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APR 02 2018

DEPT OF WATER RESOURCES
SOUTHERN REGIONSTATE OF IDAHO
DEPARTMENT OF WATER RESOURCESTransfer No. 82269MINIMUM 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 www.idwr.idaho.gov.

Name of Applicant(s) Adam Grosser and Lynn HeubleinCheck 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 #1-10.

- ☐ ☒ #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 applicant as the current water right owner. **
- ☐ ☒ #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 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. If some or all of any right is leased to the Water Supply Bank, you must also show the the specific location and/or acres to be idled at the new, proposed place of use to satisfy lease requirements.
- ☐ ☒ #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 Water Supply Bank information for all rights proposed for transfer and currently leased to the Bank. ([Attachment WSB](#))
- ☐ ☒ #10 Other. Please describe: _____

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STATE OF IDAHO
DEPARTMENT OF WATER RESOURCESDEPT OF WATER RESOURCES
SOUTHERN REGIONAPPLICATION FOR TRANSFER OF WATER RIGHT
PART 1Name of Applicant(s) Adam Grosser and Lynn Heublein Phone 650-863-6700Mailing address 2020 Pioneer Ct. San Mateo, CA 94403 Email _____

- ☐ 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 RepresentativeName of Representative Zach Latham, Brockway Engineering PLLC Phone 208-736-8543Mailing address 2016 Washington St. North Suite 4 Twin Falls, ID 83301 Email zach.latham@brockwayeng.c

- ☐ 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.

DocuSigned by: <u>Adam Grosser</u>		<u>3/30/2018</u>
Signature of Applicant or Authorized Representative	Print Name and Title if applicable	Date
DocuSigned by: <u>[Signature]</u>		<u>3/30/2018</u>
Signature of Applicant or Authorized Representative	Print Name and Title if applicable	Date

A. PURPOSE OF TRANSFER

- ☒ Change point of diversion
 ☐ Add diversion point(s)
 ☐ Change place of use
 ☐ Change nature of use
 ☐ Change period of use
 ☐ Other _____
- 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**.

Applicant seeks to transfer point of diversion from the Big Wood River to a well on the applicant's property. A lack of conveyance features prohibits the delivery of water to the applicant from the existing points of diversion. Place of use to remain unchanged. See attached narrative.

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 ☒ ☐	37-22998	0.17 /	Irrigation	4/15 to 10/31	Big Wood River/Malad Riv
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	

Total authorized under rights 0.17 cfs and/or _____ acre-feet.

2. Total amount of water proposed to be transferred or changed 0.17 cubic feet per second and/or _____ acre-feet per year.

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 #
NO		NE	SE	SE	5	2N	18E	BLAINE	GROUND WATER	Existing Domestic Well

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	
Total Acres (for irrigation use)																			

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:

Buried pressurized irrigation system will supply irrigation water to place of use from existing well.

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

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

- 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: N/A.

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. Are any of the water rights proposed for transfer currently leased to the Water Supply Bank?

If yes, ☐ complete Attachment WSB.

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

None.

- f. 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:

None.

- g. 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:

N/A.

A. DESCRIPTION OF RIGHT(S) AS RECORDED

Insert Part 2A reports into the application following Part 1.

☐ Complete and attach one copy of Part 2B for each right for which only a portion is proposed to be changed. If the entire right is proposed to be changed, Part 2B is not applicable. Additional copies of the **Part 2B** form can be obtained from any Department office or from the Department's website @ www.idwr.idaho.gov, Water Right Transfers, Step 3, or Water Right Forms, Changes in Use. Insert completed Part 2B forms into the application following Part 2A of the same water right.

[illegible][illegible]

**IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 2A**

Current Water Right No.: 37-22998

Current Owner: ADAM GROSSER
LYNN HEUBLEIN

Priority Date: 5/1/1883

Origin: Water Right

Status: Active

Basis: Decreed

Source

BIG WOOD RIVER

Tributary

MALAD RIVER

Beneficial Use

IRRIGATION

From To

04/15 to 10/31

Total Diversion

Diversion Rate

0.17 CFS

0.17 CFS

Annual Volume

Location of Point(s) of Diversion

BIG WOOD RIVER

BLAINE County

SW1/4NE1/4

Sec. 5, Twp 02N, Rge 18E B.M.

BIG WOOD RIVER

BLAINE County

SE1/4NE1/4

Sec. 5, Twp 02N, Rge 18E B.M.

Place of Use

IRRIGATION Within BLAINE County

T02N R18E S4

SWSW

2.10

T02N R18E S5

SESE

1.80

Total Acres: 3.9

Page 7 of _____

Conditions of Approval:

1. R43 The right holder shall maintain a measuring device and lockable controlling works of a type approved by the Department in a manner that will provide the watermaster suitable control of the diversion(s).
2. 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.
3. This right shall provide no more than 0.03 cfs per acre at the field headgate for irrigation of the lands in the place of use whenever sprinkler methods of irrigation are used.
4. T07 The right holder shall accomplish the change authorized by this transfer within one year of the date of this approval.
5. 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.
6. 004 This right does not grant any right-of-way or easement across the land of another.
7. 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. 37.
8. X60 Place of use is located within Lot 10, River Grove Ranch.

Decreed Date: 8/30/2011

APR 02 2018

DEPT OF WATER RESOURCES
SOUTHERN REGION

Grosser and Heublein- Stream Depletion Analysis for Water Right Transfer; 37-22998

To: Mr. Corey Skinner, IDWR Southern Region Manager
From: Zach Latham, M.S., Hydrologist
Cc: Adam Grosser and Lynn Heublein
Date: April 2nd, 2018
Re: Stream Depletion Analysis for Water Right Transfer; 37-22998

This memo serves as a stream depletion analysis for the water right transfer application being filed on behalf of Adam Grosser and Lynn Heublein by Brockway Engineering. The transfer application seeks to divert Big Wood River water right 37-22998 from an existing domestic well on the property owned by both Grosser and Heublein (Applicant) in T.2N R.18E Sec.5 SE ¼ SE ¼. The current authorized points of diversion are located incorrectly in T.02N R.18E Sec. 5 SW ¼ NE ¼ and SE ¼ NE ¼; a lack of conveyance ditches on lands owned by others precludes the Applicant from taking delivery of 37-22998.

Water right 37-22998 is authorized to divert 0.17 cubic feet per second (cfs) or 76 gallons per minute (gpm) for the irrigation of 3.9 acres from the Big Wood River. . The parent water right of 37-22998, (37-22252) was partially decreed in the Snake River Basin Adjudication on 8/30/2011. A transfer of the point of diversion from the Big Wood River to an existing well on the property will reduce maintenance associated with a river diversion and is therefore desired by the Applicant.

The property's existing 6" well is located approximately 68' from the Big Wood River. It is unknown when this well was drilled or for whom it was drilled. Two well logs exist in T.2N R.18E Sec.5 SE ¼ SE ¼ and since this property is the only one that could physically have a well drilled on it within T.2N R.18E Sec.5 SE ¼ SE ¼, it is very likely that one of the two logs describe the well on the Applicant's property. The first of two well logs is in the name of Dale Donnley and was drilled in 1980. This log represents a non-perforated 6" well drilled 50 ft into gravels, sands, clays and boulders, the well's yield at the time of the drilling was approximately 40 gpm. The second of the two well logs is in the name of Bud Teasley and was drilled in 1977. This log represents a perforated 6" well drilled 47 ft into gravels, sands, boulders and shale and the well's yield at the time of the drilling was approximately 45 gpm. Both well logs contain data required for aquifer parameter estimations and stream depletion analysis calculations and therefore a SDA for either well is defensible.

The local aquifer appears to be approximately 30-50'+ deep per the Donnley, Teasley and other surrounding well logs. A stream depletion analysis was performed to determine the portion of water supplied to each well by the Big Wood River using the Glover and Balmer method¹. This analysis calculated a transmissivity value of 5,152 ft²/day using data from the Donnley well log.

¹ Glover, R. E. and C. G. Balmer (1954) "River depletion resulting from pumping a well near a river". Am. Geophys. Union Trans. v. 35. pt. 3, pp. 468-470.

The Donnley well is not perforated; it only has an open bottom. A hydraulic conductivity value of 119.8 ft/day was calculated using values reported on the Donnley well log. Using the Teasley well log, this analysis also calculated a lower transmissivity value of 3,173 ft²/day, and a hydraulic conductivity value of 80.3 ft/d. The Teasley well is perforated from forty to forty four feet as well as having an open bottom. A transmissivity estimation² with effects of a partial penetration method³ (see attached analysis summary sheets and plots) were used to calculate a transmissivity value. Transmissivity, conductivity and storativity (0.15) values used in the stream depletion analysis are within the range of published values for alluvium in this area.

The resulting analyses (attached) estimates approximately 78% of the proposed pumping (76.3 gpm) from the Applicant's well originates from the Big Wood River within a 24 hour period using the Donnley well log and 73% of the proposed pumping (76.3 gpm), from the Applicant's well originates from the Big Wood River within a 24 hour period using the Teasley well log. Therefore, both analyses results exceed the 50% in 24 hour criteria set forth by IDWR Water Right Transfer Processing Memo No. 24. A transfer of the point of diversion from the Big Wood River to the Applicant's well is not anticipated to impact existing minimum stream flows in the Big Wood River, nor cause an expansion in consumptive use associated with 37-22998 and is therefore approvable by IDWR.

² Bradbury, K.R., and E.R. Rtothchild, (1985) " A computerized technique for estimating the hydraulic conductivity of aquifers from specific capacity data" Ground Water, v.23, no.2, pp. 240-246.

³ Sternberg, Y.M., (1973) "Efficiency of partially penetrating wells". Groundwater v.11 no.3 pp5-8.

Transmissivity Estimation with Partial Penetration

Bradbury and Rothschild (1985) specific capacity method.

Suitable for situations where a single time and drawdown measurement is available.

Includes effects of partial penetration using Sternberg (1973) approach.

Enter data in blue, pay attention to units.

Bud Teasley Well Log, SESE Section 5 T.02N R.18E.

Well pumping rate	45 [gpm]
Drawdown	13 [ft]
Time	120 [minutes]
Well radius	3 [inches]
Storativity	0.15 [unitless]
Aquifer thickness	39.5 [ft]
Open interval	4 [ft]

Calculations:

Specific capacity	3.461538 [gpm/ft]
L/b	0.101266
G	2.314911
sp	24.38569

Trial T	3172.75 [ft ² /d]	<--- Vary Trial T until about equal to Calc T
Calc T	3172.75 [ft ² /d]	
Calc K	80.32 [ft/d]	

Estimation of Timing of Aquifer-Stream Interaction

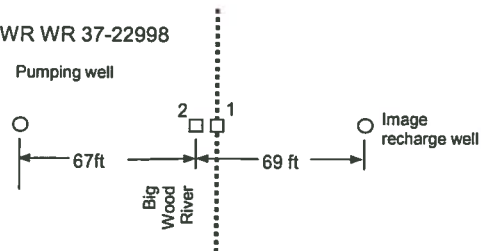
PROJECT: Grosser and Heublein Well Hypothetical pumping of 3.9 Ac. Portion of BWR WR 37-22998

Brockway Engineering, PLLC 3/30/18

Bud Teasley Well Data

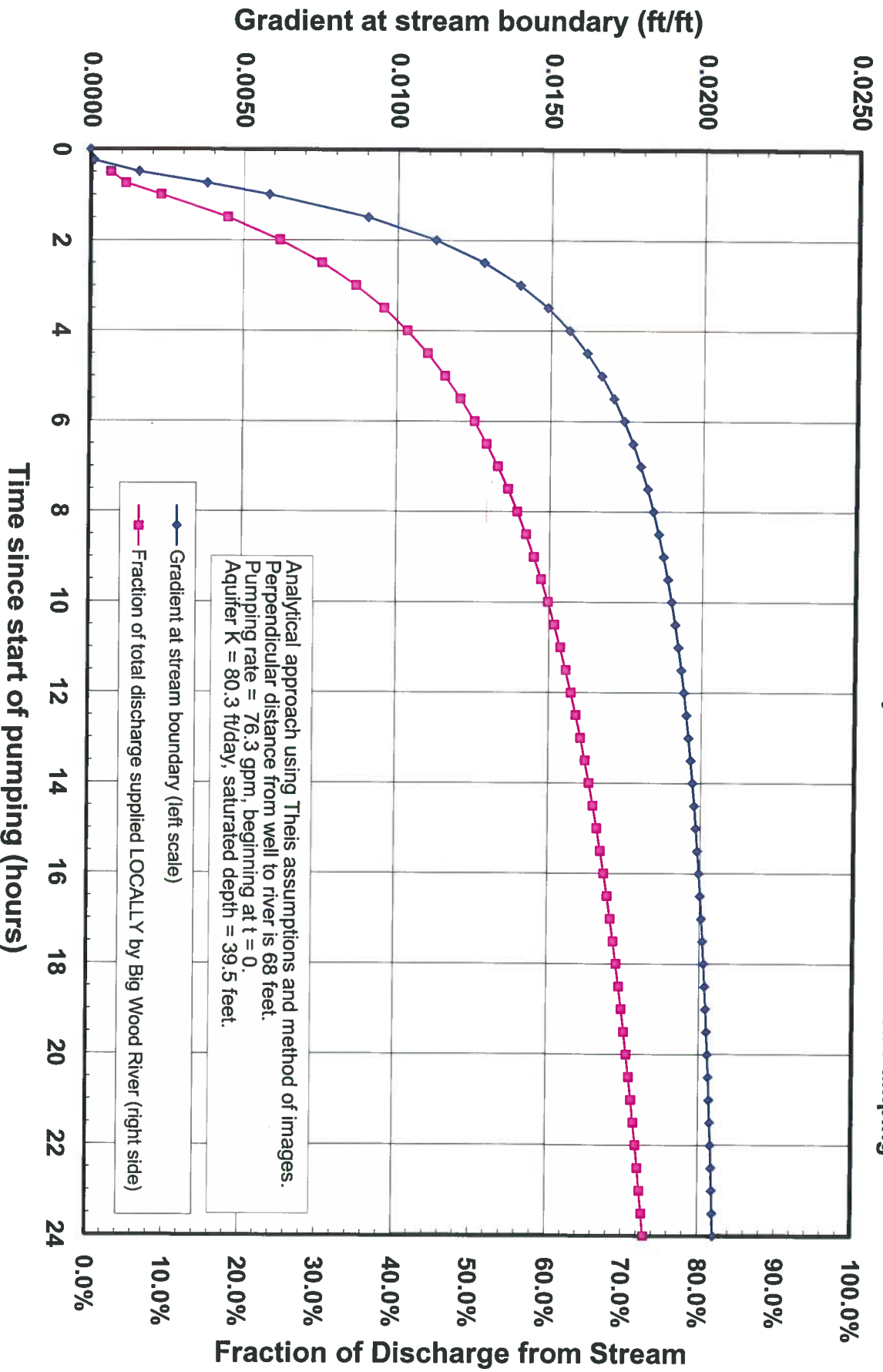
These assumptions apply.
Method of images used to estimate
gw gradient at stream boundary.

Hydraulic conductivity: 80.3 ft/day
Aquifer saturated thickness: 39.5 feet
Transmissivity: 3,173 ft²/d
Storage coefficient: 0.15
Pumping rate: 76.3 gpm = 14689 ft³/d
Pumping time: 24 hrs



							RESULTANT using		Portion of total discharge	
IMAGE WELL			PUMPING WELL			IMAGE	R = 62' (pumping) and		supplied by the stream	
R = 69			R = 67			WELL	R = 66' (image)		(after Glover and Balmer, 1954)	
Time (hrs)	feet	feet	feet	feet	feet	feet	feet	Gradient		
	u	W(u)	z (feet)	u	W(u)	z (feet)	z (feet)	at river	x'	Qs / Q
0	—	—	0.000	—	—	0.000	0.000	0.0000	0.0000	
0.25	5.4E+00	0.001	0.000	5.1E+00	0.001	0.000	0.000	0.0001	0.0001	2.324 24.8%
0.5	2.7E+00	0.019	0.007	2.5E+00	0.023	0.009	-0.007	0.0016	0.0016	1.643 2.6%
0.75	1.8E+00	0.065	0.024	1.7E+00	0.075	0.028	-0.024	0.0038	0.0038	1.342 4.5%
1	1.4E+00	0.125	0.046	1.3E+00	0.141	0.052	-0.046	0.0058	0.0058	1.162 9.1%
1.5	9.0E-01	0.260	0.096	8.5E-01	0.285	0.105	-0.096	0.0090	0.0090	0.949 17.8%
2	6.8E-01	0.392	0.144	6.4E-01	0.422	0.156	-0.144	0.0112	0.0112	0.822 24.7%
2.5	5.4E-01	0.514	0.189	5.1E-01	0.549	0.202	-0.189	0.0128	0.0128	0.735 30.2%
3	4.5E-01	0.625	0.230	4.2E-01	0.663	0.244	-0.230	0.0140	0.0140	0.671 34.6%
3.5	3.9E-01	0.727	0.268	3.6E-01	0.767	0.283	-0.268	0.0149	0.0149	0.621 38.2%
4	3.4E-01	0.820	0.302	3.2E-01	0.862	0.318	-0.302	0.0156	0.0156	0.581 41.3%
4.5	3.0E-01	0.905	0.334	2.8E-01	0.949	0.350	-0.334	0.0162	0.0162	0.548 44.0%
5	2.7E-01	0.985	0.363	2.5E-01	1.030	0.379	-0.363	0.0167	0.0167	0.520 46.3%
5.5	2.5E-01	1.058	0.390	2.3E-01	1.105	0.407	-0.390	0.0171	0.0171	0.496 48.3%
6	2.3E-01	1.127	0.415	2.1E-01	1.174	0.433	-0.415	0.0174	0.0174	0.474 50.1%
6.5	2.1E-01	1.192	0.439	2.0E-01	1.240	0.457	-0.439	0.0177	0.0177	0.456 51.8%
7	1.9E-01	1.252	0.461	1.8E-01	1.301	0.479	-0.461	0.0180	0.0180	0.439 53.2%
7.5	1.8E-01	1.309	0.482	1.7E-01	1.359	0.501	-0.482	0.0182	0.0182	0.424 54.6%
8	1.7E-01	1.364	0.502	1.6E-01	1.414	0.521	-0.502	0.0184	0.0184	0.411 55.8%
8.5	1.6E-01	1.415	0.521	1.5E-01	1.466	0.540	-0.521	0.0186	0.0186	0.399 56.9%
9	1.5E-01	1.464	0.539	1.4E-01	1.515	0.558	-0.539	0.0187	0.0187	0.387 58.0%
9.5	1.4E-01	1.511	0.557	1.3E-01	1.562	0.576	-0.557	0.0189	0.0189	0.377 59.0%
10	1.4E-01	1.556	0.573	1.3E-01	1.607	0.592	-0.573	0.0190	0.0190	0.367 59.9%
10.5	1.3E-01	1.598	0.589	1.2E-01	1.650	0.608	-0.589	0.0191	0.0191	0.359 60.7%
11	1.2E-01	1.639	0.604	1.2E-01	1.692	0.623	-0.604	0.0192	0.0192	0.350 61.5%
11.5	1.2E-01	1.679	0.618	1.1E-01	1.731	0.638	-0.618	0.0193	0.0193	0.343 62.3%
12	1.1E-01	1.717	0.632	1.1E-01	1.769	0.652	-0.632	0.0194	0.0194	0.335 63.0%
12.5	1.1E-01	1.753	0.646	1.0E-01	1.806	0.665	-0.646	0.0195	0.0195	0.329 63.6%
13	1.0E-01	1.788	0.659	9.8E-02	1.842	0.679	-0.659	0.0196	0.0196	0.322 64.2%
13.5	1.0E-01	1.823	0.671	9.4E-02	1.876	0.691	-0.671	0.0197	0.0197	0.316 64.8%
14	9.6E-02	1.856	0.684	9.1E-02	1.909	0.703	-0.684	0.0197	0.0197	0.311 65.4%
14.5	9.3E-02	1.887	0.695	8.8E-02	1.941	0.715	-0.695	0.0198	0.0198	0.305 66.0%
15	9.0E-02	1.918	0.707	8.5E-02	1.972	0.727	-0.707	0.0199	0.0199	0.300 66.5%
15.5	8.7E-02	1.948	0.718	8.2E-02	2.002	0.738	-0.718	0.0199	0.0199	0.295 67.0%
16	8.4E-02	1.978	0.729	8.0E-02	2.032	0.749	-0.729	0.0200	0.0200	0.291 67.4%
16.5	8.2E-02	2.006	0.739	7.7E-02	2.060	0.759	-0.739	0.0200	0.0200	0.286 67.9%
17	7.9E-02	2.033	0.749	7.5E-02	2.088	0.769	-0.749	0.0201	0.0201	0.282 68.3%
17.5	7.7E-02	2.060	0.759	7.3E-02	2.115	0.779	-0.759	0.0201	0.0201	0.278 68.7%
18	7.5E-02	2.086	0.769	7.1E-02	2.141	0.789	-0.769	0.0202	0.0202	0.274 69.1%
18.5	7.3E-02	2.112	0.778	6.9E-02	2.167	0.798	-0.778	0.0202	0.0202	0.270 69.5%
19	7.1E-02	2.137	0.787	6.7E-02	2.191	0.807	-0.787	0.0202	0.0202	0.267 69.9%
19.5	6.9E-02	2.161	0.796	6.5E-02	2.216	0.816	-0.796	0.0203	0.0203	0.263 70.2%
20	6.8E-02	2.184	0.805	6.4E-02	2.240	0.825	-0.805	0.0203	0.0203	0.260 70.6%
20.5	6.6E-02	2.208	0.813	6.2E-02	2.263	0.834	-0.813	0.0203	0.0203	0.257 70.9%
21	6.4E-02	2.230	0.822	6.1E-02	2.285	0.842	-0.822	0.0204	0.0204	0.254 71.2%
21.5	6.3E-02	2.252	0.830	5.9E-02	2.308	0.850	-0.830	0.0204	0.0204	0.251 71.5%
22	6.1E-02	2.274	0.838	5.8E-02	2.329	0.858	-0.838	0.0204	0.0204	0.248 71.8%
22.5	6.0E-02	2.295	0.846	5.7E-02	2.350	0.866	-0.846	0.0204	0.0204	0.245 72.1%
23	5.9E-02	2.316	0.853	5.5E-02	2.371	0.874	-0.853	0.0205	0.0205	0.242 72.4%
23.5	5.7E-02	2.336	0.861	5.4E-02	2.392	0.881	-0.861	0.0205	0.0205	0.240 72.7%
24	5.6E-02	2.356	0.868	5.3E-02	2.412	0.888	-0.868	0.0205	0.0205	0.237 72.9%

Timing of Influence on Big Wood River by Grosser and Heublein Well Pumping



Transmissivity Estimation with Partial Penetration

Bradbury and Rothschild (1985) specific capacity method.

Suitable for situations where a single time and drawdown measurement is available.

Includes effects of partial penetration using Sternberg (1973) approach.

Enter data in **blue**, pay attention to units.

Dale Donnley Well Log, SESE Section 5 T.02N R.18E.

Well pumping rate	40 [gpm]
Drawdown	25 [ft]
Time	120 [minutes]
Well radius	3 [inches]
Storativity	0.15 [unitless]
Aquifer thickness	43 [ft]
Open interval	1 [ft]

Calculations:

Specific capacity	1.6 [gpm/ft]
L/b	0.023256
G	2.7829
sp	99.31299

Trial T	5151.56 [ft ² /d]	<--- Vary Trial T until about equal to Calc T
Calc T	5151.56 [ft ² /d]	
Calc K	119.80 [ft/d]	

Estimation of Timing of Aquifer-Stream Interaction

PROJECT: Grosser and Heublein Well Hypothetical pumping of 3.9 Ac. Portion of BWR WR 37-22998

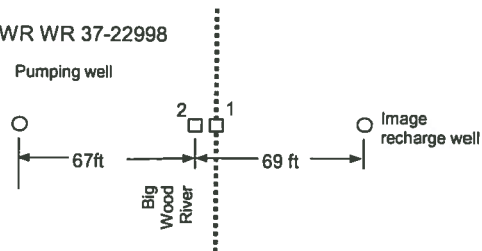
Brockway Engineering, PLLC 3/30/18

Dale Donnley Well Data

Hydraulic conductivity: 119.8 ft/day
 Aquifer saturated thickness: 43 feet
 Transmissivity: 5,152 ft²/d
 Storage coefficient: 0.15
 Pumping rate: 76.3 gpm = 14689 ft³/d
 Pumping time: 24 hrs

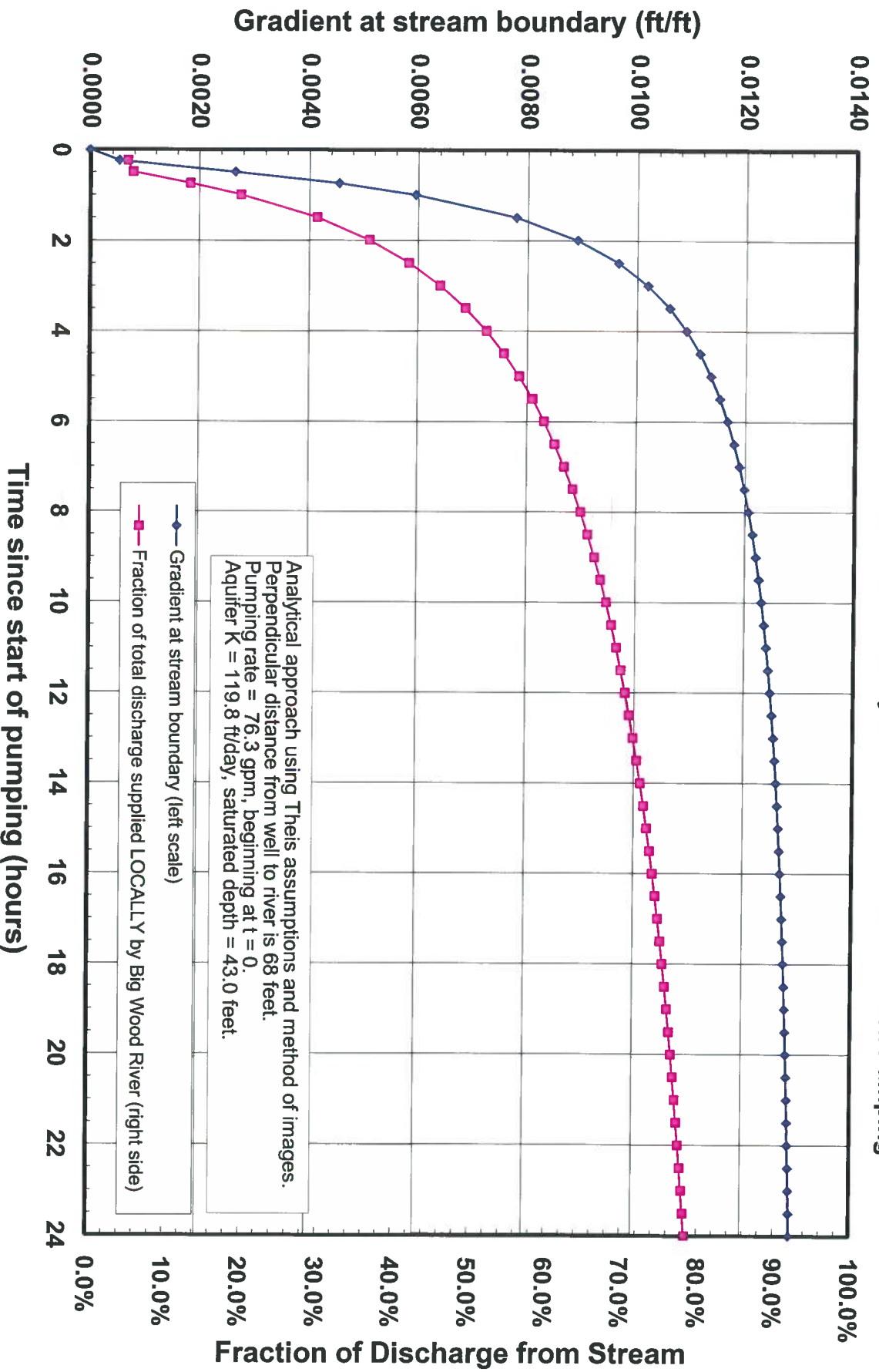
These assumptions apply.

Method of images used to estimate
 gw gradient at stream boundary.



Time (hrs)	IMAGE WELL R = 69 feet			PUMPING WELL R = 67 feet			IMAGE WELL R = 69 feet		RESULTANT using R = 62' (pumping) and R = 66' (image)		Portion of total discharge supplied by the stream (after Glover and Balmer, 1954)	
	u	W(u)	z (feet)	u	W(u)	z (feet)	z (feet)	Gradient at river	x'	Qs / Q		
0	—	—	0.000	—	—	0.000	0.000	0.0000	0.0000			
0.25	3.3E+00	0.009	0.002	3.1E+00	0.011	0.002	-0.002	0.0005	0.0005	1.824	4.9%	
0.5	1.7E+00	0.079	0.018	1.6E+00	0.090	0.021	-0.018	0.0027	0.0027	1.290	5.6%	
0.75	1.1E+00	0.183	0.042	1.0E+00	0.203	0.046	-0.042	0.0045	0.0045	1.053	13.1%	
1	8.3E-01	0.293	0.067	7.8E-01	0.320	0.073	-0.067	0.0060	0.0060	0.912	19.7%	
1.5	5.5E-01	0.499	0.113	5.2E-01	0.533	0.121	-0.113	0.0078	0.0078	0.745	29.5%	
2	4.2E-01	0.676	0.154	3.9E-01	0.716	0.162	-0.154	0.0089	0.0089	0.645	36.5%	
2.5	3.3E-01	0.830	0.188	3.1E-01	0.873	0.198	-0.188	0.0097	0.0097	0.577	41.7%	
3	2.8E-01	0.965	0.219	2.6E-01	1.010	0.229	-0.219	0.0102	0.0102	0.527	45.7%	
3.5	2.4E-01	1.084	0.246	2.2E-01	1.131	0.257	-0.246	0.0106	0.0106	0.487	49.0%	
4	2.1E-01	1.191	0.270	2.0E-01	1.239	0.281	-0.270	0.0109	0.0109	0.456	51.7%	
4.5	1.8E-01	1.288	0.292	1.7E-01	1.337	0.303	-0.292	0.0112	0.0112	0.430	54.1%	
5	1.7E-01	1.376	0.312	1.6E-01	1.426	0.324	-0.312	0.0114	0.0114	0.408	56.1%	
5.5	1.5E-01	1.457	0.331	1.4E-01	1.508	0.342	-0.331	0.0115	0.0115	0.389	57.8%	
6	1.4E-01	1.533	0.348	1.3E-01	1.584	0.359	-0.348	0.0117	0.0117	0.372	59.4%	
6.5	1.3E-01	1.603	0.364	1.2E-01	1.655	0.375	-0.364	0.0118	0.0118	0.358	60.8%	
7	1.2E-01	1.668	0.379	1.1E-01	1.721	0.390	-0.379	0.0119	0.0119	0.345	62.1%	
7.5	1.1E-01	1.730	0.393	1.0E-01	1.783	0.404	-0.393	0.0120	0.0120	0.333	63.2%	
8	1.0E-01	1.788	0.406	9.8E-02	1.841	0.418	-0.406	0.0121	0.0121	0.322	64.2%	
8.5	9.8E-02	1.843	0.418	9.2E-02	1.896	0.430	-0.418	0.0121	0.0121	0.313	65.2%	
9	9.2E-02	1.895	0.430	8.7E-02	1.948	0.442	-0.430	0.0122	0.0122	0.304	66.1%	
9.5	8.8E-02	1.944	0.441	8.3E-02	1.998	0.453	-0.441	0.0123	0.0123	0.296	66.9%	
10	8.3E-02	1.991	0.452	7.8E-02	2.045	0.464	-0.452	0.0123	0.0123	0.288	67.6%	
10.5	7.9E-02	2.036	0.462	7.5E-02	2.091	0.474	-0.462	0.0124	0.0124	0.281	68.4%	
11	7.6E-02	2.079	0.472	7.1E-02	2.134	0.484	-0.472	0.0124	0.0124	0.275	69.0%	
11.5	7.2E-02	2.120	0.481	6.8E-02	2.175	0.494	-0.481	0.0124	0.0124	0.269	69.6%	
12	6.9E-02	2.160	0.490	6.5E-02	2.215	0.503	-0.490	0.0125	0.0125	0.263	70.2%	
12.5	6.7E-02	2.198	0.499	6.3E-02	2.253	0.511	-0.499	0.0125	0.0125	0.258	70.8%	
13	6.4E-02	2.235	0.507	6.0E-02	2.290	0.520	-0.507	0.0125	0.0125	0.253	71.3%	
13.5	6.2E-02	2.270	0.515	5.8E-02	2.326	0.528	-0.515	0.0126	0.0126	0.248	71.8%	
14	5.9E-02	2.305	0.523	5.6E-02	2.360	0.536	-0.523	0.0126	0.0126	0.244	72.3%	
14.5	5.7E-02	2.338	0.530	5.4E-02	2.393	0.543	-0.530	0.0126	0.0126	0.240	72.7%	
15	5.5E-02	2.370	0.538	5.2E-02	2.425	0.550	-0.538	0.0126	0.0126	0.235	73.1%	
15.5	5.4E-02	2.401	0.545	5.1E-02	2.457	0.557	-0.545	0.0127	0.0127	0.232	73.5%	
16	5.2E-02	2.431	0.552	4.9E-02	2.487	0.564	-0.552	0.0127	0.0127	0.228	73.9%	
16.5	5.0E-02	2.460	0.558	4.8E-02	2.516	0.571	-0.558	0.0127	0.0127	0.225	74.3%	
17	4.9E-02	2.489	0.565	4.6E-02	2.545	0.577	-0.565	0.0127	0.0127	0.221	74.7%	
17.5	4.8E-02	2.516	0.571	4.5E-02	2.572	0.584	-0.571	0.0127	0.0127	0.218	75.0%	
18	4.6E-02	2.543	0.577	4.4E-02	2.599	0.590	-0.577	0.0128	0.0128	0.215	75.3%	
18.5	4.5E-02	2.569	0.583	4.2E-02	2.626	0.596	-0.583	0.0128	0.0128	0.212	75.6%	
19	4.4E-02	2.595	0.589	4.1E-02	2.651	0.602	-0.589	0.0128	0.0128	0.209	75.9%	
19.5	4.3E-02	2.620	0.594	4.0E-02	2.676	0.607	-0.594	0.0128	0.0128	0.207	76.2%	
20	4.2E-02	2.644	0.600	3.9E-02	2.700	0.613	-0.600	0.0128	0.0128	0.204	76.5%	
20.5	4.1E-02	2.668	0.605	3.8E-02	2.724	0.618	-0.605	0.0128	0.0128	0.201	76.8%	
21	4.0E-02	2.691	0.611	3.7E-02	2.747	0.623	-0.611	0.0128	0.0128	0.199	77.0%	
21.5	3.9E-02	2.713	0.616	3.6E-02	2.770	0.629	-0.616	0.0129	0.0129	0.197	77.3%	
22	3.8E-02	2.735	0.621	3.6E-02	2.792	0.634	-0.621	0.0129	0.0129	0.194	77.5%	
22.5	3.7E-02	2.757	0.626	3.5E-02	2.814	0.638	-0.626	0.0129	0.0129	0.192	77.8%	
23	3.6E-02	2.778	0.630	3.4E-02	2.835	0.643	-0.630	0.0129	0.0129	0.190	78.0%	
23.5	3.5E-02	2.799	0.635	3.3E-02	2.856	0.648	-0.635	0.0129	0.0129	0.188	78.2%	
24	3.5E-02	2.819	0.640	3.3E-02	2.876	0.653	-0.640	0.0129	0.0129	0.186	78.4%	

Timing of Influence on Big Wood River by Grosser and Heublein Well Pumping





0 30 60 120 Feet

ADAM GROSSER & LYNN HEUBLEIN

TRANSFER MAP FOR 37-22998

BROCKWAY ENGINEERING, PLLC.
ICB - Date: 3/30/2018

NAIP 2017 AERIAL

TRANSFER 82269

● POD
■ POU
□ Parcel





State of Idaho

DEPARTMENT OF WATER RESOURCES

SOUTHERN REGION • 650 ADDISON AVE W STE 500 • TWIN FALLS ID 83301-5858

Phone: (208) 736-3033 • Fax: (208) 736-3037 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

April 12, 2018

ADAM GROSSER
LYNN HEUBLEIN
2020 PIONEER CT
SAN MATEO, CA 94403

RE: Transfer No. 82269
Water Right No(s). 37-22998

Dear Applicant(s):

The Department of Water Resources has received your water right transfer application. Please refer to the transfer number referenced above in all future correspondence regarding this transfer.

A legal notice of the application has been prepared and is scheduled for publication in the **IDAHO MOUNTAIN EXPRESS on 4/18/2018 and 4/25/2018**. Protests to this application may be submitted for a period ending ten (10) days after the second publication. Any protest against this application must be filed with the Department of Water Resources, together with a protest fee of \$25.00 for each application, on or before **May 7, 2018**.

If the application is protested, you will be sent a copy of each protest. All protests must be resolved before the application can be considered for approval. If the protest(s) cannot be resolved voluntarily, the Department will conduct a conference and/or hearing on the matter.

If the application is not protested, the Department will process your application and notify you of any action taken on the application. If your application is approved, the Department will send you a copy of the approval document.

Please contact this office if you have any questions regarding the application.

Sincerely,

Denise Maline
Administrative Assistant

cc: BROCKWAY ENGINEERING PLLC

Maline, Denise

From: Maline, Denise
Sent: Thursday, April 12, 2018 12:14 PM
To: Kevin Lakey (WD 37); Cyndi WD37
Subject: Comment letter for transfer 82269 (Grosser & Heublein)
Attachments: Transfer 82269 Grosser & Heublein.pdf; Comment letter to WD37 for 82269.docx

Good afternoon,

Attached is an application for transfer currently being processed within your district. Please review the information and provide any necessary comments within 21 days.

Thank you in advance,

Denise @ IDWR

Denise Maline
Administrative Assistant
Idaho Dept of Water Resources, Southern Region
650 Addison Ave W, Ste 500
Twin Falls, ID 83301
(208) 736-3033
[*denise.maline@idwr.idaho.gov*](mailto:denise.maline@idwr.idaho.gov)



State of Idaho

DEPARTMENT OF WATER RESOURCES

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C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

April 12, 2018

WATER DISTRICT #37
KEVIN LAKEY
107 W 1ST ST
SHOSHONE ID 83352

via e-mail

RE: Transfer No. 82269
Water Right No(s): 37-22998

Dear Kevin:

A copy of the above referenced application is enclosed. Please review the application, then complete the enclosed recommendation form as necessary, and return it to this office within 21 days of the date of this letter.

If the application is approved, IDWR will include appropriate standard conditions of approval for a water right located within a water district, such as regulation by the water master, lockable controlling works, and/or measuring devices. Any special conditions or other concerns you have related to this application should be specifically addressed in your recommendation.

IDWR's regional offices can finish reviewing an unprotested application as soon as the protest period has past. Your prompt response to this request will ensure that your recommendation can be considered. If IDWR has not received your written recommendation within 21 days from the date of this letter, IDWR will presume that you do not oppose approval of the application and that you have no comments for IDWR to consider.

Sincerely,

Denise Maline
Administrative Assistant

Enclosure(s)

Maline, Denise

From: Maline, Denise
Sent: Thursday, April 12, 2018 11:47 AM
To: Idaho Mountain Express
Subject: LEGAL NOTICE
Attachments: Idaho Mtn Express cover letter.docx; Idaho Mtn Express ad.doc

Attached please find (1) legal notice being submitted for publication on April 18th & 25th, 2018. Please let me know if there are any questions or if you are not able to run the ad on the dates requested.

Thank you in advance,

Denise

Denise Maline

Administrative Assistant

Idaho Dept of Water Resources, Southern Region

650 Addison Ave W, Ste 500

Twin Falls, ID 83301

(208) 736-3033

denise.maline@idwr.idaho.gov



State of Idaho

DEPARTMENT OF WATER RESOURCES

SOUTHERN REGION • 650 ADDISON AVE W STE 500 • TWIN FALLS ID 83301-5858

Phone: (208) 736-3033 • Fax: (208) 736-3037 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

April 12, 2018

LEGAL NOTICE DEPARTMENT

IDAHO MOUNTAIN EXPRESS

PO BOX 1013

KETCHUM, ID 83340

RE: Application For Permit No.(s): 37-23102

RE: Transfer No. 82269
Water Right No(s): 37-22998

Dear Legal Notice Department:

Please publish the enclosed legal notice on the dates indicated (once a week for two consecutive weekly issues). If you cannot publish the notice on the proposed dates, please contact us immediately.

An affidavit of publication must be submitted to the Department along with the publication bill. Please send the affidavit and bill to this office before May 7, 2018. Your cooperation is appreciated.

Sincerely,

Denise Maline
Administrative Assistant

Enclosure(s)

The following application(s) have been filed to appropriate the public waters of the State of Idaho:

37-23102

BLAINE COUNTY SCHOOL DISTRICT #61

118 W BULLION ST

HAILEY, ID 83333

Point of Diversion NWNE S27 T01S R21E BLAINE County Source GROUND WATER Tributary

Use: IRRIGATION 04/15 to 10/31 0.38 CFS

Total Diversion: 0.38 CFS

Date Filed: 2/20/2018

Place Of Use: IRRIGATION

T01S R21E S27 NE (ALL)

Total Acres: 4.8

Application for permit proposes to divert 0.38 cfs from an existing well for supplemental irrigation of 4.8 acres at Carey School. The requested rate per acre would allow irrigation to occur in a shorter period of time when the sports fields and school grounds are not being used. The application includes a mitigation plan proposing to cease diverting water under supplemental ground water right 37-22205. The point of diversion and place of use are located in the northeast portion of the City of Carey.

**NOTICE OF PROPOSED CHANGE OF WATER RIGHT
TRANSFER NO. 82269**

ADAM GROSSER and LYNN HEUBLEIN, 2020 PIONEER CT, SAN MATEO, CA 94403; has filed Application No. 82269 for changes to the following water rights within BLAINE County(s): Right No(s). 37-22998. The purpose of the transfer is to change a portion of the above rights as follows: Application proposes changing the points of diversion (PODs) for a 0.17 cfs and 3.9 acre Big Wood River irrigation right. Current PODs are located approximately 1.2 miles north and 0.7 miles west and 1.0 mile north and 0.9 miles west of Hailey. The transfer proposes moving the POD to an existing well at the authorized place of use that is near the Big Wood River and located approximately 0.5 miles downstream of the current PODs. An analysis of hydraulic connectivity between the well and the Big Wood River is provided with the application. Proposed POD is located approximately 0.7 miles north and 0.6 miles west of the intersection of Hwy 75 and Bullion St. in Hailey. No changes are proposed to the place of use.

Permits will be subject to all prior water rights. For additional information concerning the property locations, contact Southern Region office at (208) 736-3033; or for a full description of the rights &/or proposed transfer, please see www.idwr.idaho.gov/apps/wr/QueryNewTransfers/QueryNewTransfers.aspx . For additional information on new permits, please see www.idwr.idaho.gov/WaterManagement/WaterRights/#NewListings. Protests may be submitted based on the criteria of Sec 42-222 and 42-203A, Idaho Code. Any protest against the approval of this application(s) must be filed with the Director, Dept. of Water Resources, Southern Region, 650 ADDISON AVE W, STE 500, TWIN FALLS, ID 83301-5858 together with a protest fee of \$25.00 for each application on or before **May 7, 2018**. The protestant must also send a copy of the protest to the applicant.

GARY SPACKMAN, Director

Published on April 18th & 25th, 2018

MEMORANDUM

Date: April 10, 2018
To: Transfer 82269
From: Bill Mills
Re: Fee Evaluation

Filing fees charged for transfer application #82269 were based on the on the current transfer fee schedule and included \$200.00 for the 0.17 cfs being transferred in the application. (Receipt No.S036670).

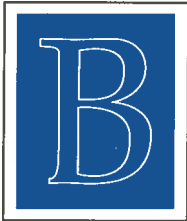
MEMORANDUM

Date: April 5, 2018
To: Transfer 82269
From: William Mills
Re: Transfer Proposal

Application proposes changing the points of diversion (POD) for 0.170 cfs and 3.9 acre Big Wood River irrigation right, 37-22998, from its current PODs located approximately 1.2 miles north and 0.7 miles west and 1.0 mile north and 0.9 miles west of the intersection of Hwy 75 and Bullion St. in Hailey. Transfer application proposes moving the water right to an existing well located 0.5 miles downstream along the Big Wood River approximately 0.7 miles north and 0.6 miles west of the intersection of Hwy 75 and Bullion St. in Hailey.

Hydrologic analysis was included that indicates there is hydrologic connection between the well and the Big Wood River and would result in at least a 50% reduction of the original source (Big Wood River) within a 6.0 hour period from pumping the well and a 72.9% reduction of the original source within a 24 hour period. Department guidelines require at least a 50% reduction in less than a 24 hour period.

Overlap analysis indicates there are no other water rights utilized within the 3.9 acre place of use for this water right. Point of diversion and place of use are located in Water District 37 and Watermaster comments will be solicited.



BROCKWAY
ENGINEERING
P.L.L.C.

Hydraulics

Hydrology

Water Resources

RECEIVED

APR 02 2018

DEPT. OF WATER RESOURCES
SOUTHERN REGION

April 2nd, 2018

Mr. Corey Skinner
Idaho Department of Water Resources
650 Addison Ave W, Ste 500.
Twin Falls, ID 83301-3380

RE: Grosser and Heublein Surface Water Right Transfer Application.

Dear Corey,

Enclosed is a water right transfer application in the name of Adam Grosser and Lynn Heublein (Applicant) involving a surface water right on their property north of Hailey, ID. The Applicant seeks to change the point of diversion and change the source associated with existing Big Wood River water right 37-22998. Changes to delivery ditches on lands owned by others has precluded delivery of 37-22998 to the Applicant's property from the existing points of diversion associated with the water right. The Applicant therefore proposes to divert 37-22998 from an existing domestic well on the Applicant's property approximately 68 feet from the Big Wood River. The attached two stream depletion analyses show approximately 73% and 78% of the applicants pumping originates from the Big Wood River within a twenty-four hour period which meets IDWR's Transfer Processing Memo 24 50% in 24 hours criteria for a change in source. Based on these analyses, the transfer is approvable.

Please copy our office and Brockway Engineering on all correspondence regarding this water right transfer application. Also included is a check for \$200.00 to cover the cost of the water right transfer application. Don't hesitate to give me a call should you have any further questions or comments. Thanks for your time and assistance on this matter.

Regards

Zach Latham, M.S., Hydrologist.

Enclosures: (1) Water Right Transfer Application and Associated Map.
(2) Stream Depletion Analyses, Narrative and Results.
(1) Brockway Engineering Check # 14613.

Cc: Mr. Adam Grosser
Ms. Lynn Heublein
Jim Speck

CHARLES E.
BROCKWAY,
PH.D., P.E.

CHARLES G.
BROCKWAY,
PH.D., P.E.

2016 NORTH
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