b**.
- ☒ Attach documentation of authority to make the proposed change if the applicant is not the water right owner. Label it **Attachment #3**.

Provide contact information below if a consultant, attorney, or any other person is representing the applicant in this transfer process.

☐ No Representative

Name of Representative Jason C. Helms, P.E.

Phone (208) 308-2109

Mailing address 6755 N. Albert Lane Idaho Falls, ID 83401

Email jasoncivil@alumni.nd.edu

☐ Send all correspondence for this application to the representative and not to the applicant.

OR

☒ Send original correspondence to the applicant and copies to the representative.

☒ The representative may submit information for the applicant but is not authorized to sign for the applicant.

OR

☐ The representative is authorized to sign for the applicant. Attach a Power of Attorney or other documentation providing authority to sign for the applicant and label it **Attachment #4**.

I hereby assert that no one will be injured by the proposed changes and that the proposed changes do not constitute an enlargement in use of the original right(s). 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.

Idaho Water Company LLC
Signature of Applicant or Authorized Representative

Delbert Kohtz Manager
Print Name and Title if applicable

10/25/12
Date

Delbert Kohtz
Signature of Applicant or Authorized Representative

Delbert Kohtz Manager
Print Name and Title if applicable

10/25/13
Date

A. PURPOSE OF TRANSFER

1. ☒ Change point of diversion ☒ Add diversion point(s) ☒ Change place of use
☐ Change nature of use ☐ Change period of use ☐ Other
2. Describe your proposal in narrative form, including a detailed description of non-irrigation uses to justify amounts transferred (i.e. number of stock, etc.), and provide additional explanation of any other items on the application. Attach additional pages if necessary and label it **Part 1A.2**. This transfer seeks to change the place of use for a 8.0 acre portion of combined water rights 35-7192A & 35-9069 for irrigation use within an existing permissible place of use. This transfer provides off-setting ESPA impacts, see attached ESPA Analysis for details.

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STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1 Continued

B. DESCRIPTION OF RIGHTS AFTER THE REQUESTED CHANGES. IF THE RIGHTS ARE BEING SPLIT, DESCRIBE PORTIONS TO BE CHANGED AS THEY WOULD APPEAR AFTER THE REQUESTED CHANGES.

1.	Right Number	Amount (cfs/ac-ft)	Nature of Use	Period of Use	Source & Tributary
All or Part ☐ ☒	35-7192A	0.07 / 29.0	Irrigation	4/1 to 10/31	Ground Water
☐ ☒	35-9069	0.01 / 3.0	Irrigation	4/1 to 10/31	Ground Water
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	

Total authorized under rights 0.08 cfs and/or 32.0 ac-ft

2. Total amount of water proposed to be transferred or changed 0.08 cubic feet per second and/or 32.0 acre-feet per annum.

3. Point(s) of Diversion:

- ☐ No changes to point(s) of diversion are proposed-the following chart is therefore not completed. (Proceed to #4.)
- ☒ Attach Eastern Snake Plain Aquifer analysis if this transfer proposes to change a point of diversion affecting the ESPA.
Label it **Attachment #5**.

New ?	Lot	¼	¼	¼	Sec	Twp	Rge	County	Source	Local name or tag #
n		SE	NW	NE	20	10S	25E	Cassia	Ground Water	Extg. Well #1
n		NW	SW	NE	30	10S	25E	Cassia	Ground Water	(3) Extg. Wells (2-4)
n		SE	NW	NW	30	10S	25E	Cassia	Ground Water	Extg. Well #5

4. Place of use: (If irrigation, identify with number of acres irrigated per ¼ ¼ tract.)

- ☐ No changes to place of use are proposed-the following chart is therefore not completed. (Proceed to #5.)

Twp	Rge	Sec	NE ¼				NW ¼				SW ¼				SE ¼				Acre Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
10S	25E	20	40	40	40	40	40	40	40	40	40	40	40	39	40	40	31	20	610
		29					38	37	29	16									120
		30	39	24	23	33													119

These rights will be limited to the irrigation of 8.0 acres within the existing permissible place of use - See Attachment #7a.

Total Acres (for irrigation use) 849 PPU

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1 Continued

B. DESCRIPTION OF RIGHTS AFTER THE REQUESTED CHANGES. IF THE RIGHTS ARE BEING SPLIT, DESCRIBE PORTIONS TO BE CHANGED AS THEY WOULD APPEAR AFTER THE REQUESTED CHANGES.

1.	Right Number	Amount (cfs/ac-ft)	Nature of Use	Period of Use	Source & Tributary
All or Part ☐ ☒	35-7192A	0.07 / 29.0	Irrigation	4/1 to 10/31	Ground Water
☐ ☒	35-9069	0.01 / 3.0	Irrigation	4/1 to 10/31	Ground Water
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	

Total authorized under rights 0.08 cfs and/or 32.0 ac-ft

2. Total amount of water proposed to be transferred or changed 0.08 cubic feet per second and/or 32.0 acre-feet per annum.

3. Point(s) of Diversion:

- ☐ No changes to point(s) of diversion are proposed-the following chart is therefore not completed. (Proceed to #4.)
☒ Attach Eastern Snake Plain Aquifer analysis if this transfer proposes to change a point of diversion affecting the ESPA.
 Label it **Attachment #5**.

New ?	Lot	¼	¼	¼	Sec	Twp	Rge	County	Source	Local name or tag #
n		SE	NW	NE	20	10S	25E	Cassia	Ground Water	Extg. Well #1
n		NW	SW	NE	30	10S	25E	Cassia	Ground Water	(3) Extg. Wells (2-4)
n		SE	NW	NW	30	10S	25E	Cassia	Ground Water	Extg. Well #5

4. Place of use: (If irrigation, identify with number of acres irrigated per ¼ ¼ tract.)

- ☒ No changes to place of use are proposed-the following chart is therefore not completed. (Proceed to #5.)

Twp	Rge	Sec	NE ¼				NW ¼				SW ¼				SE ¼				Acre Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
			These rights will be limited to the irrigation of 8.0 acres within the existing permissible place of use - See Attachment #7a.																

Total Acres (for irrigation use) +8.0 within PPU

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STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1 Continued

5. General Information:

- a. Describe the complete diversion system, including how you will accommodate a measuring device and lockable controlling works should they be required now or in the future: Existing irrigation system associated with existing water rights 45-7336, 45-2468, 45-7449, 45-7471, and 45-13773.

- b. Who owns the property at the point(s) of diversion? Ardel Wickel

If other than the applicant, describe the arrangement enabling the applicant to access the property for the diversion system:

See attached agreement between Idaho Water Co. & Wickel Land, LP allowing the proposed change.

- c. Are the lands from which you propose to transfer the water right subject to any liens, deeds of trust, mortgages, or contracts?

If yes, ☐ Attach a notarized statement from the holder of the lien, deed of trust, mortgage or contract agreeing to the proposed changes on official letterhead signed by an authorized representative. Label it **Attachment #6**. List the name of the entity and type of lien:

It is the applicant's responsibility to provide notice to lien holder, trustee, mortgagor, or contract holder of the proposed changes that may impact or change the value of the water rights or affected real property. Any misrepresentation of legal encumbrance on this application may result in rejection of the application or cancellation of an approval.

- d. Describe the effect on the land now irrigated if the place or purpose of use is changed pursuant to this transfer:

The acres proposed for transfer currently associated with water rights 35-7192A & 35-9069 will no longer be irrigated at the existing place of use.

- e. Describe the use of any other water right(s) for the same purpose or land, or the same diversion system as right(s) proposed to be transferred at both the existing and proposed point(s) of diversion and place(s) use:

No other irrigation water rights within existing place of use proposed for transfer.

Existing water rights 45-7336, 45-2468, 45-7449, 45-7471, and 45-13773 are limited to 7.63 cfs, 2553.4 afa and 638.0 ac

- f. To your knowledge, has/is any portion of the water right(s) proposed to be changed:

Yes No

- | | | |
|-------------------------------------|-------------------------------------|---|
| ☒ | ☐ | undergone a period of five or more consecutive years of non-use, |
| ☐ | ☒ | currently leased to the Water Supply Bank, |
| ☐ | ☒ | currently used in a mitigation plan limiting the use of water under the right, or |
| ☐ | ☒ | currently enrolled in a Federal set-aside program limiting the use of water under the rights? |

If yes, describe: These lands were leased and dry from 2003-2009. Extension of time to avoid forfeiture was filed and approved in 2007. Irrigation of the specific acreage proposed for transfer was resumed in 2010.

Basis: Decreed

Tributary

GROUND WATER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Annual Volume</u>
IRRIGATION	04/01 to 10/31	5.45 CFS	2144.8 AF
	<u>Total Diversion</u>	5.45 CFS	2144.8 AF

Location of Point(s) of Diversion

GROUND WATER SE1/4NW1/4 Sec. 11, Twp 04N, Rge 35E B.M.

JEFFERSON County

Place of Use

IRRIGATION Within JEFFERSON County

T04N R35E S11	NENE	33.70	T04N R35E S11	NWNE	40.00
T04N R35E S11	SWNE	40.00	T04N R35E S11	SENE	34.50
T04N R35E S11	NENW	40.00	T04N R35E S11	NWNW	35.40
T04N R35E S11	SWNW	32.70	T04N R35E S11	SENW	38.00
T04N R35E S11	NESW	39.20	T04N R35E S11	NWSW	34.30
T04N R35E S11	SWSW	33.50	T04N R35E S11	SESW	40.00
T04N R35E S11	NESE	35.20	T04N R35E S11	NWSE	40.00
T04N R35E S11	SWSE	40.00	T04N R35E S11	SESE	35.60

Total Acres: 592.1

Conditions of Approval:

1. T08 Failure of the right holder to comply with the conditions of this transfer is cause for the Director to rescind approval of the transfer.
2. R64 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.
3. X35 Rights 35-7192A and 35-9069 when combined shall not exceed the irrigation of 592.1 acres.
4. X27 This right is limited to the irrigation of 536.2 acres within the authorized place of use in a single irrigation season.
5. 214 Prior to the diversion and use of water under Transfer approval 77732, the right holder shall install and maintain acceptable measuring device(s) at the authorized point(s) of diversion in accordance with Department specifications, or shall obtain an approved variance from the Department to determine the amount of water diverted from power records or to maintain an existing measuring device.
6. R05 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.
7. T07 The right holder shall accomplish the change authorized by this transfer within one year of the date of this approval.
8. 205 The approval of this transfer redefines all of the elements of this water right, and the new use of water authorized by this approval shall constitute the full extent of the right.
9. T19 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.
10. 213 Upon specific notification of the Department, the right holder shall install and maintain data loggers to record water usage information at the authorized point(s) of diversion in accordance with Department specifications.
11. R02 A lockable device subject to the approval of the Department shall be maintained on the diverting works in a manner that will provide the watermaster suitable control of the diversion.

Decreed Date: 1/31/2002

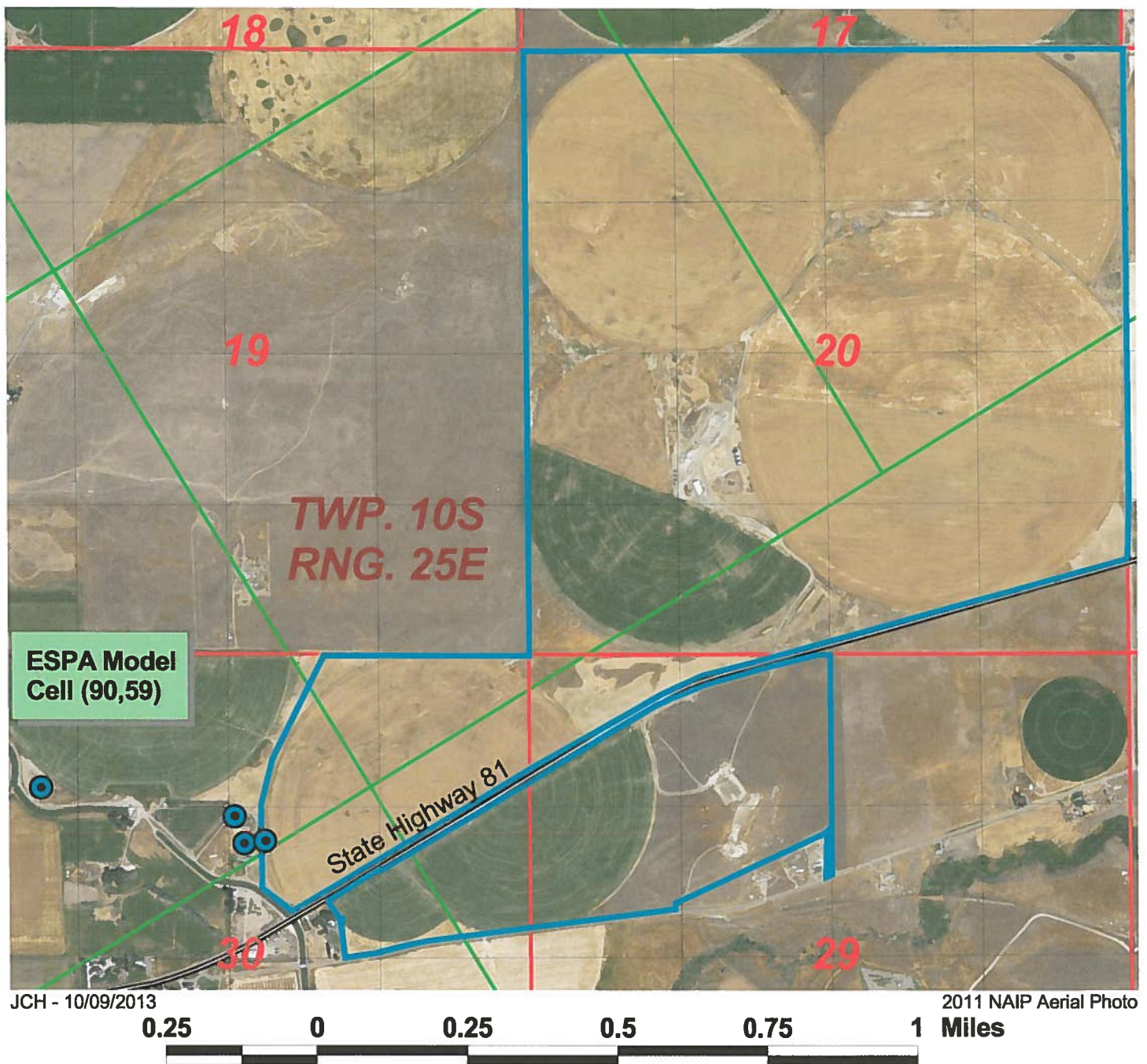
Conditions of Approval:

1. 214 Prior to the diversion and use of water under Transfer approval 77732, the right holder shall install and maintain acceptable measuring device(s) at the authorized point(s) of diversion in accordance with Department specifications, or shall obtain an approved variance from the Department to determine the amount of water diverted from power records or to maintain an existing measuring device.
2. R02 A lockable device subject to the approval of the Department shall be maintained on the diverting works in a manner that will provide the watermaster suitable control of the diversion.
3. R05 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.
4. X27 This right is limited to the irrigation of 55.9 acres within the authorized place of use in a single irrigation season.
5. R64 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.
6. 205 The approval of this transfer redefines all of the elements of this water right, and the new use of water authorized by this approval shall constitute the full extent of the right.
7. X35 Rights 35-7192A and 35-9069 when combined shall not exceed the irrigation of 592.1 acres.
8. T08 Failure of the right holder to comply with the conditions of this transfer is cause for the Director to rescind approval of the transfer.
9. 213 Upon specific notification of the Department, the right holder shall install and maintain data loggers to record water usage information at the authorized point(s) of diversion in accordance with Department specifications.
10. T19 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.
11. T07 The right holder shall accomplish the change authorized by this transfer within one year of the date of this approval.

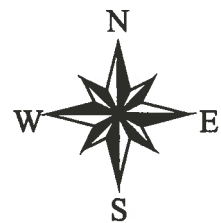
Decreed Date: 1/31/2002

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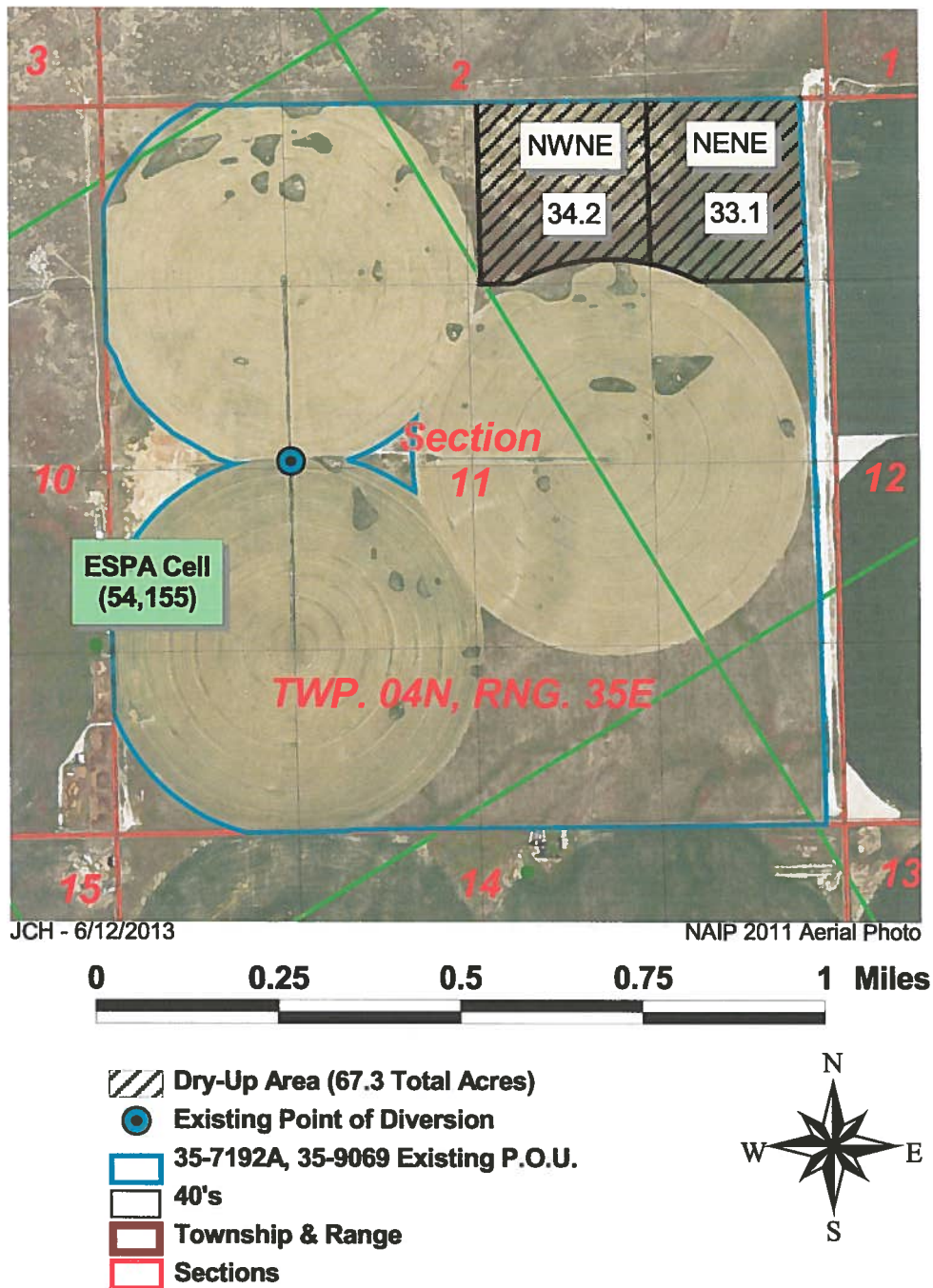
APPLICATION FOR TRANSFER OF WATER RIGHT



- Proposed Points of Diversion
- Proposed Place of Use
- State Highway
- Township_range.shp
- Sections.shp
- 40's (Cassia County)
- ESPA Model Grid



Application for Transfer



ATTACHMENT #7b

78937

IDAHO WATER COMPANY LLC

AGREEMENT FOR PURCHASE AND SALE OF WATER RIGHT

THIS AGREEMENT is made and entered into this 20th day of Sept 2013 by and between Del Kohtz of Idaho Water Company LLC (hereinafter "Seller") and W.R. Kel Land LLP hereinafter "Buyer. The seller, Del Kohtz discloses that he is a licensed real estate agent acting herein as principal for his own account and not representing or acting as an agent for the buyer.

TERMS AND CONDITIONS

1. The Sellers, in consideration of the terms contained herein, do hereby contract and agree to sell and convey to the Buyers and the Buyer does hereby agree to buy from the Sellers 32 acre/feet/annum of Idaho Water Right(s) # 35-7192A and #35-9069 and the water appurtenant thereto, for \$[REDACTED] per acre. There are eight (8) acres of water included in this agreement. No land is included in this agreement
2. The total purchase price shall be \$[REDACTED]. The balance of the purchase price shall be paid on the closing date described in paragraph 5 below, less 33% down payment paid at signing. Payment of [REDACTED] paid at signing. [REDACTED]
3. This Agreement for Purchase and Sale of said license is contingent upon and subject to approval of the application for transfer by the Department of Water Resources. If the application is not approved, this Agreement shall become null and void.
4. The closing of this transaction and delivery of the executed Assignment to Buyer and the entire purchase price for the contract to Seller shall take place at the law offices of Givens Pursley, PO Box 2720 Boise Idaho 83701, within thirty days of Buyers receipt of approval from the Department of the application for transfer. The Buyers shall be given possession and use of the water right and the water appurtenant thereto upon Closing.

OTHER PROVISIONS

Buyer only pays for the Water Rights
~~only delivered to the Wickel Land LLP~~ Buyer
only for Water Rights delivered

IN WITNESS WHEREOF the parties have caused their names to be subscribed
on the dates set forth above.

SELLERS

Idaho Water Co. LLC
Robert K. Kistner

BUYERS

Wickel Land LLP
Ariel Wickel

IDAHO WATER COMPANY LLC

1135 Valley Road South
Eden, Idaho 83325
Office (208) 825-5617
Mobile 312-1135

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NOV 05 2013

Department of Water Resources
Eastern Region

OPTION AGREEMENT FOR PURCHASE AND SALE OF WATER RIGHT

THIS AGREEMENT is made and entered into this 10th day 2012
by and between Foster Land and Cattle of PO Box 40 Ririe, Id. 83443 (hereinafter
"Seller") and Idaho Water Company LLC of 1135 Valley Rd. SO. Eden, ID. hereinafter
("Buyer"). The buyer, Del Kohtz discloses that he is a licensed real estate agent acting
for his own account and not as an agent of the end buyer.

TERMS AND CONDITIONS

1. The Sellers, in consideration of the terms contained herein, do hereby
contract and agree to sell and convey to the Buyers and the Buyer does hereby agree
to buy from the Sellers portions of Idaho Water Rights # 35-7192A and 35-9069 and
the water appurtenant thereto, for _____ per acre. There are 174.7 acres in this
agreement. No land is included in this agreement.

2. The total purchase price shall be _____

The entire purchase price shall be paid on the closing
dates described in paragraph 4 below less _____ earnest money paid at signing.

3. This Agreement for Purchase and Sale of said license is contingent upon and
subject to IDWR finding that the Water Right is valid and transferable. If the Water
Right is invalid or non-transferable, this Agreement shall become null and void.

4. The Buyer desires to buy the Water Rights, in separate tracts in order as agreed upon by both parties. Each transfer will be closed separately as they are paid for this contract will be the standard contract and price for each transfer. The Buyers shall be given possession and use of the portion of the water right and the water appurtenant thereto, upon the closing of each transfer. The remaining Water Rights shall remain the property of the seller until they are paid for and so forth until the entire Water Right is sold. Closing(s) shall take place at the offices of Holden, Kidwell, Hahn and Crapo in Idaho Falls, Idaho.

5. In the event of any suit or proceeding by either party against the other party, in any way arising out of this agreement the prevailing party shall be awarded their reasonable attorney fees and costs.

6. Option: Seller understands Buyer is transferring the water appurtenant to Sellers property to another property.

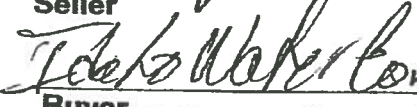
7. This agreement shall be binding upon and shall inure to the benefit of the heirs, personal representatives, administrators, successors and assigns to the parties hereto.

8. Seller understands that if the Water Right is proven to be in forfeiture or is non-transferable all the earnest money will be returned to Buyer.

IN WITNESS WHEREOF have caused their names to be subscribed on the dates set forth above.



Seller Date 5/10/12



Buyer Date 5/11/12



Idaho Water Commission

OPTION AGREEMENT FOR PURCHASE AND SALE OF WATER RIGHT -2

HYDROLOGY HYDRAULICS WATER RIGHTS PROJECT MANAGEMENT STRUCTURAL DESIGN
JCH Engineering & Consulting, P.L.L.C.
6755 N. Albert Lane Idaho Falls, ID 83401
E-mail: jasoncivil@alumni.nd.edu
Ph. (208) 308-2109
STREAM CHANNEL ALTERATIONS CIVIL ENGINEERING FLOOD PLAIN MODELING

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Department of Water Resources
Eastern Region

ESPA Impact Analysis Report

Idaho Water Company
Combined Off-Setting Transfers (35-7192A, 35-9069)

Transfer #1: City of Ammon
Transfer #2: City of Chubbuck
Transfer #3: Flying A
Transfer #4: Wickel Land, LLP
Transfer #5: Jefferson County Recreation Area

Prepared by Jason C. Helms, P.E.
November 1, 2013

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APPENDICES

Appendix A.	Table: Calculated Water Right Splits For Transfers
Appendix B.	Map: Diversion Locations Within The ESPA
Appendix C.	ESPA Transfer Spreadsheet Input Summaries
Appendix D.	ESPA Transfer Spreadsheet Input Data
Table D.1	Data Entry Table : Transfer #1 - City of Ammon
Table D.2	Data Entry Table : Transfer #2 - City of Chubbuck
Table D.3	Data Entry Table : Transfer #3 - Country Club Hills
Table D.4	Data Entry Table: Transfer #4 - Wickel Land, LLP
Table D.5	Data Entry Table: Transfer #5 - Jefferson County Lake
Appendix E.	Required Mitigation & Off-Setting ESPA Reach Impacts
Table E.1	Off-Setting Impacts: Heise To Shelley
Table E.2	Off-Setting Impacts: Shelley To Near Blackfoot
Table E.3	Off-Setting Impacts: Near Blackfoot To Neeley

1. General Information

This report presents the results of an evaluation of off-setting transient changes to the model river reaches of the Eastern Snake River Plain Aquifer (ESPA) resulting from the off-setting impacts of five individual water right transfers which have been combined for mitigation purposes.

Each of the five transfers seek to change the place of use for varying portions of existing water rights 35-7192A and 35-9069. A table showing the proposed splits based on proportional fractions of the existing right is attached as **Appendix A**. A map showing the locations of the proposed and historical diversion locations is attached as **Appendix B**.

The existing water rights 35-7192A and 35-9069 have the maximum authorized volume of 4.0 acre-ft per acre authorized for use and both water rights share the same priority date of November 29, 1971. Transfer #5 to Jefferson Lake requires an initial reduction during the first year after transfer to mitigate transient increases within 5% of historical impacts which are exceeded when only the mitigating effects of the other transfers are considered. For all other transfers, the full transferred volume is available immediately following formal transfer approval by IDWR with the analysis modeling the new use as early as the spring trimester in 2014.

2. Model Approach

Simulation of transient impacts to ESPA river reaches resulting from the proposed transfers was performed utilizing the most recent ESPA Transfer Spreadsheet Tool Version 3.1 developed by IDWR in cooperation with the Idaho Water Resources Research Institute (IWRRI). In each of the five model analyses, the determination of changes to ESPA river reaches was evaluated utilizing only the specific volume proposed for each individual transfer. The "without transfer" impacts are determined by modeling the diversion of the historical headgate volume authorized by the water right beginning on the priority date of the water right and continuing through the end of the model time period. This provides a baseline of priority authorized reach impacts according to the historical diversion

location of the proposed transferred water rights. The impacts resulting from the new diversion location is modeled in the "TO Well" with total change in impacts calculated through summation of residual impacts still propagating from the past historical use combined with the new impacts resulting from diversion of the water right at the proposed new location.

Following determination of independent transfer impacts, the results were examined to determine if mitigation was required for each model time step. If the individual reach impacts exceed 10% of the total diversion, **and** the increase in reach impacts exceeds 2 acre-ft per year **and** the increase in reach impacts exceeds 10% of the calculated historical baseline impacts then mitigation is required. Where mitigation was found to be required for an individual transfer, the off-setting impacts from some combination of the other transfers is included to determine if additional mitigation is required. Only the Jefferson Lake transfer exceeds the historical reach impacts when the off-setting impacts are considered, however, an initial reduction in authorized volume satisfies the mitigation requirement. Both the City of Ammon and City of Chubbuck well systems were modeled as diverting from the weighted centroid based on recent historical diversion records.

3. Transfer #1 (City of Ammon)

Transfer #1 seeks to provide ground water irrigation water rights for use within the service area of the municipal water supply system of the City of Ammon to meet peak summer demand. The City of Ammon wells lie within 5 individual ESPA model cells. The transfer seeks to authorize the diversion of the transferred water right from any of the City of Ammon wells and analysis of historical diversions indicates the centroid of diversions lies within ESPA model cell 75,163. The steady state impacts from the proposed transfer are shown below in **Table 1**. All spring reaches not shown experience negligible impacts.

OFF-SETTING TRANSFER #1				Steady State Impacts by Reach					
	POD Location	Model Volume [afa]	Model Node	Ashton to Rexburg	Heise to Shelley	Shelley to Near Blackfoot	Near Blackfoot to Neeley	Neeley to Minidoka	Devil's Washbowl to Buhl
Foster L&L	4N,35E-11	121.2	SP054155	10.7	12.6	37.9	56.0	1.4	1.4
City of Ammon	2N,38E-11	121.2	SP075163	9.5	17.2	44.2	47.0	1.1	1.2
Change in Impacts:				-1.2	4.6	6.4	-9.0	-0.2	-0.3
Mitigation Required? (> 6 afa or >10% hist.)				NO	NO	YES	NO	NO	NO

Table 1: Changes to ESPA Reach Impacts Resulting from Proposed Transfer to City of Ammon

3.1. Transfer #1 ESPA Transient Impacts

Calculated worst-case transient impacts (acre-ft per trimester) resulting from the transfer to ESPA model cell (75,163) utilizing the ESPA Transfer Spreadsheet are shown below in **Chart 1**. The transient analysis reveals an increase over projected historical impacts in the Heise to Shelley and Shelley to Near Blackfoot reaches. Only the Shelley to Near Blackfoot reach experiences a net increase over 2 acre-ft per trimester requiring mitigation. The off-setting mitigation provided by this transfer to the Near Blackfoot to Neeley reach is also apparent.

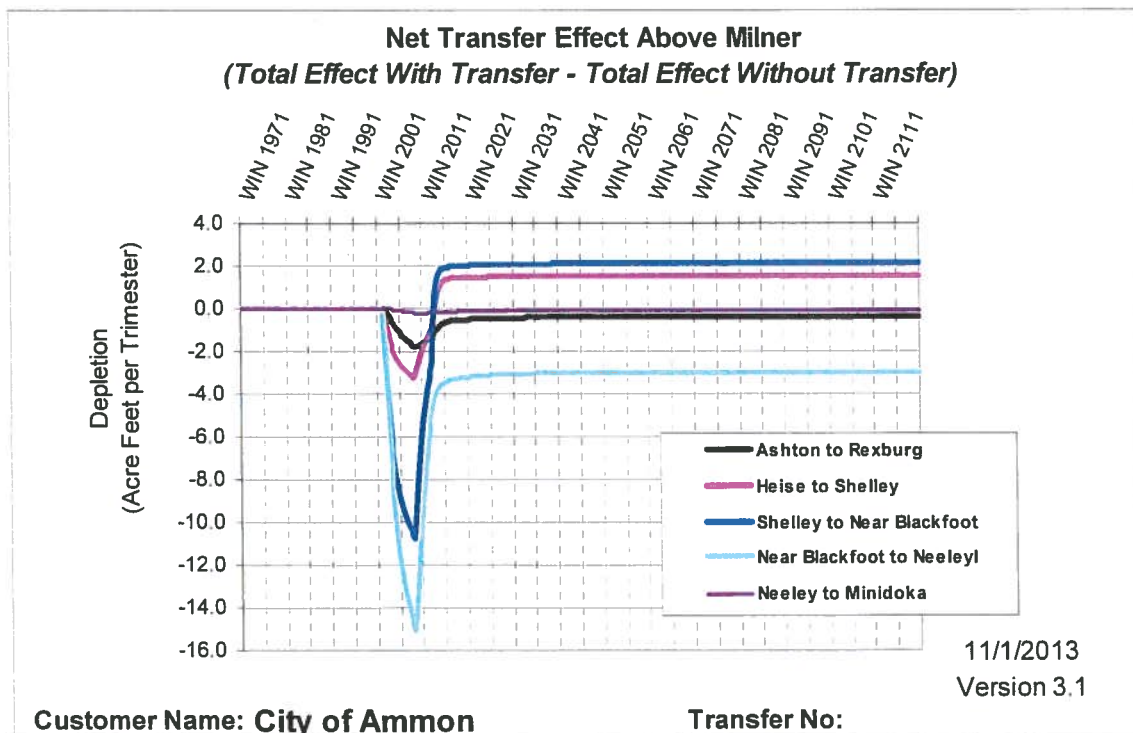


Chart 1: Transient ESPA Reach Impacts from Proposed Transfer to the City of Ammon

4. Transfer #2 (City of Chubbuck)

Transfer #2 seeks to provide ground water irrigation water rights for use within the service area of the municipal water supply system of the City of Chubbuck to meet peak demand. The City of Chubbuck wells lie within several individual ESPA model cells as shown in the application for transfer. The transfer seeks to authorize the diversion of the transferred water right from any of the city wells. Analysis of historical diversions indicates the centroid of diversions lies within ESPA model cell 96,122. **Table 2** (below) shows the historical and expected steady state impacts (acre-ft per year) of the proposed transfer. The ESPA reaches comprising at least 10% of the total impacts related to diversion from the proposed well are the Shelley to Near Blackfoot and Near Blackfoot to Neeley reaches (impacts shaded).

This location within the ESPA model generates significantly higher reach impacts in the Near Blackfoot to Neeley model reach while providing significant off-setting mitigation to the three uppermost reaches. The Neeley to Minidoka reach also shows an increase, however the impacts to that reach are less than 2 acre-ft per trimester so no mitigation is normally required for that particular reach according to current IDWR policy¹. Transfer #2 to the City of Chubbuck specifically generates off-setting mitigation credits for Transfer #1 in the Shelley to Near Blackfoot reach and for Transfer #5 in the Heise to Shelley reach.

OFF-SETTING TRANSFER #2				Steady State Impacts by Reach					
	POD Location	Model Volume [afa]	Model Node	Ashton to Rexburg	Heise to Shelley	Shelley to Near Blackfoot	Near Blackfoot to Neeley	Neeley to Minidoka	Devil's Washbowl to Buhl
Foster L&L	4N,35E-11	92.0	SP054155	8.1	9.5	28.7	42.5	1.0	1.1
City of Chubbuck	6S,34E-3	92.0	SP096122	1.9	2.3	20.9	63.4	1.3	1.2
Change in Impacts:				-6.2	-7.3	-7.8	20.9	0.2	0.1
Required? (Change > 6 afa and >10% over historical):				NO	NO	NO	YES	NO	NO

Table 2: Changes to ESPA Reach Impacts Resulting from Proposed Transfer to the City of Chubbuck

¹ IDWR Administrator's Memorandum (Transfer Processing No. 24, 12/21/2009) pg. 13 (b).

4.1. Transfer #2 ESPA Transient Impacts

Calculated transient impacts (acre-ft per trimester) resulting from the transfer to the City of Chubbuck utilizing the ESPA Transfer Spreadsheet showing the upper ESPA reach impacts (acre-ft per trimester) are shown below in **Chart 2**. All spring reaches not shown experience negligible impacts.

According to the transient analysis, there is an initial spike where historical impacts overlap with modeled new diversions exceeding the steady state values. These compounded impacts recede after approximately 10 years asymptotically approaching the steady state impacts. In agreement with the calculated steady state analysis, this transfer generates off-setting credits in the Ashton to Rexburg, Heise to Shelley and Shelley to Near Blackfoot reaches.

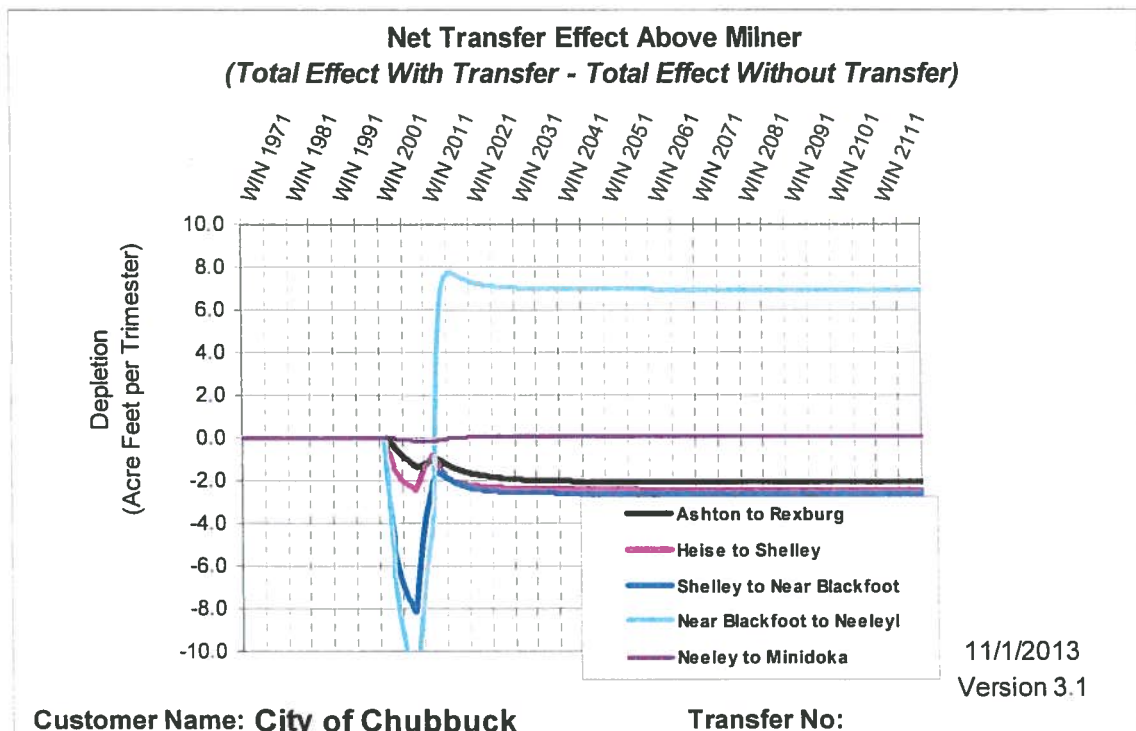


Chart 2: Transient ESPA Reach Impacts from Proposed Transfer to the City of Chubbuck

5. Transfer #3 (Flying A)

Transfer #3 seeks to provide 2 acres of ground water irrigation water rights for irrigation uses within an existing permissible place of use associated

with current water rights 21-13121, 21-13149 and 21-13177. This location experiences a reduced consumptive irrigation diversion of 3.5 acre-ft per acre rather than the current authorized rate of 4.0 acre-ft per acre. **Table 3** below shows the expected steady state impacts of the proposed transfer to the Flying A property in the upper ESPA reaches. The ESPA reaches comprising at least 10% of the total impacts related to diversion from the proposed well is only the Ashton to Rexburg reach (impacts shaded). All spring reaches not shown experience negligible impacts.

According to the steady state analysis, no reaches experience an increase in impacts over 2 acre-ft per model trimester (6 acre-ft per year). Transfer #3 does however, generate significant off-setting mitigation for Transfer #1 within the Shelley to Near Blackfoot reach and Transfer #2 within the Near Blackfoot to Neeley reach. Some minor credits are also generated in the Heise to Shelley reach providing additional off-setting mitigation for Transfer #5.

OFF-SETTING TRANSFER #3				Steady State Impacts by Reach					
	POD Location	Model Volume [afa]	Model Node	Ashton to Rexburg	Heise to Shelley	Shelley to Near Blackfoot	Near Blackfoot to Neeley	Neeley to Minidoka	Devil's Washbowl to Buhl
Foster L&L	4N,35E-11	8.0	SP054155	0.7	0.8	2.5	3.7	0.1	0.1
Flying A	9N,42E-20	7.0	SP050202	6.1	0.6	0.1	0.2	0.0	0.0
Change in Impacts:				5.4	-0.3	-2.4	-3.5	-0.1	-0.1
Required? (Change > 6 afa and >10% over historical):				NO	NO	NO	NO	NO	NO

Table 3: Changes to ESPA Reach Impacts (Above Milner) Resulting from Transfer to Country Club Hills

5.1. Transfer #3 ESPA Transient Impacts

Calculated transient changes (acre-ft per trimester) from historical impacts to upper ESPA reaches resulting from the proposed transfer to the Flying A property utilizing the ESPA Transfer Spreadsheet are shown in **Chart 3**.

According to the results of the transient model analysis, additional impacts in the Ashton to Rexburg reach increase quickly but never exceed 2 acre-ft per trimester over historical levels. The offsetting mitigation generated in the Shelley to Near Blackfoot and Near Blackfoot to Neeley reaches is also readily apparent with reduced mitigation over steady state levels provided during the first few years following the transfer. Increased mitigation over steady state levels is also

apparent in the Heise to Shelley reach specifically off-setting impacts for Transfer #5.

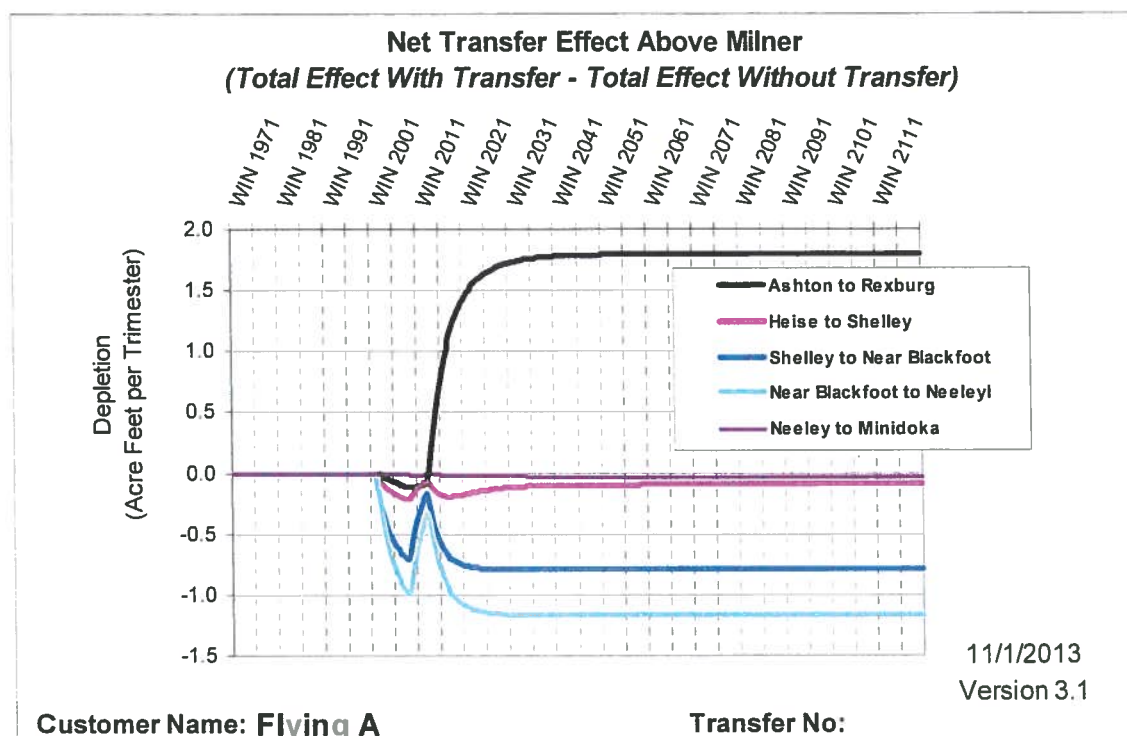


Chart 3: Changes to ESPA Reach Impacts (Above Milner) Resulting from Transfer to Flying A

6. Transfer #4 (Wickel Land, LLP)

Transfer #4 seeks to provide additional ground water irrigation water rights for use within an existing permissible place of use owned by Wickel Land, L.P. **Table 4** (below) shows the expected steady state impacts (acre-ft per year) of the proposed transfer to the Wickel wells in the upper ESPA reaches. The ESPA reaches comprising at least 10% of the total impacts related to diversion from the proposed well are the Near Blackfoot to Neeley, Neeley to Minidoka and Devil's Washbowl to Buhl reaches (impacts shaded).

Transfer to this location within the ESPA model generates increased reach impacts in the Neeley to Minidoka and Devil's Washbowl to Buhl reaches under 6 acre-ft per year at steady state. According to the steady state analysis, this

particular transfer provides off-setting mitigation to the four uppermost reaches of the Snake River off-setting impacts of each of the other transfers

OFF-SETTING TRANSFER #4				Steady State Impacts by Reach					
	POD Location	Model Volume [afa]	Model Node	Ashton to Rexburg	Heise to Shelley	Shelley to Near Blackfoot	Near Blackfoot to Neeley	Neeley to Minidoka	Devil's Washbowl to Buhl
Foster L&L	4N,35E-11	32.0	SP054155	2.8	3.3	10.0	14.8	0.4	0.4
Wickel	10S,25E-30	32.0	SP090059	0.4	0.4	3.1	10.9	5.7	6.2
Change in Impacts:				-2.5	-2.9	-6.9	-3.9	5.3	5.9
Required? (Change > 6 afa and >10% over historical):				NO	NO	NO	NO	NO	NO

Table 4: Changes to ESPA Reach Impacts Resulting from Transfer to Wickel Land, L.P.

6.1. Transfer #4 ESPA Transient Impacts

Evaluation of transient ESPA reach impacts (acre-ft per trimester) calculated utilizing the ESPA Transfer Spreadsheet resulting from Transfer #4 are shown in **Chart 4**. According to the results of the transient model analysis, the slight increase in impacts generated in the Neeley to Minidoka reach

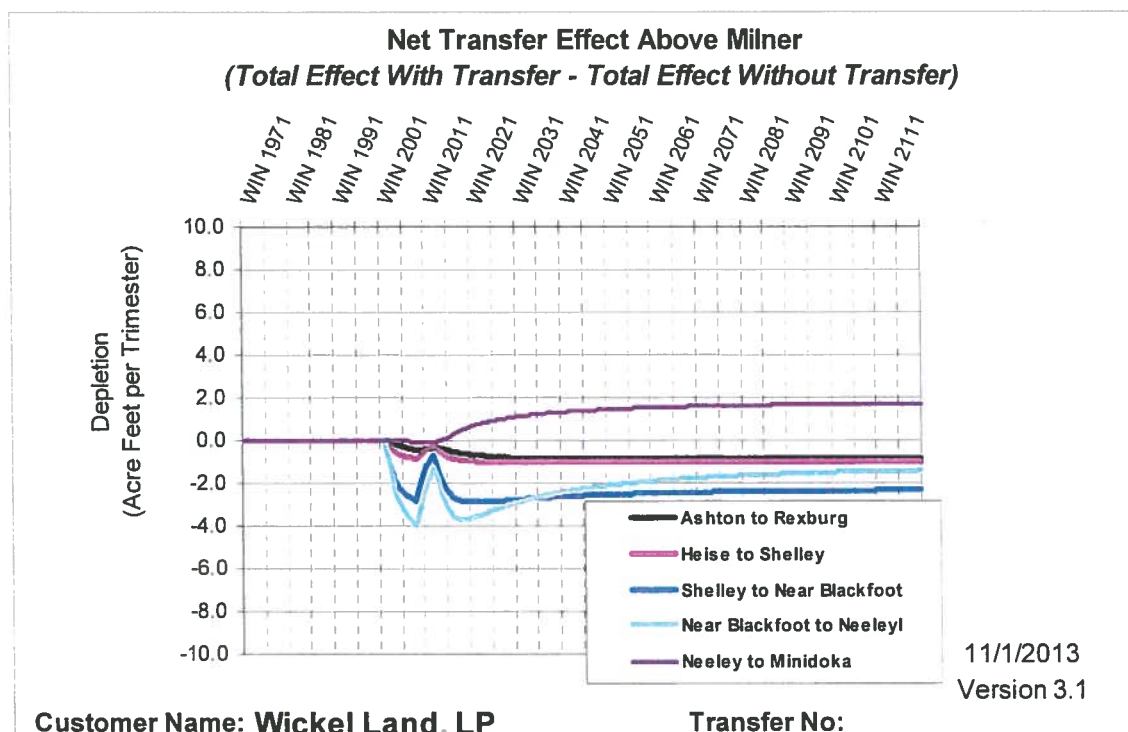


Chart 4: Changes to ESPA Reach Impacts (Above Milner) Resulting from Transfer to Wickel

increases asymptotically toward the calculated steady state values but do not exceed 2 acre-ft per model trimester. The off-setting impacts in the upper reaches is also apparent. All spring reaches not shown experience negligible impacts

7. Transfer #5 (Jefferson Lake)

Transfer #5 seeks to provide additional ground water irrigation water rights for use at the Jefferson County Lake Recreation area. **Table 5** shows the expected steady state impacts (acre-ft per year) of the proposed transfer to the Jefferson Lake well in the upper ESPA reaches. The ESPA reaches comprising at least 10% of the total impacts related to diversion from the proposed well are the Ashton to Rexburg and Heise to Shelley reaches (impacts shaded).

Transfer to this location within the ESPA model generates increased reach impacts in the Ashton to Rexburg reach under 6 acre-ft per year at steady state and requires mitigation for the increased impacts in the Heise to Shelley reach. According to the steady state analysis, this particular transfer provides significant off-setting mitigation to the Shelley to Near Blackfoot and Near Blackfoot to Neeley reaches of the Snake River.

OFF-SETTING TRANSFER #5				Steady State Impacts by Reach					
	POD Location	Model Volume [afa]	Model Node	Ashton to Rexburg	Heise to Shelley	Shelley to Near Blackfoot	Near Blackfoot to Neeley	Neeley to Minidoka	Devil's Washbowl to Buhl
Foster L&L	4N,35E-11	16.0	SP054155	1.4	1.7	5.0	7.4	0.2	0.2
Jefferson Lake	10S,25E-30	16.0	SP064173	4.5	10.0	0.6	0.8	0.0	0.0
Change in Impacts:				3.1	8.3	-4.4	-6.6	-0.2	-0.2
Mitigation Required? (> 6 afa or >10% hist.)				NO	YES	NO	NO	NO	NO

Table 5: Changes to ESPA Reach Impacts Resulting from Transfer to Jefferson County Lake

7.1. Transfer #5 ESPA Transient Impacts

Evaluation of transient ESPA reach impacts (acre-ft per trimester) calculated utilizing the ESPA Transfer Spreadsheet resulting from Transfer #5 are shown in **Chart 5**. This transient analysis includes an initial reduction to 75% of the transfer volume utilized during the first year after transfer. According to the results of the transient model analysis, there is a slight increase over steady state

during the first few years after transfer. The reduced impacts in the Shelley to near Blackfoot and Near Blackfoot to Neeley reaches off-setting a portion of the increased impacts resulting from Transfer #1 and Transfer #2 are also apparent.

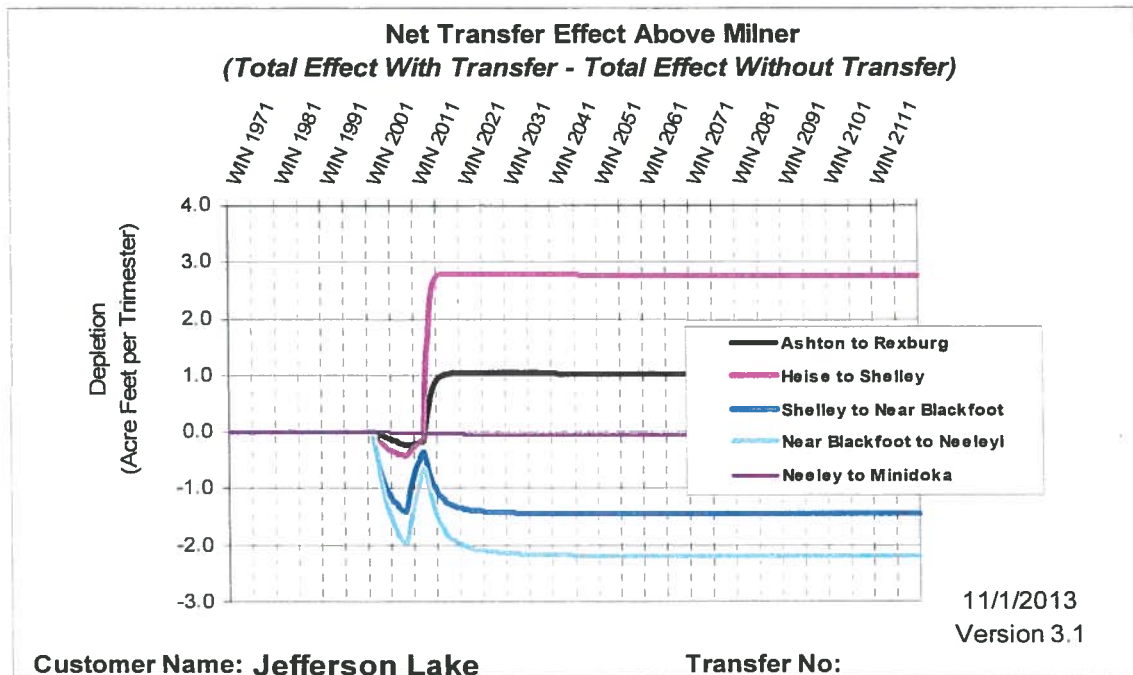


Chart 5: Changes to ESPA Reach Impacts (Above Milner) Resulting from Transfer to Jefferson Lake

8. Analysis of Required Mitigation & Off-Setting Impacts

Based on the results of the transient analysis conducted for each individual transfer, there are three ESPA model reaches requiring mitigation by three of the five transfers. **Table 6** below shows the steady state impacts and off-setting impacts for the model reaches requiring mitigation

SUMMARY - Required Mitigation & Credits Provided by Off-Setting Credit Transfers									
	POD Location	Model Node	Ashton to Rexburg	Heise to Shelley	Shelley to Near Blackfoot	Near Blackfoot to Neeley	Neeley to Minidoka	Devil's Washbowl to Buhl	
#1 TO: City of Amm	2N,38E-11	SP075163	-1.2		6.4	-9.0	-0.2	-0.3	
#2 TO: City of Chub	6S,34E-3	SP096122	-6.2	-7.3	-7.8	20.9			
#3 TO: Flying A	9N,42E-20	SP050202		-0.3	-2.4	-3.5	-0.1	-0.1	
#4 TO: Wickel	10S,25E-30	SP090059	-2.5	-2.9	-6.9	-3.9			
#5 TO: Jefferson La	4N,39E-5	SP064173		8.3	-4.4	-6.6	-0.2	-0.2	
Net Off-Setting Impacts			-9.90	-2.13	-15.04	-2.13	-0.48	-0.51	
			OK	OK	OK	OK	OK	OK	

Table 6: Evaluation of Required and Off-Setting Mitigation (Steady State Values Shown)

8.1. Heise to Shelley (Transfers #5)

The following tables (**Table 7**) shows the off-setting transient credits generated within the Heise to Shelley reach associated with the proposed transfer to the City of Chubbuck, Flying A, Wickel Land, L.P. and the excess impacts generated by the transfer to the Jefferson Lake Recreation Area. **Table 8** specifically shows the combined off-setting impacts which are maintained transiently within 5% of historical calculated impacts with the 25% reduction of the transferred volume to Jefferson Lake during the first year after transfer.

HEISE - SHELLEY

Impacts of transfers (Values are [acre-ft per trimester] determined from ESPA Transfer Spreadsheet.

	City of Chubbuck			Flying A			Wickel			Jefferson Lake		
	With Transfer	Without Transfer	Change	With Transfer	Without Transfer	Change	With Transfer	Without Transfer	Change	With Transfer	Without Transfer	Change
SPR 2010	0.83	3.16	-2.32	0.07	0.27	-0.20	0.29	1.10	-0.81	0.14	0.55	-0.40
SUM 2010	1.03	3.16	-2.13	0.09	0.27	-0.18	0.36	1.10	-0.74	0.18	0.55	-0.37
WIN 2010	1.26	3.16	-1.90	0.11	0.27	-0.17	0.44	1.10	-0.66	0.22	0.55	-0.33
SPR 2011	1.47	3.16	-1.69	0.13	0.27	-0.15	0.51	1.10	-0.59	0.26	0.55	-0.29
SUM 2011	1.66	3.16	-1.50	0.14	0.27	-0.13	0.58	1.10	-0.52	0.29	0.55	-0.26
WIN 2011	1.82	3.16	-1.34	0.16	0.27	-0.12	0.63	1.10	-0.47	0.32	0.55	-0.23
SPR 2012	1.96	3.16	-1.20	0.17	0.27	-0.10	0.68	1.10	-0.42	0.34	0.55	-0.21
SUM 2012	2.08	3.16	-1.08	0.18	0.27	-0.09	0.72	1.10	-0.38	0.36	0.55	-0.19
WIN 2012	2.18	3.16	-0.99	0.19	0.28	-0.09	0.76	1.10	-0.34	0.38	0.55	-0.17
SPR 2013	2.26	3.16	-0.90	0.20	0.28	-0.08	0.79	1.10	-0.31	0.39	0.55	-0.16
SUM 2013	2.33	3.16	-0.83	0.20	0.28	-0.07	0.81	1.10	-0.29	0.41	0.55	-0.14
WIN 2013	2.40	3.16	-0.77	0.21	0.28	-0.07	0.83	1.10	-0.27	0.42	0.55	-0.13
SPR 2014	2.32	3.16	-0.85	0.20	0.28	-0.07	0.80	1.10	-0.30	1.51	0.55	0.96
SUM 2014	2.15	3.16	-1.02	0.19	0.28	-0.09	0.74	1.10	-0.36	2.03	0.55	1.48
WIN 2014	1.96	3.17	-1.21	0.17	0.28	-0.11	0.67	1.10	-0.43	2.28	0.55	1.73
SPR 2015	1.78	3.17	-1.38	0.15	0.28	-0.13	0.60	1.10	-0.50	2.78	0.55	2.23
SUM 2015	1.64	3.17	-1.53	0.13	0.28	-0.14	0.53	1.10	-0.57	3.04	0.55	2.49
WIN 2015	1.52	3.17	-1.65	0.12	0.28	-0.15	0.48	1.10	-0.62	3.17	0.55	2.62
SPR 2016	1.42	3.17	-1.75	0.11	0.28	-0.16	0.43	1.10	-0.67	3.24	0.55	2.69
SUM 2016	1.34	3.17	-1.82	0.10	0.28	-0.17	0.39	1.10	-0.71	3.29	0.55	2.74
WIN 2016	1.28	3.17	-1.89	0.10	0.28	-0.18	0.36	1.10	-0.74	3.32	0.55	2.77
SPR 2017	1.23	3.17	-1.94	0.09	0.28	-0.18	0.33	1.10	-0.77	3.33	0.55	2.78
SUM 2017	1.19	3.17	-1.98	0.09	0.28	-0.19	0.31	1.10	-0.79	3.34	0.55	2.79
WIN 2017	1.15	3.17	-2.02	0.09	0.28	-0.19	0.29	1.10	-0.81	3.35	0.55	2.80
SPR 2018	1.12	3.17	-2.05	0.09	0.28	-0.19	0.27	1.10	-0.83	3.35	0.55	2.80
SUM 2018	1.10	3.17	-2.07	0.09	0.28	-0.19	0.25	1.10	-0.85	3.36	0.55	2.80
WIN 2018	1.07	3.17	-2.09	0.09	0.28	-0.19	0.24	1.10	-0.86	3.36	0.55	2.81
SPR 2019	1.05	3.17	-2.11	0.09	0.28	-0.19	0.23	1.10	-0.88	3.36	0.55	2.81

Table 7: Heise-Shelley Initial Excess and Off-Setting Transient Impacts

Combined Transfers 2-5				
	With Transfer	Without Transfer	Change [af]	Change [% of historical]
SPR 2010	1.34	5.08	-3.74	-279.20%
SUM 2010	1.66	5.08	-3.42	-205.89%
WIN 2010	2.02	5.08	-3.06	-151.17%
SPR 2011	2.37	5.08	-2.72	-114.66%
SUM 2011	2.67	5.08	-2.41	-90.22%
WIN 2011	2.93	5.08	-2.15	-73.31%
SPR 2012	3.16	5.09	-1.93	-61.18%
SUM 2012	3.34	5.09	-1.74	-52.17%
WIN 2012	3.50	5.09	-1.59	-45.27%
SPR 2013	3.64	5.09	-1.45	-39.87%
SUM 2013	3.76	5.09	-1.33	-35.52%
WIN 2013	3.86	5.09	-1.23	-31.97%
SPR 2014	4.84	5.09	-0.25	-5.27%
SUM 2014	5.11	5.09	0.01	0.29%
WIN 2014	5.08	5.09	-0.02	-0.33%
SPR 2015	5.31	5.09	0.22	4.14%
SUM 2015	5.34	5.09	0.25	4.63%
WIN 2015	5.29	5.09	0.19	3.65%
SPR 2016	5.21	5.09	0.12	2.21%
SUM 2016	5.13	5.10	0.03	0.68%
WIN 2016	5.06	5.10	-0.04	-0.80%
SPR 2017	4.99	5.10	-0.11	-2.17%
SUM 2017	4.93	5.10	-0.17	-3.41%
WIN 2017	4.88	5.10	-0.22	-4.53%
SPR 2018	4.83	5.10	-0.27	-5.52%
SUM 2018	4.79	5.10	-0.31	-6.41%
WIN 2018	4.76	5.10	-0.34	-7.21%
SPR 2019	4.72	5.10	-0.37	-7.93%

Table 8: Heise-Shelley Combined Transient Impacts

8.2. Shelley to Near Blackfoot

Chart 6 on the following page shows the calculated transient impacts within the Shelley to Near Blackfoot reach associated with the proposed transfer to the City of Ammon and the off-setting mitigation provided by the companion transfers to the City of Chubbuck, Flying A and Wickel Land, L.P. According to the combined results, the transfers to the City of Chubbuck, Flying A and Wickel provide ample mitigation throughout the model period even without considering the additional credits generated by the additional off-setting transfer to Jefferson Lake.

Hydrologic Response--Shelley to Near Blackfoot

Customer Name: Idaho Water Co.
(35-7192A,9069)

Transfer No: Off-Setting

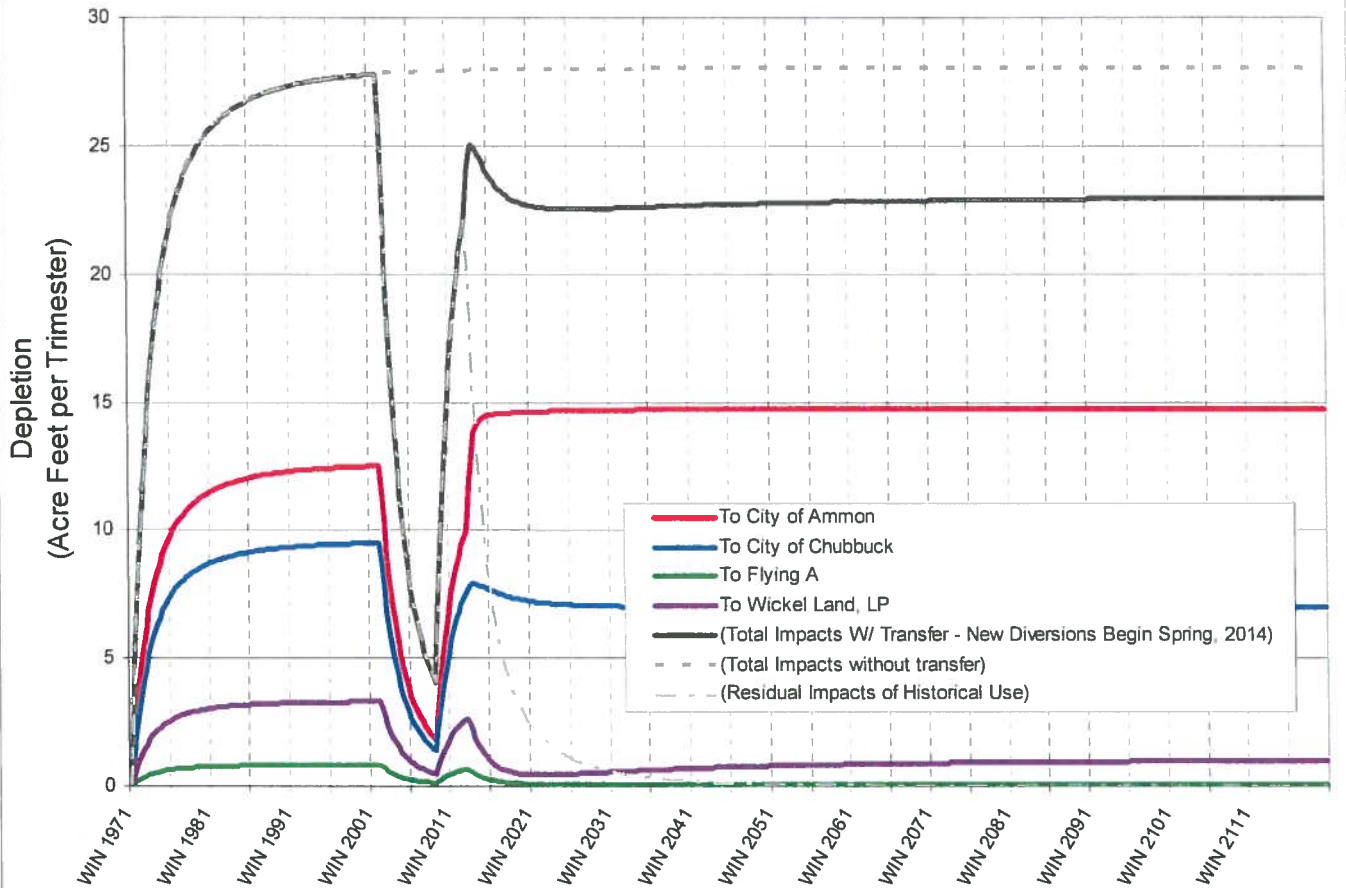


Chart 6: Shelley to Near Blackfoot Combined Transient Impacts

8.3. Near Blackfoot to Neeley Impacts

The following chart shows the individual and off-setting transient impacts within the Near Blackfoot to Neeley reach associated with the proposed companion transfers. According to the model analysis, total impacts within the Near Blackfoot to Neeley reach are maintained below historical levels throughout the transient model period as a result of the combined off-setting transfers.

Hydrologic Response--Near Blackfoot to Neeley

Customer Name: Idaho Water Co.
(35-7192A,9069)

Transfer No: Off-Setting

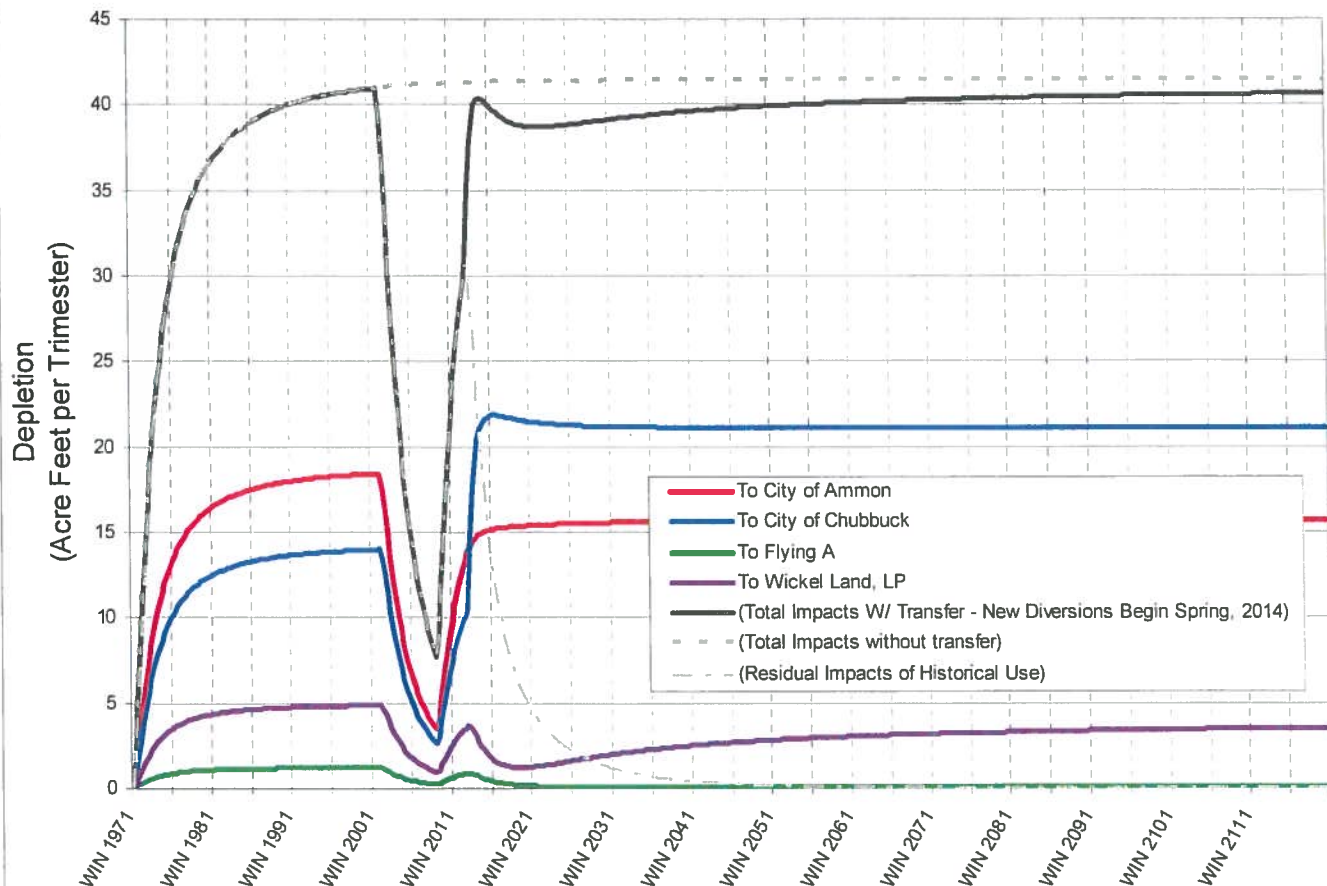


Chart 7: Near Blackfoot to Neeley Combined Transient Impacts

9. Results & Conclusions

According to the ESPA Transfer Spreadsheet transient analysis, the spatial distribution of the water right portions associated with the transfers maintains ESPA reach impacts closely near historical levels for all significant reaches when the off-setting mitigation is considered. While the transfer to the Jefferson Lake Recreation area generates slightly increased impacts during the initial period of the transient model, those impacts are mitigated to within 5% of historical levels when an initial single year reduction to 75% of the transferred

volume for that particular transfer is included in addition to the off-setting credits generated by the other companion transfers.

The ESPA Transfer Spreadsheet input data summary describing the model analysis is attached as **Appendix C**. The input data utilized for each of the five transfers is attached as **Appendix D**. The stepwise results of the analysis tabulating required mitigation and off-setting impacts for each ESPA reach found to require mitigation is attached as **Appendix E**.

APPENDIX A

Water Right Split Worksheet

(Idaho Water Company Off-Setting Transfers 35-7192A, 35-9069)

PARENT Water Rights				Fraction: 100.00%
Water Right	Priority	Diversion Rate [cfs]	Diversion Volume [afa]	Acres
35-7192A	11/29/1971	5.45	2144.8	536.2
35-9069	11/29/1971	0.57	223.6	55.9
TOTAL:		6.02	2368.4	592.1

# 1 to City of Ammon				Fraction of OWR: 5.12%
Water Right	Priority	Diversion Rate	Diversion Volume	Acres
35-7192A	11/29/1971	0.28	109.8	27.4
35-9069	11/29/1971	0.03	11.4	2.9
TOTAL:		0.31	121.2	30.3

# 2 to City of Chubbuck				Fraction of OWR: 3.88%
Water Right	Priority	Diversion Rate	Diversion Volume	Acres
35-7192A	11/29/1971	0.21	83.3	20.8
35-9069	11/29/1971	0.02	8.7	2.2
TOTAL:		0.23	92.0	23.0

#3 to Flying A				Fraction: 0.34%
Water Right	Priority	Diversion Rate	Diversion Volume	Acres
35-7192A	11/29/1971	0.02	7.2	1.8
35-9069	11/29/1971	0.01	0.8	0.2
TOTAL:		0.02 combined	8.0	2.0

#4 to Wickel				Fraction: 1.35%
Water Right	Priority	Diversion Rate	Diversion Volume	Acres
35-7192A	11/29/1971	0.07	29.0	7.2
35-9069	11/29/1971	0.01	3.0	0.8
TOTAL:		0.08	32.0	8.0

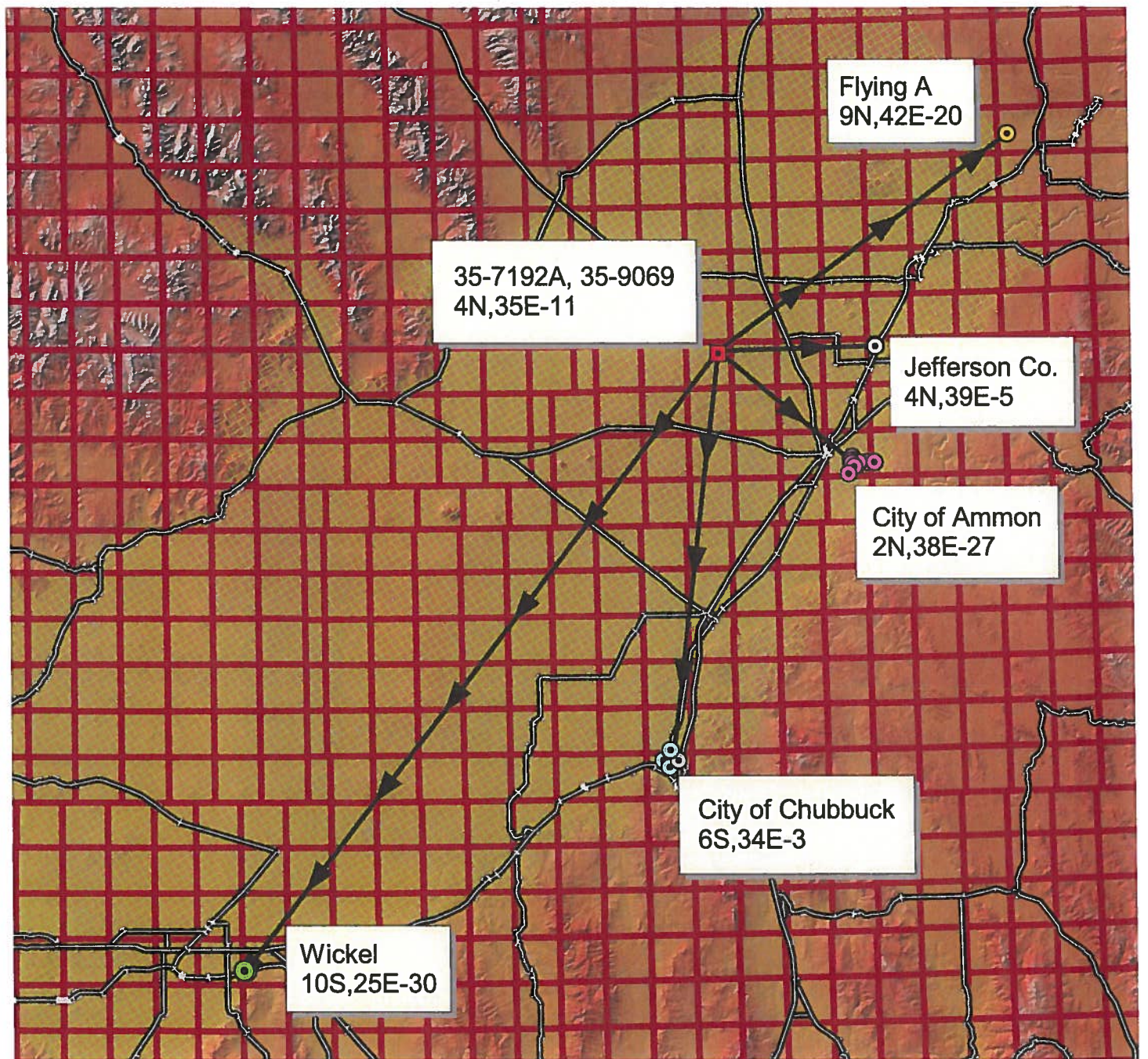
#5 to Jefferson Lake				Fraction: 0.68%
Water Right	Priority	Diversion Rate	Diversion Volume	Acres
35-7192A	11/29/1971	0.04	14.5	3.6
35-9069	11/29/1971	0.01	1.5	0.4
TOTAL:		0.04 combined	16.0	4.0

TOTAL TRANSFER:				Fraction: 11.37%
Water Right	Priority	Diversion Rate [cfs]	Diversion Volume [afa]	Acres
35-7192A	11/29/1971	0.62	243.8	60.9
35-9069	11/29/1971	0.06	25.4	6.4
TOTAL:		0.68	269.2	67.3

REMAINING WR				88.63%
Water Right	Priority	Diversion Rate [cfs]	Diversion Volume [afa]	Acres
35-7192A	11/29/1971	4.83	1901.0	475.3
35-9069	11/29/1971	0.51	198.2	49.5
TOTAL:		5.34	2099.2	524.8

APPENDIX B

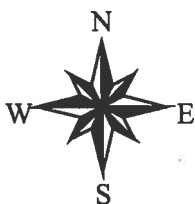
Combined Transfers 35-7192A, 35-9069



JCH - 11/1/2013

10 0 10 20 30 Miles

Shaded Relief



State Highways
Township & Range
ESPA Model

- Existing POD
- Transfer #1 - City of Ammon
- Transfer #2 - City of Chubbuck
- Transfer #3 - Flying A
- Transfer #4 - Wickel
- Transfer #5 - Jefferson Lake

APPENDIX B (Diversion Locations Within The ESPA)

APPENDIX C

ESPA Ground Water Rights Transfer Spreadsheet Data Summary

TRANSFER NO: Foster #1
 TRANSFER NAME: City of Ammon

PREPARED BY: Jason C. Helms, P.E.
 DATE: 11/1/2013
 Transfer Tool Version: Version 3.1

BLUE CELLS ARE SET UP FOR
 USER ENTRIES

WATER RIGHTS INVOLVED:

Group 1 Transfer Rights		Group 2 Additional Mitigation Rights	
Right No	Priority Date	Right No	Priority Date
35-7192A	11/29/1971		
35-9069	11/29/1971		

HISTORIC BENEFICIAL USE:

Trans/Mit Rights (group no.)	Acres to Dry Up (ac)	Beneficial Use (af/yr)	Total (af/yr)
35-7192A	27.45	109.8	109.8
35-9069	2.85	11.4	11.4

MITIGATION NOTES:

MODEL CELL LOCATIONS:

	TO WELL	FROM1 WELL	FROM2 WELL	FROM3 WELL
ROW	75	54	0	0
COLUMN	163	155	0	0

	Start Date		End Date		Water Use		Acres Authorized (acres)	Notes
	Season	Year	Season	Year	Annual (af/yr)	Trimester (af/trimester)		
TO Well (Projected Use)	Winter Spring	1971 2014	Winter Summer	2013 2121	0.0 121.2	0.0 40.4	0.0 40.4	no use before transfer Full use available after transfer
FROM1 Well (With Transfer)	Winter Spring Spring Spring Spring	1971 1972 2003 2010 2014	Winter Winter Winter Winter Summer	1971 2002 2009 2013 2121	0 121.2 0 121.2 0	0.0 40.4 0.0 40.4 0.0	0.0 30.3 0.0 30.3 0.0	No use before priority date Hist. use begins on priority date Approved non-use 2003-2009 Use resumed 2010-2013 No use following transfer
FROM1 Well (Without Transfer)	Winter	1971	Summer	2121	121.2	40.4	30.3	Full authorized use continues without transfer
FROM2 Well (With Transfer)								not used
FROM2 Well (Without Transfer)								not used
FROM3 Well (With Transfer)								not used
FROM3 Well (Without Transfer)								not used

ESPA Ground Water Rights Transfer Spreadsheet Data Summary

TRANSFER NO: Foster #2
 TRANSFER NAME: City of Chubbuck

PREPARED BY: Jason C. Helms, P.E.
 DATE: 11/1/2013
 Transfer Tool Version: Version 3.1

BLUE CELLS ARE SET UP FOR
 USER ENTRIES

WATER RIGHTS INVOLVED:

Group 1 Transfer Rights		Group 2 Additional Mitigation Rights	
Right No	Priority Date	Right No	Priority Date
35-7192A	11/29/1971		
35-9069	11/29/1971		

HISTORIC BENEFICIAL USE:

Trans/Mit. Rights (group no.)	Acres to Dry Up (ac)	Beneficial Use (af/yr)	Total (af/yr)
35-7192A	20.825	83.3	83.3
35-9069	2.175	8.7	8.7

MITIGATION NOTES:

MODEL CELL LOCATIONS:

	TO WELL	FROM1 WELL	FROM2 WELL	FROM3 WELL
ROW	96	54	0	0
COLUMN	122	155	0	0

	Start Date		End Date		Water Use		Acres Authorized (acres)	Notes
	Season	Year	Season	Year	Annual (af/yr)	Trimester (af/trimester)		
TO Well (Projected Use)	Winter	1971	Winter	2013	0.0	0.0	0.0	no use before transfer
	Spring	2014	Summer	2121	92.0	30.7	30.7	Full use available after transfer
FROM1 Well (With Transfer)	Winter	1971	Winter	1971	0	0.0	0.0	No use before priority date
	Spring	1972	Winter	2002	92	30.7	23.0	Hist. use begins on priority date
	Spring	2003	Winter	2009	0	0.0	0.0	Approved non-use 2003-2009
	Spring	2010	Winter	2013	92	30.7	23.0	Use resumed 2010-2013
	Spring	2014	Summer	2121	0	0.0	0.0	No use following transfer
FROM1 Well (Without Transfer)	Winter	1971	Summer	2121	92	30.7	23.0	Full authorized use continues without transfer
FROM2 Well (With Transfer)								not used
FROM2 Well (Without Transfer)								not used
FROM3 Well (With Transfer)								not used
FROM3 Well (Without Transfer)								not used

ESPA Ground Water Rights Transfer Spreadsheet Data Summary

TRANSFER NO: Foster #3
TRANSFER NAME: Flying A

PREPARED BY: Jason C. Helms, P.E.
DATE: 11/1/2013
Transfer Tool Version Version 3.1

BLUE CELLS ARE SET UP FOR
USER ENTRIES

WATER RIGHTS INVOLVED:

Group 1 Transfer Rights		Group 2 Additional Mitigation Rights	
Right No.	Priority Date	Right No.	Priority Date
35-7192A	11/29/1971		
35-9089	11/29/1971		

HISTORIC BENEFICIAL USE:

Trans/Mit. Rights (group no.)	Acres to Dry Up (ac)	Beneficial Use (afa/yr)	Total (af/yr)
35-7192A	1.8	7.2	7.2
35-9089	0.2	0.8	0.8

MITIGATION NOTES:

MODEL CELL LOCATIONS:

	TO WELL	FROM1 WELL	FROM2 WELL	FROM3 WELL
ROW	50	54	0	0
COLUMN	202	155	0	0

	Start Date		End Date		Water Use		Acres Authorized (acres)	Notes
	Season	Year	Season	Year	Annual (af/yr)	Trimester (af/trimester)		
TO Well (Projected Use)	Winter	1971	Winter	2013	0.0	0.0	0.0	no use before transfer
	Spring	2014	Summer	2121	7.0	2.3	2.0	Full use available after transfer Includes reduction to 3.5 afa/ac
FROM1 Well (With Transfer)	Winter	1971	Winter	1971	0	0.0	0.0	No use before priority date
	Spring	1972	Winter	2002	8	2.7	2.0	Hist. use begins on priority date
	Spring	2003	Winter	2009	0	0.0	0.0	Approved non-use 2003-2009
	Spring	2010	Winter	2013	8	2.7	2.0	Use resumed 2010-2013
	Spring	2014	Summer	2121	0	0.0	0.0	No use following transfer
FROM1 Well (Without Transfer)	Winter	1971	Summer	2121	8	2.7	2.0	Full authorized use continues without transfer
FROM2 Well (With Transfer)								not used
FROM2 Well (Without Transfer)								not used
FROM3 Well (With Transfer)								not used
FROM3 Well (Without Transfer)								not used

ESPA Ground Water Rights Transfer Spreadsheet Data Summary

TRANSFER NO: Foster #4
TRANSFER NAME: Wickel Land, LP

PREPARED BY: Jason C. Helms, P.E.
DATE: 11/1/2013
Transfer Tool Version: Version 3.1

BLUE CELLS ARE SET UP FOR
USER ENTRIES

WATER RIGHTS INVOLVED:

Group 1 Transfer Rights		Group 2 Additional Mitigation Rights	
Right No.	Priority Date	Right No.	Priority Date
35-7192A	11/29/1971		
35-9069	11/29/1971		

HISTORIC BENEFICIAL USE:

Trans/Mit. Rights (group no.)	Acres to Dry Up (ac)	Beneficial Use (af/yr)	Total (af/yr)
35-7192A	7.25	29	29
35-9069	0.75	3	3

MITIGATION NOTES:

MODEL CELL LOCATIONS:

	TO WELL	FROM1 WELL	FROM2 WELL	FROM3 WELL
ROW	90	54	0	0
COLUMN	59	155	0	0

	Start Date		End Date		Water Use		Acres Authorized (acres)	Notes
	Season	Year	Season	Year	Annual (af/yr)	Trimester (af/trimester)		
TO Well (Projected Use)	Winter	1971	Winter	2013	0.0	0.0	0.0	no use before transfer
	Spring	2014	Summer	2121	32.0	10.7	8.0	Full use available after transfer
FROM1 Well (With Transfer)	Winter	1971	Winter	1971	0	0.0	0.0	No use before priority date
	Spring	1972	Winter	2002	32	10.7	8.0	Hist. use begins on priority date
	Spring	2003	Winter	2009	0	0.0	0.0	Approved non-use 2003-2009
	Spring	2010	Winter	2013	32	10.7	8.0	Use resumed 2010-2013
	Spring	2014	Summer	2121	0	0.0	0.0	No use following transfer
FROM1 Well (Without Transfer)	Winter	1971	Summer	2121	32	10.7	8.0	Full authorized use continues without transfer
FROM2 Well (With Transfer)								not used
FROM2 Well (Without Transfer)								not used
FROM3 Well (With Transfer)								not used
FROM3 Well (Without Transfer)								not used

ESPA Ground Water Rights Transfer Spreadsheet Data Summary

TRANSFER NO: Foster #5
TRANSFER NAME: Jefferson Lake

PREPARED BY: Jason C. Helms, P.E.
DATE: 11/1/2013
Transfer Tool Version: Version 3.1

BLUE CELLS ARE SET UP FOR
USER ENTRIES

WATER RIGHTS INVOLVED:

Group 1 Transfer Rights		Group 2 Additional Mitigation Rights	
Right No.	Priority Date	Right No.	Priority Date
35-7192A	11/29/1971		
35-9089	11/29/1971		

HISTORIC BENEFICIAL USE:

Trans/Mit Rights (group no.)	Acres to Dry Up (ac)	Beneficial Use (afa/yr)	Total (afa/yr)
35-7192A	3.625	14.5	14.5
35-9089	0.375	1.5	1.5

MITIGATION NOTES:

Initial transient increase requires reduction to only 75% of transferred water rights during first year after transfer. Credits generated from other transfers exceed required mitigation allowing full use after single year reduction.

MODEL CELL LOCATIONS:

	TO WELL	FROM1 WELL	FROM2 WELL	FROM3 WELL
ROW	64	54	0	0
COLUMN	173	155	0	0

	Start Date		End Date		Water Use		Acres Authorized (acres)	Notes
	Season	Year	Season	Year	Annual (afa/yr)	Trimester (afa/trimester)		
TO Well (Projected Use)	Winter	1971	Winter	2013	0.0	0.0	0.0	no use before transfer
	Spring	2014	Winter	2014	12.0	4.0	3.0	75% available first year
	Spring	2015	Summer	2121	16.0	4.0	4.0	Full use available 1 year after
FROM1 Well (With Transfer)	Winter	1971	Winter	1971	0	0.0	0.0	No use before priority date
	Spring	1972	Winter	2002	16	5.3	4.0	Hist. use begins on priority date
	Spring	2003	Winter	2009	0	0.0	0.0	Approved non-use 2003-2009
	Spring	2010	Winter	2013	16	5.3	4.0	Use resumed 2010-2013
	Spring	2014	Summer	2121	0	0.0	0.0	No use following transfer
FROM1 Well (Without Transfer)	Winter	1971	Summer	2121	16	5.3	4.0	Full authorized use continues without transfer
FROM2 Well (With Transfer)								
FROM2 Well (Without Transfer)								
FROM3 Well (With Transfer)								
FROM3 Well (Without Transfer)								

APPENDIX D

ENHANCED GROUND-WATER RIGHTS TRANSFER

UNIVERSITY OF IDAHO - IDAHO WATER RESOURCES RESEARCH INSTITUTE | IDAHO DEPARTMENT OF WATER RESOURCES

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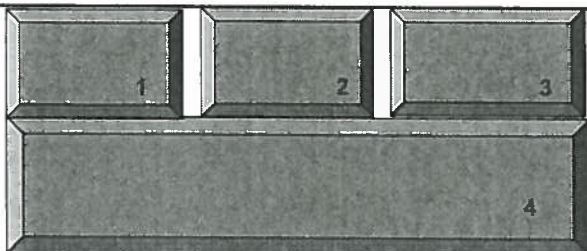
ENTER STARTING DATE FOR

SIMULATION. THEN PUSH "UPDATE DATES" BUTTON

TRANSFER NO: Foster #1

YEAR: 1971 TRANSFER NAME:

SEASON: WINTER City of Ammon



ENTER CELL LOCATIONS:

	TO' CELL	FROM1' CELL	FROM2' CELL	FROM3' CELL
ROW	75	54		
COLUMN	163	155		

35-7192A 11/29/1971 109.8
35-9069 11/29/1971 11.4

2N38E-27		4N35E-11		Total		121.2	
TRIMESTER OF ACTIVITY	TO WELL Projected Use AF/TRIMESTER	FROM1 WELL With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER	FROM2 WELL With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER	FROM3 WELL With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER
WIN 1971	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SPR 1972	0.00	40.40	40.40	0.00	0.00	0.00	0.00
SUM 1972	0.00	40.40	40.40	0.00	0.00	0.00	0.00
WIN 1972	0.00	40.40	40.40	0.00	0.00	0.00	0.00
SPR 1973	0.00	40.40	40.40	0.00	0.00	0.00	0.00
WIN 2001	0.00	40.40	40.40	0.00	0.00	0.00	0.00
SPR 2002	0.00	40.40	40.40	0.00	0.00	0.00	0.00
SUM 2002	0.00	40.40	40.40	0.00	0.00	0.00	0.00
WIN 2002	0.00	40.40	40.40	0.00	0.00	0.00	0.00
SPR 2003	0.00	0.00	40.40	0.00	0.00	0.00	0.00
SUM 2003	0.00	0.00	40.40	0.00	0.00	0.00	0.00
WIN 2003	0.00	0.00	40.40	0.00	0.00	0.00	0.00
SPR 2004	0.00	0.00	40.40	0.00	0.00	0.00	0.00
SUM 2004	0.00	0.00	40.40	0.00	0.00	0.00	0.00
WIN 2004	0.00	0.00	40.40	0.00	0.00	0.00	0.00
SPR 2005	0.00	0.00	40.40	0.00	0.00	0.00	0.00
SUM 2005	0.00	0.00	40.40	0.00	0.00	0.00	0.00
WIN 2005	0.00	0.00	40.40	0.00	0.00	0.00	0.00
SPR 2006	0.00	0.00	40.40	0.00	0.00	0.00	0.00
SUM 2006	0.00	0.00	40.40	0.00	0.00	0.00	0.00
WIN 2006	0.00	0.00	40.40	0.00	0.00	0.00	0.00
SPR 2007	0.00	0.00	40.40	0.00	0.00	0.00	0.00
SUM 2007	0.00	0.00	40.40	0.00	0.00	0.00	0.00
WIN 2007	0.00	0.00	40.40	0.00	0.00	0.00	0.00
SPR 2008	0.00	0.00	40.40	0.00	0.00	0.00	0.00
SUM 2008	0.00	0.00	40.40	0.00	0.00	0.00	0.00
WIN 2008	0.00	0.00	40.40	0.00	0.00	0.00	0.00
SPR 2009	0.00	0.00	40.40	0.00	0.00	0.00	0.00
SUM 2009	0.00	0.00	40.40	0.00	0.00	0.00	0.00
WIN 2009	0.00	0.00	40.40	0.00	0.00	0.00	0.00
SPR 2010	0.00	40.40	40.40	0.00	0.00	0.00	0.00
SUM 2010	0.00	40.40	40.40	0.00	0.00	0.00	0.00
WIN 2010	0.00	40.40	40.40	0.00	0.00	0.00	0.00
SPR 2011	0.00	40.40	40.40	0.00	0.00	0.00	0.00
SUM 2011	0.00	40.40	40.40	0.00	0.00	0.00	0.00
WIN 2011	0.00	40.40	40.40	0.00	0.00	0.00	0.00
SPR 2012	0.00	40.40	40.40	0.00	0.00	0.00	0.00
SUM 2012	0.00	40.40	40.40	0.00	0.00	0.00	0.00
WIN 2012	0.00	40.40	40.40	0.00	0.00	0.00	0.00
SPR 2013	0.00	40.40	40.40	0.00	0.00	0.00	0.00
SUM 2013	0.00	40.40	40.40	0.00	0.00	0.00	0.00
WIN 2013	0.00	40.40	40.40	0.00	0.00	0.00	0.00
SPR 2014	40.40	0.00	40.40	0.00	0.00	0.00	0.00
SUM 2014	40.40	0.00	40.40	0.00	0.00	0.00	0.00
WIN 2014	40.40	0.00	40.40	0.00	0.00	0.00	0.00
SPR 2015	40.40	0.00	40.40	0.00	0.00	0.00	0.00
WIN 2119	40.40	0.00	40.40	0.00	0.00	0.00	0.00
SPR 2120	40.40	0.00	40.40	0.00	0.00	0.00	0.00
SUM 2120	40.40	0.00	40.40	0.00	0.00	0.00	0.00
WIN 2120	40.40	0.00	40.40	0.00	0.00	0.00	0.00
SPR 2121	40.40	0.00	40.40	0.00	0.00	0.00	0.00
SUM 2121	40.40	0.00	40.40	0.00	0.00	0.00	0.00

78957

ENHANCED GROUND-WATER RIGHTS TRANSFER

UNIVERSITY OF IDAHO - IDAHO WATER RESOURCES RESEARCH INSTITUTE

IDAHO DEPA

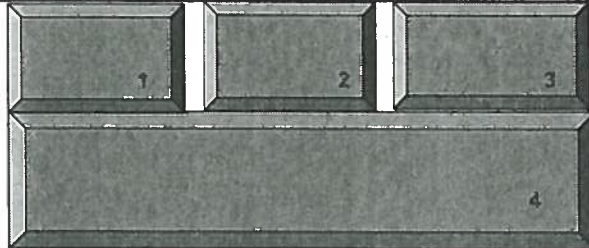
Cells this color are
set up for user entries

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

YEAR 1971
SEASON WINTER

TRANSFER NO:
Foster #2

TRANSFER NAME:
City of Chubbuck



ENTER CELL LOCATIONS:

	TO' CELL	'FROM1' CELL	'FROM2' CELL	'FROM3' CELL
ROW	96	54		
COLUMN	122	155		

35-7192A 11/29/1971 83.3
35-9069 11/29/1971 8.7

6S34E-3		4N35E-11		Total		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
WIN 1971	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SPR 1972	0.00	30.67	30.67	0.00	0.00	0.00	0.00
SUM 1972	0.00	30.67	30.67	0.00	0.00	0.00	0.00
WIN 1972	0.00	30.67	30.67	0.00	0.00	0.00	0.00
SPR 1973	0.00	30.67	30.67	0.00	0.00	0.00	0.00
WIN 2001	0.00	30.67	30.67	0.00	0.00	0.00	0.00
SPR 2002	0.00	30.67	30.67	0.00	0.00	0.00	0.00
SUM 2002	0.00	30.67	30.67	0.00	0.00	0.00	0.00
WIN 2002	0.00	30.67	30.67	0.00	0.00	0.00	0.00
SPR 2003	0.00	0.00	30.67	0.00	0.00	0.00	0.00
SUM 2003	0.00	0.00	30.67	0.00	0.00	0.00	0.00
WIN 2003	0.00	0.00	30.67	0.00	0.00	0.00	0.00
SPR 2004	0.00	0.00	30.67	0.00	0.00	0.00	0.00
SUM 2004	0.00	0.00	30.67	0.00	0.00	0.00	0.00
WIN 2004	0.00	0.00	30.67	0.00	0.00	0.00	0.00
SPR 2005	0.00	0.00	30.67	0.00	0.00	0.00	0.00
SUM 2005	0.00	0.00	30.67	0.00	0.00	0.00	0.00
WIN 2005	0.00	0.00	30.67	0.00	0.00	0.00	0.00
SPR 2006	0.00	0.00	30.67	0.00	0.00	0.00	0.00
SUM 2006	0.00	0.00	30.67	0.00	0.00	0.00	0.00
WIN 2006	0.00	0.00	30.67	0.00	0.00	0.00	0.00
SPR 2007	0.00	0.00	30.67	0.00	0.00	0.00	0.00
SUM 2007	0.00	0.00	30.67	0.00	0.00	0.00	0.00
WIN 2007	0.00	0.00	30.67	0.00	0.00	0.00	0.00
SPR 2008	0.00	0.00	30.67	0.00	0.00	0.00	0.00
SUM 2008	0.00	0.00	30.67	0.00	0.00	0.00	0.00
WIN 2008	0.00	0.00	30.67	0.00	0.00	0.00	0.00
SPR 2009	0.00	0.00	30.67	0.00	0.00	0.00	0.00
SUM 2009	0.00	0.00	30.67	0.00	0.00	0.00	0.00
WIN 2009	0.00	0.00	30.67	0.00	0.00	0.00	0.00
SPR 2010	0.00	30.67	30.67	0.00	0.00	0.00	0.00
SUM 2010	0.00	30.67	30.67	0.00	0.00	0.00	0.00
WIN 2010	0.00	30.67	30.67	0.00	0.00	0.00	0.00
SPR 2011	0.00	30.67	30.67	0.00	0.00	0.00	0.00
SUM 2011	0.00	30.67	30.67	0.00	0.00	0.00	0.00
WIN 2011	0.00	30.67	30.67	0.00	0.00	0.00	0.00
SPR 2012	0.00	30.67	30.67	0.00	0.00	0.00	0.00
SUM 2012	0.00	30.67	30.67	0.00	0.00	0.00	0.00
WIN 2012	0.00	30.67	30.67	0.00	0.00	0.00	0.00
SPR 2013	0.00	30.67	30.67	0.00	0.00	0.00	0.00
SUM 2013	0.00	30.67	30.67	0.00	0.00	0.00	0.00
WIN 2013	0.00	30.67	30.67	0.00	0.00	0.00	0.00
SPR 2014	30.67	0.00	30.67	0.00	0.00	0.00	0.00
SUM 2014	30.67	0.00	30.67	0.00	0.00	0.00	0.00
WIN 2014	30.67	0.00	30.67	0.00	0.00	0.00	0.00
SPR 2015	30.67	0.00	30.67	0.00	0.00	0.00	0.00
WIN 2119	30.67	0.00	30.67	0.00	0.00	0.00	0.00
SPR 2120	30.67	0.00	30.67	0.00	0.00	0.00	0.00
SUM 2120	30.67	0.00	30.67	0.00	0.00	0.00	0.00
WIN 2120	30.67	0.00	30.67	0.00	0.00	0.00	0.00
SPR 2121	30.67	0.00	30.67	0.00	0.00	0.00	0.00
SUM 2121	30.67	0.00	30.67	0.00	0.00	0.00	0.00

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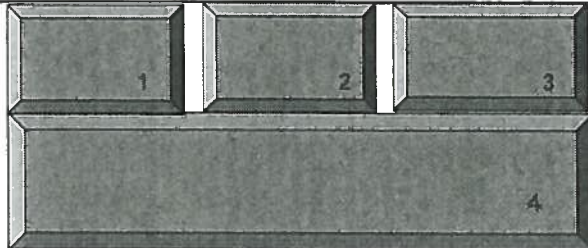
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ENTER STARTING DATE FOR SIMULATION. THEN PUSH "UPDATE DATES" BUTTON

YEAR 1971
SEASON WINTER

TRANSFER NO: Foster #3

TRANSFER NAME: Flying A



ENTER CELL LOCATIONS:

	'TO' CELL	'FROM1' CELL	'FROM2' CELL	'FROM3' CELL
ROW	50	54		
COLUMN	202	155		

35-7162A 11/29/1971 7.2
35-9069 11/29/1971 0.8

7N42E-12		4N35E-11		Total				8
TRIMESTER OF ACTIVITY	TO WELL Projected 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 1971	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SPR 1972	0.00	2.67	2.67	0.00	0.00	0.00	0.00	0.00
SUM 1972	0.00	2.67	2.67	0.00	0.00	0.00	0.00	0.00
WIN 1972	0.00	2.67	2.67	0.00	0.00	0.00	0.00	0.00
SPR 1973	0.00	2.67	2.67	0.00	0.00	0.00	0.00	0.00
WIN 2001	0.00	2.67	2.67	0.00	0.00	0.00	0.00	0.00
SPR 2002	0.00	2.67	2.67	0.00	0.00	0.00	0.00	0.00
SUM 2002	0.00	2.67	2.67	0.00	0.00	0.00	0.00	0.00
WIN 2002	0.00	2.67	2.67	0.00	0.00	0.00	0.00	0.00
SPR 2003	0.00	0.00	2.67	0.00	0.00	0.00	0.00	0.00
SUM 2003	0.00	0.00	2.67	0.00	0.00	0.00	0.00	0.00
WIN 2003	0.00	0.00	2.67	0.00	0.00	0.00	0.00	0.00
SPR 2004	0.00	0.00	2.67	0.00	0.00	0.00	0.00	0.00
SUM 2004	0.00	0.00	2.67	0.00	0.00	0.00	0.00	0.00
WIN 2004	0.00	0.00	2.67	0.00	0.00	0.00	0.00	0.00
SPR 2005	0.00	0.00	2.67	0.00	0.00	0.00	0.00	0.00
SUM 2005	0.00	0.00	2.67	0.00	0.00	0.00	0.00	0.00
WIN 2005	0.00	0.00	2.67	0.00	0.00	0.00	0.00	0.00
SPR 2006	0.00	0.00	2.67	0.00	0.00	0.00	0.00	0.00
SUM 2006	0.00	0.00	2.67	0.00	0.00	0.00	0.00	0.00
WIN 2006	0.00	0.00	2.67	0.00	0.00	0.00	0.00	0.00
SPR 2007	0.00	0.00	2.67	0.00	0.00	0.00	0.00	0.00
SUM 2007	0.00	0.00	2.67	0.00	0.00	0.00	0.00	0.00
WIN 2007	0.00	0.00	2.67	0.00	0.00	0.00	0.00	0.00
SPR 2008	0.00	0.00	2.67	0.00	0.00	0.00	0.00	0.00
SUM 2008	0.00	0.00	2.67	0.00	0.00	0.00	0.00	0.00
WIN 2008	0.00	0.00	2.67	0.00	0.00	0.00	0.00	0.00
SPR 2009	0.00	0.00	2.67	0.00	0.00	0.00	0.00	0.00
SUM 2009	0.00	0.00	2.67	0.00	0.00	0.00	0.00	0.00
WIN 2009	0.00	0.00	2.67	0.00	0.00	0.00	0.00	0.00
SPR 2010	0.00	2.67	2.67	0.00	0.00	0.00	0.00	0.00
SUM 2010	0.00	2.67	2.67	0.00	0.00	0.00	0.00	0.00
WIN 2010	0.00	2.67	2.67	0.00	0.00	0.00	0.00	0.00
SPR 2011	0.00	2.67	2.67	0.00	0.00	0.00	0.00	0.00
SUM 2011	0.00	2.67	2.67	0.00	0.00	0.00	0.00	0.00
WIN 2011	0.00	2.67	2.67	0.00	0.00	0.00	0.00	0.00
SPR 2012	0.00	2.67	2.67	0.00	0.00	0.00	0.00	0.00
SUM 2012	0.00	2.67	2.67	0.00	0.00	0.00	0.00	0.00
WIN 2012	0.00	2.67	2.67	0.00	0.00	0.00	0.00	0.00
SPR 2013	0.00	2.67	2.67	0.00	0.00	0.00	0.00	0.00
SUM 2013	0.00	2.67	2.67	0.00	0.00	0.00	0.00	0.00
WIN 2013	0.00	2.67	2.67	0.00	0.00	0.00	0.00	0.00
SPR 2014	2.33	0.00	2.67	0.00	0.00	0.00	0.00	0.00
SUM 2014	2.33	0.00	2.67	0.00	0.00	0.00	0.00	0.00
WIN 2014	2.33	0.00	2.67	0.00	0.00	0.00	0.00	0.00
SPR 2015	2.33	0.00	2.67	0.00	0.00	0.00	0.00	0.00
WIN 2119	2.33	0.00	2.67	0.00	0.00	0.00	0.00	0.00
SPR 2120	2.33	0.00	2.67	0.00	0.00	0.00	0.00	0.00
SUM 2120	2.33	0.00	2.67	0.00	0.00	0.00	0.00	0.00
WIN 2120	2.33	0.00	2.67	0.00	0.00	0.00	0.00	0.00
SPR 2121	2.33	0.00	2.67	0.00	0.00	0.00	0.00	0.00
SUM 2121	2.33	0.00	2.67	0.00	0.00	0.00	0.00	0.00

78937

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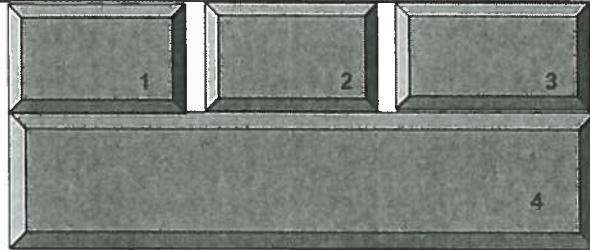
YEAR 1971
SEASON WINTER

TRANSFER NO:

Foster #4

TRANSFER NAME:

Wickel Land, LP



ENTER CELL LOCATIONS:

	TO' CELL	FROM1' CELL	FROM2' CELL	FROM3' CELL
ROW	90	54		
COLUMN	59	155		

35-7192A 11/29/1971 29
35-9069 11/29/1971 3

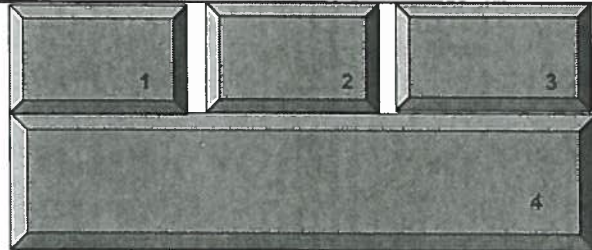
10S25E-30		4N35E-11		Total				32
TRIMESTER OF ACTIVITY	TO WELL	FROM1 WELL		FROM2 WELL		FROM3 WELL		
	Projected Use AF/TRIMESTER	With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER	With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER	With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER	
WIN 1971	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SPR 1972	0.00	10.67	10.67	0.00	0.00	0.00	0.00	
SUM 1972	0.00	10.67	10.67	0.00	0.00	0.00	0.00	
WIN 1972	0.00	10.67	10.67	0.00	0.00	0.00	0.00	
SPR 1973	0.00	10.67	10.67	0.00	0.00	0.00	0.00	
WIN 2001	0.00	10.67	10.67	0.00	0.00	0.00	0.00	
SPR 2002	0.00	10.67	10.67	0.00	0.00	0.00	0.00	
SUM 2002	0.00	10.67	10.67	0.00	0.00	0.00	0.00	
WIN 2002	0.00	10.67	10.67	0.00	0.00	0.00	0.00	
SPR 2003	0.00	0.00	10.67	0.00	0.00	0.00	0.00	
SUM 2003	0.00	0.00	10.67	0.00	0.00	0.00	0.00	
WIN 2003	0.00	0.00	10.67	0.00	0.00	0.00	0.00	
SPR 2004	0.00	0.00	10.67	0.00	0.00	0.00	0.00	
SUM 2004	0.00	0.00	10.67	0.00	0.00	0.00	0.00	
WIN 2004	0.00	0.00	10.67	0.00	0.00	0.00	0.00	
SPR 2005	0.00	0.00	10.67	0.00	0.00	0.00	0.00	
SUM 2005	0.00	0.00	10.67	0.00	0.00	0.00	0.00	
WIN 2005	0.00	0.00	10.67	0.00	0.00	0.00	0.00	
SPR 2006	0.00	0.00	10.67	0.00	0.00	0.00	0.00	
SUM 2006	0.00	0.00	10.67	0.00	0.00	0.00	0.00	
WIN 2006	0.00	0.00	10.67	0.00	0.00	0.00	0.00	
SPR 2007	0.00	0.00	10.67	0.00	0.00	0.00	0.00	
SUM 2007	0.00	0.00	10.67	0.00	0.00	0.00	0.00	
WIN 2007	0.00	0.00	10.67	0.00	0.00	0.00	0.00	
SPR 2008	0.00	0.00	10.67	0.00	0.00	0.00	0.00	
SUM 2008	0.00	0.00	10.67	0.00	0.00	0.00	0.00	
WIN 2008	0.00	0.00	10.67	0.00	0.00	0.00	0.00	
SPR 2009	0.00	0.00	10.67	0.00	0.00	0.00	0.00	
SUM 2009	0.00	0.00	10.67	0.00	0.00	0.00	0.00	
WIN 2009	0.00	0.00	10.67	0.00	0.00	0.00	0.00	
SPR 2010	0.00	10.67	10.67	0.00	0.00	0.00	0.00	
SUM 2010	0.00	10.67	10.67	0.00	0.00	0.00	0.00	
WIN 2010	0.00	10.67	10.67	0.00	0.00	0.00	0.00	
SPR 2011	0.00	10.67	10.67	0.00	0.00	0.00	0.00	
SUM 2011	0.00	10.67	10.67	0.00	0.00	0.00	0.00	
WIN 2011	0.00	10.67	10.67	0.00	0.00	0.00	0.00	
SPR 2012	0.00	10.67	10.67	0.00	0.00	0.00	0.00	
SUM 2012	0.00	10.67	10.67	0.00	0.00	0.00	0.00	
WIN 2012	0.00	10.67	10.67	0.00	0.00	0.00	0.00	
SPR 2013	0.00	10.67	10.67	0.00	0.00	0.00	0.00	
SUM 2013	0.00	10.67	10.67	0.00	0.00	0.00	0.00	
WIN 2013	0.00	10.67	10.67	0.00	0.00	0.00	0.00	
SPR 2014	10.67	0.00	10.67	0.00	0.00	0.00	0.00	
SUM 2014	10.67	0.00	10.67	0.00	0.00	0.00	0.00	
WIN 2014	10.67	0.00	10.67	0.00	0.00	0.00	0.00	
SPR 2015	10.67	0.00	10.67	0.00	0.00	0.00	0.00	
WIN 2119	10.67	0.00	10.67	0.00	0.00	0.00	0.00	
SPR 2120	10.67	0.00	10.67	0.00	0.00	0.00	0.00	
SUM 2120	10.67	0.00	10.67	0.00	0.00	0.00	0.00	
WIN 2120	10.67	0.00	10.67	0.00	0.00	0.00	0.00	
SPR 2121	10.67	0.00	10.67	0.00	0.00	0.00	0.00	
SUM 2121	10.67	0.00	10.67	0.00	0.00	0.00	0.00	

ENHANCED GROUND-WATER RIGHTS TRANSFER

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IDAHO DEPA

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

TRANSFER NO:

Foster #5

YEAR 1971

TRANSFER NAME:

SEASON WINTER

Jefferson Lake

ENTER CELL LOCATIONS:

	'TO' CELL	'FROM1' CELL	'FROM2' CELL	'FROM3' CELL
ROW	64	54		
COLUMN	173	155		

35-7192A 11/29/1971 14.5
35-9069 11/29/1971 1.5

4N39E-5678		4N35E-11		Total				16
TRIMESTER OF ACTIVITY	TO WELL Projected Use AF/TRIMESTER	FROM1 WELL With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER	FROM2 WELL With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER	FROM3 WELL With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER	
WIN 1971	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SPR 1972	0.00	5.33	5.33	0.00	0.00	0.00	0.00	0.00
SUM 1972	0.00	5.33	5.33	0.00	0.00	0.00	0.00	0.00
WIN 1972	0.00	5.33	5.33	0.00	0.00	0.00	0.00	0.00
SPR 1973	0.00	5.33	5.33	0.00	0.00	0.00	0.00	0.00
WIN 2001	0.00	5.33	5.33	0.00	0.00	0.00	0.00	0.00
SPR 2002	0.00	5.33	5.33	0.00	0.00	0.00	0.00	0.00
SUM 2002	0.00	5.33	5.33	0.00	0.00	0.00	0.00	0.00
WIN 2002	0.00	5.33	5.33	0.00	0.00	0.00	0.00	0.00
SPR 2003	0.00	0.00	5.33	0.00	0.00	0.00	0.00	0.00
SUM 2003	0.00	0.00	5.33	0.00	0.00	0.00	0.00	0.00
WIN 2003	0.00	0.00	5.33	0.00	0.00	0.00	0.00	0.00
SPR 2004	0.00	0.00	5.33	0.00	0.00	0.00	0.00	0.00
SUM 2004	0.00	0.00	5.33	0.00	0.00	0.00	0.00	0.00
WIN 2004	0.00	0.00	5.33	0.00	0.00	0.00	0.00	0.00
SPR 2005	0.00	0.00	5.33	0.00	0.00	0.00	0.00	0.00
SUM 2005	0.00	0.00	5.33	0.00	0.00	0.00	0.00	0.00
WIN 2005	0.00	0.00	5.33	0.00	0.00	0.00	0.00	0.00
SPR 2006	0.00	0.00	5.33	0.00	0.00	0.00	0.00	0.00
SUM 2006	0.00	0.00	5.33	0.00	0.00	0.00	0.00	0.00
WIN 2006	0.00	0.00	5.33	0.00	0.00	0.00	0.00	0.00
SPR 2007	0.00	0.00	5.33	0.00	0.00	0.00	0.00	0.00
SUM 2007	0.00	0.00	5.33	0.00	0.00	0.00	0.00	0.00
WIN 2007	0.00	0.00	5.33	0.00	0.00	0.00	0.00	0.00
SPR 2008	0.00	0.00	5.33	0.00	0.00	0.00	0.00	0.00
SUM 2008	0.00	0.00	5.33	0.00	0.00	0.00	0.00	0.00
WIN 2008	0.00	0.00	5.33	0.00	0.00	0.00	0.00	0.00
SPR 2009	0.00	0.00	5.33	0.00	0.00	0.00	0.00	0.00
SUM 2009	0.00	0.00	5.33	0.00	0.00	0.00	0.00	0.00
WIN 2009	0.00	0.00	5.33	0.00	0.00	0.00	0.00	0.00
SPR 2010	0.00	5.33	5.33	0.00	0.00	0.00	0.00	0.00
SUM 2010	0.00	5.33	5.33	0.00	0.00	0.00	0.00	0.00
WIN 2010	0.00	5.33	5.33	0.00	0.00	0.00	0.00	0.00
SPR 2011	0.00	5.33	5.33	0.00	0.00	0.00	0.00	0.00
SUM 2011	0.00	5.33	5.33	0.00	0.00	0.00	0.00	0.00
WIN 2011	0.00	5.33	5.33	0.00	0.00	0.00	0.00	0.00
SPR 2012	0.00	5.33	5.33	0.00	0.00	0.00	0.00	0.00
SUM 2012	0.00	5.33	5.33	0.00	0.00	0.00	0.00	0.00
WIN 2012	0.00	5.33	5.33	0.00	0.00	0.00	0.00	0.00
SPR 2013	0.00	5.33	5.33	0.00	0.00	0.00	0.00	0.00
SUM 2013	0.00	5.33	5.33	0.00	0.00	0.00	0.00	0.00
WIN 2013	0.00	5.33	5.33	0.00	0.00	0.00	0.00	0.00
SPR 2014	4.00	0.00	5.33	0.00	0.00	0.00	0.00	0.00
SUM 2014	4.00	0.00	5.33	0.00	0.00	0.00	0.00	0.00
WIN 2014	4.00	0.00	5.33	0.00	0.00	0.00	0.00	0.00
SPR 2015	5.33	0.00	5.33	0.00	0.00	0.00	0.00	0.00
SUM 2015	5.33	0.00	5.33	0.00	0.00	0.00	0.00	0.00
WIN 2015	5.33	0.00	5.33	0.00	0.00	0.00	0.00	0.00
SPR 2016	5.33	0.00	5.33	0.00	0.00	0.00	0.00	0.00
WIN 2120	5.33	0.00	5.33	0.00	0.00	0.00	0.00	0.00
SPR 2121	5.33	0.00	5.33	0.00	0.00	0.00	0.00	0.00
SUM 2121	5.33	0.00	5.33	0.00	0.00	0.00	0.00	0.00

APPENDIX E

HEISE - SHELLEY TRANSIENT IMPACTS (Idaho Water Company Off-Setting Transfers 35-7192A, 35-9069)

HEISE - SHELLEY
Impacts of transfers (Values are [acre-ft per trimester] determined from ESPA Transfer Spreadsheet.

	City of Chubbuck			Flying A			Wickel			Jefferson Lake			Combined Transfers 2-5			
	With Transfer	Without Transfer	Change	With Transfer	Without Transfer	Change	With Transfer	Without Transfer	Change	With Transfer	Without Transfer	Change	With Transfer	Without Transfer	Change [af]	Change [% of historical]
SPR 2010	0.83	3.16	-2.32	0.07	0.27	-0.20	0.29	1.10	-0.81	0.14	0.55	-0.40	1.34	5.08	-3.74	-279.20%
SUM 2010	1.03	3.16	-2.13	0.09	0.27	-0.18	0.36	1.10	-0.74	0.18	0.55	-0.37	1.66	5.08	-3.42	-205.89%
WIN 2010	1.26	3.16	-1.90	0.11	0.27	-0.17	0.44	1.10	-0.66	0.22	0.55	-0.33	2.02	5.08	-3.06	-151.17%
SPR 2011	1.47	3.16	-1.69	0.13	0.27	-0.15	0.51	1.10	-0.59	0.26	0.55	-0.29	2.37	5.08	-2.72	-114.66%
SUM 2011	1.66	3.16	-1.50	0.14	0.27	-0.13	0.58	1.10	-0.52	0.29	0.55	-0.26	2.67	5.08	-2.41	-90.22%
WIN 2011	1.82	3.16	-1.34	0.16	0.27	-0.12	0.63	1.10	-0.47	0.32	0.55	-0.23	2.93	5.08	-2.15	-73.31%
SPR 2012	1.96	3.16	-1.20	0.17	0.27	-0.10	0.68	1.10	-0.42	0.34	0.55	-0.21	3.16	5.09	-1.93	-61.18%
SUM 2012	2.08	3.16	-1.08	0.18	0.27	-0.09	0.72	1.10	-0.38	0.36	0.55	-0.19	3.34	5.09	-1.74	-52.17%
WIN 2012	2.18	3.16	-0.99	0.19	0.28	-0.09	0.76	1.10	-0.34	0.38	0.55	-0.17	3.50	5.09	-1.59	-45.27%
SPR 2013	2.26	3.16	-0.90	0.20	0.28	-0.08	0.79	1.10	-0.31	0.39	0.55	-0.16	3.64	5.09	-1.45	-39.87%
SUM 2013	2.33	3.16	-0.83	0.20	0.28	-0.07	0.81	1.10	-0.29	0.41	0.55	-0.14	3.76	5.09	-1.33	-35.52%
WIN 2013	2.40	3.16	-0.77	0.21	0.28	-0.07	0.83	1.10	-0.27	0.42	0.55	-0.13	3.86	5.09	-1.23	-31.97%
SPR 2014	2.32	3.16	-0.85	0.20	0.28	-0.07	0.80	1.10	-0.30	1.51	0.55	0.96	4.84	5.09	-0.25	-5.27%
SUM 2014	2.15	3.16	-1.02	0.19	0.28	-0.09	0.74	1.10	-0.36	2.03	0.55	1.48	5.11	5.09	0.01	0.29%
WIN 2014	1.96	3.17	-1.21	0.17	0.28	-0.11	0.67	1.10	-0.43	2.28	0.55	1.73	5.08	5.09	-0.02	-0.33%
SPR 2015	1.78	3.17	-1.38	0.15	0.28	-0.13	0.60	1.10	-0.50	2.78	0.55	2.23	5.31	5.09	0.22	4.14%
SUM 2015	1.64	3.17	-1.53	0.13	0.28	-0.14	0.53	1.10	-0.57	3.04	0.55	2.49	5.34	5.09	0.25	4.63%
WIN 2015	1.52	3.17	-1.65	0.12	0.28	-0.15	0.48	1.10	-0.62	3.17	0.55	2.62	5.29	5.09	0.19	3.65%
SPR 2016	1.42	3.17	-1.75	0.11	0.28	-0.16	0.43	1.10	-0.67	3.24	0.55	2.69	5.21	5.09	0.12	2.21%
SUM 2016	1.34	3.17	-1.82	0.10	0.28	-0.17	0.39	1.10	-0.71	3.29	0.55	2.74	5.13	5.10	0.03	0.68%
WIN 2016	1.28	3.17	-1.89	0.10	0.28	-0.18	0.36	1.10	-0.74	3.32	0.55	2.77	5.06	5.10	-0.04	-0.80%
SPR 2017	1.23	3.17	-1.94	0.09	0.28	-0.18	0.33	1.10	-0.77	3.33	0.55	2.78	4.99	5.10	-0.11	-2.17%
SUM 2017	1.19	3.17	-1.98	0.09	0.28	-0.19	0.31	1.10	-0.79	3.34	0.55	2.79	4.93	5.10	-0.17	-3.41%
WIN 2017	1.15	3.17	-2.02	0.09	0.28	-0.19	0.29	1.10	-0.81	3.35	0.55	2.80	4.88	5.10	-0.22	-4.53%
SPR 2018	1.12	3.17	-2.05	0.09	0.28	-0.19	0.27	1.10	-0.83	3.35	0.55	2.80	4.83	5.10	-0.27	-5.52%
SUM 2018	1.10	3.17	-2.07	0.09	0.28	-0.19	0.25	1.10	-0.85	3.36	0.55	2.80	4.79	5.10	-0.31	-6.41%
WIN 2018	1.07	3.17	-2.09	0.09	0.28	-0.19	0.24	1.10	-0.86	3.36	0.55	2.81	4.76	5.10	-0.34	-7.21%
SPR 2019	1.05	3.17	-2.11	0.09	0.28	-0.19	0.23	1.10	-0.88	3.36	0.55	2.81	4.72	5.10	-0.37	-7.93%
SUM 2019	1.04	3.17	-2.13	0.09	0.28	-0.19	0.21	1.10	-0.89	3.36	0.55	2.81	4.70	5.10	-0.40	-8.57%
WIN 2019	1.02	3.17	-2.15	0.09	0.28	-0.19	0.20	1.10	-0.90	3.36	0.55	2.81	4.67	5.10	-0.43	-9.16%
SPR 2020	1.01	3.17	-2.16	0.09	0.28	-0.18	0.19	1.10	-0.91	3.36	0.55	2.81	4.65	5.10	-0.45	-9.69%
SUM 2020	0.99	3.17	-2.18	0.09	0.28	-0.18	0.19	1.10	-0.92	3.36	0.55	2.81	4.63	5.10	-0.47	-10.17%
WIN 2020	0.98	3.17	-2.19	0.10	0.28	-0.18	0.18	1.10	-0.93	3.36	0.55	2.80	4.61	5.10	-0.49	-10.61%
SPR 2021	0.97	3.17	-2.20	0.10	0.28	-0.18	0.17	1.10	-0.93	3.36	0.55	2.80	4.60	5.10	-0.51	-11.01%
SUM 2021	0.96	3.17	-2.21	0.10	0.28	-0.17	0.16	1.10	-0.94	3.35	0.55	2.80	4.58	5.10	-0.52	-11.38%
WIN 2021	0.95	3.17	-2.22	0.10	0.28	-0.17	0.16	1.10	-0.94	3.35	0.55	2.80	4.57	5.10	-0.54	-11.73%
SPR 2022	0.94	3.17	-2.23	0.11	0.28	-0.17	0.15	1.10	-0.95	3.35	0.55	2.80	4.55	5.10	-0.55	-12.04%
SUM 2022	0.93	3.17	-2.24	0.11	0.28	-0.17	0.15	1.10	-0.96	3.35	0.55	2.80	4.54	5.10	-0.56	-12.34%
WIN 2022	0.92	3.17	-2.25	0.11	0.28	-0.16	0.14	1.10	-0.96	3.35	0.55	2.80	4.53	5.10	-0.57	-12.61%
SPR 2023	0.92	3.17	-2.26	0.11	0.28	-0.16	0.14	1.10	-0.96	3.35	0.55	2.80	4.52	5.10	-0.58	-12.87%
SUM 2023	0.91	3.17	-2.26	0.12	0.28	-0.16	0.14	1.10	-0.97	3.35	0.55	2.80	4.51	5.10	-0.59	-13.10%
WIN 2023	0.90	3.17	-2.27	0.12	0.28	-0.16	0.13	1.10	-0.97	3.35	0.55	2.80	4.50	5.10	-0.60	-13.33%
SPR 2024	0.90	3.17	-2.28	0.12	0.28	-0.15	0.13	1.10	-0.98	3.35	0.55	2.80	4.50	5.10	-0.61	-13.54%
SUM 2024	0.89	3.17	-2.28	0.12	0.28	-0.15	0.13	1.10	-0.98	3.35	0.55	2.80	4.49	5.10	-0.62	-13.73%
WIN 2024	0.88	3.17	-2.29	0.13	0.28	-0.15	0.12	1.10	-0.98	3.35	0.55	2.80	4.48	5.11	-0.62	-13.92%
SPR 2025	0.88	3.17	-2.30	0.13	0.28	-0.15	0.12	1.10	-0.98	3.35	0.55	2.80	4.47	5.11	-0.63	-14.09%
SUM 2025	0.87	3.17	-2.30	0.13	0.28	-0.14	0.12	1.10	-0.99	3.35	0.55	2.80	4.47	5.11	-0.64	-14.25%
WIN 2025	0.87	3.17	-2.31	0.13	0.28	-0.14	0.12	1.10	-0.99	3.35	0.55	2.79	4.46	5.11	-0.64	-14.41%
SPR 2026	0.86	3.17	-2.31	0.14	0.28	-0.14	0.11	1.10	-0.99	3.35	0.55	2.79	4.46	5.11	-0.65	-14.55%
SUM 2026	0.86	3.17	-2.32	0.14	0.28	-0.14	0.11	1.10	-0.99	3.35	0.55	2.79	4.45	5.11	-0.65	-14.69%
WIN 2026	0.85	3.17	-2.32	0.14	0.28	-0.14	0.11	1.10	-1.00	3.35	0.55	2.79	4.45	5.11	-0.66	-14.82%
SPR 2027	0.85	3.17	-2.32	0.14	0.28	-0.13	0.11	1.10	-1.00	3.34	0.55	2.79	4.44	5.11	-0.66	-14.94%
SUM 2027	0.85	3.17	-2.33	0.14	0.28	-0.13	0.11	1.10	-1.00	3.34	0.55	2.79	4.44	5.11	-0.67	-15.06%
WIN 2027	0.84	3.17	-2.33	0.14	0.28	-0.13	0.10	1.10	-1.00	3.34	0.55	2.79	4.43	5.11	-0.67	-15.17%
SPR 2028	0.84	3.17	-2.34	0.15	0.28	-0.13	0.10	1.10	-1.00	3.34	0.55	2.79	4.43	5.11	-0.68	-15.27%
SUM 2028	0.83	3.18	-2.34	0.15	0.28	-0.13	0.10	1.10	-1.00	3.34	0.55	2.79	4.43	5.11	-0.68	-15.37%
WIN 2028	0.83	3.18	-2.34	0.15	0.28	-0.13	0.10	1.10	-1.00	3.34	0.55	2.79	4.42	5.11	-0.68	-15.46%
SPR 2029	0.83	3.18	-2.35	0.15	0.28	-0.13	0.10	1.10	-1.01	3.34	0.55	2.79	4.42	5.11	-0.69	-15.55%
SUM 2029	0.82	3.18	-2.35	0.15	0.28	-0.12	0.10	1.10	-1.01	3.34	0.55	2.79	4.42	5.11	-0.69	-15.63%
WIN 2029	0.82	3.18	-2.35	0.15	0.28	-0.12	0.10	1.10	-1.01	3.34	0.55	2.79	4.41	5.11	-0.69	-15.71%
SPR 2030	0.82	3.18	-2.36	0.16	0.28	-0.12	0.10	1.10	-1.01	3.34	0.55	2.79	4.41	5.11	-0.70	-15.79%
SUM 2030	0.82	3.18	-2.36	0.16	0.28	-0.12	0.10	1.10	-1.01	3.34	0.55	2.79	4.41	5.11	-0.70	-15.86%
WIN 2030	0.81	3.18	-2.36	0.16	0.28	-0.12	0.10	1.10	-1.01	3.34	0.55	2.79	4.41	5.11	-0.70	-15.93%
SPR 2031	0.81	3.18	-2.36	0.16	0.28	-0.12	0.09	1.10	-1.01	3.34	0.55	2.79	4.40	5.11	-0.70	-15.99%
SUM 2031	0.81	3.18	-2.37	0.16	0.28	-0.12	0.09	1.10	-1.01	3.34	0.55	2.79	4.40	5.11	-0.71	-16.05%
WIN 2031	0.81	3.18	-2.37	0.16	0.28	-0.12	0.09	1.10	-1.01	3.34	0.55	2.79	4.40	5.11	-0.71	-16.11%
SPR 2032	0.80	3.18	-2.37	0.16	0.28	-0.11	0.09	1.10	-1.01	3.34	0.55	2.79	4.40	5.11	-0.71	-16.16%
SUM 2032	0.80	3.18	-2.37	0.16	0.28	-0.11	0.09	1.10	-1.01	3.34	0.55	2.79	4.40	5.11	-0.71	-16.21%
WIN 2032	0.80	3.18	-2.38	0.16	0.28	-0.11	0.09	1.10	-1.01	3.34	0.55	2.79	4.40	5.11	-0.71	-16.26%
SPR 2033	0.80	3.18	-2.38	0.16	0.28	-0.11	0.09	1.10	-1.01	3.34	0.55	2.79	4.39	5.11	-0.72	-16.31%
SUM 2033	0.80	3.18	-2.38	0.17	0.28	-0.11	0.09	1.10	-1.01	3.34	0.55	2.79	4.39	5.11	-0.72	-16.35%
WIN 2033	0.80	3.18	-2.38	0.17	0.28	-0.11	0.09	1.10	-1.01	3.34	0.55	2.79	4.39	5.11	-0.72	-16.39%
SPR 2034	0.79	3.18	-2.38	0.17	0.28	-0.11	0.09	1.10	-1.01	3.34	0.55	2.79	4.39	5.11	-0.72	-16.43%

(Idaho Water Company Off-Setting Transfers 35-7192A, 35-9069)

Impacts of transfers (Values are [acre-ft per trimester] determined from ESPA Transfer Spreadsheet.

	City of Chubbuck			Flying A			Wickel			Jefferson Lake			Combined Transfers 2-5			
	With	Without	Change	With	Without	Change	With	Without	Change	With	Without	Change	With	Without	Change	[% of historical]
	Transfer	Transfer		Transfer	Transfer		Transfer	Transfer		Transfer	Transfer		Transfer	Transfer		
SUM 2034	0.79	3.18	-2.38	0.17	0.28	-0.11	0.09	1.10	-1.01	3.34	0.55	2.78	4.39	5.11	-0.72	-16.47%
WIN 2034	0.79	3.18	-2.39	0.17	0.28	-0.11	0.09	1.10	-1.01	3.34	0.55	2.78	4.39	5.11	-0.72	-16.50%
SPR 2035	0.79	3.18	-2.39	0.17	0.28	-0.11	0.09	1.10	-1.01	3.34	0.55	2.78	4.39	5.11	-0.73	-16.53%
SUM 2035	0.79	3.18	-2.39	0.17	0.28	-0.11	0.09	1.11	-1.01	3.34	0.55	2.78	4.38	5.11	-0.73	-16.56%
WIN 2035	0.79	3.18	-2.39	0.17	0.28	-0.11	0.09	1.11	-1.01	3.34	0.55	2.78	4.38	5.11	-0.73	-16.59%
SPR 2036	0.78	3.18	-2.39	0.17	0.28	-0.11	0.09	1.11	-1.01	3.34	0.55	2.78	4.38	5.11	-0.73	-16.62%
SUM 2036	0.78	3.18	-2.39	0.17	0.28	-0.10	0.09	1.11	-1.01	3.34	0.55	2.78	4.38	5.11	-0.73	-16.64%
WIN 2036	0.78	3.18	-2.39	0.17	0.28	-0.10	0.09	1.11	-1.01	3.34	0.55	2.78	4.38	5.11	-0.73	-16.67%
SPR 2037	0.78	3.18	-2.40	0.17	0.28	-0.10	0.09	1.11	-1.01	3.34	0.55	2.78	4.38	5.11	-0.73	-16.69%
SUM 2037	0.78	3.18	-2.40	0.17	0.28	-0.10	0.09	1.11	-1.01	3.34	0.55	2.78	4.38	5.11	-0.73	-16.71%
WIN 2037	0.78	3.18	-2.40	0.17	0.28	-0.10	0.09	1.11	-1.01	3.34	0.55	2.78	4.38	5.11	-0.73	-16.73%
SPR 2038	0.78	3.18	-2.40	0.17	0.28	-0.10	0.09	1.11	-1.01	3.34	0.55	2.78	4.38	5.11	-0.73	-16.75%
SUM 2038	0.78	3.18	-2.40	0.17	0.28	-0.10	0.09	1.11	-1.01	3.34	0.55	2.78	4.38	5.11	-0.73	-16.76%
WIN 2038	0.78	3.18	-2.40	0.17	0.28	-0.10	0.09	1.11	-1.01	3.33	0.55	2.78	4.38	5.11	-0.73	-16.78%
SPR 2039	0.78	3.18	-2.40	0.17	0.28	-0.10	0.09	1.11	-1.01	3.33	0.55	2.78	4.38	5.11	-0.73	-16.79%
SUM 2039	0.77	3.18	-2.40	0.18	0.28	-0.10	0.09	1.11	-1.01	3.33	0.55	2.78	4.38	5.11	-0.74	-16.81%
WIN 2039	0.77	3.18	-2.40	0.18	0.28	-0.10	0.09	1.11	-1.01	3.33	0.55	2.78	4.38	5.11	-0.74	-16.82%
SPR 2040	0.77	3.18	-2.40	0.18	0.28	-0.10	0.09	1.11	-1.01	3.33	0.55	2.78	4.38	5.11	-0.74	-16.83%
SUM 2040	0.77	3.18	-2.41	0.18	0.28	-0.10	0.09	1.11	-1.01	3.33	0.55	2.78	4.38	5.11	-0.74	-16.84%
WIN 2040	0.77	3.18	-2.41	0.18	0.28	-0.10	0.09	1.11	-1.01	3.33	0.55	2.78	4.37	5.11	-0.74	-16.85%
SPR 2041	0.77	3.18	-2.41	0.18	0.28	-0.10	0.09	1.11	-1.01	3.33	0.55	2.78	4.37	5.11	-0.74	-16.86%
SUM 2041	0.77	3.18	-2.41	0.18	0.28	-0.10	0.09	1.11	-1.01	3.33	0.55	2.78	4.37	5.11	-0.74	-16.87%
WIN 2041	0.77	3.18	-2.41	0.18	0.28	-0.10	0.09	1.11	-1.01	3.33	0.55	2.78	4.37	5.11	-0.74	-16.88%
SPR 2042	0.77	3.18	-2.41	0.18	0.28	-0.10	0.09	1.11	-1.01	3.33	0.55	2.78	4.37	5.11	-0.74	-1

APPENDIX E.1

(Idaho Water Company Off-Setting Transfers 35-7192A, 35-9069)

Impacts of transfers (Values are [acre-ft per trimester] determined from ESPA Transfer Spreadsheet.

	City of Chubbuck			Flying A			Wickel			Jefferson Lake			Combined Transfers 2-5			
	With Transfer	Without Transfer	Change	With Transfer	Without Transfer	Change	With Transfer	Without Transfer	Change	With Transfer	Without Transfer	Change	With Transfer	Without Transfer	Change [af]	Change [% of historical]
SUM 2059	0.76	3.18	-2.42	0.18	0.28	-0.09	0.11	1.11	-1.00	3.33	0.55	2.78	4.38	5.12	-0.74	-16.79%
WIN 2059	0.76	3.18	-2.42	0.18	0.28	-0.09	0.11	1.11	-1.00	3.33	0.55	2.78	4.38	5.12	-0.74	-16.78%
SPR 2060	0.76	3.18	-2.42	0.18	0.28	-0.09	0.11	1.11	-1.00	3.33	0.55	2.78	4.38	5.12	-0.73	-16.78%
SUM 2060	0.76	3.18	-2.42	0.18	0.28	-0.09	0.11	1.11	-1.00	3.33	0.55	2.78	4.38	5.12	-0.73	-16.77%
WIN 2060	0.76	3.18	-2.42	0.18	0.28	-0.09	0.11	1.11	-1.00	3.33	0.55	2.78	4.38	5.12	-0.73	-16.77%
SPR 2061	0.76	3.18	-2.42	0.18	0.28	-0.09	0.11	1.11	-1.00	3.33	0.55	2.78	4.38	5.12	-0.73	-16.76%
SUM 2061	0.76	3.18	-2.42	0.18	0.28	-0.09	0.11	1.11	-1.00	3.33	0.55	2.78	4.38	5.12	-0.73	-16.76%
WIN 2061	0.76	3.18	-2.42	0.18	0.28	-0.09	0.11	1.11	-1.00	3.33	0.55	2.78	4.38	5.12	-0.73	-16.75%
SPR 2062	0.76	3.18	-2.42	0.18	0.28	-0.09	0.11	1.11	-0.99	3.33	0.55	2.78	4.38	5.12	-0.73	-16.75%
SUM 2062	0.76	3.18	-2.42	0.18	0.28	-0.09	0.11	1.11	-0.99	3.33	0.55	2.78	4.38	5.12	-0.73	-16.74%
WIN 2062	0.76	3.18	-2.42	0.18	0.28	-0.09	0.11	1.11	-0.99	3.33	0.55	2.78	4.38	5.12	-0.73	-16.74%
SPR 2063	0.76	3.18	-2.42	0.18	0.28	-0.09	0.11	1.11	-0.99	3.33	0.55	2.78	4.38	5.12	-0.73	-16.73%
SUM 2063	0.76	3.18	-2.42	0.18	0.28	-0.09	0.11	1.11	-0.99	3.33	0.55	2.78	4.38	5.12	-0.73	-16.73%
WIN 2063	0.76	3.18	-2.42	0.18	0.28	-0.09	0.11	1.11	-0.99	3.33	0.55	2.78	4.38	5.12	-0.73	-16.73%
SPR 2064	0.76	3.18	-2.42	0.18	0.28	-0.09	0.11	1.11	-0.99	3.33	0.55	2.78	4.38	5.12	-0.73	-16.72%
SUM 2064	0.76	3.18	-2.42	0.18	0.28	-0.09	0.11	1.11	-0.99	3.33	0.55	2.78	4.38	5.12	-0.73	-16.72%
WIN 2064	0.76	3.18	-2.42	0.18	0.28	-0.09	0.11	1.11	-0.99	3.33	0.55	2.78	4.38	5.12	-0.73	-16.71%
SPR 2065	0.76	3.18	-2.42	0.18	0.28	-0.09	0.11	1.11	-0.99	3.33	0.55	2.78	4.38	5.12	-0.73	-16.71%
SUM 2065	0.76	3.18	-2.42	0.18	0.28	-0.09	0.11	1.11	-0.99	3.33	0.55	2.78	4.38	5.12	-0.73	-16.70%
WIN 2065	0.76	3.18	-2.42	0.18	0.28	-0.09	0.11	1.11	-0.99	3.33	0.55	2.78	4.38	5.12	-0.73	-16.70%
SPR 2066	0.76	3.18	-2.42	0.18	0.28	-0.09	0.11	1.11	-0.99	3.33	0.55	2.78	4.38	5.12	-0.73	-16.69%
SUM 2066	0.76	3.18	-2.42	0.18	0.28	-0.09	0.11	1.11	-0.99	3.33	0.55	2.78	4.38	5.12	-0.73	-16.69%
WIN 2066	0.76	3.18	-2.42	0.18	0.28	-0.09	0.11	1.11	-0.99	3.33	0.55	2.78	4.38	5.12	-0.73	-16.68%
SPR 2067	0.76	3.18	-2.42	0.18	0.28	-0.09	0.11	1.11	-0.99	3.33	0.55	2.78	4.38	5.12	-0.73	-16.68%
SUM 2067	0.76	3.18	-2.42	0.18	0.28	-0.09	0.11	1.11	-0.99	3.33	0.55	2.78	4.38	5.12	-0.73	-16.67%
WIN 2067	0.76	3.18	-2.42	0.18	0.28	-0.09	0.11	1.11	-0.99	3.33	0.55	2.78	4.38	5.12	-0.73	-16.67%
SPR 2068	0.76	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.66%
SUM 2068	0.76	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.66%
WIN 2068	0.76	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.65%
SPR 2069	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.65%
SUM 2069	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.65%
WIN 2069	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.64%
SPR 2070	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.64%
SUM 2070	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.63%
WIN 2070	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.63%
SPR 2071	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.62%
SUM 2071	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.62%
WIN 2071	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.62%
SPR 2072	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.61%
SUM 2072	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.61%
WIN 2072	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.60%
SPR 2073	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.60%
SUM 2073	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.59%
WIN 2073	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.59%
SPR 2074	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.59%
SUM 2074	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.58%
WIN 2074	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.58%
SPR 2075	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.57%
SUM 2075	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.57%
WIN 2075	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.57%
SPR 2076	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.56%
SUM 2076	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.56%
WIN 2076	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.56%
SPR 2077	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.55%
SUM 2077	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.55%
WIN 2077	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.54%
SPR 2078	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.54%
SUM 2078	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.54%
WIN 2078	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.53%
SPR 2079	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.53%
SUM 2079	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.99	3.33	0.55	2.78	4.39	5.12	-0.73	-16.53%
WIN 2079	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.98	3.33	0.55	2.78	4.39	5.12	-0.73	-16.52%
SPR 2080	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.98	3.33	0.55	2.78	4.39	5.12	-0.73	-16.52%
SUM 2080	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.98	3.33	0.55	2.78	4.39	5.12	-0.73	-16.52%
WIN 2080	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.98	3.33	0.55	2.78	4.39	5.12	-0.73	-16.51%
SPR 2081	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.98	3.33	0.55	2.78	4.39	5.12	-0.73	-16.51%
SUM 2081	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.98	3.33	0.55	2.78	4.39	5.12	-0.72	-16.51%
WIN 2081	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.98	3.33	0.55	2.78	4.39	5.12	-0.72	-16.50%
SPR 2082	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.98	3.33	0.55	2.78	4.39	5.12	-0.72	-16.50%
SUM 2082	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.98	3.33	0.55	2.78	4.39	5.12	-0.72	-16.50%
WIN 2082	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.98	3.33	0.55	2.78	4.39	5.12	-0.72	-16.49%
SPR 2083	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.98	3.33	0.55	2.78	4.39	5.12	-0.72	-16.49%
SUM 2083	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.98	3.33	0.55	2.78	4.39	5.12	-0.72	-16.49%
WIN 2083	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.98	3.33	0.55	2.78	4.39	5.12	-0.72	-16.48%
SPR 2084	0.75	3.18	-2.43	0.18	0.28	-0.09	0.12	1.11	-0.98	3.33	0.55	2.78	4.39	5.12	-0.72	-16.48%

Impacts of transfers (Values are [acre-ft per trimester] determined from ESPA Transfer Spreadsheet.

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HEISE - SHELLEY TRANSIENT IMPACTS
(Idaho Water Company Off-Setting Transfers 35-7192A, 35-9069)

Impacts of transfers (Values are [acre-ft per trimester] determined from ESPA Transfer Spreadsheet.

	City of Chubbuck			Flying A			Wickel			Jefferson Lake			Combined Transfers 2-5			
	With Transfer	Without Transfer	Change	With Transfer	Without Transfer	Change	With Transfer	Without Transfer	Change	With Transfer	Without Transfer	Change	With Transfer	Without Transfer	Change [af]	Change [% of historical]
SUM 2109	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.98	3.33	0.55	2.78	4.40	5.12	-0.72	-16.30%
WIN 2109	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.98	3.33	0.55	2.78	4.40	5.12	-0.72	-16.30%
SPR 2110	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.98	3.33	0.55	2.78	4.40	5.12	-0.72	-16.30%
SUM 2110	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.98	3.33	0.55	2.78	4.40	5.12	-0.72	-16.30%
WIN 2110	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.98	3.33	0.55	2.78	4.40	5.12	-0.72	-16.30%
SPR 2111	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.98	3.33	0.55	2.78	4.40	5.12	-0.72	-16.30%
SUM 2111	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.98	3.33	0.55	2.78	4.40	5.12	-0.72	-16.30%
WIN 2111	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.98	3.33	0.55	2.78	4.40	5.12	-0.72	-16.29%
SPR 2112	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.98	3.33	0.55	2.78	4.40	5.12	-0.72	-16.29%
SUM 2112	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.98	3.33	0.55	2.78	4.40	5.12	-0.72	-16.29%
WIN 2112	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.98	3.33	0.55	2.78	4.40	5.12	-0.72	-16.29%
SPR 2113	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.98	3.33	0.55	2.78	4.40	5.12	-0.72	-16.29%
SUM 2113	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.98	3.33	0.55	2.78	4.40	5.12	-0.72	-16.29%
WIN 2113	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.98	3.33	0.55	2.78	4.40	5.12	-0.72	-16.28%
SPR 2114	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.98	3.33	0.55	2.78	4.40	5.12	-0.72	-16.28%
SUM 2114	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.98	3.33	0.55	2.78	4.40	5.12	-0.72	-16.28%
WIN 2114	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.98	3.33	0.55	2.78	4.40	5.12	-0.72	-16.28%
SPR 2115	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.98	3.33	0.55	2.78	4.40	5.12	-0.72	-16.28%
SUM 2115	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.98	3.33	0.55	2.78	4.40	5.12	-0.72	-16.28%
WIN 2115	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.98	3.33	0.55	2.78	4.40	5.12	-0.72	-16.28%
SPR 2116	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.98	3.33	0.55	2.78	4.40	5.12	-0.72	-16.27%
SUM 2116	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.97	3.33	0.55	2.78	4.40	5.12	-0.72	-16.27%
WIN 2116	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.97	3.33	0.55	2.78	4.40	5.12	-0.72	-16.27%
SPR 2117	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.97	3.33	0.55	2.78	4.40	5.12	-0.72	-16.27%
SUM 2117	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.97	3.33	0.55	2.78	4.40	5.12	-0.72	-16.27%
WIN 2117	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.97	3.33	0.55	2.78	4.40	5.12	-0.72	-16.27%
SPR 2118	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.97	3.33	0.55	2.78	4.40	5.12	-0.72	-16.27%
SUM 2118	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.97	3.33	0.55	2.78	4.40	5.12	-0.72	-16.27%
WIN 2118	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.97	3.33	0.55	2.78	4.40	5.12	-0.72	-16.26%
SPR 2119	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.97	3.33	0.55	2.78	4.40	5.12	-0.72	-16.26%
SUM 2119	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.97	3.33	0.55	2.78	4.40	5.12	-0.72	-16.26%
WIN 2119	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.97	3.33	0.55	2.78	4.40	5.12	-0.72	-16.26%
SPR 2120	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.97	3.33	0.55	2.78	4.40	5.12	-0.72	-16.26%
SUM 2120	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.97	3.33	0.55	2.78	4.40	5.12	-0.72	-16.26%
WIN 2120	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.97	3.33	0.55	2.78	4.40	5.12	-0.72	-16.26%
SPR 2121	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.97	3.33	0.55	2.78	4.40	5.12	-0.72	-16.26%
SUM 2121	0.75	3.18	-2.43	0.18	0.28	-0.09	0.13	1.11	-0.97	3.33	0.55	2.78	4.40	5.12	-0.72	-16.25%

SHELLEY-NEAR BLACKFOOT TRANSIENT IMPACTS
(Idaho Water Company Off-setting Transfers 35-7192A, 35-9069)

	CHANGE IN IMPACTS DUE TO TRANSFER [ACRE FT/TRIMESTER]					
	To City of Ammon	To City of Chubbuck	To Flying A	To Wickel Land, LP	To Jefferson Lake	Mitigation Deficit
SPR 2014	-0.63	-1.72	-0.22	-0.90	-0.44	-3.24
SUM 2014	0.59	-1.63	-0.29	-1.18	-0.57	-2.21
WIN 2014	1.22	-1.63	-0.36	-1.44	-0.69	-1.86
SPR 2015	1.54	-1.67	-0.42	-1.67	-0.79	-1.80
SUM 2015	1.72	-1.72	-0.47	-1.87	-0.87	-1.87
WIN 2015	1.82	-1.77	-0.51	-2.04	-0.94	-1.99
SPR 2016	1.87	-1.82	-0.55	-2.18	-1.00	-2.12
SUM 2016	1.91	-1.86	-0.58	-2.29	-1.05	-2.25
WIN 2016	1.93	-1.91	-0.60	-2.39	-1.09	-2.37
SPR 2017	1.95	-1.95	-0.62	-2.48	-1.13	-2.48
SUM 2017	1.96	-1.99	-0.64	-2.55	-1.16	-2.58
WIN 2017	1.97	-2.03	-0.66	-2.61	-1.19	-2.67
SPR 2018	1.98	-2.06	-0.68	-2.66	-1.21	-2.75
SUM 2018	1.99	-2.10	-0.69	-2.70	-1.23	-2.82
WIN 2018	1.99	-2.13	-0.70	-2.74	-1.25	-2.88
SPR 2019	2.00	-2.16	-0.71	-2.77	-1.27	-2.93
SUM 2019	2.00	-2.19	-0.72	-2.79	-1.28	-2.98
WIN 2019	2.01	-2.22	-0.73	-2.81	-1.29	-3.02
SPR 2020	2.01	-2.24	-0.73	-2.83	-1.31	-3.06
SUM 2020	2.02	-2.26	-0.74	-2.84	-1.32	-3.09
WIN 2020	2.02	-2.28	-0.74	-2.86	-1.33	-3.12
SPR 2021	2.02	-2.30	-0.75	-2.86	-1.33	-3.14
SUM 2021	2.03	-2.32	-0.75	-2.87	-1.34	-3.16
WIN 2021	2.03	-2.34	-0.76	-2.88	-1.35	-3.18
SPR 2022	2.04	-2.35	-0.76	-2.88	-1.35	-3.20
SUM 2022	2.04	-2.37	-0.76	-2.88	-1.36	-3.21
WIN 2022	2.04	-2.38	-0.77	-2.88	-1.37	-3.22
SPR 2023	2.05	-2.39	-0.77	-2.88	-1.37	-3.23
SUM 2023	2.05	-2.40	-0.77	-2.88	-1.37	-3.23
WIN 2023	2.05	-2.41	-0.77	-2.88	-1.38	-3.24
SPR 2024	2.06	-2.42	-0.78	-2.88	-1.38	-3.24
SUM 2024	2.06	-2.43	-0.78	-2.88	-1.39	-3.25
WIN 2024	2.06	-2.44	-0.78	-2.87	-1.39	-3.25
SPR 2025	2.07	-2.45	-0.78	-2.87	-1.39	-3.25
SUM 2025	2.07	-2.46	-0.78	-2.86	-1.40	-3.25
WIN 2025	2.07	-2.46	-0.78	-2.86	-1.40	-3.25
SPR 2026	2.07	-2.47	-0.78	-2.86	-1.40	-3.25
SUM 2026	2.07	-2.47	-0.78	-2.85	-1.40	-3.25
WIN 2026	2.08	-2.48	-0.79	-2.85	-1.41	-3.25
SPR 2027	2.08	-2.49	-0.79	-2.84	-1.41	-3.25
SUM 2027	2.08	-2.49	-0.79	-2.84	-1.41	-3.25
WIN 2027	2.08	-2.50	-0.79	-2.83	-1.41	-3.24
SPR 2028	2.08	-2.50	-0.79	-2.83	-1.41	-3.24
SUM 2028	2.09	-2.51	-0.79	-2.82	-1.41	-3.24
WIN 2028	2.09	-2.51	-0.79	-2.81	-1.42	-3.24
SPR 2029	2.09	-2.51	-0.79	-2.81	-1.42	-3.23
SUM 2029	2.09	-2.52	-0.79	-2.80	-1.42	-3.23
WIN 2029	2.09	-2.52	-0.79	-2.80	-1.42	-3.23
SPR 2030	2.09	-2.52	-0.79	-2.79	-1.42	-3.22
SUM 2030	2.09	-2.53	-0.79	-2.79	-1.42	-3.22
WIN 2030	2.10	-2.53	-0.79	-2.78	-1.42	-3.22
SPR 2031	2.10	-2.53	-0.79	-2.78	-1.43	-3.21
SUM 2031	2.10	-2.54	-0.79	-2.77	-1.43	-3.21
WIN 2031	2.10	-2.54	-0.79	-2.76	-1.43	-3.20
SPR 2032	2.10	-2.54	-0.79	-2.76	-1.43	-3.20
SUM 2032	2.10	-2.54	-0.79	-2.75	-1.43	-3.20
WIN 2032	2.10	-2.55	-0.79	-2.75	-1.43	-3.19
SPR 2033	2.10	-2.55	-0.79	-2.74	-1.43	-3.19
SUM 2033	2.10	-2.55	-0.79	-2.74	-1.43	-3.18
WIN 2033	2.10	-2.55	-0.79	-2.73	-1.43	-3.18
SPR 2034	2.11	-2.55	-0.79	-2.73	-1.43	-3.18
SUM 2034	2.11	-2.55	-0.79	-2.72	-1.43	-3.17
WIN 2034	2.11	-2.56	-0.79	-2.72	-1.43	-3.17
SPR 2035	2.11	-2.56	-0.79	-2.71	-1.43	-3.16
SUM 2035	2.11	-2.56	-0.79	-2.71	-1.44	-3.16

APPENDIX E.2

SHELLEY-NEAR BLACKFOOT TRANSIENT IMPACTS
(Idaho Water Company Off-setting Transfers 35-7192A, 35-9069)

	CHANGE IN IMPACTS DUE TO TRANSFER [ACRE, FT/TRIMESTER]					
	To City of Ammon	To City of Chubbuck	To Flying A	To Wickel Land, LP	To Jefferson Lake	Mitigation Deficit
WIN 2035	2.11	-2.56	-0.79	-2.70	-1.44	-3.16
SPR 2036	2.11	-2.56	-0.79	-2.70	-1.44	-3.15
SUM 2036	2.11	-2.56	-0.79	-2.69	-1.44	-3.15
WIN 2036	2.11	-2.57	-0.79	-2.69	-1.44	-3.14
SPR 2037	2.11	-2.57	-0.79	-2.69	-1.44	-3.14
SUM 2037	2.11	-2.57	-0.79	-2.68	-1.44	-3.14
WIN 2037	2.11	-2.57	-0.79	-2.68	-1.44	-3.13
SPR 2038	2.11	-2.57	-0.79	-2.67	-1.44	-3.13
SUM 2038	2.11	-2.57	-0.79	-2.67	-1.44	-3.13
WIN 2038	2.11	-2.57	-0.79	-2.66	-1.44	-3.12
SPR 2039	2.11	-2.57	-0.79	-2.66	-1.44	-3.12
SUM 2039	2.11	-2.57	-0.79	-2.66	-1.44	-3.11
WIN 2039	2.11	-2.57	-0.79	-2.65	-1.44	-3.11
SPR 2040	2.12	-2.58	-0.79	-2.65	-1.44	-3.11
SUM 2040	2.12	-2.58	-0.79	-2.64	-1.44	-3.10
WIN 2040	2.12	-2.58	-0.79	-2.64	-1.44	-3.10
SPR 2041	2.12	-2.58	-0.79	-2.64	-1.44	-3.10
SUM 2041	2.12	-2.58	-0.79	-2.63	-1.44	-3.09
WIN 2041	2.12	-2.58	-0.79	-2.63	-1.44	-3.09
SPR 2042	2.12	-2.58	-0.79	-2.62	-1.44	-3.09
SUM 2042	2.12	-2.58	-0.79	-2.62	-1.44	-3.08
WIN 2042	2.12	-2.58	-0.79	-2.62	-1.44	-3.08
SPR 2043	2.12	-2.58	-0.79	-2.61	-1.44	-3.08
SUM 2043	2.12	-2.58	-0.79	-2.61	-1.44	-3.07
WIN 2043	2.12	-2.58	-0.79	-2.61	-1.44	-3.07
SPR 2044	2.12	-2.58	-0.79	-2.60	-1.44	-3.07
SUM 2044	2.12	-2.58	-0.79	-2.60	-1.44	-3.07
WIN 2044	2.12	-2.58	-0.79	-2.60	-1.44	-3.06
SPR 2045	2.12	-2.58	-0.79	-2.59	-1.45	-3.06
SUM 2045	2.12	-2.58	-0.79	-2.59	-1.45	-3.06
WIN 2045	2.12	-2.59	-0.79	-2.59	-1.45	-3.05
SPR 2046	2.12	-2.59	-0.79	-2.58	-1.45	-3.05
SUM 2046	2.12	-2.59	-0.79	-2.58	-1.45	-3.05
WIN 2046	2.12	-2.59	-0.79	-2.58	-1.45	-3.04
SPR 2047	2.12	-2.59	-0.79	-2.58	-1.45	-3.04
SUM 2047	2.12	-2.59	-0.79	-2.57	-1.45	-3.04
WIN 2047	2.12	-2.59	-0.79	-2.57	-1.45	-3.04
SPR 2048	2.12	-2.59	-0.79	-2.57	-1.45	-3.03
SUM 2048	2.12	-2.59	-0.79	-2.56	-1.45	-3.03
WIN 2048	2.12	-2.59	-0.79	-2.56	-1.45	-3.03
SPR 2049	2.12	-2.59	-0.79	-2.56	-1.45	-3.03
SUM 2049	2.12	-2.59	-0.79	-2.56	-1.45	-3.02
WIN 2049	2.12	-2.59	-0.79	-2.55	-1.45	-3.02
SPR 2050	2.12	-2.59	-0.79	-2.55	-1.45	-3.02
SUM 2050	2.12	-2.59	-0.79	-2.55	-1.45	-3.02
WIN 2050	2.12	-2.59	-0.79	-2.55	-1.45	-3.01
SPR 2051	2.12	-2.59	-0.79	-2.54	-1.45	-3.01
SUM 2051	2.12	-2.59	-0.79	-2.54	-1.45	-3.01
WIN 2051	2.12	-2.59	-0.79	-2.54	-1.45	-3.01
SPR 2052	2.12	-2.59	-0.79	-2.54	-1.45	-3.00
SUM 2052	2.12	-2.59	-0.79	-2.53	-1.45	-3.00
WIN 2052	2.12	-2.59	-0.79	-2.53	-1.45	-3.00
SPR 2053	2.12	-2.59	-0.79	-2.53	-1.45	-3.00
SUM 2053	2.12	-2.59	-0.79	-2.53	-1.45	-3.00
WIN 2053	2.12	-2.59	-0.79	-2.52	-1.45	-2.99
SPR 2054	2.12	-2.59	-0.79	-2.52	-1.45	-2.99
SUM 2054	2.12	-2.59	-0.79	-2.52	-1.45	-2.99
WIN 2054	2.12	-2.59	-0.79	-2.52	-1.45	-2.99
SPR 2055	2.12	-2.59	-0.79	-2.52	-1.45	-2.98
SUM 2055	2.12	-2.59	-0.79	-2.51	-1.45	-2.98
WIN 2055	2.12	-2.59	-0.79	-2.51	-1.45	-2.98
SPR 2056	2.12	-2.59	-0.79	-2.51	-1.45	-2.98
SUM 2056	2.12	-2.59	-0.79	-2.51	-1.45	-2.98
WIN 2056	2.12	-2.59	-0.79	-2.51	-1.45	-2.97
SPR 2057	2.12	-2.59	-0.79	-2.50	-1.45	-2.97

APPENDIX E.2

SHELLEY-NEAR BLACKFOOT TRANSIENT IMPACTS
(Idaho Water Company Off-setting Transfers 35-7192A, 35-9069)

	CHANGE IN IMPACTS DUE TO TRANSFER [ACRE FT/TRIMESTER]					
	To City of Ammon	To City of Chubbuck	To Flying A	To Wickel Land, LP	To Jefferson Lake	Mitigation Deficit
SUM 2057	2.12	-2.59	-0.79	-2.50	-1.45	-2.97
WIN 2057	2.12	-2.59	-0.79	-2.50	-1.45	-2.97
SPR 2058	2.12	-2.59	-0.79	-2.50	-1.45	-2.97
SUM 2058	2.12	-2.59	-0.79	-2.50	-1.45	-2.96
WIN 2058	2.12	-2.59	-0.79	-2.49	-1.45	-2.96
SPR 2059	2.12	-2.59	-0.79	-2.49	-1.45	-2.96
SUM 2059	2.12	-2.59	-0.79	-2.49	-1.45	-2.96
WIN 2059	2.12	-2.59	-0.79	-2.49	-1.45	-2.96
SPR 2060	2.12	-2.59	-0.79	-2.49	-1.45	-2.96
SUM 2060	2.12	-2.59	-0.79	-2.48	-1.45	-2.95
WIN 2060	2.12	-2.59	-0.79	-2.48	-1.45	-2.95
SPR 2061	2.12	-2.59	-0.79	-2.48	-1.45	-2.95
SUM 2061	2.12	-2.59	-0.79	-2.48	-1.45	-2.95
WIN 2061	2.12	-2.59	-0.79	-2.48	-1.45	-2.95
SPR 2062	2.12	-2.59	-0.79	-2.48	-1.45	-2.95
SUM 2062	2.12	-2.59	-0.79	-2.47	-1.45	-2.94
WIN 2062	2.12	-2.59	-0.79	-2.47	-1.45	-2.94
SPR 2063	2.12	-2.59	-0.79	-2.47	-1.45	-2.94
SUM 2063	2.12	-2.59	-0.79	-2.47	-1.45	-2.94
WIN 2063	2.12	-2.59	-0.79	-2.47	-1.45	-2.94
SPR 2064	2.12	-2.59	-0.79	-2.47	-1.45	-2.94
SUM 2064	2.12	-2.59	-0.79	-2.46	-1.45	-2.93
WIN 2064	2.12	-2.59	-0.79	-2.46	-1.45	-2.93
SPR 2065	2.12	-2.59	-0.79	-2.46	-1.45	-2.93
SUM 2065	2.12	-2.59	-0.79	-2.46	-1.45	-2.93
WIN 2065	2.12	-2.59	-0.79	-2.46	-1.45	-2.93
SPR 2066	2.12	-2.59	-0.79	-2.46	-1.45	-2.93
SUM 2066	2.12	-2.59	-0.79	-2.46	-1.45	-2.93
WIN 2066	2.12	-2.59	-0.79	-2.45	-1.45	-2.92
SPR 2067	2.12	-2.59	-0.79	-2.45	-1.45	-2.92
SUM 2067	2.12	-2.59	-0.79	-2.45	-1.45	-2.92
WIN 2067	2.12	-2.59	-0.79	-2.45	-1.45	-2.92
SPR 2068	2.12	-2.59	-0.79	-2.45	-1.45	-2.92
SUM 2068	2.12	-2.59	-0.79	-2.45	-1.45	-2.92
WIN 2068	2.12	-2.59	-0.79	-2.45	-1.45	-2.92
SPR 2069	2.12	-2.59	-0.79	-2.44	-1.45	-2.91
SUM 2069	2.12	-2.59	-0.79	-2.44	-1.45	-2.91
WIN 2069	2.12	-2.59	-0.79	-2.44	-1.45	-2.91
SPR 2070	2.12	-2.59	-0.79	-2.44	-1.45	-2.91
SUM 2070	2.12	-2.59	-0.79	-2.44	-1.45	-2.91
WIN 2070	2.12	-2.60	-0.79	-2.44	-1.45	-2.91
SPR 2071	2.12	-2.60	-0.79	-2.44	-1.45	-2.91
SUM 2071	2.12	-2.60	-0.79	-2.44	-1.45	-2.91
WIN 2071	2.12	-2.60	-0.79	-2.43	-1.45	-2.90
SPR 2072	2.12	-2.60	-0.79	-2.43	-1.45	-2.90
SUM 2072	2.12	-2.60	-0.79	-2.43	-1.45	-2.90
WIN 2072	2.12	-2.60	-0.79	-2.43	-1.45	-2.90
SPR 2073	2.12	-2.60	-0.79	-2.43	-1.45	-2.90
SUM 2073	2.12	-2.60	-0.79	-2.43	-1.45	-2.90
WIN 2073	2.12	-2.60	-0.79	-2.43	-1.45	-2.90
SPR 2074	2.12	-2.60	-0.79	-2.43	-1.45	-2.90
SUM 2074	2.12	-2.60	-0.79	-2.42	-1.45	-2.90
WIN 2074	2.12	-2.60	-0.79	-2.42	-1.45	-2.89
SPR 2075	2.12	-2.60	-0.79	-2.42	-1.45	-2.89
SUM 2075	2.12	-2.60	-0.79	-2.42	-1.45	-2.89
WIN 2075	2.12	-2.60	-0.79	-2.42	-1.45	-2.89
SPR 2076	2.12	-2.60	-0.79	-2.42	-1.45	-2.89
SUM 2076	2.12	-2.60	-0.79	-2.42	-1.45	-2.89
WIN 2076	2.12	-2.60	-0.79	-2.42	-1.45	-2.89
SPR 2077	2.12	-2.60	-0.79	-2.42	-1.45	-2.89
SUM 2077	2.12	-2.60	-0.79	-2.41	-1.45	-2.89
WIN 2077	2.12	-2.60	-0.79	-2.41	-1.45	-2.88
SPR 2078	2.12	-2.60	-0.79	-2.41	-1.45	-2.88
SUM 2078	2.12	-2.60	-0.79	-2.41	-1.45	-2.88
WIN 2078	2.12	-2.60	-0.79	-2.41	-1.45	-2.88

APPENDIX E.2

Shelley to Near Blackfoot Combined Impacts 35-7192A, 35-9069

SHELLEY-NEAR BLACKFOOT TRANSIENT IMPACTS
(Idaho Water Company Off-setting Transfers 35-7192A, 35-9069)

	CHANGE IN IMPACTS DUE TO TRANSFER [ACRE-FT/TRIMESTER]					
	To City of Ammon	To City of Chubbuck	To Flying A	To Wickel Land, LP	To Jefferson Lake	Mitigation Deficit
SPR 2079	2.12	-2.60	-0.79	-2.41	-1.45	-2.88
SUM 2079	2.12	-2.60	-0.79	-2.41	-1.45	-2.88
WIN 2079	2.12	-2.60	-0.79	-2.41	-1.45	-2.88
SPR 2080	2.12	-2.60	-0.79	-2.41	-1.45	-2.88
SUM 2080	2.12	-2.60	-0.79	-2.41	-1.45	-2.88
WIN 2080	2.12	-2.60	-0.79	-2.40	-1.45	-2.88
SPR 2081	2.12	-2.60	-0.79	-2.40	-1.45	-2.87
SUM 2081	2.12	-2.60	-0.79	-2.40	-1.45	-2.87
WIN 2081	2.12	-2.60	-0.79	-2.40	-1.45	-2.87
SPR 2082	2.12	-2.60	-0.79	-2.40	-1.45	-2.87
SUM 2082	2.12	-2.60	-0.79	-2.40	-1.45	-2.87
WIN 2082	2.12	-2.60	-0.79	-2.40	-1.45	-2.87
SPR 2083	2.12	-2.60	-0.79	-2.40	-1.45	-2.87
SUM 2083	2.12	-2.60	-0.79	-2.40	-1.45	-2.87
WIN 2083	2.12	-2.60	-0.79	-2.40	-1.45	-2.87
SPR 2084	2.12	-2.60	-0.79	-2.40	-1.45	-2.87
SUM 2084	2.12	-2.60	-0.79	-2.39	-1.45	-2.87
WIN 2084	2.12	-2.60	-0.79	-2.39	-1.45	-2.87
SPR 2085	2.12	-2.60	-0.79	-2.39	-1.45	-2.86
SUM 2085	2.12	-2.60	-0.79	-2.39	-1.45	-2.86
WIN 2085	2.12	-2.60	-0.79	-2.39	-1.45	-2.86
SPR 2086	2.12	-2.60	-0.79	-2.39	-1.45	-2.86
SUM 2086	2.12	-2.60	-0.79	-2.39	-1.45	-2.86
WIN 2086	2.12	-2.60	-0.79	-2.39	-1.45	-2.86
SPR 2087	2.12	-2.60	-0.79	-2.39	-1.45	-2.86
SUM 2087	2.12	-2.60	-0.79	-2.39	-1.45	-2.86
WIN 2087	2.12	-2.60	-0.79	-2.39	-1.45	-2.86
SPR 2088	2.12	-2.60	-0.79	-2.39	-1.45	-2.86
SUM 2088	2.12	-2.60	-0.79	-2.39	-1.45	-2.86
WIN 2088	2.12	-2.60	-0.79	-2.38	-1.45	-2.86
SPR 2089	2.12	-2.60	-0.79	-2.38	-1.45	-2.86
SUM 2089	2.12	-2.60	-0.79	-2.38	-1.45	-2.85
WIN 2089	2.12	-2.60	-0.79	-2.38	-1.45	-2.85
SPR 2090	2.12	-2.60	-0.79	-2.38	-1.45	-2.85
SUM 2090	2.12	-2.60	-0.79	-2.38	-1.45	-2.85
WIN 2090	2.12	-2.60	-0.79	-2.38	-1.45	-2.85
SPR 2091	2.12	-2.60	-0.79	-2.38	-1.45	-2.85
SUM 2091	2.12	-2.60	-0.79	-2.38	-1.45	-2.85
WIN 2091	2.12	-2.60	-0.79	-2.38	-1.45	-2.85
SPR 2092	2.12	-2.60	-0.79	-2.38	-1.45	-2.85
SUM 2092	2.12	-2.60	-0.79	-2.38	-1.45	-2.85
WIN 2092	2.12	-2.60	-0.79	-2.38	-1.45	-2.85
SPR 2093	2.12	-2.60	-0.79	-2.38	-1.45	-2.85
SUM 2093	2.12	-2.60	-0.79	-2.37	-1.45	-2.85
WIN 2093	2.12	-2.60	-0.79	-2.37	-1.45	-2.85
SPR 2094	2.12	-2.60	-0.79	-2.37	-1.45	-2.84
SUM 2094	2.12	-2.60	-0.79	-2.37	-1.45	-2.84
WIN 2094	2.12	-2.60	-0.79	-2.37	-1.45	-2.84
SPR 2095	2.12	-2.60	-0.79	-2.37	-1.45	-2.84
SUM 2095	2.12	-2.60	-0.79	-2.37	-1.45	-2.84
WIN 2095	2.12	-2.60	-0.79	-2.37	-1.45	-2.84
SPR 2096	2.12	-2.60	-0.79	-2.37	-1.45	-2.84
SUM 2096	2.12	-2.60	-0.79	-2.37	-1.45	-2.84
WIN 2096	2.12	-2.60	-0.79	-2.37	-1.45	-2.84
SPR 2097	2.12	-2.60	-0.79	-2.37	-1.45	-2.84
SUM 2097	2.12	-2.60	-0.79	-2.37	-1.45	-2.84
WIN 2097	2.12	-2.60	-0.79	-2.37	-1.45	-2.84
SPR 2098	2.12	-2.60	-0.79	-2.37	-1.45	-2.84
SUM 2098	2.12	-2.60	-0.79	-2.37	-1.45	-2.84
WIN 2098	2.12	-2.60	-0.79	-2.36	-1.45	-2.84
SPR 2099	2.12	-2.60	-0.79	-2.36	-1.45	-2.84
SUM 2099	2.12	-2.60	-0.79	-2.36	-1.45	-2.84
WIN 2099	2.12	-2.60	-0.79	-2.36	-1.45	-2.83
SPR 2100	2.12	-2.60	-0.79	-2.36	-1.45	-2.83
SUM 2100	2.12	-2.60	-0.79	-2.36	-1.45	-2.83

APPENDIX E.2

SHELLEY-NEAR BLACKFOOT TRANSIENT IMPACTS
(Idaho Water Company Off-setting Transfers 35-7192A, 35-9069)

	CHANGE IN IMPACTS DUE TO TRANSFER [ACRE_FT/TRIMESTER]					
	To City of Ammon	To City of Chubbuck	To Flying A	To Wickel Land, LP	To Jefferson Lake	Mitigation Deficit
WIN 2100	2.12	-2.60	-0.79	-2.36	-1.45	-2.83
SPR 2101	2.12	-2.60	-0.79	-2.36	-1.45	-2.83
SUM 2101	2.12	-2.60	-0.79	-2.36	-1.45	-2.83
WIN 2101	2.12	-2.60	-0.79	-2.36	-1.45	-2.83
SPR 2102	2.12	-2.60	-0.79	-2.36	-1.45	-2.83
SUM 2102	2.12	-2.60	-0.79	-2.36	-1.45	-2.83
WIN 2102	2.12	-2.60	-0.79	-2.36	-1.45	-2.83
SPR 2103	2.12	-2.60	-0.79	-2.36	-1.45	-2.83
SUM 2103	2.12	-2.60	-0.79	-2.36	-1.45	-2.83
WIN 2103	2.12	-2.60	-0.79	-2.36	-1.45	-2.83
SPR 2104	2.12	-2.60	-0.79	-2.36	-1.45	-2.83
SUM 2104	2.12	-2.60	-0.79	-2.36	-1.45	-2.83
WIN 2104	2.12	-2.60	-0.79	-2.36	-1.45	-2.83
SPR 2105	2.12	-2.60	-0.79	-2.35	-1.45	-2.83
SUM 2105	2.12	-2.60	-0.79	-2.35	-1.45	-2.83
WIN 2105	2.12	-2.60	-0.79	-2.35	-1.45	-2.83
SPR 2106	2.12	-2.60	-0.79	-2.35	-1.45	-2.82
SUM 2106	2.12	-2.60	-0.79	-2.35	-1.45	-2.82
WIN 2106	2.12	-2.60	-0.79	-2.35	-1.45	-2.82
SPR 2107	2.12	-2.60	-0.79	-2.35	-1.45	-2.82
SUM 2107	2.12	-2.60	-0.79	-2.35	-1.45	-2.82
WIN 2107	2.12	-2.60	-0.79	-2.35	-1.45	-2.82
SPR 2108	2.12	-2.60	-0.79	-2.35	-1.45	-2.82
SUM 2108	2.12	-2.60	-0.79	-2.35	-1.45	-2.82
WIN 2108	2.12	-2.60	-0.79	-2.35	-1.45	-2.82
SPR 2109	2.12	-2.60	-0.79	-2.35	-1.45	-2.82
SUM 2109	2.12	-2.60	-0.79	-2.35	-1.45	-2.82
WIN 2109	2.12	-2.60	-0.79	-2.35	-1.45	-2.82
SPR 2110	2.12	-2.60	-0.79	-2.35	-1.45	-2.82
SUM 2110	2.12	-2.60	-0.79	-2.35	-1.45	-2.82
WIN 2110	2.12	-2.60	-0.79	-2.35	-1.45	-2.82
SPR 2111	2.12	-2.60	-0.79	-2.35	-1.45	-2.82
SUM 2111	2.12	-2.60	-0.79	-2.35	-1.45	-2.82
WIN 2111	2.12	-2.60	-0.79	-2.35	-1.45	-2.82
SPR 2112	2.12	-2.60	-0.79	-2.35	-1.45	-2.82
SUM 2112	2.12	-2.60	-0.79	-2.34	-1.45	-2.82
WIN 2112	2.12	-2.60	-0.79	-2.34	-1.45	-2.82
SPR 2113	2.12	-2.60	-0.79	-2.34	-1.45	-2.82
SUM 2113	2.12	-2.60	-0.79	-2.34	-1.45	-2.82
WIN 2113	2.12	-2.60	-0.79	-2.34	-1.45	-2.82
SPR 2114	2.12	-2.60	-0.79	-2.34	-1.45	-2.81
SUM 2114	2.12	-2.60	-0.79	-2.34	-1.45	-2.81
WIN 2114	2.12	-2.60	-0.79	-2.34	-1.45	-2.81
SPR 2115	2.12	-2.60	-0.79	-2.34	-1.45	-2.81
SUM 2115	2.12	-2.60	-0.79	-2.34	-1.45	-2.81
WIN 2115	2.12	-2.60	-0.79	-2.34	-1.45	-2.81
SPR 2116	2.12	-2.60	-0.79	-2.34	-1.45	-2.81
SUM 2116	2.12	-2.60	-0.79	-2.34	-1.45	-2.81
WIN 2116	2.12	-2.60	-0.79	-2.34	-1.45	-2.81
SPR 2117	2.12	-2.60	-0.79	-2.34	-1.45	-2.81
SUM 2117	2.12	-2.60	-0.79	-2.34	-1.45	-2.81
WIN 2117	2.12	-2.60	-0.79	-2.34	-1.45	-2.81
SPR 2118	2.12	-2.60	-0.79	-2.34	-1.45	-2.81
SUM 2118	2.12	-2.60	-0.79	-2.34	-1.45	-2.81
WIN 2118	2.12	-2.60	-0.79	-2.34	-1.45	-2.81
SPR 2119	2.12	-2.60	-0.79	-2.34	-1.45	-2.81
SUM 2119	2.12	-2.60	-0.79	-2.34	-1.45	-2.81
WIN 2119	2.12	-2.60	-0.79	-2.34	-1.45	-2.81
SPR 2120	2.12	-2.60	-0.79	-2.34	-1.45	-2.81
SUM 2120	2.12	-2.60	-0.79	-2.34	-1.45	-2.81
WIN 2120	2.12	-2.60	-0.79	-2.34	-1.45	-2.81
SPR 2121	2.12	-2.60	-0.79	-2.34	-1.45	-2.81
SUM 2121	2.12	-2.60	-0.79	-2.34	-1.45	-2.81

APPENDIX E.2

Shelley to Near Blackfoot Combined Impacts 35-7192A, 35-9069

NEAR BLACKFOOT-NEELEY TRANSIENT IMPACTS
(Idaho Water Company Off-Setting Transfers 35-7192A, 35-9069)

	CHANGE IN IMPACTS DUE TO TRANSFER [ACRE FT/TRIMESTER]					
	To City of Ammon	To City of Chubbuck	To Flying A	To Wickel Land, LP	To Jefferson Lake	Mitigation Deficit
SPR 2014	-4.41	0.58	-0.34	-1.35	-0.67	-6.18
SUM 2014	-4.14	3.51	-0.40	-1.59	-0.79	-3.41
WIN 2014	-3.93	5.24	-0.47	-1.88	-0.92	-1.97
SPR 2015	-3.77	6.27	-0.54	-2.17	-1.06	-1.27
SUM 2015	-3.66	6.90	-0.61	-2.43	-1.18	-0.98
WIN 2015	-3.57	7.28	-0.67	-2.67	-1.29	-0.92
SPR 2016	-3.51	7.51	-0.73	-2.87	-1.38	-0.97
SUM 2016	-3.46	7.64	-0.77	-3.04	-1.46	-1.09
WIN 2016	-3.42	7.71	-0.82	-3.19	-1.53	-1.25
SPR 2017	-3.39	7.74	-0.85	-3.31	-1.60	-1.41
SUM 2017	-3.37	7.74	-0.89	-3.41	-1.65	-1.57
WIN 2017	-3.35	7.72	-0.91	-3.49	-1.70	-1.73
SPR 2018	-3.33	7.70	-0.94	-3.55	-1.74	-1.87
SUM 2018	-3.32	7.66	-0.96	-3.60	-1.78	-1.99
WIN 2018	-3.30	7.63	-0.98	-3.64	-1.81	-2.11
SPR 2019	-3.29	7.59	-1.00	-3.67	-1.84	-2.20
SUM 2019	-3.28	7.55	-1.02	-3.68	-1.87	-2.29
WIN 2019	-3.26	7.52	-1.03	-3.70	-1.89	-2.36
SPR 2020	-3.25	7.49	-1.04	-3.70	-1.91	-2.42
SUM 2020	-3.24	7.45	-1.05	-3.70	-1.93	-2.47
WIN 2020	-3.23	7.42	-1.06	-3.69	-1.95	-2.51
SPR 2021	-3.22	7.40	-1.07	-3.68	-1.96	-2.55
SUM 2021	-3.21	7.37	-1.08	-3.67	-1.98	-2.58
WIN 2021	-3.20	7.35	-1.09	-3.66	-1.99	-2.60
SPR 2022	-3.20	7.32	-1.10	-3.64	-2.00	-2.61
SUM 2022	-3.19	7.30	-1.10	-3.62	-2.01	-2.62
WIN 2022	-3.18	7.28	-1.11	-3.60	-2.02	-2.63
SPR 2023	-3.17	7.26	-1.11	-3.58	-2.03	-2.63
SUM 2023	-3.17	7.25	-1.12	-3.55	-2.04	-2.63
WIN 2023	-3.16	7.23	-1.12	-3.53	-2.05	-2.63
SPR 2024	-3.15	7.22	-1.13	-3.50	-2.06	-2.62
SUM 2024	-3.15	7.20	-1.13	-3.48	-2.06	-2.61
WIN 2024	-3.14	7.19	-1.13	-3.45	-2.07	-2.60
SPR 2025	-3.14	7.18	-1.14	-3.42	-2.08	-2.59
SUM 2025	-3.13	7.17	-1.14	-3.40	-2.08	-2.58
WIN 2025	-3.13	7.16	-1.14	-3.37	-2.09	-2.57
SPR 2026	-3.12	7.15	-1.14	-3.35	-2.09	-2.55
SUM 2026	-3.12	7.14	-1.14	-3.32	-2.10	-2.54
WIN 2026	-3.11	7.13	-1.15	-3.29	-2.10	-2.52
SPR 2027	-3.11	7.12	-1.15	-3.27	-2.10	-2.50
SUM 2027	-3.10	7.11	-1.15	-3.24	-2.11	-2.49
WIN 2027	-3.10	7.11	-1.15	-3.22	-2.11	-2.47
SPR 2028	-3.10	7.10	-1.15	-3.19	-2.12	-2.45
SUM 2028	-3.09	7.09	-1.15	-3.16	-2.12	-2.43
WIN 2028	-3.09	7.09	-1.15	-3.14	-2.12	-2.42
SPR 2029	-3.08	7.08	-1.16	-3.11	-2.12	-2.40
SUM 2029	-3.08	7.08	-1.16	-3.09	-2.13	-2.38
WIN 2029	-3.08	7.07	-1.16	-3.07	-2.13	-2.36
SPR 2030	-3.08	7.07	-1.16	-3.04	-2.13	-2.34
SUM 2030	-3.07	7.06	-1.16	-3.02	-2.14	-2.33
WIN 2030	-3.07	7.06	-1.16	-3.00	-2.14	-2.31
SPR 2031	-3.07	7.05	-1.16	-2.97	-2.14	-2.29
SUM 2031	-3.07	7.05	-1.16	-2.95	-2.14	-2.27
WIN 2031	-3.06	7.04	-1.16	-2.93	-2.14	-2.25
SPR 2032	-3.06	7.04	-1.16	-2.91	-2.15	-2.24
SUM 2032	-3.06	7.04	-1.16	-2.89	-2.15	-2.22
WIN 2032	-3.06	7.03	-1.16	-2.87	-2.15	-2.20
SPR 2033	-3.05	7.03	-1.16	-2.85	-2.15	-2.18
SUM 2033	-3.05	7.03	-1.16	-2.83	-2.15	-2.17
WIN 2033	-3.05	7.02	-1.16	-2.81	-2.15	-2.15
SPR 2034	-3.05	7.02	-1.16	-2.79	-2.16	-2.13
SUM 2034	-3.05	7.02	-1.16	-2.77	-2.16	-2.12
WIN 2034	-3.05	7.02	-1.16	-2.75	-2.16	-2.10
SPR 2035	-3.04	7.01	-1.16	-2.73	-2.16	-2.08
SUM 2035	-3.04	7.01	-1.16	-2.71	-2.16	-2.07

APPENDIX E.3

78937

NEAR BLACKFOOT-NEELEY TRANSIENT IMPACTS
(Idaho Water Company Off-Setting Transfers 35-7192A, 35-9069)

	CHANGE IN IMPACTS DUE TO TRANSFER [ACRE FT/TRIMESTER]					
	To City of Ammon	To City of Chubbuck	To Flying A	To Wickel Land, LP	To Jefferson Lake	Mitigation Deficit
WIN 2035	-3.04	7.01	-1.16	-2.70	-2.16	-2.05
SPR 2036	-3.04	7.01	-1.16	-2.68	-2.16	-2.04
SUM 2036	-3.04	7.01	-1.16	-2.66	-2.16	-2.02
WIN 2036	-3.04	7.00	-1.16	-2.64	-2.16	-2.01
SPR 2037	-3.04	7.00	-1.16	-2.63	-2.17	-1.99
SUM 2037	-3.04	7.00	-1.16	-2.61	-2.17	-1.98
WIN 2037	-3.03	7.00	-1.16	-2.59	-2.17	-1.96
SPR 2038	-3.03	7.00	-1.17	-2.58	-2.17	-1.95
SUM 2038	-3.03	7.00	-1.17	-2.56	-2.17	-1.93
WIN 2038	-3.03	6.99	-1.17	-2.55	-2.17	-1.92
SPR 2039	-3.03	6.99	-1.17	-2.53	-2.17	-1.91
SUM 2039	-3.03	6.99	-1.17	-2.52	-2.17	-1.89
WIN 2039	-3.03	6.99	-1.17	-2.50	-2.17	-1.88
SPR 2040	-3.03	6.99	-1.17	-2.49	-2.17	-1.87
SUM 2040	-3.03	6.99	-1.17	-2.48	-2.17	-1.85
WIN 2040	-3.03	6.99	-1.17	-2.46	-2.17	-1.84
SPR 2041	-3.03	6.99	-1.17	-2.45	-2.18	-1.83
SUM 2041	-3.02	6.98	-1.17	-2.43	-2.18	-1.82
WIN 2041	-3.02	6.98	-1.17	-2.42	-2.18	-1.80
SPR 2042	-3.02	6.98	-1.17	-2.41	-2.18	-1.79
SUM 2042	-3.02	6.98	-1.17	-2.40	-2.18	-1.78
WIN 2042	-3.02	6.98	-1.17	-2.38	-2.18	-1.77
SPR 2043	-3.02	6.98	-1.17	-2.37	-2.18	-1.76
SUM 2043	-3.02	6.98	-1.17	-2.36	-2.18	-1.75
WIN 2043	-3.02	6.98	-1.17	-2.35	-2.18	-1.73
SPR 2044	-3.02	6.98	-1.17	-2.34	-2.18	-1.72
SUM 2044	-3.02	6.98	-1.17	-2.32	-2.18	-1.71
WIN 2044	-3.02	6.98	-1.17	-2.31	-2.18	-1.70
SPR 2045	-3.02	6.98	-1.17	-2.30	-2.18	-1.69
SUM 2045	-3.02	6.98	-1.17	-2.29	-2.18	-1.68
WIN 2045	-3.02	6.97	-1.17	-2.28	-2.18	-1.67
SPR 2046	-3.02	6.97	-1.17	-2.27	-2.18	-1.66
SUM 2046	-3.02	6.97	-1.17	-2.26	-2.18	-1.65
WIN 2046	-3.02	6.97	-1.17	-2.25	-2.18	-1.64
SPR 2047	-3.02	6.97	-1.17	-2.24	-2.18	-1.63
SUM 2047	-3.02	6.97	-1.17	-2.23	-2.18	-1.62
WIN 2047	-3.02	6.97	-1.17	-2.22	-2.18	-1.61
SPR 2048	-3.01	6.97	-1.17	-2.21	-2.18	-1.60
SUM 2048	-3.01	6.97	-1.17	-2.20	-2.18	-1.59
WIN 2048	-3.01	6.97	-1.17	-2.19	-2.18	-1.58
SPR 2049	-3.01	6.97	-1.17	-2.18	-2.18	-1.57
SUM 2049	-3.01	6.97	-1.17	-2.17	-2.19	-1.57
WIN 2049	-3.01	6.97	-1.17	-2.16	-2.19	-1.56
SPR 2050	-3.01	6.97	-1.17	-2.15	-2.19	-1.55
SUM 2050	-3.01	6.97	-1.17	-2.14	-2.19	-1.54
WIN 2050	-3.01	6.97	-1.17	-2.13	-2.19	-1.53
SPR 2051	-3.01	6.97	-1.17	-2.13	-2.19	-1.52
SUM 2051	-3.01	6.97	-1.17	-2.12	-2.19	-1.51
WIN 2051	-3.01	6.97	-1.17	-2.11	-2.19	-1.51
SPR 2052	-3.01	6.97	-1.17	-2.10	-2.19	-1.50
SUM 2052	-3.01	6.97	-1.17	-2.09	-2.19	-1.49
WIN 2052	-3.01	6.97	-1.17	-2.08	-2.19	-1.48
SPR 2053	-3.01	6.97	-1.17	-2.08	-2.19	-1.48
SUM 2053	-3.01	6.97	-1.17	-2.07	-2.19	-1.47
WIN 2053	-3.01	6.97	-1.17	-2.06	-2.19	-1.46
SPR 2054	-3.01	6.97	-1.17	-2.05	-2.19	-1.45
SUM 2054	-3.01	6.96	-1.17	-2.05	-2.19	-1.45
WIN 2054	-3.01	6.96	-1.17	-2.04	-2.19	-1.44
SPR 2055	-3.01	6.96	-1.17	-2.03	-2.19	-1.43
SUM 2055	-3.01	6.96	-1.17	-2.02	-2.19	-1.42
WIN 2055	-3.01	6.96	-1.17	-2.02	-2.19	-1.42
SPR 2056	-3.01	6.96	-1.17	-2.01	-2.19	-1.41
SUM 2056	-3.01	6.96	-1.17	-2.00	-2.19	-1.40
WIN 2056	-3.01	6.96	-1.17	-2.00	-2.19	-1.40
SPR 2057	-3.01	6.96	-1.17	-1.99	-2.19	-1.39

APPENDIX E.3

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NEAR BLACKFOOT-NEELEY TRANSIENT IMPACTS
(Idaho Water Company Off-Setting Transfers 35-7192A, 35-9069)

	CHANGE IN IMPACTS DUE TO TRANSFER [ACRE FT/TRIMESTER]					
	To City of Ammon	To City of Chubbuck	To Flying A	To Wickel Land, LP	To Jefferson Lake	Mitigation Deficit
SUM 2057	-3.01	6.96	-1.17	-1.98	-2.19	-1.38
WIN 2057	-3.01	6.96	-1.17	-1.98	-2.19	-1.38
SPR 2058	-3.01	6.96	-1.17	-1.97	-2.19	-1.37
SUM 2058	-3.01	6.96	-1.17	-1.96	-2.19	-1.36
WIN 2058	-3.01	6.96	-1.17	-1.96	-2.19	-1.36
SPR 2059	-3.01	6.96	-1.17	-1.95	-2.19	-1.35
SUM 2059	-3.01	6.96	-1.17	-1.94	-2.19	-1.35
WIN 2059	-3.01	6.96	-1.17	-1.94	-2.19	-1.34
SPR 2060	-3.01	6.96	-1.17	-1.93	-2.19	-1.33
SUM 2060	-3.01	6.96	-1.17	-1.93	-2.19	-1.33
WIN 2060	-3.01	6.96	-1.17	-1.92	-2.19	-1.32
SPR 2061	-3.01	6.96	-1.17	-1.91	-2.19	-1.32
SUM 2061	-3.01	6.96	-1.17	-1.91	-2.19	-1.31
WIN 2061	-3.01	6.96	-1.17	-1.90	-2.19	-1.30
SPR 2062	-3.01	6.96	-1.17	-1.90	-2.19	-1.30
SUM 2062	-3.01	6.96	-1.17	-1.89	-2.19	-1.29
WIN 2062	-3.01	6.96	-1.17	-1.89	-2.19	-1.29
SPR 2063	-3.01	6.96	-1.17	-1.88	-2.19	-1.28
SUM 2063	-3.01	6.96	-1.17	-1.87	-2.19	-1.28
WIN 2063	-3.01	6.96	-1.17	-1.87	-2.19	-1.27
SPR 2064	-3.01	6.96	-1.17	-1.86	-2.19	-1.27
SUM 2064	-3.01	6.96	-1.17	-1.86	-2.19	-1.26
WIN 2064	-3.01	6.96	-1.17	-1.85	-2.19	-1.26
SPR 2065	-3.01	6.96	-1.17	-1.85	-2.19	-1.25
SUM 2065	-3.01	6.96	-1.17	-1.84	-2.19	-1.25
WIN 2065	-3.01	6.96	-1.17	-1.84	-2.19	-1.24
SPR 2066	-3.01	6.96	-1.17	-1.83	-2.19	-1.24
SUM 2066	-3.01	6.96	-1.17	-1.83	-2.19	-1.23
WIN 2066	-3.01	6.96	-1.17	-1.82	-2.19	-1.23
SPR 2067	-3.01	6.96	-1.17	-1.82	-2.19	-1.22
SUM 2067	-3.01	6.96	-1.17	-1.81	-2.19	-1.22
WIN 2067	-3.01	6.96	-1.17	-1.81	-2.19	-1.21
SPR 2068	-3.01	6.96	-1.17	-1.80	-2.19	-1.21
SUM 2068	-3.01	6.96	-1.17	-1.80	-2.19	-1.20
WIN 2068	-3.01	6.96	-1.17	-1.79	-2.19	-1.20
SPR 2069	-3.01	6.96	-1.17	-1.79	-2.19	-1.20
SUM 2069	-3.01	6.96	-1.17	-1.79	-2.19	-1.19
WIN 2069	-3.01	6.96	-1.17	-1.78	-2.19	-1.19
SPR 2070	-3.01	6.96	-1.17	-1.78	-2.19	-1.18
SUM 2070	-3.01	6.96	-1.17	-1.77	-2.19	-1.18
WIN 2070	-3.01	6.96	-1.17	-1.77	-2.19	-1.17
SPR 2071	-3.01	6.96	-1.17	-1.76	-2.19	-1.17
SUM 2071	-3.01	6.96	-1.17	-1.76	-2.19	-1.17
WIN 2071	-3.01	6.96	-1.17	-1.76	-2.19	-1.16
SPR 2072	-3.01	6.96	-1.17	-1.75	-2.19	-1.16
SUM 2072	-3.01	6.96	-1.17	-1.75	-2.19	-1.15
WIN 2072	-3.01	6.96	-1.17	-1.74	-2.19	-1.15
SPR 2073	-3.01	6.96	-1.17	-1.74	-2.19	-1.15
SUM 2073	-3.01	6.96	-1.17	-1.73	-2.19	-1.14
WIN 2073	-3.01	6.96	-1.17	-1.73	-2.19	-1.14
SPR 2074	-3.01	6.96	-1.17	-1.73	-2.19	-1.13
SUM 2074	-3.01	6.96	-1.17	-1.72	-2.19	-1.13
WIN 2074	-3.01	6.96	-1.17	-1.72	-2.19	-1.13
SPR 2075	-3.01	6.96	-1.17	-1.72	-2.19	-1.12
SUM 2075	-3.01	6.96	-1.17	-1.71	-2.19	-1.12
WIN 2075	-3.01	6.96	-1.17	-1.71	-2.19	-1.11
SPR 2076	-3.01	6.96	-1.17	-1.70	-2.19	-1.11
SUM 2076	-3.01	6.96	-1.17	-1.70	-2.19	-1.11
WIN 2076	-3.01	6.96	-1.17	-1.70	-2.19	-1.10
SPR 2077	-3.01	6.96	-1.17	-1.69	-2.19	-1.10
SUM 2077	-3.01	6.96	-1.17	-1.69	-2.19	-1.10
WIN 2077	-3.01	6.96	-1.17	-1.69	-2.19	-1.09
SPR 2078	-3.01	6.96	-1.17	-1.68	-2.19	-1.09
SUM 2078	-3.01	6.96	-1.17	-1.68	-2.19	-1.09
WIN 2078	-3.01	6.96	-1.17	-1.68	-2.19	-1.08

APPENDIX E.3

Near Blackfoot to Neeley Combined Impacts 35-7192A, 35-9069

88937

NEAR BLACKFOOT-NEELEY TRANSIENT IMPACTS
(Idaho Water Company Off-Setting Transfers 35-7192A, 35-9069)

	CHANGE IN IMPACTS DUE TO TRANSFER [ACRE FT/TRIMESTER]					Mitigation Deficit
	To City of Ammon	To City of Chubbuck	To Flying A	To Wickel Land, LP	To Jefferson Lake	
SPR 2079	-3.01	6.96	-1.17	-1.67	-2.19	-1.08
SUM 2079	-3.01	6.96	-1.17	-1.67	-2.19	-1.08
WIN 2079	-3.01	6.96	-1.17	-1.67	-2.19	-1.07
SPR 2080	-3.01	6.96	-1.17	-1.66	-2.19	-1.07
SUM 2080	-3.01	6.96	-1.17	-1.66	-2.19	-1.07
WIN 2080	-3.01	6.96	-1.17	-1.66	-2.19	-1.06
SPR 2081	-3.01	6.96	-1.17	-1.65	-2.19	-1.06
SUM 2081	-3.01	6.96	-1.17	-1.65	-2.19	-1.06
WIN 2081	-3.01	6.96	-1.17	-1.65	-2.19	-1.05
SPR 2082	-3.01	6.96	-1.17	-1.64	-2.19	-1.05
SUM 2082	-3.01	6.96	-1.17	-1.64	-2.19	-1.05
WIN 2082	-3.01	6.96	-1.17	-1.64	-2.19	-1.05
SPR 2083	-3.01	6.96	-1.17	-1.63	-2.19	-1.04
SUM 2083	-3.01	6.96	-1.17	-1.63	-2.19	-1.04
WIN 2083	-3.01	6.96	-1.17	-1.63	-2.19	-1.04
SPR 2084	-3.01	6.96	-1.17	-1.63	-2.19	-1.03
SUM 2084	-3.01	6.96	-1.17	-1.62	-2.19	-1.03
WIN 2084	-3.01	6.96	-1.17	-1.62	-2.19	-1.03
SPR 2085	-3.01	6.96	-1.17	-1.62	-2.19	-1.03
SUM 2085	-3.01	6.96	-1.17	-1.61	-2.19	-1.02
WIN 2085	-3.01	6.96	-1.17	-1.61	-2.19	-1.02
SPR 2086	-3.01	6.96	-1.17	-1.61	-2.19	-1.02
SUM 2086	-3.01	6.96	-1.17	-1.61	-2.19	-1.01
WIN 2086	-3.01	6.96	-1.17	-1.60	-2.19	-1.01
SPR 2087	-3.01	6.96	-1.17	-1.60	-2.19	-1.01
SUM 2087	-3.01	6.96	-1.17	-1.60	-2.19	-1.01
WIN 2087	-3.01	6.96	-1.17	-1.60	-2.19	-1.00
SPR 2088	-3.01	6.96	-1.17	-1.59	-2.19	-1.00
SUM 2088	-3.01	6.96	-1.17	-1.59	-2.19	-1.00
WIN 2088	-3.01	6.96	-1.17	-1.59	-2.19	-1.00
SPR 2089	-3.01	6.96	-1.17	-1.59	-2.19	-0.99
SUM 2089	-3.01	6.96	-1.17	-1.58	-2.19	-0.99
WIN 2089	-3.01	6.96	-1.17	-1.58	-2.19	-0.99
SPR 2090	-3.01	6.96	-1.17	-1.58	-2.19	-0.99
SUM 2090	-3.01	6.96	-1.17	-1.58	-2.19	-0.98
WIN 2090	-3.01	6.96	-1.17	-1.57	-2.19	-0.98
SPR 2091	-3.01	6.96	-1.17	-1.57	-2.19	-0.98
SUM 2091	-3.01	6.96	-1.17	-1.57	-2.19	-0.98
WIN 2091	-3.01	6.96	-1.17	-1.57	-2.19	-0.97
SPR 2092	-3.01	6.96	-1.17	-1.56	-2.19	-0.97
SUM 2092	-3.01	6.96	-1.17	-1.56	-2.19	-0.97
WIN 2092	-3.01	6.96	-1.17	-1.56	-2.19	-0.97
SPR 2093	-3.01	6.96	-1.17	-1.56	-2.19	-0.97
SUM 2093	-3.01	6.96	-1.17	-1.55	-2.19	-0.96
WIN 2093	-3.01	6.96	-1.17	-1.55	-2.19	-0.96
SPR 2094	-3.01	6.96	-1.17	-1.55	-2.19	-0.96
SUM 2094	-3.01	6.96	-1.17	-1.55	-2.19	-0.96
WIN 2094	-3.01	6.96	-1.17	-1.55	-2.19	-0.95
SPR 2095	-3.01	6.96	-1.17	-1.54	-2.19	-0.95
SUM 2095	-3.01	6.96	-1.17	-1.54	-2.19	-0.95
WIN 2095	-3.01	6.96	-1.17	-1.54	-2.19	-0.95
SPR 2096	-3.01	6.96	-1.17	-1.54	-2.19	-0.95
SUM 2096	-3.01	6.96	-1.17	-1.53	-2.19	-0.94
WIN 2096	-3.01	6.96	-1.17	-1.53	-2.19	-0.94
SPR 2097	-3.01	6.96	-1.17	-1.53	-2.19	-0.94
SUM 2097	-3.01	6.96	-1.17	-1.53	-2.19	-0.94
WIN 2097	-3.01	6.96	-1.17	-1.53	-2.19	-0.94
SPR 2098	-3.01	6.96	-1.17	-1.52	-2.19	-0.93
SUM 2098	-3.01	6.96	-1.17	-1.52	-2.19	-0.93
WIN 2098	-3.01	6.96	-1.17	-1.52	-2.19	-0.93
SPR 2099	-3.01	6.96	-1.17	-1.52	-2.19	-0.93
SUM 2099	-3.01	6.96	-1.17	-1.52	-2.19	-0.93
WIN 2099	-3.01	6.96	-1.17	-1.52	-2.19	-0.92
SPR 2100	-3.01	6.96	-1.17	-1.51	-2.19	-0.92
SUM 2100	-3.01	6.96	-1.17	-1.51	-2.19	-0.92

APPENDIX E.3

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NEAR BLACKFOOT-NEELEY TRANSIENT IMPACTS
(Idaho Water Company Off-Setting Transfers 35-7192A, 35-9069)

	CHANGE IN IMPACTS DUE TO TRANSFER [ACRE_FT/TRIMESTER]					Mitigation Deficit
	To City of Ammon	To City of Chubbuck	To Flying A	To Wickel Land, LP	To Jefferson Lake	
WIN 2100	-3.01	6.96	-1.17	-1.51	-2.19	-0.92
SPR 2101	-3.01	6.96	-1.17	-1.51	-2.19	-0.92
SUM 2101	-3.01	6.96	-1.17	-1.51	-2.19	-0.92
WIN 2101	-3.01	6.96	-1.17	-1.50	-2.19	-0.91
SPR 2102	-3.01	6.96	-1.17	-1.50	-2.19	-0.91
SUM 2102	-3.01	6.96	-1.17	-1.50	-2.19	-0.91
WIN 2102	-3.01	6.96	-1.17	-1.50	-2.19	-0.91
SPR 2103	-3.01	6.96	-1.17	-1.50	-2.19	-0.91
SUM 2103	-3.01	6.96	-1.17	-1.50	-2.20	-0.91
WIN 2103	-3.01	6.96	-1.17	-1.49	-2.20	-0.90
SPR 2104	-3.01	6.96	-1.17	-1.49	-2.20	-0.90
SUM 2104	-3.01	6.96	-1.17	-1.49	-2.20	-0.90
WIN 2104	-3.01	6.96	-1.17	-1.49	-2.20	-0.90
SPR 2105	-3.01	6.96	-1.17	-1.49	-2.20	-0.90
SUM 2105	-3.01	6.96	-1.17	-1.49	-2.20	-0.90
WIN 2105	-3.01	6.96	-1.17	-1.48	-2.20	-0.89
SPR 2106	-3.01	6.96	-1.17	-1.48	-2.20	-0.89
SUM 2106	-3.01	6.96	-1.17	-1.48	-2.20	-0.89
WIN 2106	-3.01	6.96	-1.17	-1.48	-2.20	-0.89
SPR 2107	-3.01	6.96	-1.17	-1.48	-2.20	-0.89
SUM 2107	-3.01	6.96	-1.17	-1.48	-2.20	-0.89
WIN 2107	-3.01	6.96	-1.17	-1.47	-2.20	-0.88
SPR 2108	-3.01	6.96	-1.17	-1.47	-2.20	-0.88
SUM 2108	-3.01	6.96	-1.17	-1.47	-2.20	-0.88
WIN 2108	-3.01	6.96	-1.17	-1.47	-2.20	-0.88
SPR 2109	-3.01	6.96	-1.17	-1.47	-2.20	-0.88
SUM 2109	-3.01	6.96	-1.17	-1.47	-2.20	-0.88
WIN 2109	-3.01	6.96	-1.17	-1.47	-2.20	-0.88
SPR 2110	-3.01	6.96	-1.17	-1.46	-2.20	-0.87
SUM 2110	-3.01	6.96	-1.17	-1.46	-2.20	-0.87
WIN 2110	-3.01	6.96	-1.17	-1.46	-2.20	-0.87
SPR 2111	-3.01	6.96	-1.17	-1.46	-2.20	-0.87
SUM 2111	-3.01	6.96	-1.17	-1.46	-2.20	-0.87
WIN 2111	-3.01	6.96	-1.17	-1.46	-2.20	-0.87
SPR 2112	-3.01	6.96	-1.17	-1.46	-2.20	-0.87
SUM 2112	-3.01	6.96	-1.17	-1.45	-2.20	-0.86
WIN 2112	-3.01	6.96	-1.17	-1.45	-2.20	-0.86
SPR 2113	-3.01	6.96	-1.17	-1.45	-2.20	-0.86
SUM 2113	-3.01	6.96	-1.17	-1.45	-2.20	-0.86
WIN 2113	-3.01	6.96	-1.17	-1.45	-2.20	-0.86
SPR 2114	-3.01	6.96	-1.17	-1.45	-2.20	-0.86
SUM 2114	-3.01	6.96	-1.17	-1.45	-2.20	-0.86
WIN 2114	-3.01	6.96	-1.17	-1.44	-2.20	-0.86
SPR 2115	-3.01	6.96	-1.17	-1.44	-2.20	-0.85
SUM 2115	-3.01	6.96	-1.17	-1.44	-2.20	-0.85
WIN 2115	-3.01	6.96	-1.17	-1.44	-2.20	-0.85
SPR 2116	-3.01	6.96	-1.17	-1.44	-2.20	-0.85
SUM 2116	-3.01	6.96	-1.17	-1.44	-2.20	-0.85
WIN 2116	-3.01	6.96	-1.17	-1.44	-2.20	-0.85
SPR 2117	-3.01	6.96	-1.17	-1.44	-2.20	-0.85
SUM 2117	-3.01	6.96	-1.17	-1.43	-2.20	-0.85
WIN 2117	-3.01	6.96	-1.17	-1.43	-2.20	-0.84
SPR 2118	-3.01	6.96	-1.17	-1.43	-2.20	-0.84
SUM 2118	-3.01	6.96	-1.17	-1.43	-2.20	-0.84
WIN 2118	-3.01	6.96	-1.17	-1.43	-2.20	-0.84
SPR 2119	-3.01	6.96	-1.17	-1.43	-2.20	-0.84
SUM 2119	-3.01	6.96	-1.17	-1.43	-2.20	-0.84
WIN 2119	-3.01	6.96	-1.17	-1.43	-2.20	-0.84
SPR 2120	-3.01	6.96	-1.17	-1.43	-2.20	-0.84
SUM 2120	-3.01	6.96	-1.17	-1.42	-2.20	-0.84
WIN 2120	-3.01	6.96	-1.17	-1.42	-2.20	-0.83
SPR 2121	-3.01	6.96	-1.17	-1.42	-2.20	-0.83
SUM 2121	-3.01	6.96	-1.17	-1.42	-2.20	-0.83

APPENDIX E.3

Near Blackfoot to Neeley Combined Impacts 35-7192A, 35-9069

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