

RECEIVED

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCESTransfer No. 80038

MAY 14 2015

MINIMUM REQUIREMENTS CHECKLIST
TO BE SUBMITTED WITH APPLICATION FOR TRANSFERDEPT OF WATER RESOURCES
SOUTHERN REGION

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) Darrell M. Funk and/or Patricia M. FunkCheck 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 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: _____

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

**APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1**

RECEIVED
MAY 14 2015
DEPT OF WATER RESOURCES
SOUTHERN REGION

Name of Applicant(s) Darrell M. Funk and/or Patricia M. Funk Phone 208-436-9888
Mailing address 3173 North 4900 East; Murtaugh, Idaho 83344 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 Representative

Name of Representative Erick Powell Phone 208-736-8543
Mailing address 2016 Washington Street North #4; Twin Falls, Idaho 83301 Email erick.powell@brockwayeng.co

- ☐ 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.

Darrell Funk
Signature of Applicant or Authorized Representative

Darrell Funk
Print Name and Title if applicable

May 14-15
Date

Signature of Applicant or Authorized Representative

Print Name and Title if applicable

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**.

Convert irrigation water right to stockwater and commercial water right for a new dairy facility. Evaluation of commercial and stockwater use is provided on subsequent pages and illustrate the quantity of water necessary.

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.	<u>Right Number</u>	<u>Amount</u> (cfs/ac-ft)	<u>Nature of Use</u>	<u>Period of Use</u>	<u>Source & Tributary</u>
All or Part ☐ ☒	45-14464(pt)	0.29/97.3	Stockwater/Commercial	1/1 to 12/31	Groundwater
☐ ☒	45-14464(pt)	1.71/460.4	Irrigation	3/15 to 11/15	Groundwater
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	

Total authorized under rights 2.00 cfs and/or 557.7 acre-feet.

2. Total amount of water proposed to be transferred or changed 0.29 cubic feet per second and/or 97.3 acre-feet per year.

3. Point(s) of Diversion: Stock/Com PODs shown below

- ☐ 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 #
X		SW	NW	SE	6	12S	20E	Cassia	Groundwater	Primary Dairy Well
X	4		SW	SW	31	11S	20E	Twin Falls	Groundwater	Backup Dairy 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		
12S	20E	6									S/C	S/C								
11S	19E	36								10	*					10	*	9.4	19.4	
12S	19E	1				1													1	
12S	20E	6						8	0.7	7.7	9.2	64.7						4.4	94.7	
Irrigation Place of use is shown for reference only																			Total Acres (for irrigation use)	115.1

* Typo see email dated 5/20/2015

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:

Dairy will be served by a primary well with an identified backup well. The wells will be fitted with an approved IDWR measuring device and have standard controlling works.

- 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:

- 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. 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:

The new dairy will occupy some of the land that will be dried up for this transfer. The accompanying transfer will move other irrigation rights on the remaining are that is dried up under this transfer.

- 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:

This water right is a primary water right, and no other water rights have the same place of use. There are several groundwater irrigation rights that share the irrigation PODs. No other water rights will share the new dairy PODs.

- 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:

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

Current Water Right No.: 45-14464

Current Owner: DARRELL M FUNK
PATRICIA M FUNK

Priority Date: 10/25/1948

Origin: Water Right

Status: Active

Basis: Decreed

Source

Tributary

GROUND WATER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Annual Volume</u>
IRRIGATION	03/15 to 11/15	2 CFS	586 AF
	<u>Total Diversion</u>	2 CFS	586 AF

Location of Point(s) of Diversion

GROUND WATER	L3(SW1/4NW1/4SW1/4)	Sec. 31, Twp 11S, Rge 20E B.M.
TWIN FALLS County		
GROUND WATER	SW1/4SW1/4SE1/4	Sec. 36, Twp 11S, Rge 19E B.M.
TWIN FALLS County		
GROUND WATER	L4(SE1/4NW1/4NW1/4)	Sec. 6, Twp 12S, Rge 20E B.M.
CASSIA County		
GROUND WATER	L5(SW1/4SW1/4NW1/4)	Sec. 6, Twp 12S, Rge 20E B.M.
CASSIA County		

Place of Use

IRRIGATION Within TWIN FALLS County

T11S R19E S36	NWSE	10.00	T11S R19E S36	SWSE	9.40
T12S R19E S1	SENE	1.00	T12S R20E S6	Lot 4	NWNW 8.00
T12S R20E S6	Lot 5	SWNW 0.70	T12S R20E S6		SENE 9.70
T12S R20E S6	NESW	20.00	T12S R20E S6	Lot 6	NWSW 77.00
T12S R20E S6	NWSE	6.30	T12S R20E S6		SESE 4.40

Total Acres: 146.5

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 diversions.
2. T07 The right holder shall accomplish the change authorized by this transfer within one year of the date of this approval.
3. 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.
4. 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.
5. This right may be combined with Dry Creek surface water rights 45-487C and 45-488A on 19.4 acres in the NWSE and SWSE of Sec. 36, Twp 11S, Rge 19E. If this right is combined with surface water rights, the right holder shall make full beneficial use of all surface water rights available to the right holder for irrigation of the lands authorized to be irrigated under this right. The right holder shall limit the diversion of ground water under this right to those times when the surface water supply is not available or the surface water supply is not reasonably sufficient to irrigate the place of use authorized under this right.
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. 140.
7. X35 Rights 45-487C, 45-488A and 45-14464 when combined shall not exceed the irrigation of 789.1 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.

Decreed Date: 6/1/2010

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR TRANSFER OF WATER RIGHT PART 3

A. PLAT MAP (See Part 3A of Instructions for application for transfer for complete requirements.)

- ☒ Attach a map of the diversion, measurement, control, and distribution system. Label it **Attachment #7a**.
- ☒ 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. Label it **Attachment #7b**.

If the place of use currently consists of a permissible place of use, then the attachment is not required if the application contains a clear statement that the boundaries for the place of use are not proposed to be changed by the transfer and the total number of irrigated acres within the place of use before and after the transfer is clearly stated.

If any part of the irrigation water right is leased to the Water Supply Bank, you must also specify the location and number of acres that will remain idled for the duration of the lease contract at the new, proposed place of use.

B. CHANGES IN NATURE OF USE (Water Balance)

- ☒ If you propose to change the nature of use or period of use of all or part of the right(s) listed in this application, attach documentation describing the extent of historic beneficial use of the portion of the right(s) proposed to be changed. Also attach documentation showing that the portion of the right(s) to be changed will not be enlarged in rate, volume, or consumptive use through the proposed change. Label it **Attachment #8a**.

C. PLACE OF USE CHANGES TO SUPPLEMENTAL IRRIGATION RIGHTS

- ☐ If you propose to change the place of use of a supplemental irrigation right, answer below and attach supporting documentation. Label it **Attachment #8b**.

Describe how the supplemental water rights have been used historically in conjunction with other water rights at the existing place of use. Describe the time during the irrigation season that the supplemental rights have been used. Include information about the availability or reliability of the primary right(s) being supplemented, both before and after the change. If the applicant is proposing to change a supplemental irrigation right to a primary right, provide the information required on Part 3B above:

[illegible]

FOR DEPARTMENT USE ONLY

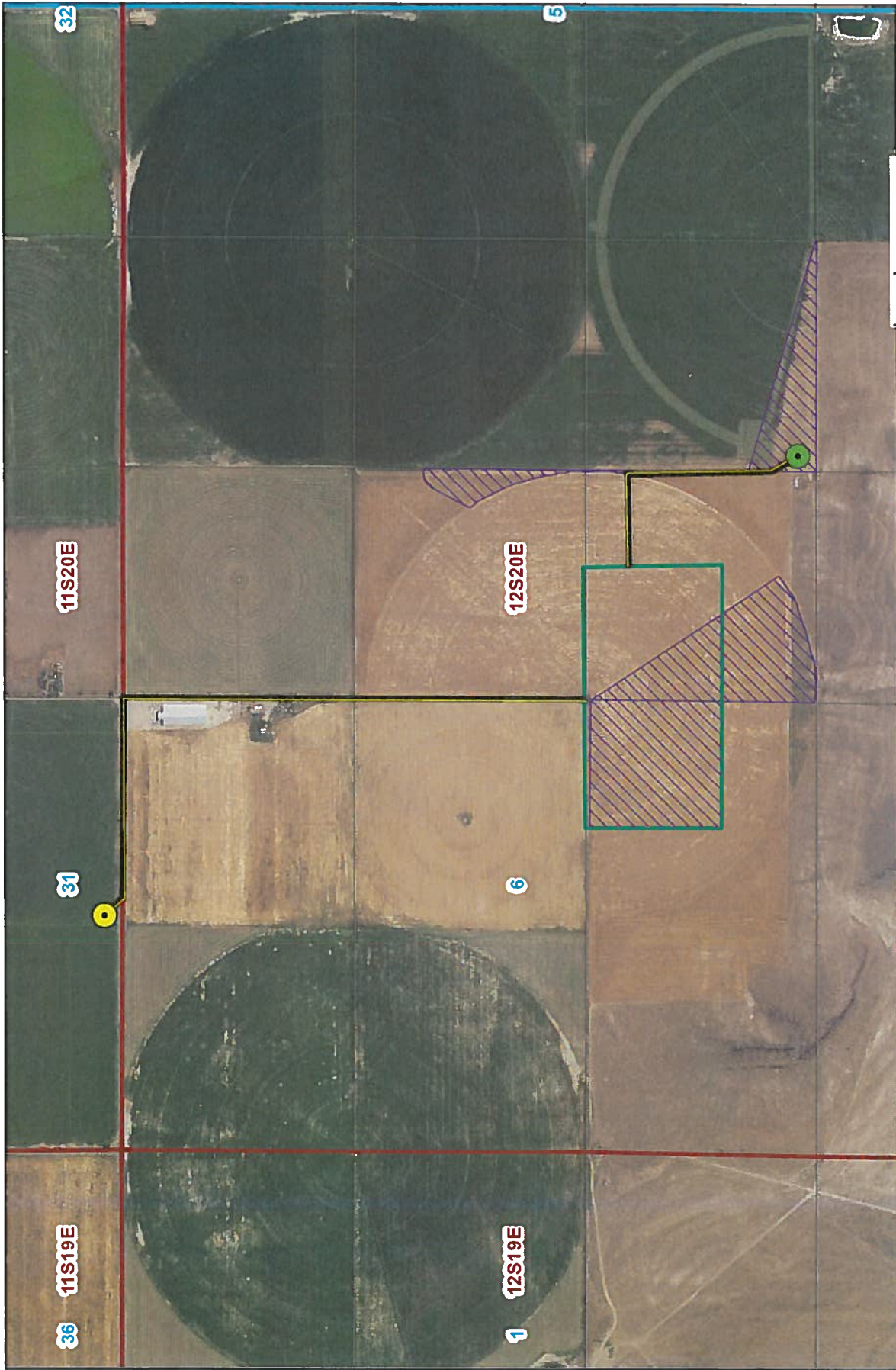
Transfer contains 8 pages and 9 attachments.

Received by TF/DM Date 4-24-2015 Preliminary check by _____ Date _____

Fee paid \$450- Date 4-24-2015 Received by DM Receipt # S034714

Add'l fee paid \$300- Date 4-27-2015 Received by DM Receipt # 5034724

Check all that apply: Attachment WSB ☐ (copy sent to state office) Lessor Designation form ☐ &/or W-9 ☐ (originals to state office)



**DARRELL M. FUNK
WATER RIGHT TRANSFER
NAIP 2013 AERIAL PHOTO**

BROCKWAY ENGINEERING, PLLC.
GEP - Date: 5/13/2015

DAIRIES: WATER USE WORKSHEET

REQUIRED DAIRY DATA

NUMBER OF MILKING CATTLE -----	2200
NUMBER OF DRY CATTLE -----	0
NUMBER OF REPLACEMENT CATTLE: 0-2 MONTHS -----	0
3-4 MONTHS -----	0
5-8 MONTHS -----	0
9-12 MONTHS -----	0
13-15 MONTHS -----	0
16-24 MONTHS -----	0
ENTER 1 FOR MANUAL COW WASHING, 2 FOR AUTOMATIC COW WASHING,	
OR 3 IF SPRINKLERS ARE USED TO FLUSH HOLDING PEN AND WASH COWS -----	3
IF SPRINKLERS ARE USED: NUMBER OF SPRINKLERS IN HOLDING PEN -----	125
NOZZLE DISCHARGE (USE 5.0 GPM IF UNKNOWN) -----	5.00
TOTAL OPERATION TIME OF SPRINKLERS (MIN/DAY) -----	20
NUMBER OF MILKINGS PER DAY -----	2
AVG. LBS. OF MILK PRODUCED PER DAY PER ANIMAL (IDAHO AVG IS 70 LBS.) -----	70
ARE THERE SEPARATE PUMPS FOR COMMERCIAL AND STOCKWATER USES? -----	N
IF SO: HOW MANY HOURS PER DAY DOES THE STOCKWATER PUMP RUN? -----	
HOW MANY HOURS PER DAY DOES THE COMMERCIAL PUMP RUN? -----	
IF ONLY ONE PUMP, HOW MANY TOTAL HOURS PER DAY DOES IT RUN? -----	12.0
IS A PLATE COOLER USED? -----	Y
IS PLATE COOLER WATER LATER RECYCLED FOR OTHER USES? (IF NO PLATE	
COOLER, LEAVE BLANK) -----	Y
ARE CORRAL MISTERS USED IN HOLDING PEN? -----	Y
IF USING CORRAL MISTERS: NUMBER OF MISTERS (IF UNKNOWN,	
ASSUME 1 MISTER FOR EVERY 5 COWS) -----	440
NOZZLE DISCHARGE (USE 5 GPH IF UNKNOWN) -----	5.00
SPRAY INTERVAL (EX - 2 MIN ON EVERY 5 MIN = 2/5) -----	2/5
OPERATION TIME OF MISTERS (HRS/DAY) -----	10
DAYS PER YEAR MISTERS ARE USED -----	45
ENTER A TOTAL VOLUME IN GPD FOR MISCELLANEOUS WATER USES NOT	
INDIVIDUALLY CALCULATED BELOW (EX. - RESTROOMS, WASHING MACHINES) -----	5500

CALCULATIONS

DIVERSION RATE (CFS):

STOCKWATER	
MILKING CATTLE (BASED ON MILK PRODUCTION) -----	****
DRY CATTLE @17.0 GPD/HD -----	****
REPLACEMENT CATTLE -----	****
TOTAL -----	0.29

COMMERCIAL	
TOTAL -----	0.29

TOTAL DIVERSION RATE -----	0.29
----------------------------	------

DIVERSION VOLUME (AFA):

STOCKWATER	
MILKING CATTLE -----	71.0
DRY CATTLE -----	0.0
REPLACEMENT CATTLE -----	0.0
TOTAL -----	71.0

COMMERCIAL	
WASHING OF BULK TANK AND RELATED EQUIPMENT -----	0.4
BACKFLUSH -----	2.5
PARLOR/MILKHOUSE/HOLDING PEN CLEANUP -----	2.0
CATTLE WASHING BASED UPON METHOD OF WASHING -----	14.0
PLATE COOLER -----	0.0
CORRAL MISTERS -----	1.2
MISCELLANEOUS USES -----	6.2
TOTAL -----	26.3

TOTAL DIVERSION VOLUME -----	97.3
------------------------------	------

CONSUMPTIVE USE VOLUME (AFA)(assuming 100% consumptive):

STOCKWATER -----	71.0
COMMERCIAL -----	26.3

TOTAL CONSUMPTIVE USE -----	97.3
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THEORETICAL FLOW ESTIMATION WORKSHEET

REQUIRED PUMP INFORMATION

	PUMP 1	PUMP 2	PUMP 3	PUMP 4	PUMP 5
PUMP HORSEPOWER (HP) -----	25.00		0.00	0.00	0.00
PUMP EFFICIENCY (%) -----	70		70	70	70
LIFT (FT) -----	230		0	0	0
DISCHARGE PRESSURE (PSI) -----	40		0	0	0
FRICTION LOSSES (FT) -----	3.0		0.0	0.0	0.0
HOURS PER DAY PUMP OPERATES -----	12.0		0.0	0.0	0.0

CALCULATIONS

THEORETICAL FLOW RATE (CFS) * -----	0.47	0.00	0.00	0.00	0.00
DIVERSION VOLUME (AFA) ** -----	171.3	0.0	0.0	0.0	0.0

* IF PUMP EFFICIENCY IS UNKNOWN, 70% MAY BE ASSUMED.

** DIVERSION VOLUME IS THE ABSOLUTE MAXIMUM VOLUME BASED ON THE
THEORETICAL FLOW RATE ASSUMING PUMP RUNS EVERY DAY OF THE YEAR.

EVALUATION OF EQUIVALENT IRRIGATED ACREAGE

IRRIGATION RIGHT (BEFORE CHANGE)

DIVERSION RATE -----	2.00 CFS
ACRES OF IRRIGATION -----	146.5 ACRES
DIVERSION VOLUME -----	4.0 AC-FT/AC
CONSUMPTIVE USE VOLUME -----	3.1 AC-FT/AC
IRRIGATION IS BEING CONVERTED FOR WHICH PORTION OF THE	
DAIRY OPERATION - STOCKWATER (S), COMMERCIAL (C), OR	
BOTH (B)? -----	B

CALCULATIONS

IRRIGATION DIVERSION RATE PER ACRE -----	0.014 CFS/AC
REDUCTION OF IRRIGATION BASED ON DIVERSION RATE -----	21.2 ACRES
REDUCTION OF IRRIGATION BASED ON DIVERSION VOLUME -----	24.3 ACRES
REDUCTION OF IRRIGATION BASED ON CONSUMPTIVE USE -----	31.4 ACRES

ET_{Idaho} 2012 -- Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho

Please send suggestions for improving this site to robison at kimberly dot uidaho dot edu Copyright 2012, University of Idaho.

Kimberly (ARS -- WSO/ARS)

Statistics based on thirty year normal spans 1966 to 1995 years

For a different land cover or crop click on the above link.

You can highlight this table and copy via the clipboard to a Microsoft Excel or OpenOffice spreadsheet to plot or otherwise work with this data.

Alfalfa - frequent cuttings															
Precipitation Deficit (Click here for a graph)															
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Growing Season ^a	Non Growing Season ^b	Annual
Mean ^j	mm/day												mm		
Monthly ^c	-0.20	0.05	0.27	2.55	5.04	4.94	5.93	5.32	4.19	2.35	-0.01	-0.19	943	-16	927
15-Day Moving Average ^d	-0.27	-0.07	0.20	2.60	5.11	4.55	5.53	4.89	4.24	2.43	-0.12	-0.19	943 mm = 3.09 ft		
7-Day Moving Average ^e	-0.23	-0.01	0.23	2.55	5.06	4.68	5.74	5.15	4.21	2.39	-0.12	-0.19			
3-Day Moving Average ^f	-0.21	0.04	0.26	2.55	5.04	4.86	5.89	5.29	4.21	2.36	-0.05	-0.20			
Standard Deviation ^k	mm/day												mm		
Monthly ^c	0.66	0.30	0.70	1.19	1.79	1.11	0.69	1.25	0.82	1.43	0.56	0.58	109	18	112
15-Day Moving Average ^d	0.81	0.52	0.69	1.38	1.63	1.73	1.34	1.75	1.40	1.28	0.89	0.60			
7-Day Moving Average ^e	1.09	0.81	0.99	1.80	2.30	2.42	2.12	2.40	1.94	1.64	1.33	0.85			
3-Day Moving Average ^f	1.48	1.12	1.47	2.32	2.96	2.92	2.46	2.77	2.43	2.07	1.85	1.29			
20% Exceedance ^l	mm/day												mm		
Monthly ^c	0.07	0.28	0.55	3.46	6.10	5.83	6.39	6.01	4.73	2.96	0.33	0.08	1028	0	994
15-Day Moving Average ^d	0.74	0.60	1.00	4.77	7.76	8.10	8.05	7.56	6.65	4.31	1.29	0.60			
7-Day Moving Average ^e	1.02	1.44	2.18	5.90	8.77	9.22	9.38	8.88	7.56	5.08	2.21	1.17			

3-Day Moving Average ^f	1.67	2.06	3.33	7.48	10.11	10.36	10.16	9.71	8.69	6.13	3.08	1.80			
80% Exceedance ^m	mm/day												mm		
Monthly ^c	-0.44	-0.08	-0.02	1.24	3.99	3.90	5.48	4.73	3.33	1.63	-0.32	-0.54	835	-36	816
15-Day Moving Average ^d	-1.32	-0.78	-0.72	0.00	2.18	2.44	3.61	2.49	2.31	0.71	-1.46	-1.34			
7-Day Moving Average ^e	-2.42	-1.87	-2.06	-0.99	0.71	0.70	2.07	1.14	0.52	-0.54	-2.93	-2.59			
3-Day Moving Average ^f	-5.90	-2.98	-4.11	-3.27	-5.04	-1.51	1.44	-0.46	-2.03	-3.07	-6.71	-5.64			
Ave Highest P _{def}	mm/day												--		
15-Day Moving Average ^g	0.41	0.39	0.87	3.58	6.50	6.38	7.33	6.87	5.51	3.34	0.77	0.34			
7-Day Moving Average ^h	0.74	1.01	1.67	4.63	7.63	7.92	8.66	8.21	6.71	4.08	1.58	0.74			
3-Day Moving Average ⁱ	1.24	1.58	2.54	5.83	9.02	9.45	9.45	9.04	7.72	5.07	2.30	1.24			
Ave Lowest P _{def}	mm/day												--		
15-Day Moving Average ^g	-0.79	-0.40	-0.38	1.52	3.65	3.01	4.02	3.37	2.87	1.53	-0.82	-0.70			
7-Day Moving Average ^h	-1.64	-1.01	-1.07	0.34	1.85	1.61	2.44	1.83	1.41	0.35	-1.85	-1.40			
3-Day Moving Average ⁱ	-3.48	-2.09	-2.54	-1.56	-0.71	0.04	1.75	0.60	-0.22	-1.57	-4.08	-2.85			
Special normal distribution parameters for monthly, seasonal, and annual intervals															
Skew ^m	-0.59	-1.70	0.45	-0.18	-0.29	-0.69	-0.13	-0.38	-0.34	0.33	-0.21	-0.30	0.50	-0.12	0.48
Kurtosis ^o	1.35	8.13	1.00	2.27	0.85	2.86	0.56	1.47	3.17	1.01	4.05	0.73	2.78	1.90	2.83

^a Growing Season: This is usually the time from green up or planting in the spring to a killing frost or harvest in the fall. It is not applicable for entries without a growing season and will be blank.

^b Nongrowing Season: This is usually the time from a killing frost or harvest in the fall to the of green up in the spring. It is not applicable for entries without a growing season.

^c Mean of the average daily value for month

^d Mean of the fourteen 15-day period averages contained in the month

^e Mean of the twenty three 7-day period averages contained in the month

^f Mean of the twenty seven 3-day period averages contained in the month

^g Mean of the highest/lowest 15-day period average in month

^h Mean of the highest/lowest 7-day period average in month

ⁱ Mean of the highest/lowest 3-day period average in month

^j This value represents the *mean value* for the parameter for the month over the 'normal' period of record. Generally, the 'normal' period is the last thirty years with data.

^k This value represents the *standard deviation* for the parameter for the month over the 'normal' period.

^l This value represents the *value* for the parameter that has a 20% chance of being exceeded that month during any particular year. Conversely, there is an 80% chance that the parameter value will be less than the *value* shown.

^m This value represents the *value* for the parameter that has a 80% chance of being exceeded that month during any particular year. Conversely, there is an 20% chance that the parameter value will be less than the *value* shown.

ⁿ This value represents the *skewness (asymmetry) of the distribution of the parameter values* for the month (year) over the 'normal' period. A value near zero indicates that the distribution approximates a normal (Gaussian) and symmetrical distribution. A negative skew indicates that the parameter distribution has relatively few low values compared to high values. A positive skew indicates that the distribution has relatively few high values compared to the number of low values. A skew value near 1 indicates that the underlying distribution approximates a lognormal distribution.

^o This value represents the *kurtosis* of the parameter value distribution for the month (year) over the 'normal' period. Kurtosis is a measurement of the height to width ratio of the probability distribution, or the *peakedness (slenderness)*. A normal (Gaussian) distribution has a kurtosis of 3. A high kurtosis distribution has a sharper peak and longer tails, while a low kurtosis distribution has a more rounded peak and shorter tails.

This work and report were prepared by the University of Idaho Research and Extension Center at Kimberly, Idaho under contract with the Idaho Department of Water Resources. Work was supported by funding from IDWR and the Idaho Agricultural Experiment Station and Idaho Engineering Experiment Station. The authors gratefully acknowledge the long-term evapotranspiration data collection and long-standing advice provided by Dr. James L. Wright, USDA-ARS Kimberly (ret.), the more than two decades of high quality agricultural weather data collection by the U.S. Bureau of Reclamation AgriMet system, and the very long-standing, routine data collection by the hundreds of cooperative weather station volunteers across the state who, for more than one-hundred years, have faithfully observed daily air temperature and precipitation.

The citation for the evapotranspiration data used from this site should be: *Allen, Richard G. and Clarence W. Robison, 2012. Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho: Supplement updating the Time Series through December 2008, Research Technical Completion Report, Kimberly Research and Extension Center, University of Idaho, Moscow, ID.*

Questions regarding the data should be addressed to [Clarence W. Robison](#) or [Richard G. Allen](#), University of Idaho, Kimberly Research and Extension Center, 3793 North 3600 East, Kimberly, ID 83341. Telephone (208)-423-6610

University of Idaho
A LEGACY OF LEADING
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FSA - 578 (02-01-91)

REPORT OF COMMODITIES FARM AND TRACT DETAIL LISTING

DATE: 5-7-2015

PAGE: 1

Farm Number: 7052

Operator Name and Address

DARRELL AND PATRICIA FUNK
3173 N 4900 E
MURTAUGH, ID 83344-5359

Original: _____

Revision: _____

Cropland: 372.81

Farmland: 416.13

TRANSFER 80038

Tract Number	CLU/Field	Crop/Commodity	Variety/Type	Irr Prc	Int Use	Actual Use	Land Use	C/C Status	Reporting Unit	Reported Quantity	Determined Quantity	Crop Land	Field ID	Official/Measured	Planting Date	Planting Period	End Date
3199	1	WHEAT	SWW	I	FG			I	A	119.12		Yes			10-1-2013	01	
		Producer	PATRICIA FUNK						Share	48.00		RMA Unit			NAP Unit	60	
			DARRELL M FUNK							52.00							
	1	CORN	YEL	I	FG			J	A	119.12		Yes			5-18-2014	01	
		Producer	PATRICIA FUNK						Share	48.00		RMA Unit			NAP Unit	60	
			DARRELL M FUNK							52.00							
	2	ALFAL		I	FG			I	A	7.40		Yes			10-1-2008	01	
		Producer	PATRICIA FUNK						Share	48.00		RMA Unit			NAP Unit	60	
			DARRELL M FUNK							52.00							
	3	ALFAL		I	FG			I	A	7.97		Yes			9-21-2012	01	
		Producer	PATRICIA FUNK						Share	48.00		RMA Unit			NAP Unit	60	
			DARRELL M FUNK							52.00							
	4	ALFAL		I	FG			I	A	6.95		Yes			10-1-2008	01	
		Producer	PATRICIA FUNK						Share	48.00		RMA Unit			NAP Unit	60	
			DARRELL M FUNK							52.00							
	5	ALFAL		I	FG			I	A	7.97		Yes			10-1-2008	01	
		Producer	PATRICIA FUNK						Share	48.00		RMA Unit			NAP Unit	60	
			DARRELL M FUNK							52.00							
	6	ALFAL		I	FG			I	A	10.29		Yes	NS		4-12-2014	01	
		Producer	PATRICIA FUNK						Share	48.00		RMA Unit			NAP Unit	60	
			DARRELL M FUNK							52.00							
	7	ALFAL		I	FG			I	A	85.05		Yes	NS		4-12-2014	01	
		Producer	PATRICIA FUNK						Share	48.00		RMA Unit			NAP Unit	60	
			DARRELL M FUNK							52.00							
	8	ALFAL		I	FG			I	A	15.60		Yes	NS		4-12-2014	01	
		Producer	PATRICIA FUNK						Share	48.00		RMA Unit			NAP Unit	60	
			DARRELL M FUNK							52.00							
	9	ALFAL		I	FG			I	A	4.84		Yes	NS		4-12-2014	01	
		Producer	PATRICIA FUNK						Share	48.00		RMA Unit			NAP Unit	60	
			DARRELL M FUNK							52.00							
	10	ALFAL		I	FG			I	A	76.46		Yes			9-5-2010	01	
		Producer	PATRICIA FUNK						Share	48.00		RMA Unit			NAP Unit	60	
			DARRELL M FUNK							52.00							
	11	ALFAL		I	FG			I	A	3.53		Yes			9-5-2010	01	
		Producer	PATRICIA FUNK						Share	48.00		RMA Unit			NAP Unit	60	
			DARRELL M FUNK							52.00							

FSA - 578 (02-01-91)

DATE: 5-7-2015

Farm Number: 7052

PAGE: 2

REPORT OF COMMODITIES FARM AND TRACT DETAIL LISTING

Tract Number	CLU/Field	Crop/Commodity	Variety/Type	Irr Prc	Int Use	Actual Use	Land Use	C/C Status	Reporting Unit	Reported Quantity	Determined Quantity	Crop Land	Field ID	Official/Measured	Planting Date	Planting Period	End Date	
	12	WHEAT	SWW	I	GR			I	A	27.63		Yes			10-1-2013	01		
		Producer PATRICIA FUNK							Share	48.00		RMA Unit			NAP Unit 60			
		DARRELL M FUNK								52.00								
Cr/Co	Var/Type	Irr Prc	Int Use	Non-Irrig	Irrigated		Cr/Co	Var/Type	Irr Prc	Int Use	Non-Irrig	Irrigated	Cr/Co	Var/Type	Irr Prc	Int Use	Non-Irrig	Irrigated
CORN	YEL	I	FG		119.12		ALFAL		I	FG		226.06	WHEAT	SWW	I	FG		119.12
WHEAT	SWW	I	GR		27.63													
Photo Number/Legal Description: 6-12-20 CASSIA COUNTY																		
Cropland: 372.81					Reported on Cropland: 372.81					Difference: 0.00					Reported on Non-Cropland: 0.00			

Twin Falls, Idaho

PROGRAM YEAR: 2014

FSA - 578 (02-01-91)

REPORT OF COMMODITIES FARM SUMMARY

DATE: 5-7-2015

PAGE: 3

Farm Number: 7052

Operator Name and Address

DARRELL AND PATRICIA FUNK
3173 N 4900 E
MURTAUGH, ID 83344-5359

Original: _____

Revision: _____

Cropland: 372.81

Farmland: 416.13

NOTE: The authority for collecting the following information is Pub.L 107-76. This authority allows for the collection of information without prior OMB approval mandated by the Paperwork Reduction Act of 1995. The data will be used to determine eligibility for assistance. Furnishing the data is voluntary, however, without it assistance cannot be provided. The data may be furnished to any agency responsible for enforcing the provisions of the Act.

Be furnished to any agency responsible for enforcing the provisions of article 11.											
Producer Name				C/C	Share	C/C	Share	C/C	Share	C/C	Share
DARRELL M FUNK				ALFAL	52.00	WHEAT	52.00	CORN	52.00		
PATRICIA FUNK				ALFAL	48.00	WHEAT	48.00	CORN	48.00		
Crop/ Commodity	Variety/ Type	Irrigation Practice	Intended Use	Reported Quantity	Determined Quantity	Crop/ Commodity	Variety/ Type	Irrigation Practice	Intended Use	Reported Quantity	Determined Quantity
CORN	YEL	I	FG	119.12		ALFAL		I	FG	226.06	
WHEAT	SWW	I	FG	119.12		WHEAT	SWW	I	GR	27.63	

CERTIFICATION: I certify to the best of my knowledge and belief that the acreage of crops/commodities and land uses listed herein are true and correct and that all required crops/commodities and land uses have been reported for the farms as applicable. Absent any different or contrary prior subsequent certification filed by any producer for any crop for which NAP coverage has been purchased, I certify that the applicable crop, type, practice, and intended use is not planted if it is not included on the Report of Commodities for this crop year. The signing of this form gives FSA representatives authorization to enter and inspect crops/commodities and land uses on the above identified land. A signature date (the date the producer signs the FSA-578) will also be captured.

Operator's Signature (By)

Date

This program or activity will be conducted on a nondiscriminatory basis without regard to race, color, religion, national origin, sex, age, marital status, or disability.

FSA - 578 (02-01-91)

REPORT OF COMMODITIES FARM AND TRACT DETAIL LISTING

DATE: 5-7-2015

PAGE: 1

Farm Number: 7052

Original: _____

Revision: _____

Operator Name and Address

Cropland: 372.81

Farmland: 416.13

DARRELL AND PATRICIA FUNK
3173 N 4900 E
MURTAUGH, ID 83344-5359

Tract Number	CLU/Field	Crop/Commodity	Variety/Type	Irr Prc	Int Use	Actual Use	Land Use	Organic Status	C/C Status	Reporting Unit	Reported Quantity	Determined Quantity	Crop Land	Field ID	Official/Measured	Planting Date	Planting Period	End Date
3199	2	ALFAL		I	FG			C	I	A	7.40		Yes			6-1-2008	01	2020
		Producer	PATRICIA FUNK							Share 48.00		RMA Unit				NAP Unit 60		
			DARRELL M FUNK							52.00								
	3	ALFAL		I	FG			C	I	A	7.97		Yes			9-21-2012	01	20
		Producer	PATRICIA FUNK							Share 48.00		RMA Unit				NAP Unit 60		
			DARRELL M FUNK							52.00								
	4	ALFAL		I	FG			C	I	A	6.95		Yes			6-1-2008	01	2020
		Producer	PATRICIA FUNK							Share 48.00		RMA Unit				NAP Unit 60		
			DARRELL M FUNK							52.00								
	5	ALFAL		I	FG			C	I	A	7.97		Yes			6-1-2008	01	2020
		Producer	PATRICIA FUNK							Share 48.00		RMA Unit				NAP Unit 60		
			DARRELL M FUNK							52.00								
	6	ALFAL		I	FG			C	I	A	10.29		Yes			4-12-2014	01	2020
		Producer	PATRICIA FUNK							Share 48.00		RMA Unit				NAP Unit 60		
			DARRELL M FUNK							52.00								
	7	ALFAL		I	FG			C	I	A	85.05		Yes			4-12-2014	01	2020
		Producer	PATRICIA FUNK							Share 48.00		RMA Unit				NAP Unit 60		
			DARRELL M FUNK							52.00								
	8	ALFAL		I	FG			C	I	A	15.60		Yes			4-12-2014	01	2020
		Producer	PATRICIA FUNK							Share 48.00		RMA Unit				NAP Unit 60		
			DARRELL M FUNK							52.00								
	9	ALFAL		I	FG			C	I	A	4.84		Yes			4-12-2014	01	2020
		Producer	PATRICIA FUNK							Share 48.00		RMA Unit				NAP Unit 60		
			DARRELL M FUNK							52.00								
	10	ALFAL		I	FG			C	I	A	76.46		Yes			9-5-2010	01	2020
		Producer	PATRICIA FUNK							Share 48.00		RMA Unit				NAP Unit 60		
			DARRELL M FUNK							52.00								
	11	ALFAL		I	FG			C	I	A	3.53		Yes			9-5-2010	01	2020
		Producer	PATRICIA FUNK							Share 48.00		RMA Unit				NAP Unit 60		
			DARRELL M FUNK							52.00								
	12	ALFAL		I	FG			C	I	A	27.63		Yes			6-10-2014	01	2020
		Producer	PATRICIA FUNK							Share 48.00		RMA Unit				NAP Unit 60		
			DARRELL M FUNK							52.00								

TRANSFER 80038

Twin Falls, Idaho

PROGRAM YEAR: 2015

FSA - 578 (02-01-91)

REPORT OF COMMODITIES FARM AND TRACT DETAIL LISTING

DATE: 5-7-2015

PAGE: 2

Farm Number: 7052

Tract Number	CLU/ Field	Crop/ Commodity	Variety/ Type	Irr Prc	Int Use	Actual Use	Land Use	Organic Status	C/C Status	Reporting Unit	Reported Quantity	Determined Quantity	Crop Land	Field ID	Official/ Measured	Planting Date	Planting Period	End Date
Cr/Co	Var/Type	Irr Prc	Int Use	Non-Irrig	Irrigated		Cr/Co	Var/Type	Irr Prc	Int Use	Non-Irrig	Irrigated	Cr/Co	Var/Type	Irr Prc	Int Use	Non-Irrig	Irrigated
ALFAL		1	FG		253.69													

Photo Number/Legal Description: 6-12-20 CASSIA COUNTY

Cropland: 372.81

Reported on Cropland: 253.69

Difference: -119.12

Reported on Non-Cropland: 0.00

Note: All cropland has not been reported.

FSA - 578 (02-01-91)

REPORT OF COMMODITIES FARM SUMMARY

DATE: 5-7-2015

PAGE: 3

Farm Number: 7052

Operator Name and Address

DARRELL AND PATRICIA FUNK
3173 N 4900 E
MURTAUGH, ID 83344-5359

Original: _____

Revision: _____

Cropland: 372.81

Farmland: 416.13

NOTE: The authority for collecting the following information is Pub.L 107-76. This authority allows for the collection of information without prior OMB approval mandated by the Paperwork Reduction Act of 1995. The data will be used to determine eligibility for assistance. Furnishing the data is voluntary, however, without it assistance cannot be provided. The data may be furnished to any agency responsible for enforcing the provisions of the Act.

20 reference to any agency responsible for enforcing the provisions of the law.											
Producer Name				C/C	Share	C/C	Share	C/C	Share	C/C	Share
DARRELL M FUNK				ALFAL	52.00						
PATRICIA FUNK				ALFAL	48.00						
Crop/ Commodity	Variety/ Type	Irrigation Practice	Intended Use	Reported Quantity	Determined Quantity	Crop/ Commodity	Variety/ Type	Irrigation Practice	Intended Use	Reported Quantity	Determined Quantity
ALFAL		I	FG	253.69							

CERTIFICATION: I certify to the best of my knowledge and belief that the acreage of crops/commodities and land uses listed herein are true and correct and that all required crops/commodities and land uses have been reported for the farms as applicable. Absent any different or contrary prior subsequent certification filed by any producer for any crop for which NAP coverage has been purchased, I certify that the applicable crop, type, practice, and intended use is not planted if it is not included on the Report of Commodities for this crop year. The signing of this form gives FSA representatives authorization to enter and inspect crops/commodities and land uses on the above identified land. A signature date (the date the producer signs the FSA-578) will also be captured.

Operator's Signature (By)

Date

This program or activity will be conducted on a nondiscriminatory basis without regard to race, color, religion, national origin, sex, age, marital status, or disability.

RECEIVED

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Transfer No.

80038

APR 24 2015

DEPT OF WATER RESOURCES
SOUTHERN REGIONMINIMUM 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) Darrell M. Funk and/or Patricia M. FunkCheck 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 #2 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 fees 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 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: _____

RECEIVED

APR 24 2015

DEPT OF WATER RESOURCES
SOUTHERN REGION

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1

Name of Applicant(s) Darrell M. Funk and/or Patricia M. Funk Phone 208-436-9888
Mailing address 3173 North 4900 East; Murtaugh, Idaho 83344 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 Representative

Name of Representative Erick Powell Phone 208-736-8543
Mailing address 2016 Washington Street North #4; Twin Falls, Idaho 83301 Email erick.powell@brockwayeng.co

- ☐ 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.

Darrell Funk
Signature of Applicant or Authorized Representative

Darrell Funk
Print Name and Title if applicable

4-15-15
Date

Signature of Applicant or Authorized Representative

Print Name and Title if applicable

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**.

Convert irrigation water right to stockwater and commercial water right for a new dairy facility. Evaluation of commercial and stockwater use is provided on subsequent pages and illustrate the quantity of water necessary.

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.

I.	Right Number	Amount (cfs/ac-ft)	Nature of Use	Period of Use	Source & Tributary
All or Part ☐ ☒	45-14464(pt)	0.29/97.3	Stockwater/Commercial	1/1 to 12/31	Groundwater
☐ ☒	45-14464(pt)	1.71/485.2	Irrigation	3/15 to 11/15	Groundwater
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	

Total authorized under rights 2.00 cfs and/or 586 acre-feet.

2. Total amount of water proposed to be transferred or changed 97.3 cubic feet per second and/or 97.3 acre-feet per year.

3. Point(s) of Diversion: Stock/Com PODs shown below

- ☐ 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 #
X		SW	NW	SE	6	12S	20E	Cassia	Groundwater	Primary Dairy Well
X	4	SW	SW		3	11S	20E	Twin Falls	Groundwater	Backup Dairy 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		
12S	20E	6									S/C	S/C								
11S	19E	36							10								9.4		19.4	
12S	19E	1				1													1	
12S	20E	6						8	0.7	7.6	15.2	64.6				0.4		4.4	100.9	
Irrigation Place of use is shown for reference only																			Total Acres (for irrigation use)	121.3

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:

Dairy will be served by a primary well with an identified backup well. The wells will be fitted with an approved IDWR measuring device and have standard controlling works.

- 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:

- 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. 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:

The new dairy will occupy some of the land that will be dried up for this transfer. The accompanying transfer will move other irrigation rights on the remaining are that is dried up under this transfer.

- 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:

This water right is a primary water right, and no other water rights have the same place of use. There are several groundwater irrigation rights that share the irrigation PODs. No other water rights will share the new dairy PODs.

- 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:

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]

2. Lands irrigated or place of use: (If irrigation, identify with number of acres irrigated per $\frac{1}{4}$ $\frac{1}{4}$ tract.)

Page 5

DAIRIES: WATER USE WORKSHEET

REQUIRED DAIRY DATA

NUMBER OF MILKING CATTLE -----	2200
NUMBER OF DRY CATTLE -----	0
NUMBER OF REPLACEMENT CATTLE: 0-2 MONTHS -----	0
3-4 MONTHS -----	0
5-8 MONTHS -----	0
9-12 MONTHS -----	0
13-15 MONTHS -----	0
16-24 MONTHS -----	0
ENTER 1 FOR MANUAL COW WASHING, 2 FOR AUTOMATIC COW WASHING, OR 3 IF SPRINKLERS ARE USED TO FLUSH HOLDING PEN AND WASH COWS -----	3
IF SPRINKLERS ARE USED: NUMBER OF SPRINKLERS IN HOLDING PEN -----	125
NOZZLE DISCHARGE (USE 5.0 GPM IF UNKNOWN) -----	5.00
TOTAL OPERATION TIME OF SPRINKLERS (MIN/DAY) -----	20
NUMBER OF MILKINGS PER DAY -----	2
AVG. LBS. OF MILK PRODUCED PER DAY PER ANIMAL (IDAHO AVG IS 70 LBS.) -----	70
ARE THERE SEPARATE PUMPS FOR COMMERCIAL AND STOCKWATER USES? -----	N
IF SO: HOW MANY HOURS PER DAY DOES THE STOCKWATER PUMP RUN? -----	
HOW MANY HOURS PER DAY DOES THE COMMERCIAL PUMP RUN? -----	
IF ONLY ONE PUMP, HOW MANY TOTAL HOURS PER DAY DOES IT RUN? -----	12.0
IS A PLATE COOLER USED? -----	Y
IS PLATE COOLER WATER LATER RECYCLED FOR OTHER USES? (IF NO PLATE COOLER, LEAVE BLANK) -----	Y
ARE CORRAL MISTERS USED IN HOLDING PEN? -----	Y
IF USING CORRAL MISTERS: NUMBER OF MISTERS (IF UNKNOWN, ASSUME 1 MISTER FOR EVERY 5 COWS) -----	440
NOZZLE DISCHARGE (USE 5 GPH IF UNKNOWN) -----	5.00
SPRAY INTERVAL (EX - 2 MIN ON EVERY 5 MIN = 2/5) -----	2/5
OPERATION TIME OF MISTERS (HRS/DAY) -----	10
DAYS PER YEAR MISTERS ARE USED -----	45
ENTER A TOTAL VOLUME IN GPD FOR MISCELLANEOUS WATER USES NOT INDIVIDUALLY CALCULATED BELOW (EX. - RESTROOMS, WASHING MACHINES) -----	5500

CALCULATIONS

DIVERSION RATE (CFS):

STOCKWATER	
MILKING CATTLE (BASED ON MILK PRODUCTION) -----	****
DRY CATTLE @17.0 GPD/HD -----	****
REPLACEMENT CATTLE -----	****
TOTAL -----	0.29
COMMERCIAL	
TOTAL -----	0.29
TOTAL DIVERSION RATE -----	0.29

DIVERSION VOLUME (AFA):

STOCKWATER	
MILKING CATTLE -----	71.0
DRY CATTLE -----	0.0
REPLACEMENT CATTLE -----	0.0
TOTAL -----	71.0
COMMERCIAL	
WASHING OF BULK TANK AND RELATED EQUIPMENT -----	0.4
BACKFLUSH -----	2.5
PARLOR/MILKHOUSE/HOLDING PEN CLEANUP -----	2.0
CATTLE WASHING BASED UPON METHOD OF WASHING -----	14.0
PLATE COOLER -----	0.0
CORRAL MISTERS -----	1.2
MISCELLANEOUS USES -----	6.2
TOTAL -----	26.3
TOTAL DIVERSION VOLUME -----	97.3

CONSUMPTIVE USE VOLUME (AFA)(assuming 100% consumptive):

STOCKWATER -----	71.0
COMMERCIAL -----	26.3
TOTAL CONSUMPTIVE USE -----	97.3

THEORETICAL FLOW ESTIMATION WORKSHEET

REQUIRED PUMP INFORMATION

	PUMP 1	PUMP 2	PUMP 3	PUMP 4	PUMP 5
PUMP HORSEPOWER (HP) -----	25.00		0.00	0.00	0.00
PUMP EFFICIENCY (%) -----	70		70	70	70
LIFT (FT) -----	230		0	0	0
DISCHARGE PRESSURE (PSI) -----	40		0	0	0
FRICTION LOSSES (FT) -----	3.0		0.0	0.0	0.0
HOURS PER DAY PUMP OPERATES -----	12.0		0.0	0.0	0.0

CALCULATIONS

THEORETICAL FLOW RATE (CFS) * -----	0.47	0.00	0.00	0.00	0.00
DIVERSION VOLUME (AFA) ** -----	171.3	0.0	0.0	0.0	0.0

* IF PUMP EFFICIENCY IS UNKNOWN, 70% MAY BE ASSUMED.

** DIVERSION VOLUME IS THE ABSOLUTE MAXIMUM VOLUME BASED ON THE
THEORETICAL FLOW RATE ASSUMING PUMP RUNS EVERY DAY OF THE YEAR.

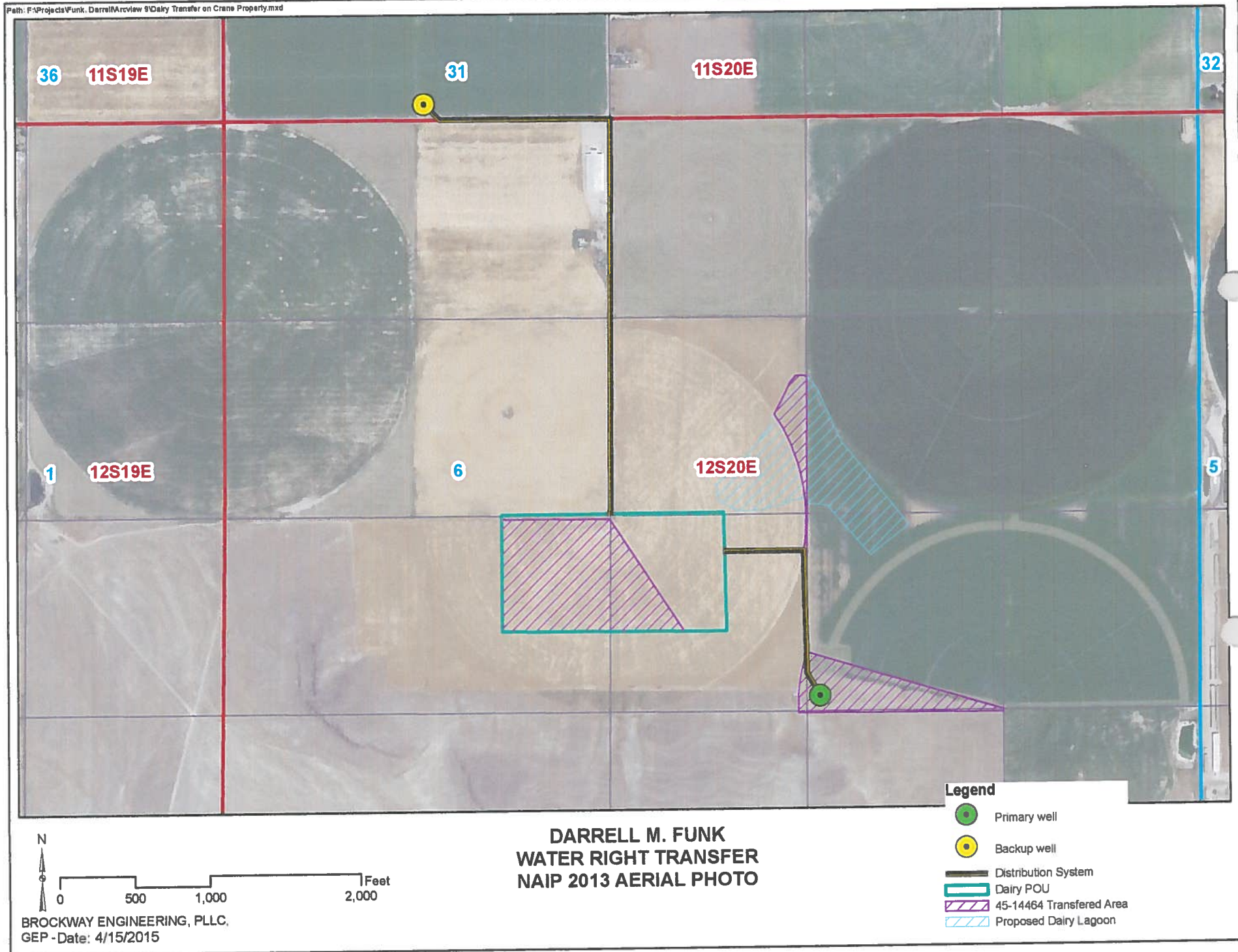
EVALUATION OF EQUIVALENT IRRIGATED ACREAGE

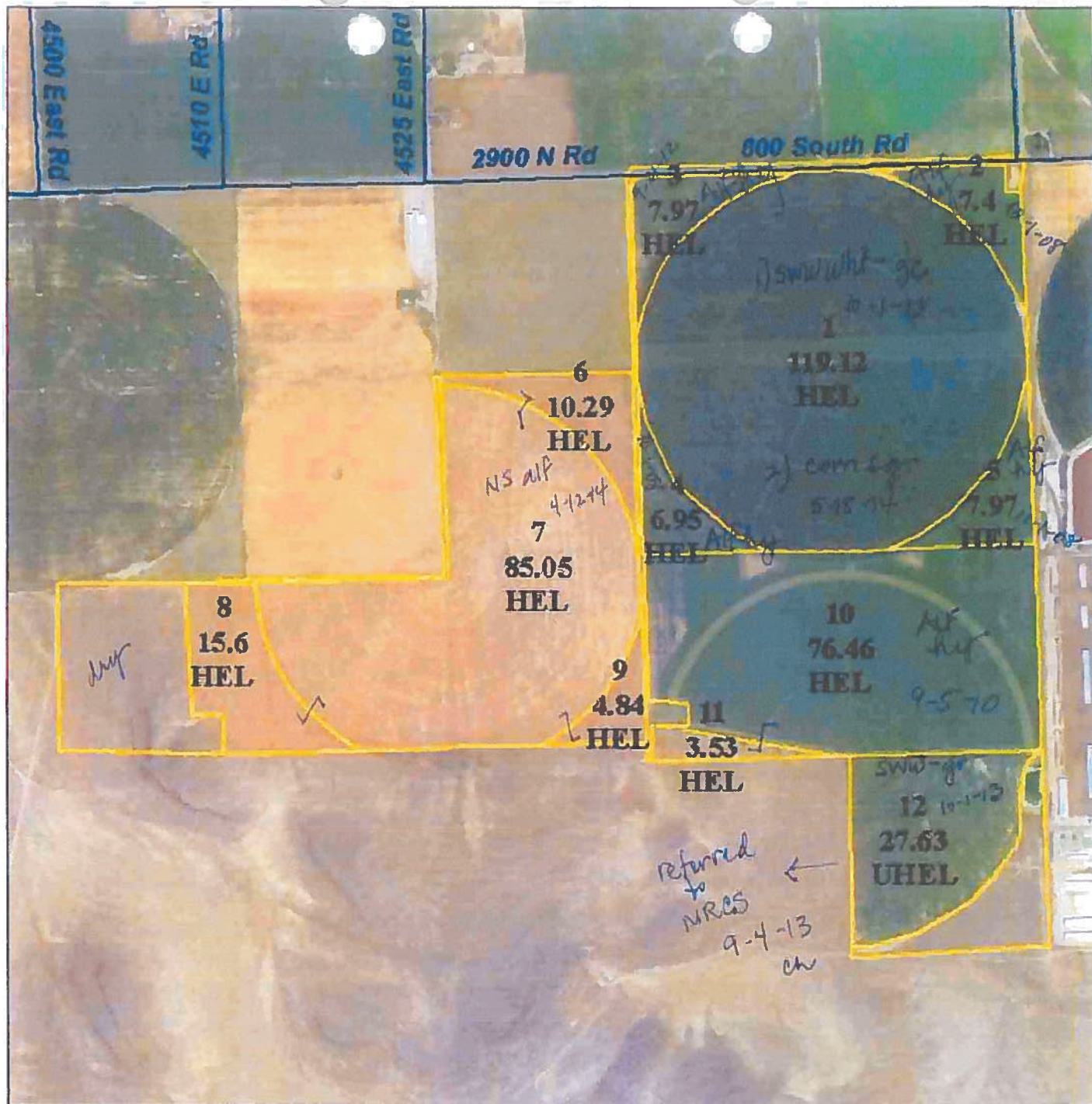
IRRIGATION RIGHT (BEFORE CHANGE)

DIVERSION RATE	2.00 CFS
ACRES OF IRRIGATION	146.5 ACRES
DIVERSION VOLUME	4.0 AC-FT/AC
CONSUMPTIVE USE VOLUME	3.9 AC-FT/AC
IRRIGATION IS BEING CONVERTED FOR WHICH PORTION OF THE	
DAIRY OPERATION - STOCKWATER (S), COMMERCIAL (C), OR	
BOTH (B)?	B

CALCULATIONS

IRRIGATION DIVERSION RATE PER ACRE	0.014 CFS/AC
REDUCTION OF IRRIGATION BASED ON DIVERSION RATE	21.2 ACRES
REDUCTION OF IRRIGATION BASED ON DIVERSION VOLUME	24.3 ACRES
REDUCTION OF IRRIGATION BASED ON CONSUMPTIVE USE	25.2 ACRES





FARM 7052
TRACT 3199

S6 - T12 - R20

County: Twin Falls

OP% ^{100%} Darrell (52) & Pat (48)

OW% _____

CR YEAR: 2014



Twin Falls County Farm Service Agency

Disclaimer: These acreages are for FSA program purposes only.

NAIP 2013



State of Idaho

DEPARTMENT OF WATER RESOURCES

Southern Region • 650 Addison Ave W, Suite 500 • Twin Falls, Idaho 83301-5858

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

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

May 29, 2015

DARRELL M FUNK
PATRICIA M FUNK
3173 N 4900 E
MURTAUGH, ID 83344

RE: Transfer No. 80038
Water Right No(s). 45-14464

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 **TIMES NEWS on 6/4/2015 and 6/11/2015**. Protests to this application may be submitted for a period ending ten (10) days after the second publication (**June 22, 2015**).

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
C/O ERICK POWELL
2016 N WASHINGTON ST STE 4
TWIN FALLS, ID 83301

Maline, Denise

From: Maline, Denise
Sent: Thursday, May 28, 2015 3:15 PM
To: Times News
Subject: LEGAL NOTICES
Attachments: Times News Cover Letter.docx; Times News Ad.doc; A&B Mitigation Plan Ad.docx

Attached please find **(2)** legal notice being submitted for publication on June 4th & 11th, 2015. Please feel free to contact me if you have any questions, or if you are not able to run the ad on the dates requested.

Thank you in advance,

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

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C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

May 28, 2015

LEGAL NOTICE DEPARTMENT
TIMES NEWS
PO BOX 548
TWIN FALLS, ID 83303-0548

RE: Transfer No. 80037
Water Right No(s): 45-10107, 45-2075, 45-2176, 45-2220, 45-2408

RE: Transfer No. 80038
Water Right No(s): 45-14464

RE: Notice of Mitigation Plan Submitted by A&B Irrigation District

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 June 22, 2015. Your cooperation is appreciated.

Sincerely,

Denise Maline
Administrative Assistant

Enclosure(s)

**NOTICE OF PROPOSED CHANGE OF WATER RIGHT
TRANSFER NO. 80037**

DOUBLE EAGLE PROPERTIES LLLP, 3173 N 4900 E, MURTAUGH, ID 83344; has filed Application No. 80037 for changes to the following water rights within CASSIA County(s): Right No(s). 45-10107, 45-2075, 45-2176, 45-2220, 45-2408. The purpose of the transfer is to change a portion of the above rights as follows: Application for transfer proposes rearranging the authorized place of use for approximately 8.4 acres from four irrigation ground water rights and one Dry Creek water right that when combined authorize a total diversion of 5.06 cfs and 302 acres of irrigation. All acres will remain within currently authorized tracts for the water rights. Place of use is located 5.2 to 6.2 miles south and 0.1 mile to 0.8 miles east of Murtaugh.

**NOTICE OF PROPOSED CHANGE OF WATER RIGHT
TRANSFER NO. 80038**

DARRELL M FUNK and PATRICIA M FUNK, 3173 N 4900 E, MURTAUGH, ID 83344; has filed Application No. 80038 for changes to the following water rights within CASSIA, TWIN FALLS County(s): Right No(s). 45-14464. The purpose of the transfer is to change a portion of the above rights as follows: Application proposes changing the nature of use; point of diversion; place of use and period of use for a 0.29 cfs and 97.3 acre foot portion of an irrigation ground water right. Irrigation use will be changed to commercial/stockwater use at a proposed dairy facility. The application indicates that the primary point of diversion is an existing well that isn't currently in use and the secondary well is a proposed well to be drilled. PODs and POU are located approximately 4.8 to 5.9 miles south and 0.8 miles west to 0.9 miles east of Murtaugh.

For additional information concerning the property location, contact Southern Region office at (208) 736-3033; or to see a full description of these rights and/or the proposed transfers, please see www.idwr.idaho.gov/apps/wr/QueryNewTransfers/QueryNewTransfers.aspx. Protests may be submitted based on the criteria of Idaho Code Sec. 42-222. Any protest against the proposed change must be filed with the Department of Water Resources, Southern Region, 650 Addison Ave W, Ste 500, Twin Falls ID 83301 together with a protest fee of \$25.00 for each application on or before June 22, 2015. The protestant must also send a copy of the protest to the applicant.

GARY SPACKMAN, Director
Published on June 4th & 11th, 2015

Maline, Denise

From: Maline, Denise
Sent: Thursday, May 28, 2015 4:15 PM
To: 'Brian Higgs'
Subject: Comment Letters - transfers 80037 & 80038
Attachments: Comment Letter to WM140 for 80037 & 80038.docx; Transfer 80037.pdf; Transfer 80038.pdf

Hi Brian,

Attached is a cover letter, recommendation forms and copy of applications for transfer 80037 & 80038. Please review the information and provide any necessary comments within 21 days. Feel free to contact our office if you have any questions.

Thank you in advance,

Denise Maline
Idaho Dept of Water Resources
Administrative Assistant, 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

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C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

May 28, 2015

BRIAN HIGGS
WATER DISTRICT #140
355 W 500 S
BURLEY, ID 83318

Via e-mail

RE: Transfer No. 80037
Water Right No(s): 45-10107, 45-2075, 45-2176, 45-2220, 45-2408

RE: Transfer No. 80038
Water Right No(s): 45-14464

Dear Mr. Higgs:

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 watermaster, 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)

MEMORANDUM

Date: May 21, 2015
To: Transfer 80037 & 80038 File
From: Bill Mills
Re: Fee Evaluation

Filing fees charged for transfer applications #80037 & 80038 were based on the on the current transfer fee schedule and included \$500.00 for the 0.290 cfs portion being transferred and a \$250.00 change in nature of use fee for transfer #80038 and \$200.00 for the 0.19 cfs portion being moved in transfer #80037; for a total of \$950.00 (Receipt Nos.S034714 & S034724).

MEMORANDUM

Date: May 21, 2015
To: Transfer 80038
From: William Mills
Re: Evaluation of Sufficiency of Information Submitted

Application proposes changing the nature of use; point of diversion; place of use and period of use for a 0.29 cfs and 97.3 acre foot portion of irrigation ground water right 45-14464. Irrigation use will be changed to commercial/stockwater use. The application indicates that the primary point of diversion is an existing well that isn't currently in use and the secondary well is a proposed well that will be used to provide water to a new place of use at a proposed dairy facility. PODs and POU are located approximately 4.8 to 5.9 miles south and 0.8 miles west to 0.9 miles east of Murtaugh.

Applicant has provided sufficient analysis to indicate amount of water needed at the proposed facility and for conversion from irrigation use to commercial/stockwater use. Provided FSA Farm Report Summaries indicate alfalfa is the primary crop this water right has been used to irrigate. Provided dairy water use worksheet indicates that 97.3 acre feet annually will be required at the proposed dairy. Precipitation Deficit data from the University of Idaho's ET Idaho website indicate 3.09 acre feet per acre is required for alfalfa-frequent cuttings (based on data from Kimberly ARS weather station). Based on the provided data, the applicant will be drying up 31.4 acres of irrigated land to offset the change in nature of use from irrigation to stockwater/commercial use.

Companion transfer #80037 is proposing to rearrange acres on four irrigation ground water rights (45-2176; 45-2220; 45-2408 and 45-10107) and one Dry Creek irrigation right (45-2075). If that transfer is approved there will be no overlap with any of the water rights in the companion transfer and the water right in this transfer. Dry Creek water rights 45-487C and 45-488A do overlap with the unchanged portion of water right 45-14464 in the NWSE and SWSE of Sec. 36, Twp 11S, Rge 19E. The POU is in both The Twin Falls Canal Company and Southwest Irrigation District service areas. All points of diversion (POD) at the current and proposed POU are within the Artesian City Critical Ground Water Area and Water District 140. Watermaster comments will be solicited. Points of diversion are outside of the ESPA boundary and no ground water model analysis is required.

- **Authority to File:**
IDWR records indicate the applicant currently owns the water right involved in the transfer and all lands involved in the transfer.
- **Water Right Validity:**
Water right 45-14464 was decreed in the SRBA on 6/1/2010. Recent aerial photography indicates that the property associated with this transfer appears

irrigated.

- **Injury to Other Water Rights:**
None anticipated.
- **Enlargement of Use:**
None anticipated.
- **Local Public Interest:**
No issues anticipated. Application will be subject to public notice and protest.
- **Beneficial Use/Conservation of Water Resources:**
Proposed use is recognized as a beneficial uses of water.
- **Effect on the Economy of the Local Area:**
None Anticipated.
- **Effect on Agricultural Base of the Local Economy:**
None Anticipated.

Review of the application finds there is no clear inconsistency with criteria set forth in Section 42-222 Idaho Code preventing processing of this application.

Mills, William

From: Erick Powell [erick.powell@brockwayeng.com]
Sent: Wednesday, May 20, 2015 3:52 PM
To: Mills, William
Subject: RE: PODs for Funk transfer and POU clarification

Bill,
I was told that there are no other water rights being diverted from the proposed primary well. The Funks told me that this well is not a POD for any other rights. The new backup well is not very close to any other POD.

Thanks,
Erick

From: Mills, William [mailto:William.Mills@idwr.idaho.gov]
Sent: Wednesday, May 20, 2015 3:32 PM
To: Erick Powell
Subject: RE: PODs for Funk transfer and POU clarification

Erick,
If the primary well is existing are there any other water rights currently diverted from it? And the backup well is proposed to be drilled in close proximity to the existing POD for 45-2176; 45-2220; 45-2408 and 45-10107 in the NWSE of Sec. 6?
Thanks for the information,
Bill

From: Erick Powell [mailto:erick.powell@brockwayeng.com]
Sent: Wednesday, May 20, 2015 2:56 PM
To: Mills, William
Subject: RE: PODs for Funk transfer and POU clarification

Bill,
The primary well is an existing well, but the backup well is proposed.

The 10 acre parcel in section 36 isn't being changed, it should be the current place of use of water right 45-14464 (NWSE of section 36).

Thanks,
Erick

From: Mills, William [mailto:William.Mills@idwr.idaho.gov]
Sent: Tuesday, May 19, 2015 8:48 AM
To: Erick Powell
Subject: FW: PODs for Funk transfer and POU clarification

Also, the transfer indicates that there are 10 acres in the SENW of 11S 19E 36, but that land isn't owned by the Funks and the map doesn't show the POU in S36. The water right indicates those acres are actually the NWSE of 11S 19E 36. If this is a typo, could I get an email to clarify that for the file please,
Thanks,
Bill

From: Mills, William
Sent: Monday, May 18, 2015 9:58 AM
To: 'Erick Powell'
Subject: PODs for Funk transfer

Erick,

The transfer application seems to indicate that the wells for the dairy facility are new, but does not specify. Are either of the wells, the primary and the backup, currently existing or proposed wells?

Thanks,
Bill

No virus found in this message.

Checked by AVG - www.avg.com

Version: 2015.0.5941 / Virus Database: 4342/9777 - Release Date: 05/14/15

No virus found in this message.

Checked by AVG - www.avg.com

Version: 2015.0.5941 / Virus Database: 4342/9777 - Release Date: 05/14/15

Mills, William

From: Mills, William
Sent: Monday, May 04, 2015 1:51 PM
To: 'Erick Powell'
Cc: Merritt, Allen; Skinner, Corey
Subject: Funk Dairy Transfer - Citation for Alfalfa CU

Erick,

After consulting with both Jeff Peppersack and Dr. Allen of U of I, we've come to the conclusion that "alfalfa-no cutting effects" is provided to represent an instantaneous measurement and simply isn't appropriate for use in conversion analysis as it doesn't represent the precipitation deficit over an actual season of irrigation use.

The following are Dr. Allen's comments regarding this matter:

"The "Alfalfa – peak (no cutting effects)" is a hypothetical crop that looks like healthy, vigorously growing and transpiring alfalfa that is always at full ground cover. However, this crop does not exist in nature because if not cut periodically, the alfalfa plant in reality becomes bushy, its leaves deteriorate over time, it tends to lodge, and it tends to begin to set seed, all of which tend to reduce ET rates. Alfalfa seed crops, which are not cut, have lower ET rates than alfalfa that is cut and regrows, for the reasons listed, as well as generally being moderately stressed for water to retard regrowth of vegetation and production of curls.

The ETIdaho report describes the reason for the "Alfalfa – peak (no cutting effects)" class. It is to be used as a means to estimate the maximum rate of ET from full cover alfalfa on any day of the year for purposes of irrigation system design or for purposes of constructing a customized ET curve for alfalfa using customized cutting dates. The ET curve for the "Alfalfa – peak (no cutting effects)" crop is always at a maximum, each day, and the daily time series must be reduced periodically to incorporate impacts of cuttings prior to using the data to represent actual conditions. The "Alfalfa – peak (no cutting effects)" data column was also included for comparison against the Agrimet data sets, which have traditionally included that category.

The "Alfalfa – peak (no cutting effects)" should not be used to represent historical irrigation water consumption. It will tend to overstate historical water consumption by about 20%.

I believe that IDWR is already "generous" in the use of alfalfa ET as the basis for historical water consumption. Alfalfa hay represents one of the highest ET rates for Idaho crops, and it is rare, outside of high elevation valleys, for alfalfa to be grown year in and year out. It is typically rotated against other crops, some of which consume less water."

Based on this information, the conversion analysis does need to be changed to reflect either "Alfalfa- less frequent cuttings" or "Alfalfa-frequent cuttings" precipitation deficit data which will require additional acres to be dried up and the transfer application to be amended as a result.

Let me know if you have any questions.

Thanks,
Bill

Mills, William

From: Erick Powell [erick.powell@brockwayeng.com]
Sent: Monday, May 04, 2015 10:07 AM
To: Mills, William
Subject: FW: Funk Dairy Transfer - Citation for Alfalfa CU

Hi Bill,
Sorry, I sent this to Jim on Friday.
Erick

From: Erick Powell [<mailto:erick.powell@brockwayeng.com>]
Sent: Friday, May 01, 2015 9:40 AM
To: james.bitzenburg@idwr.idaho.gov
Subject: Funk Dairy Transfer - Citation for Alfalfa CU

Hi Jim,
Here is the citation that I used for the CU of Alfalfa for the Funk Dairy Transfer.

Twin Falls (AgriMet – TWFI)
Alfalfa – peak (no cutting effects)
Precipitation Deficit
Growing Season = 1177 mm (3.9 ft)

What was the report that you needed again? The FSA summary report?

Thanks,
Erick

G. Erick Powell, Ph.D., P.E.
Brockway Engineering, PLLC
2016 Washington Street North, #4
Twin Falls, Idaho 83301
Office: 208-736-8543
erick.powell@brockwayeng.com

All information, calculations, maps, drawings, or other documents transmitted via email are preliminary unless explicitly stated in the email text or in the documents themselves.

Represents

need -

Instantaneous Measurement -

- doesn't represent actual seasonal
irrigation use -

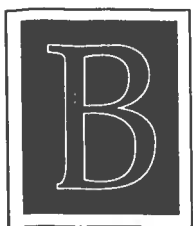
Not appropriate for ~~us~~ seasonal use -

unless you can show a plot only
grown for seed - needs to be

either frequent or ^{cuttings}

department policy to use

not appropriate for conversion



BROCKWAY
ENGINEERING
P.L.L.C.

Hydraulics

Hydrology

Water Resources

RECEIVED

APR 24 2015

DEPT OF WATER RESOURCES
SOUTHERN REGION

April 20, 2015

Mr. Allen Merritt
Idaho Department of Water Resources
650 Addison Ave West, Suite 500
Twin Falls, Idaho 83301

Re: Transfer of Water Right for proposed Dairy for Darrell Funk
Project No. 280-06-2015

Dear Allen,

Enclosed are two transfers for Darrell Funk. The first transfer proposes to change the nature of use of irrigation right no. 45-14464 to stockwater and commercial for a new dairy for Darrell Funk. The second transfer will move irrigation water rights (45-2176, 45-2220, 45-2408, 45-2075, and 45-10107) to land dried up by the dairy transfer. The fee included is \$650 (\$450 for the first transfer and \$200 for the second). The owner of the second transfer is Double Eagle Properties, LLLP, which is a business registered with the state of Idaho and Darrell M. Funk is the registered agent and member of the business.

Please do not hesitate to contact me if you have any questions.

Sincerely,


G. Erick Powell, P.E.

enclosed

cc: Darrell Funk

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

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

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