IDAHO WATER RESOURCE BOARD

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May 17, 2024

RECEIVED
MAY 17 2024
WATER RESOURCES
WESTERN REGION

Nick Miller
Supervisor, Western Region
Idaho Department of Water Resources
2735 Airport Way
Boise, Idaho 83705-5082

Mr. Miller,

On behalf of the Idaho Water Resource Board, we would like to formally withdraw Transfer application number 82123 regarding water rights 2-10300A, 2-10300B, and 2-10506 for the construction of a new Snake River pump station to supply water to Mountain Home Air Force Base.

If you have questions, please contact me at your earliest convenience.

Sincerely,

Cynthia Bridge Clark, P.E.
Planning & Projects Bureau Chief,
Idaho Water Resource Board

SUPPORT DATA
IN FILE # 2-10300A

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098
Phone: (208) 287-4800 Fax: (208) 287-6700 Website: idwr.idaho.gov/IWRB/

Rev. 01/15

RECEIVED
JAN 29 2018
DEPARTMENT OF WATER RESOURCES

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Transfer No. 82123

RECEIVED
FEB 01 2018
WATER RESOURCES WESTERN REGION

MINIMUM REQUIREMENTS CHECKLIST
TO BE SUBMITTED WITH APPLICATION FOR TRANSFER

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

Name of Applicant(s) State of Idaho Idaho Water Resource Board

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

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

Attachments to Application - Label each attachment with the corresponding number shown below as Attachment #1-10.

☐	☑	#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: application narrative

SUPPORT DATA

IN FILE # 2-10300A

Rev. 01/15

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JAN 29 2018
DEPARTMENT OF WATER RESOURCES

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1

RECEIVED
FEB 01 2018
WATER RESOURCES WESTERN REGION

Name of Applicant(s) State of Idaho Idaho Water Resource Board Phone (208) 287-4800

Mailing address 322 E. Front St., P.O. Box 83720, Boise, ID 83720-0098 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 Ann Vonde, Deputy Attorney General Phone (208) 334-4141

Mailing address Office of the Attorney General, P.O. Box 837210, Boise, ID 83720-0010 Email ann.vonde@ag.idaho.gov

☐ 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.

Signature of Applicant or Authorized Representative	Print Name and Title if applicable	Date
B - Patton	Brian Patton, Executive Officer, IWRB	1/29/18

A. PURPOSE OF TRANSFER

1. ☑ Change point of diversion ☐ Add diversion points ☑ 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.**

The applicant seeks to authorize and develop a replacement source of water supply for Mountain Home Air Force Base by changing applicant-owned water rights for irrigation to municipal use at the Base and construction of a new pump station and delivery pipeline to the place of use.

82123

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STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1 Continued

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

1.

All	Part	Right Number	Amount (cfs/ac-ft)	Nature of Use	Period of Use	Source & Tributary
☑	☐	2-10300A	8.00	municipal	4/1 to 10/31	Snake R./Columbia R.
☑	☐	2-10300B	8.00	municipal	4/1 to 10/31	Snake R./Columbia R.
☑	☐	2-10506	4.50	municipal	4/1 to 10/31	Snake R./Columbia R.
☐	☐				to	
☐	☐				to	
☐	☐				to	
☐	☐				to	
☐	☐				to	
☐	☐				to	

Total authorized under rights 12.50 cfs and/or 2,500 acre-feet.

2. Total amount of water proposed to be transferred or changed 12.50 cubic feet per second and/or 2,500 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 #
Y	4		SW	SW	22	5S	4E	Elmore	Snake River	

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	

Municipal Service Area of Mountain Home Air Force Base

Total Acres (for irrigation use)

82123

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:
The diversion system will consist of a pump station located near the Snake River, approximately 14 miles of pipe to a water quality treatment plant, and delivery in the current municipal distribution system. A measuring device and lockable controlling works will be installed as required.

b. Who owns the property at the point(s) of diversion? United States of America - Bureau of Land Management
If other than the applicant, describe the arrangement enabling the applicant to access the property for the diversion system:
Pending application IDI-38314; see attached narrative for additional information

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: not applicable

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:
See Attachment 7b.

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:
See narrative

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?

Note: Current IWSB leases expire on 12/31/2019 for all water rights

If yes, describe:
See Attachment WSB

82123

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

Current Water Right No.: 2-10300A

Current Owner: STATE OF IDAHO

Priority Date: 2/25/1963

Origin: Water Right

Status: Water Supply Bank Active

Basis: Decreed

Source	Tributary
SNAKE RIVER	COLUMBIA RIVER

Beneficial Use	From To	Diversion Rate	Annual Volume
IRRIGATION	04/01 to 10/31	8 CFS	1338.95 AF
	Total Diversion	8 CFS	1338.95 AF

Location of Point(s) of Diversion

SNAKE RIVER L4(SE1/4SW1/4SW1/4) Sec. 22, Twp 05S, Rge 04E B.M.
ELMORE County

Place of Use

IRRIGATION Within ELMORE County

T04S R04E S32	NWNE	40.00	T04S R04E S32	SWNE	39.00
T04S R04E S32	NENW	40.00	T04S R04E S32	SWNW	2.00
T04S R04E S32	SENW	40.00	T04S R04E S32	NESW	40.00
T04S R04E S32	NWSW	40.00	T04S R04E S32	SWSW	40.00
T04S R04E S32	SESW	40.00	T04S R04E S32	NWSE	39.00
T04S R04E S32	SWSE	40.00			

Total Acres: 400

Conditions of Approval:

1.	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.
2.	X35	Rights 2-10300A and 2-10300B when combined shall not exceed a total diversion rate of 8.00 cfs, a total annual maximum diversion volume of 1600.0 af at the field headgate, and the irrigation of 400 acres.
3.	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.
4.	T07	The right holder shall accomplish the change authorized by this transfer within 5 years of the date of this approval.
5.	F06	The following rights are diverted through points of diversion described above: 2-2220, 2-2221, 2-2222, 2-2409, 2-7040, 2-7396, 2-10471, 2-10472, 2-10300A and 2-10300B.
6.	01M	After specific notification by the Department, the right holder shall install a suitable measuring device or shall enter into an agreement with the Department to use power records to determine the amount of water diverted and shall annually report the information to the Department.
7.	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.
8.	X61	The period of use for the irrigation described in this approval may be extended to a beginning date of 3/1and an ending date of 11/15 provided that beneficial use of the water can be shown and other elements of the right are not exceeded. The use of water before 4/1 and after 10/31 is subordinate to all water rights having no subordinated early or late irrigation use and a priority date earlier than 7/31/2012.

Decreed Date: 7/31/2012

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

Current Water Right No.: 2-10300B

Current Owner: STATE OF IDAHO

Priority Date: 5/10/1965

Origin: Water Right

Status: Water Supply Bank Active

Basis: Decreed

Source	Tributary
SNAKE RIVER	COLUMBIA RIVER

Beneficial Use	From To	Diversion Rate	Annual Volume
IRRIGATION	04/01 to 10/31	8 CFS	
	Total Diversion	8 CFS	

Location of Point(s) of Diversion

SNAKE RIVER L4(SE1/4SW1/4SW1/4) Sec. 22, Twp 05S, Rge 04E B.M.
ELMORE County

Place of Use

IRRIGATION Within ELMORE County

T04S R04E S32	NWNE	40.00	T04S R04E S32	SWNE	39.00
T04S R04E S32	NENW	40.00	T04S R04E S32	SWNW	2.00
T04S R04E S32	SENW	40.00	T04S R04E S32	NESW	40.00
T04S R04E S32	NWSW	40.00	T04S R04E S32	SWSW	40.00
T04S R04E S32	SESW	40.00	T04S R04E S32	NWSE	39.00
T04S R04E S32	SWSE	40.00			

Total Acres: 400

82123

Conditions of Approval:

1.	F06	The following rights are diverted through points of diversion described above: 2-2220, 2-2221, 2-2222, 2-2409, 2-7040, 2-7396, 2-10471, 2-10472, 2-10300A and 2-10300B.
2.	X35	Rights 2-10300A and 2-10300B when combined shall not exceed a total diversion rate of 8.00 cfs, a total annual maximum diversion volume of 1600.0 af at the field headgate, and the irrigation of 400 acres.
3.	X61	The period of use for the irrigation described in this approval may be extended to a beginning date of 3/1and an ending date of 11/15 provided that beneficial use of the water can be shown and other elements of the right are not exceeded. The use of water before 4/1 and after 10/31 is subordinate to all water rights having no subordinated early or late irrigation use and a priority date earlier than 7/31/2012.
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.	T07	The right holder shall accomplish the change authorized by this transfer within 5 years of the date of this approval.
6.	01M	After specific notification by the Department, the right holder shall install a suitable measuring device or shall enter into an agreement with the Department to use power records to determine the amount of water diverted and shall annually report the information to the Department.
7.	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.
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: 7/31/2012

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

Current Water Right No.: 2-10506

Current Owner: STATE OF IDAHO

Priority Date: 2/25/1963

Origin: Water Right

Status: Water Supply Bank Active

Basis: Decreed

Source	Tributary
SNAKE RIVER	COLUMBIA RIVER

Beneficial Use	From To	Diversion Rate	Annual Volume
IRRIGATION	04/01 to 10/31	4.5 CFS	900 AF
	Total Diversion	4.5 CFS	900 AF

Location of Point(s) of Diversion

SNAKE RIVER L4(SE1/4SW1/4SW1/4) Sec. 22, Twp 05S, Rge 04E B.M.
ELMORE County

Place of Use

IRRIGATION Within ELMORE County

T04S R04E S30	SENE	40.00	T04S R04E S30	NESW	40.00
T04S R04E S30	SWSW	40.00	T04S R04E S30	SESW	40.00
T04S R04E S30	NESE	40.00	T04S R04E S30	NWSE	40.00
T04S R04E S30	SWSE	40.00	T04S R04E S30	SESE	40.00
T04S R04E S31	SWSE	39.00	T04S R04E S31	SESE	40.00
T05S R04E S4	NWSW	40.00	T05S R04E S5	NWNW	38.00
T05S R04E S5	SWNW	40.00	T05S R04E S5	SENW	35.00
T05S R04E S5	NESW	39.00	T05S R04E S5	NWSW	40.00
T05S R04E S5	SWSW	39.00	T05S R04E S5	SESW	40.00
T05S R04E S5	NESE	40.00	T05S R04E S5	NWSE	37.00
T05S R04E S5	SWSE	40.00	T05S R04E S5	SESE	39.00
T05S R04E S6	NENE	39.00	T05S R04E S6	NWNE	40.00
T05S R04E S6	SWNE	40.00	T05S R04E S6	SENE	40.00
T05S R04E S6	NESE	40.00	T05S R04E S6	NWSE	40.00
T05S R04E S6	SWSE	40.00	T05S R04E S6	SESE	40.00
T05S R04E S7	NENE	40.00	T05S R04E S7	SENE	40.00
T05S R04E S8	SWNE	3.00	T05S R04E S8	NENW	40.00
T05S R04E S8	NWNW	40.00	T05S R04E S8	SWNW	40.00
T05S R04E S8	SENW	40.00			

Total Acres: 1428

82123

Conditions of Approval:

1.	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.
2.	X61	The period of use for the irrigation described in this approval may be extended to a beginning date of 3/1 and an ending date of 11/15 provided that beneficial use of the water can be shown and other elements of the right are not exceeded. The use of water before 4/1 and after 10/31 is subordinate to all water rights having no subordinated early or late irrigation use and a priority date earlier than 4/8/2008.
3.	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.
4.	F06	The following rights are diverted through point of diversion described above: 2-2220, 2-2221, 2-2222, 2-2409, 2-7040, 2-7396, 2-10471, 2-10472 and 2-10506.
5.	X27	This right is limited to the irrigation of 225 acres within the authorized place of use in a single irrigation season.
6.	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.
7.	01M	After specific notification by the Department, the right holder shall install a suitable measuring device or shall enter into an agreement with the Department to use power records to determine the amount of water diverted and shall annually report the information to the Department.
8.	T07	The right holder shall accomplish the change authorized by this transfer within five years of the date of this approval.

Decreed Date: 4/8/2008

Rev. 01/15

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR TRANSFER OF WATER RIGHT
PART 2

A. DESCRIPTION OF RIGHT(S) AS RECORDED

For each water right listed in Part 1B.1 of the application, attach a **Part 2A** report obtained from any Department office or from the Department's website @ www.idwr.idaho.gov, Water Right Transfers, Step 1.
Insert Part 2A reports into the application following Part 1.

B. IF ONLY A PORTION OF THE RIGHT IS PROPOSED TO BE CHANGED, DESCRIBE THE PORTION BEING CHANGED AS IT APPEARS BEFORE THE REQUESTED CHANGES

☐ 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.

Right Number: ______________

1. amount ______________ (cfs/ac-ft) for ______________________ purposes from __________ to __________
   amount ______________ (cfs/ac-ft) for ______________________ purposes from __________ to __________
   amount ______________ (cfs/ac-ft) for ______________________ purposes from __________ to __________
   amount ______________ (cfs/ac-ft) for ______________________ purposes from __________ to __________
   amount ______________ (cfs/ac-ft) for ______________________ purposes from __________ to __________
   amount ______________ (cfs/ac-ft) for ______________________ purposes from __________ to __________
   amount ______________ (cfs/ac-ft) for ______________________ purposes from __________ to __________
   amount ______________ (cfs/ac-ft) for ______________________ purposes from __________ to __________
2. Lands irrigated or place of use: (If irrigation, identify with number of acres irrigated per ¼ ¼ tract.)

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) ☐

82123

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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 rights(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:

FOR DEPARTMENT USE ONLY

Transfer contains 12 pages and 5 attachments.

Received by SK Date 1/29/2018 Preliminary check by AA Date 3/15/18

*Fee paid N/A Date N/A Receipted by N/A Receipt # N/A

Add'l fee paid _____ Date _____ Receipted by _____ Receipt # _____

Check all that apply: Attachment WSB ☑ (copy sent to state office) → 2/8/18 Lessor Designation form ☐ &/or W-9 ☐ (originals to state office)

* NO FEE REQUIRED FOR IWRB PER I.C. 42-1734(6).

82123

82123

09/14

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Transfer No. _____

APPLICATION FOR TRANSFER OF WATER RIGHT
ATTACHMENT WSB:
TRANSFERRING WATER RIGHTS LEASEDTO THE WATER SUPPLY BANK

Approval of a transfer application will not impact the terms of a Water Supply Bank Lease Contract. Any transferred water right or portion of a water right that is leased to the Water Supply Bank (Bank) shall remain unused while the lease is active.

If the transfer proposes to relocate the place of use of an irrigation water right, and the relocated acres include land currently idled due to a Bank lease contract, the applicant is required to identify the areas that will be idled at the new place of use for the duration of the lease contract. The acres to be idled should be clearly identified on the map created for Attachment 7B of the transfer application. The applicant should confirm the map is attached when completing the table below. If the leased portion of the place of use is not proposed to be relocated, a map is not required.

A Bank lease contract shall remain in effect until it expires, a new lease proposal is processed to replace it, or the water right is released from the Bank through written confirmation issued by the Water Resource Board. If the proposed transfer is approved, the water right owner will be provided sufficient time to allow the lease contract to expire before beneficial use of water at the new place of use will be expected. Meanwhile, water rights leased to the Bank are protected from forfeiture for the duration of the lease contract.

Water right owners who would like to adjust the terms of their lease contracts can either submit a new lease proposal on an Application to Lease a Water Right to the Water Supply Bank form, or they can request early termination of their lease contracts by completing a Request to Release a Water Right from the Water Supply Bank form. If a water right is leased to the Bank, and it is currently being rented from the Bank, the lease cannot be reduced or terminated until the rental agreement concludes. A request to release a water right or to submit a new lease application should be sent to the Department's state office. To find out if there are any rentals associated with a leased water right, please call a Bank representative at the Department at 208-287-4800.

In the table below, please provide the requested information for any water right that is both proposed for transfer and leased to the Bank. The information needed to complete this table can be found in your Bank lease contract. A copy of your lease contract can be obtained using the 'Search Water Rights' option on the Department's internet page at www.idwr.idaho.gov or by contacting any Department office.

Water Right Number	Lease Contract Expiration Date	Water Right Quantities Leased to the Bank			Map Attachment 7B Clearly Identifies Idled Place of Use at New Location
		Rate (cfs)	Volume (AF)	Acres	
2-10300A	12/31/2019	8.0	1338.95	400	Attached? ☑ or No Change ☐
2-10300B	12/31/2019	8.0		400	Attached? ☑ or No Change ☐
2-10506	12/31/2019	4.5	900	225	Attached? ☑ or No Change ☐
					Attached? ☐ or No Change ☐
					Attached? ☐ or No Change ☐
					Attached? ☐ or No Change ☐
					Attached? ☐ or No Change ☐

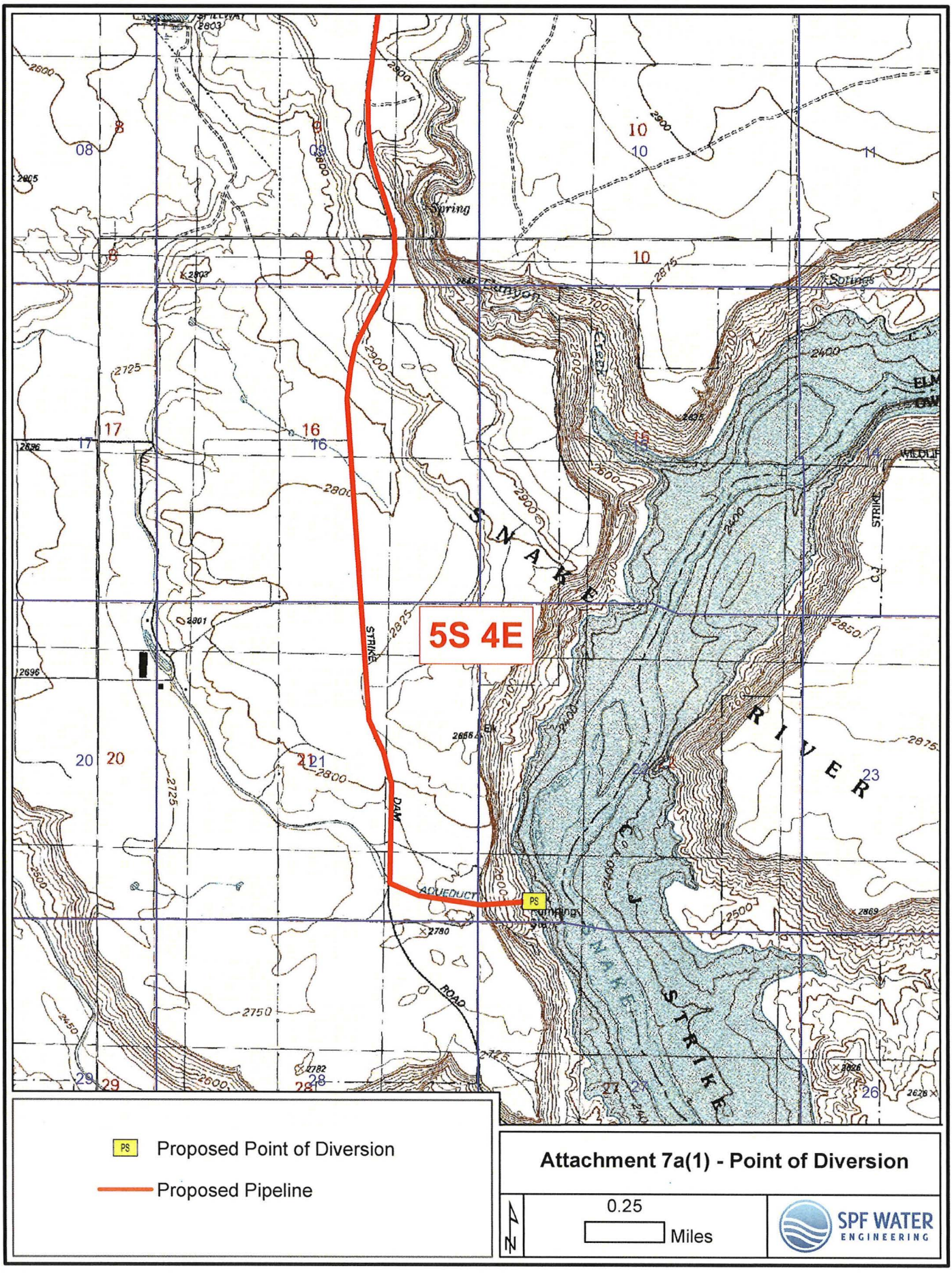
Is the ownership of the water right(s) leased to the Bank being changed? ☐ Yes ☑ No

- ☐ If yes and there are multiple owners, attach a Lessor Designation form.
- ☐ If yes, the individual owner or designated lessor must complete, sign and attach an IRS Form W-9.

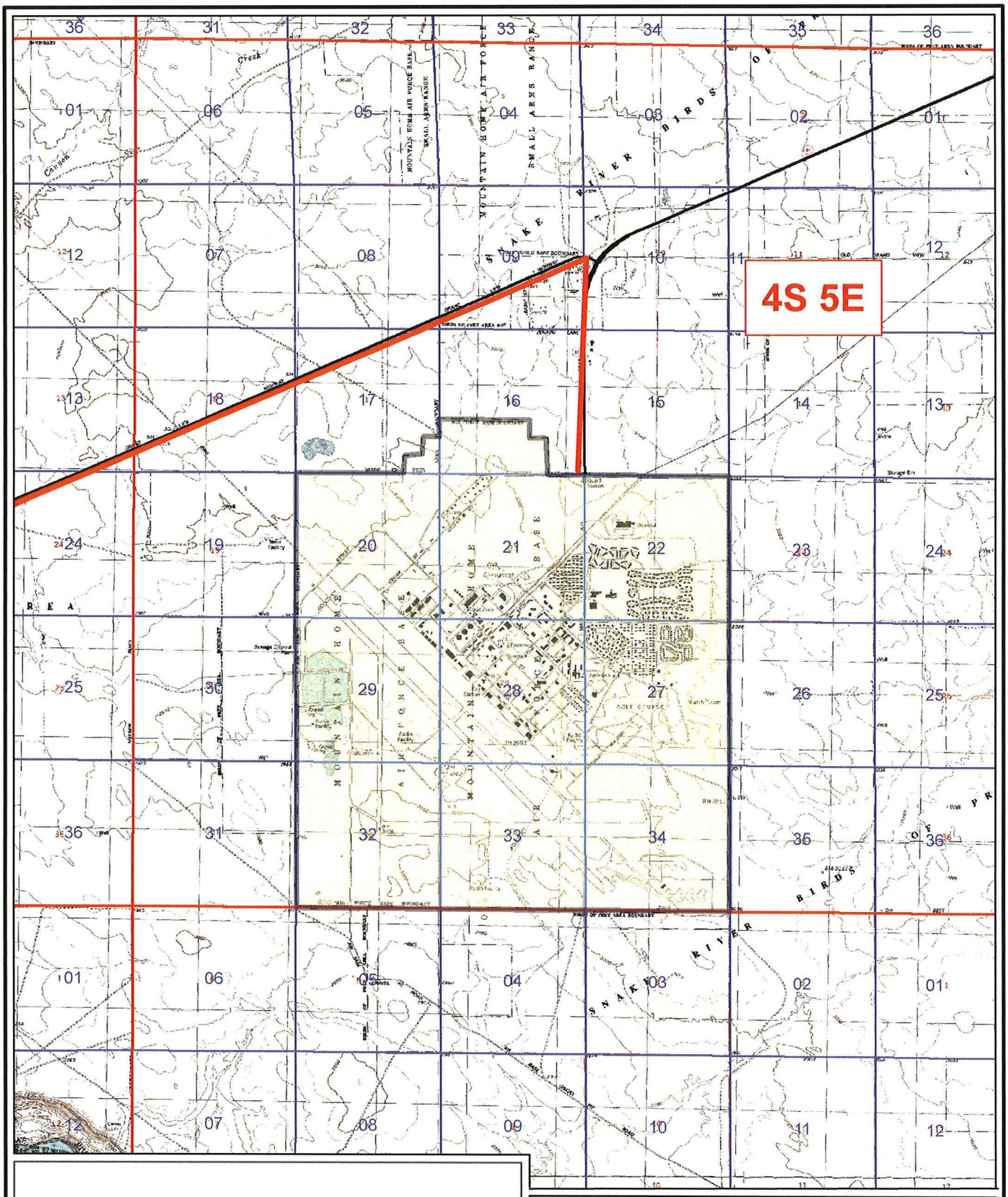
Additional Information:
The transfer application proposes a change from irrigation to municipal use on Mountain Home Air Force Base. The subject water rights will remain in the IWRB Water Supply Bank until construction of the pump station and pipeline is complete and distribution in the municipal service area commences.

Agency Use Only: Personnel processing transfer applications should forward a copy of this attachment, the original Lessor Designation form and/or IRS Form W-9, if received, to the State Office.

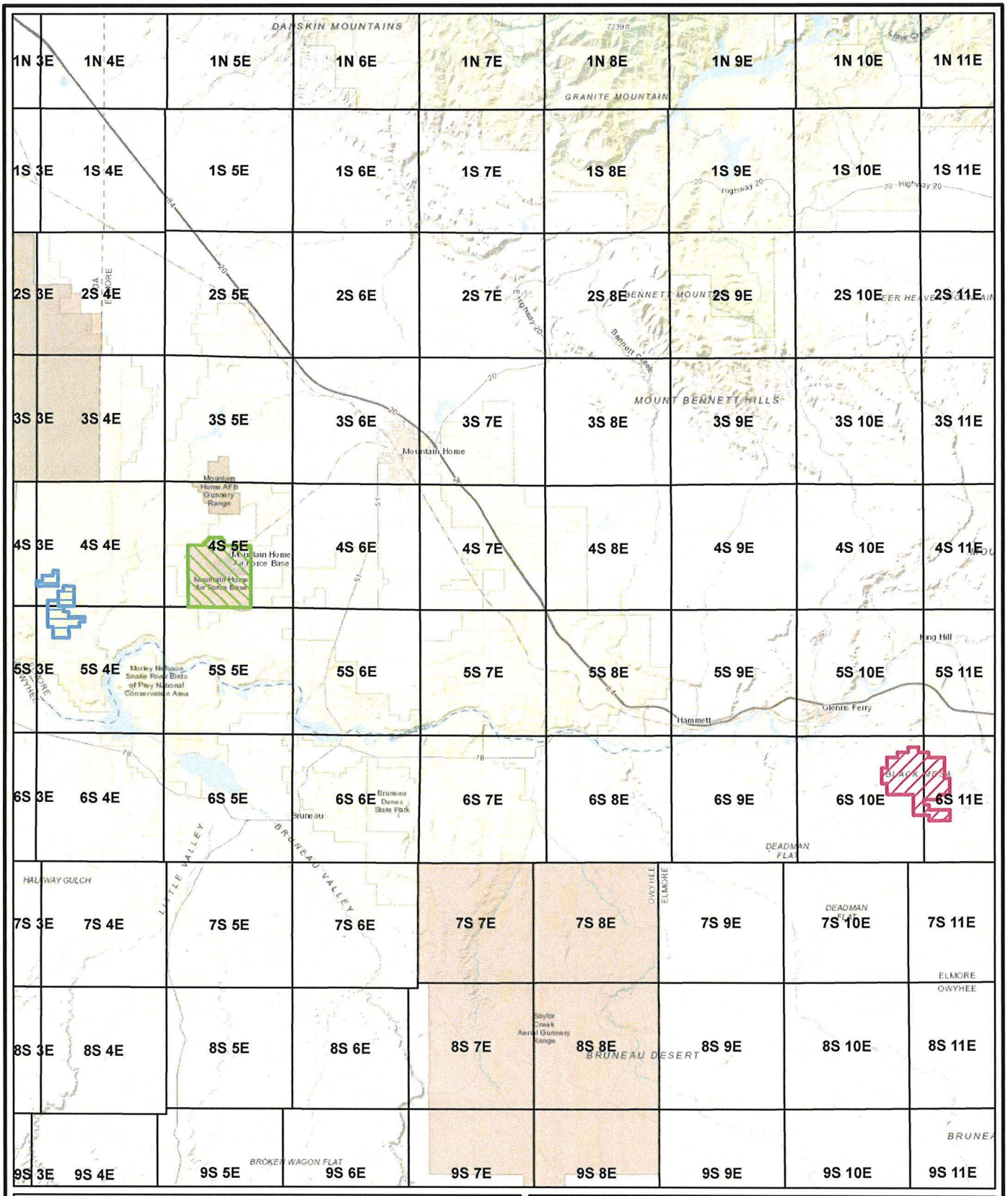
82123


5S 4E
SNAKE RIVER
STRIKE
DAM
AQUEDUCT
PS
ROAD
Spring
Canyon
Creek
Springs
PS Proposed Point of Diversion
Proposed Pipeline
Attachment 7a(1) - Point of Diversion
0.25
Miles
N
SPF WATER ENGINEERING

82123

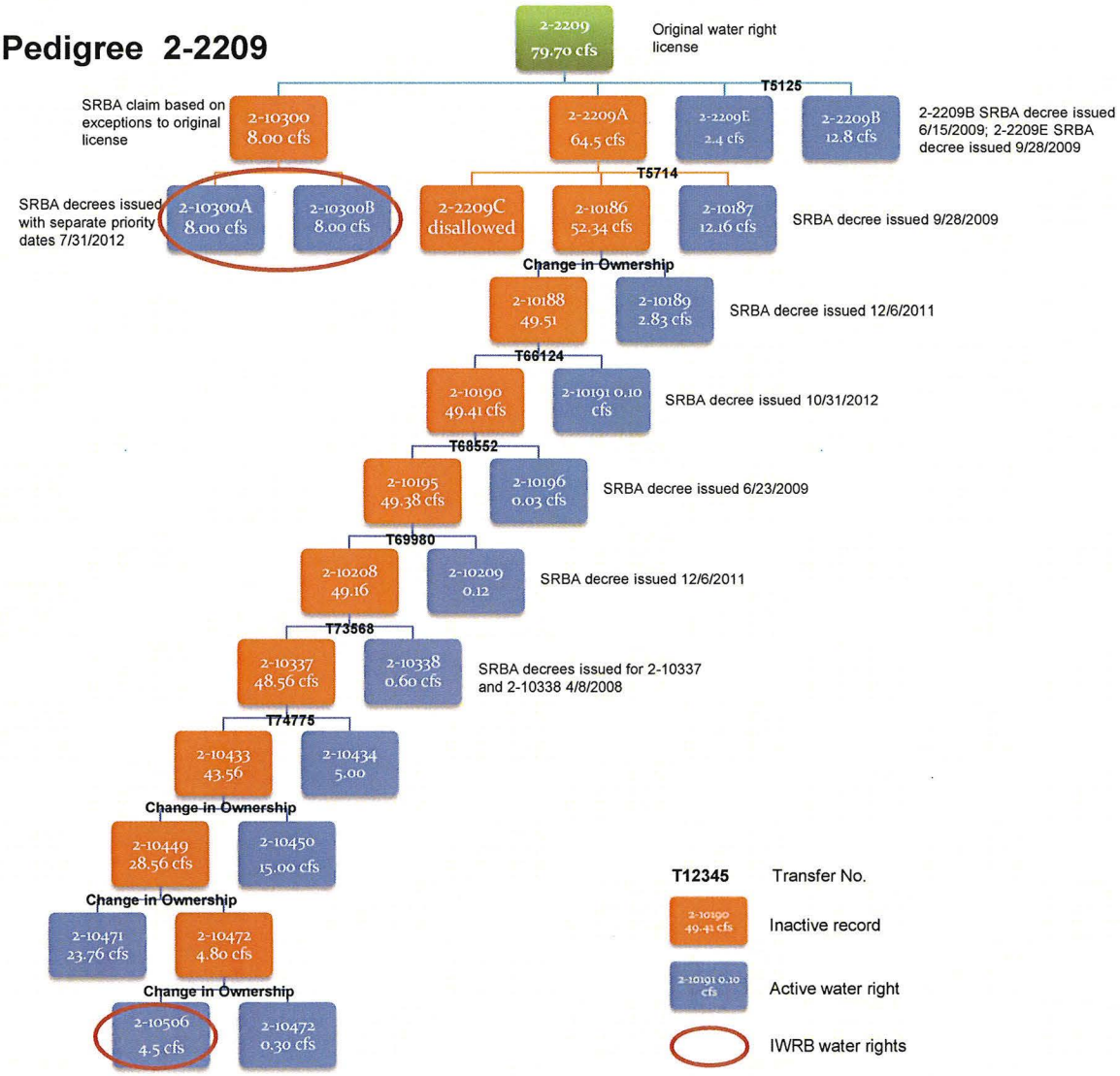

4S 5E
Proposed Pipeline
Proposed Municipal Service Area
Attachment 7a(2) - Municipal Service Area
1
Miles
N
SPF WATER ENGINEERING

82123


1N 3E
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DAISKIN MOUNTAINS
GRANITE MOUNTAIN
MOUNT BENNETT HILLS
Mountain Home
Mountain Home AFB Gunnery Range
Mountain Home Air Force Base
Morley Nelson Snake River Birds of Prey National Conservation Area
Hammett
Glenns Ferry
King Hill
Bruneau
Bruneau Dunes State Park
BRUNEAU VALLEY
LITTLE VALLEY
HALFWAY GULCH
DEADMAN FLAT
Saylor Creek Aerial Gunnery Range
BRUNEAU DESERT
BROKEN WAGON FLAT
OWYHEE
ELMORE
Original Place of Use
Currently Authorized Place of Use
Proposed Place of Use
Attachment 7b - Current and Proposed Place of Use
N
5
Miles
SPF WATER ENGINEERING

82123

Water Right Pedigree 2-2209



SPF WATER ENGINEERING

MEMORANDUM

DATE: January 24, 2018

RE: Additional Information for Idaho Water Resource Board Water Right Applications
- Transfer Application for Water Right Nos. 2-10300A, 2-10300B, 2-10506
- Permit Application for Non-Irrigation Season Municipal Use

Background

Mountain Home Air Force Base (MHAFB, or the Base) currently provides water to its residents and employees as a qualified municipal provider (IDEQ ID4200054). The Base water delivery system also provides water to support the military mission (aircraft maintenance, etc.), and for irrigation of the Base golf course. The water right portfolio owned by MHAFB authorizes diversions from groundwater wells located within the Mountain Home Groundwater Management Area. Groundwater levels in the area continue to decline and MHAFB projects its ground water supply will be insufficient to meet its needs within the next 30-36 years.[1]

Mountain Home Air Force Base is an important economic driver for the state of Idaho with a total estimated annual economic impact of one billion dollars. It is also important to the economies of Elmore County and the City of Mountain Home and provides approximately 5,300 direct jobs to the area. MHAFB must secure a reliable source of water for the Base to remain in operation and continue to meet its national security functions. To meet the current demands of MHAFB and guarantee a sustainable source of supply into the future, the Base teamed with the Office of the Governor, the Idaho Legislature, and the Idaho Water Resource Board (IWRB, or the Board) to replace its groundwater municipal water supply with surface water diverted from the Snake River. In 2014, the Idaho Legislature appropriate $4.5 million one-time funds for acquisition of senior priority water rights to supply MHAFB (HB 479). Using a portion of these funds, the Board purchased Snake River water rights 02-10300A, 02-10300B, and 02-10506 (formerly used for irrigation purposes).

The Board proposes transferring water rights 02-10300A, 02-10300B, and 02-10506 as described in its transfer application and this narrative. In addition, the Board proposes a new appropriation from the Snake River to provide water for municipal use on the Base during the non-irrigation season.

[1] *Water Resources Sustainability Analysis, Mountain Home Air Force Base, Elmore County, Idaho* (AECOM, 2010)

300 E. Mallard Drive, Suite 350, Boise, Idaho 83706 Tel: 208-383-4140 Fax: 208-383-4156

Qualification as a Municipal Provider

Mountain Home Air Force Base currently provides water to its residents and employees as a qualified municipal provider. The Air Force owns five groundwater rights for municipal use (Table 1). The water supply system that delivers municipal water within the MHAFB service area is already constructed and fully operational. It is currently regulated as a public water supply under I.C. § 39-103(12) (PWS No. ID4200054).

Pursuant to contractual agreement, the Board will assume the role of municipal provider that is currently filled by MHAFB. The current water supply infrastructure serving MHAFB will remain in place. The Board will provide water from the Snake River via a pump station and pipeline to a water treatment facility located on land leased from MHAFB. The IWRB will own the water rights, pump station, pipeline, and water treatment facility. As the municipal service provider, the Board will be responsible for delivering water to certain points of connection with the existing MHAFB water delivery infrastructure. Pursuant to I.C. § 39-103(12), the IWRB has been issued PWS No. ID4200106.

Table 1. MHAFB Water Rights

Water Right No.	Priority Date	Water Use	Source	Diversion Rate (cfs)	Diversion Volume (ac-ft)	Combined Diversion Volume (ac-ft)	Combined Diversion Volume (ac-ft)
61-7224	4/22/1975	Municipal	Groundwater	4.23	3,062.0		6,137.0
61-11940	12/31/1943			4.01	2,895.2	3,075.0	
61-11941	12/31/1955			4.01			
61-11942	12/31/1953			0.04	26.0		
61-11943	12/31/1962			4.90			
TOTAL				**17.19**			**6,137.0**

Service Area

The proposed service area is the area within the boundary of MHAFB served by its public water supply delivery system. A shapefile depicting the current service area can be found in IDWR's geographic information system (GIS) database. The water right permit and transfer applications adjust the municipal service area to more correctly identify the municipal service area boundary.

Current Water Demand

AECOM analyzed water production on the Base from 1999 to 2011 to calculate historic average daily demand, maximum day demand, and winter water demand.[2] Their findings are summarized in Table 2. We assume these values describe current water diversion demands for the Base. We also assume that "winter baseline" use is equivalent to domestic use on the Base.

Table 2. Current Water Demands

Time Period	Average Day Demand (ADD)		Maximum Day Demand (MDD)		Winter Baseline (domestic use)	
	MGD	cfs	MGD	cfs	MGD	cfs
Historic*	1.6	2.48	8	12.38	0.47	0.73

* 2010 was chosen by AECOM as representative of ADD under current population scenarios; 8.0 MGD was chosen as the historic MDD based on the capacity of the supply wells during the period of review.

Future Water Demands

Activities on MHAFB are mission-driven and based on congressional actions. Projected changes in Base population are very difficult to predict, but the permit and transfer applications assume the population could increase to the full capacity of housing and other facilities currently constructed and maintained on MHAFB. Although the Base currently deploys three squadrons of aircraft, the hangers, maintenance shops, runways and other facilities have supported a five-squadron mission as recently as 2001. Base population and activity could increase to the five-squadron capacity at any time, depending on the needs of the military.

AECOM completed a study of the sustainability of Base water supply from existing groundwater wells (AECOM, 2010). The AECOM study estimated the Mountain Home aquifer would support pumping from MHAFB's existing water supply wells for only 30 to 36 years from the date of the report and recommended the Base immediately begin developing a more sustainable source of supply. Based on AECOM's findings, the groundwater supply is predicted to decline over the years and become unsustainable at some time between 2040 and 2046. The applications propose a 25-year planning horizon (2018-2043) based on the predicted need for a viable replacement water supply from the Snake River as the aquifer declines.

[2] *Alternative Water Supply Feasibility Study Mountain Home Air Force Base, Elmore County, Idaho* (AECOM, May 2012)

Diversion Rate Demands

Future average and maximum year-round daily water demands, and winter (i.e., non-irrigation season) water demands (AECOM, 2012) are summarized in Table 3. Winter peak day water demands reported in Table 3 were calculated by SPF using a winter peaking factor of 1.7, based on data available for municipal areas in Idaho similar to MHAFB at maximum population.

Table 3. Future Water Demands

Time Period	Year-Round, All Uses				Year-Round, Domestic Use Only			
	Average Day Demand (ADD)		Maximum Day Demand (MDD)		Winter Average Day Demand		Winter Peak Day Demand	
	MGD	cfs	MGD	cfs	MGD	cfs	MGD	cfs
2018-2043 (maximum Base population	2.5	8.87	8.47	13.11	0.94	1.45	1.6	2.47

Annual Volume Demands

AECOM calculated the future water demand volume to be 2,814 acre-feet per year (917 MGY), based on (1) a doubling of baseline water demands, (2) 10% future aquifer-storage-and-recovery (ASR) losses, and (3) 10% water treatment losses (AECOM, 2012). An ASR system is not contemplated at this time; subtracting ASR losses (76 MGY) from the total results in a future water demand projection of 2,581 acre-feet per year (841 MGY).

Using different methodology, SPF Water Engineering (SPF) analyzed water demand volume produced during the period of time that MHAFB deployed five squadrons (the maximum Base capacity described in the section above titled "Planning Horizon"). During that time period (1999-2004), the Base wells produced between 2,157-2,743 acre-feet annually. Average production during this time period was 2,486 acre-feet, a value that approaches AECOM's projection.

Gap Analysis

The applicant proposes a water supply from the Snake River to replace the current groundwater supply used by MHAFB. The groundwater wells will be maintained as a backup source of supply for use only during emergency interruption of the Snake River supply (e.g. pipeline or treatment plant failure).

The entire diversion rate and/or volume proposed by the permit or transfer applications will be used to meet projected future water demands at MHAFB within the proposed 25-year planning horizon.

Transferrable Volume (Water Right Nos. 2-10300A, 2-10300B, 2-10506)

The transfer applicant proposes changing the nature of use of water rights 2-10300A, 2-10300B, and 2-10506 from irrigation to municipal use for reasonably anticipated future needs (RAFN).[3] The applicant further proposes the transferrable volume be calculated separately for the domestic use portion and irrigation portion of the proposed municipal use. The final transferrable volume will be the sum of these components.

AECOM calculated the winter water demand as shown in Table 2. We assume "winter water demand" is the portion of water used for domestic purposes without additional irrigation water demand. This is equivalent to the year-round domestic demand.

The applicant proposes the transferred domestic use component of MHAFB demands be subject to a "trim" based on the historical consumptive use volume (CU) calculated for the water rights subject to the transfer. SPF's calculation of CU is based on precipitation deficit data obtained from the ET_{Idaho} website for the Glenns Ferry Agrimet Station (Table 3) and a typical crop rotation for production of potatoes provided by the University of Idaho Elmore County Extension Service (Table 4).[4]

Table 4. Precipitation Deficit for Crops of Interest

Mean Growing Season Precipitation Deficit			
Crop	**mm**	**in**	**ft**
alfalfa - frequent cuttings	1101	43.3	3.61
potatoes - cold pack (late harvest)	651	25.6	2.14
spring grain - irrigated	636	25.0	2.09
sugar beets	973	38.3	3.19
Source: ET_{Idaho} 2012, Glenns Ferry Agrimet Station			

[3] The proposed transfer will also change the point of diversion and place of use descriptions of these rights.

[4] It is likely the crop of greatest interest at the original location was potatoes (which require crop rotation) based on nearby farming practice and the need for high-value crop production to off-set high-lift pumping costs from the Snake River.

The following values were used to calculate irrigation-season demand for domestic use:

1. Daily water demands at MHAFB for domestic use are assumed to be equivalent to winter water demand in the AECOM report.
2. The future winter water demand volume is 0.94 million gallons per day (Table 2), which is equivalent to 2.88 ac-ft per day.
3. The average consumptive use volume for irrigation at the original location of the water rights is 2.91 ac-ft per acre (Table 4).
4. The irrigation season at this location is April 1 to October 31 (214 days).

Table 5. Consumptive Use Volume for Crops of Interest

Year	Assumed Crop Type	CU Volume (ac-ft/ac)
1	Alfalfa	3.61
2	Alfalfa	3.61
3	Alfalfa	3.61
4	Potatoes (storage)	2.14
5	Grain (assume spring grain)	2.09
6	Sugar Beets	3.19
7	Grain (assume spring grain)	2.09
Average CU Volume		**2.91**
Source: U of I Elmore County Extension Service		

Using these values, the volume needed to meet the irrigation season domestic demands at MHAFB is 616 ac-ft (2.88 ac-ft per day x 214 days). The area required to supply irrigation season domestic use is 212 acres (616 ac-ft/2.91 ac-ft per acre).

The remainder of the water right area can be transferred directly from irrigation use at the original location to irrigation use on MHAFB: (625 original acres – 212 acres "retired" to meet domestic demands = 413 acres). The transferrable volume for the irrigation portion of the transfer is based on the volume authorized by the original water rights (4 ac-ft per acre). The resulting volume for the irrigation component of the transfer is 1,652 ac-ft (413 acres x 4 ac-ft per acre).

The transferrable volume calculation is summarized in Table 5.

Table 6. Transferrable Volume

Value	Transferable Water Right Volume Calculations		
	Non-Irrigation Use		
A	Non-Irrigation Demand (AECOM, 2012)	ac-ft per day	2.88
B	Irrigation Season (4/1-10/31)	days	214
C	**Transferrable Volume for Non-Irrigation Use During the Irrigation Season (A x B)**	**af**	**616**
	Irrigation Use		
D	Original Water Right Acres	acres	625
E	Estimated Historical Water Right Consumptive Use Per Acre	af	2.91
F	Irrigation Acres "Retired" to Meet Irrigation Season Domestic Use (C/E)	acres	212
G	Acres Transferrable for Irrigation Use (D-F)	acres	413
H	Original Water Right Volume per acre	af	4.0
I	**Transferrable Volume for Irrigation Use (G x H)**	**af**	**1652**
Total Transferrable Volume to Transfer (C + I)		**af**	**2268**

Access to the Proposed Point of Diversion

The Board submitted its "Application for Transportation and Utility Systems and Facilities on Federal Lands" (ROW application) to the USDI-Bureau of Land Management (BLM) on January 20, 2017. The application was drafted early in the project development process and prior to issuance of the Environmental Assessment (EA) through which a preferred alignment alternative was identified. The original ROW application identified several potential alignments and potential points of diversion.

Following the submittal of the ROW application, the IWRB submitted a Preliminary Plan of Development to BLM on April 13, 2017, which informed the EA process and will continue to be updated as the project develops. The final EA and Findings of No Significant Impact (FONSI) were signed on December 4, 2017 and posted in the federal register on December 6, 2017. The project Plan of Development will be finalized later in the process as the project design is completed, at which time the BLM will issue a Final ROW Grant.

IDAHO DEPARTMENT OF
WATER RESOURCES

Western Region • 2735 W Airport Way • Boise, ID 83705-5082
Phone: 208-334-2190 • Fax: 208-334-2348 • Email: westerninfo@idwr.idaho.gov • Web: idwr.idaho.gov

Governor Brad Little **Director Mathew Weaver**

June 14, 2024

ATTN: CYNTHIA BRIDGE CLARK
IDAHO WATER RESOURCE BOARD
322 E FRONT ST
PO BOX 83720
BOISE ID 83720-0098

RE: Withdrawal of Transfer Application No. 82123

Dear Applicant(s):

Thank you for your recent withdrawal of the above referenced application. Our letter to you dated June 6, 2024 incorrectly referenced application no. 65-23043. We apologize for the error.

Please contact our office at (208) 334-2190 if you have any questions concerning this matter. More information about water rights and other matters administrated by this agency is available on the Internet at www.idwr.idaho.gov.

Sincerely,

Lynne Evans
Administrative Assistant I

Enclosures

CC: Ann N. Yribar, Deputy Attorney General

IDAHO DEPARTMENT OF
WATER RESOURCES

Western Region • 2735 W Airport Way • Boise, ID 83705-5082
Phone: 208-334-2190 • Fax: 208-334-2348 • Email: westerninfo@idwr.idaho.gov • Web: idwr.idaho.gov

Governor Brad Little **Director Mathew Weaver**

June 6, 2024

ATTN: CYNTHIA BRIDGE CLARK
IDAHO WATER RESOURCE BOARD
322 E FRONT ST
PO BOX 83720
BOISE ID 83720-0098

RE: Withdrawal of Application No. 65-23043

Dear Applicant(s):

Thank you for your recent withdrawal of the above referenced application. A copy of the application and withdrawal are enclosed for your reference.

Please contact our office at (208) 334-2190 if you have any questions concerning this matter. More information about water rights and other matters administrated by this agency is available on the Internet at www.idwr.idaho.gov.

Sincerely,

Lynne Evans
Administrative Assistant I

Enclosures

CC: Ann N. Yribar, Deputy Attorney General

Miller, Nick

From: Miller, Nick
Sent: Wednesday, February 15, 2023 3:37 PM
To: Ann Yribar
Cc: Patton, Brian; Clark, Cynthia Bridge
Subject: RE: MHAFB Application for Transfer

Will do.

Thanks.

Nick.

From: Ann Yribar <ann.yribar@ag.idaho.gov>
Sent: Wednesday, February 15, 2023 3:36 PM
To: Miller, Nick <Nick.Miller@idwr.idaho.gov>
Cc: Patton, Brian <Brian.Patton@idwr.idaho.gov>; Clark, Cynthia Bridge <Cynthia.Clark@idwr.idaho.gov>
Subject: RE: MHAFB Application for Transfer

Hi Nick,

If you could continue to hold on the Transfer that would be great. We just want to move the application forward at this point.

Thanks,

Ann N. Yribar | Deputy Attorney General
Energy and Natural Resources Division
Office of the Attorney General | State of Idaho
Office: 208.334.4141 | Fax: 208.854.8072
ann.yribar@ag.idaho.gov

From: Miller, Nick <Nick.Miller@idwr.idaho.gov>
Sent: Wednesday, February 15, 2023 3:34 PM
To: Ann Yribar <ann.yribar@ag.idaho.gov>
Cc: Patton, Brian <Brian.Patton@idwr.idaho.gov>; Clark, Cynthia Bridge <Cynthia.Clark@idwr.idaho.gov>
Subject: MHAFB Application for Transfer

Hi Ann,

I received your letter from January 23, 2023, regarding the application for permit and I am preparing a letter to get that application moving. Your letter did not address the pending application for transfer that was filed at the same time.

Is the IWRB wanting to move forward with that transfer as well? If so, let me know and I can get that moving. If you want me to continue to hold it, that is fine. Just let me know.

Thanks,

Nick.

NOTICE: This message, including any attachments, is intended only for the individual(s) or entity(ies) named above and may contain information that is confidential, privileged, attorney work product, or otherwise exempt from disclosure under applicable law. If you are not the intended recipient, please reply to the sender that you have received this transmission in error, and then please delete this email.

IDAHO DEPARTMENT OF
WATER RESOURCES

Western Region • 2735 W Airport Way • Boise, ID 83705-5082
Phone: 208-334-2190 • Fax: 208-334-2348 • Email: westerninfo@idwr.idaho.gov • Web: idwr.idaho.gov

Governor Brad Little

Director Gary Spackman

September 23, 2022

STATE OF IDAHO WATER RESOURCE BOARD
C/O BRIAN PATTON, EXECUTIVE OFFICER
PO BOX 83720
BOISE ID 83720-0098
VIA Email: Brian.Patton@idwr.idaho.gov

RE: IWRB Applications for transfer no. 82123 and permit 2-10556 – Request for additional time

Dear Mr. Patton:

The Idaho Department of Water Resources (IDWR) received Ann Yribar's September 16, 2022, letter, submitted on behalf of the Idaho Water Resource Board (IWRB). The letter requests an additional year to respond to IDWR's April 11, 2018, additional information request for the subject applications. The request for additional time is granted. The information IDWR requested is due September 22, 2023. Please provide a written response, or a request for additional time to submit the information by that date. If a written response is not received, the applications will be returned. Please contact me at 208-334-2190 if you have any questions.

Regards,

Nick Miller
Manager, IDWR Western Region

cc. Ann Yribar – Office of Attorney General - ann.yribar@ag.idaho.gov
Cynthia Bridge Clark – Idaho Water Resource Board - Cynthia.Clark@idwr.idaho.gov

RECEIVED
SEP 19 2022
WATER RESOURCES
WESTERN REGION

STATE OF IDAHO
OFFICE OF THE ATTORNEY GENERAL
LAWRENCE G. WASDEN

September 16, 2022

Nick Miller
Idaho Department of Water Resources
Western Regional Office
2735 W. Airport Way
Boise, ID 83705-5082

Dear Mr. Miller,

The Idaho Water Resource Board ("IWRB") is in receipt of your request for additional information on its Application for Transfer No. 82123 and Application for Permit No. 02-10556. By letter dated September 1, 2020, the IWRB requested, and was granted, an extension of time until September 16, 2021 to respond to your request. Negotiations with the Mountain Home Airforce Base regarding water use on the base continue to be ongoing. Therefore, the IWRB would like to request an additional year to respond to your information request so as to continue to actively pursue these negotiations. Please contact me if you have any question or concerns regarding this request.

Sincerely,

ANN YRIBAR
Deputy Attorney General

AY/mb
cc: Cynthia Bridge-Clark
Brian Patton

Natural Resources Division
P.O. Box 83720, Boise, Idaho 83720-0010
Telephone: (208) 334-2400, FAX: (208) 854-8072
Located at 700 W. State Street
Joe R. Williams Building, 2nd Floor

IDAHO DEPARTMENT OF
WATER RESOURCES

Western Region • 2735 W Airport Way • Boise, ID 83705-5082
Phone: 208-334-2190 • Fax: 208-334-2348 • Email: westerninfo@idwr.idaho.gov • Web: idwr.idaho.gov

Governor Brad Little **Director Gary Spackman**

September 16, 2021

STATE OF IDAHO WATER RESOURCE BOARD
C/O BRIAN PATTON, EXECUTIVE OFFICER
PO BOX 83720
BOISE ID 83720-0098

RE: IWRB Applications for transfer no. 82123 and permit 2-10556 – Request for additional time

Dear Mr. Patton:

The Idaho Department of Water Resources (IDWR) received Ann Vonde's September 1, 2021 letter, submitted on behalf of the Idaho Water Resource Board (IWRB). The letter requests an additional year to respond to IDWR's April 11, 2018 additional information request for the subject applications. The request for additional time is granted. The information IDWR requested is due September 16, 2022. Please provide a written response, or a request for additional time to submit the information by that date. If a written response is not received, the applications will be returned. Please contact me at 208-334-2190 if you have any questions.

Regards,

Nick Miller
Manager, IDWR Western Region

cc. Ann Vonde – Office of Attorney General
Cynthia Bridge Clark – Idaho Water Resource Board

STATE OF IDAHO
OFFICE OF THE ATTORNEY GENERAL
LAWRENCE G. WASDEN

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SEP 02 2021
WATER RESOURCES
WESTERN REGION

September 1, 2021

Nick Miller
Idaho Department of Water Resources
Western Regional Office
2735 W. Airport Way
Boise, ID 83705-5082

Dear Mr. Miller,

The Idaho Water Resource Board ("IWRB") is in receipt of your request for additional information on its Application for Transfer No. 82123 and Application for Permit No. 02-10556. By letter dated August 17, 2020, the IWRB requested, and was granted, an extension of time until August 13, 2021 to respond to your request. Negotiations with the Mountain Home Airforce Base regarding water use on the base continue to be ongoing. Therefore, the IWRB would like to request an additional year to respond to your information request so as to continue to actively pursue these negotiations. Please contact me if you have any question or concerns regarding this request.

Sincerely,

ANN VONDE
Deputy Attorney General

AV/vw
cc: Cynthia Bridge-Clark
Brian Patton

Natural Resources Division
P.O. Box 83720, Boise, Idaho 83720-0010
Telephone: (208) 334-2400, FAX: (208) 854-8072
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BRAD LITTLE
Governor

GARY SPACKMAN
Director

August 17, 2020

STATE OF IDAHO WATER RESOURCE BOARD
C/O BRIAN PATTON, EXECUTIVE OFFICER
PO BOX 83720
BOISE ID 83720-0098

RE: IWRB Applications for transfer no. 82123 and permit 2-10556 – Request for additional time

Dear Mr. Patton:

The Idaho Department of Water Resources (IDWR) received Ann Vonde's August 13, 2020 letter, submitted on behalf of the Idaho Water Resource Board (IWRB). The letter requests an additional year to respond to IDWR's April 11, 2018 additional information request for the subject applications. The request for additional time is granted. The information IDWR requested is due August 13, 2021. Please provide a written response, or a request for additional time to submit the information by that date. If a written response is not received, the applications will be returned. Please contact me at 208-334-2190 if you have any questions.

Regards,

Nick Miller
Manager, IDWR Western Region

cc. Ann Vonde – Office of Attorney General
Cynthia Bridge Clark – Idaho Water Resource Board

STATE OF IDAHO

OFFICE OF THE ATTORNEY GENERAL

LAWRENCE G. WASDEN

August 13, 2020

Nick Miller
Idaho Department of Water Resources
Western Regional Office
2735 W. Airport Way
Boise, ID 83705-5082

Dear Mr. Miller,

The Idaho Water Resource Board ("IWRB") is in receipt of your request for additional information on its Application for Transfer No. 82123 and Application for Permit No. 02-10556. By letter dated August 2019, the IWRB requested, and was granted, an extension of time until August 14, 2020 to respond to your request. Negotiations with the Mountain Home Airforce Base regarding water use on the base continue to be ongoing. Therefore, the IWRB would like to request an additional year to respond to your information request so as to continue to actively pursue these negotiations. Please contact me if you have any question or concerns regarding this request.

Sincerely,

ANN VONDE
Deputy Attorney General

AV/mb
cc: Cynthia Bridge-Clark
Brian Patton

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BRAD LITTLE
Governor

GARY SPACKMAN
Director

September 17, 2019

COPY

STATE OF IDAHO WATER RESOURCE BOARD
C/O BRIAN PATTON, EXECUTIVE OFFICER
PO BOX 83720
BOISE ID 83720-0098

RE: IWRB Applications for transfer no. 82123 and permit 2-10556 – Request for additional time

Dear Mr. Patton:

The Idaho Department of Water Resources (IDWR) received Ann Vonde's August 14, 2019 letter, submitted on behalf of the Idaho Water Resource Board (IWRB). The letter requests an additional year to respond to IDWR's April 11, 2018 additional information request for the subject applications. The request for additional time is granted. The information IDWR requested is due August 14, 2020. Please provide a written response, or a request for additional time to submit the information by that date. If a written response is not received, the applications will be returned. Please contact me at 208-334-2190 if you have any questions.

Regards,

Nick Miller
Manager, IDWR Western Region

cc. Ann Vonde – Office of Attorney General
Cynthia Bridge Clark – Idaho Water Resource Board

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AUG 14 2019
WATER RESOURCES
WESTERN REGION

STATE OF IDAHO
OFFICE OF THE ATTORNEY GENERAL
LAWRENCE G. WASDEN

August 13, 2019

Nick Miller
Idaho Department of Water Resources
Western Regional Office
2735 W. Airport Way
Boise, ID 83705-5082

Dear Mr. Miller,

The Idaho Water Resource Board ("IWRB") is in receipt of your request for additional information on its Application for Transfer No. 82123 and Application for Permit No. 02-10556. By letter dated August 2018, the IWRB requested, and was granted, an extension of time until August 14, 2019 to respond to your request. Negotiations with the Mountain Home Airforce Base regarding water use on the base continue to be ongoing. Therefore, the IWRB would like to request an additional year to respond to your information request so as to continue to actively pursue these negotiations. Please contact me if you have any question or concerns regarding this request.

Sincerely,

ANN VONDE
Deputy Attorney General

AV/mb
cc: Cynthia Bridge-Clark
Brian Patton

Natural Resources Division
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WESTERN REGION • 2735 W AIRPORT WAY • BOISE ID 83705-5082
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C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

August 7, 2018

COPY

STATE OF IDAHO WATER RESOURCE BOARD
C/O EXECUTIVE OFFICER, IDAHO WATER RESOURCE BOARD
PO BOX 83720
BOISE ID 83720-0098

RE: IWRB Applications for transfer no. 82123 and permit no. 2-10556 – Request for additional time granted

Dear Mr. Patton:

The Idaho Department of Water Resources (IDWR) received Ann Vonde's August 1, 2018 letter, submitted on behalf of the Idaho Water Resource Board (IWRB). The letter requests an additional year to respond to IDWR's April 11, 2018 additional information request. The request for additional time is granted. The information IDWR requested is due August 14, 2019. Please provide a written response, or a request for additional time to submit the information, by that date. If a written response is not received, the applications will be returned. Please contact me at 208-334-2190 if you have any questions.

Regards,

Angela M. Grimm, P.G.
Water Rights Supervisor

P.S. The letter dated May 15, 2018 referenced the wrong permit no. in the reference line. The reference line has been corrected and a copy of that letter with correction is enclosed for your records.

Cc. Ann Vonde – Office of Attorney General
Cynthia Bridge Clark – Idaho Water Resource Board
Emmi Blades – Office of Attorney General
Kimi White – Office of Attorney General (via email)

STATE OF IDAHO
OFFICE OF THE ATTORNEY GENERAL
LAWRENCE G. WASDEN

RECEIVED
AUG 01 2018
WATER RESOURCES
WESTERN REGION

August 1, 2018

Angie Grimm
Idaho Department of Water Resources
Western Regional Office
2735 W. Airport Way
Boise, ID 83705-5082

Dear Ms. Grimm,

The Idaho Water Resource Board ("IWRB") is in receipt of your request for additional information on its Application for Transfer No. 82123 and Application for Permit No. 02-10556. Negotiations with the Mountain Home Airforce Base regarding water use on the base are ongoing. The IWRB would like to request an additional year to respond to your information request so as to continue to actively pursue these negotiations. Please contact me if you have any question or concerns regarding this request.

Sincerely,

ANN VONDE
Deputy Attorney General

AV/mb

Natural Resources Division
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C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

May 15, 2018

STATE OF IDAHO WATER RESOURCE BOARD
C/O EXECUTIVE OFFICER, IDAHO WATER RESOURCE BOARD
PO BOX 83720
BOISE ID 83720-0098

AM 8/7/18

2-10556

RE: IWRB Applications for transfer no. 82123 and permit no. ~~63-34403~~ - Request for additional time granted

Dear Mr. Patton:

The Idaho Department of Water Resources (IDWR) received Ann Vonde's May 7, 2018 letter, submitted on behalf of the Idaho Water Resource Board. The letter requests an additional ninety (90) days to respond to IDWR's April 11, 2018 additional information request. The request for additional time is granted. **The information IDWR requested is due August 14, 2018.** Please provide a written response, or a request for additional time to submit the information, by that date. If a written response is not received, the applications will be returned. Please contact me at 208-334-2190 if you have any questions.

Regards,

Angela M. Grimm, P.G.
Water Rights Supervisor

Cc. Ann Vonde – Office of Attorney General
Cynthia Bridge Clark – Idaho Water Resource Board
Emmi Blades – Office of Attorney General
Kimi White – Office of Attorney General (via email)

STATE OF IDAHO
OFFICE OF THE ATTORNEY GENERAL
LAWRENCE G. WASDEN

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MAY 09 2018
WATER RESOURCES
WESTERN REGION

May 7, 2018

Angie Grimm
Idaho Department of Water Resources
Western Regional Office
2735 W. Airport Way
Boise, ID 83705

Dear Ms. Grimm,

The Idaho Water Resource Board ("IWRB") is in receipt of your request for additional information on its Application for Transfer No. 82123 and Application for Permit No. 02-10556. The IWRB would like to request an additional 90 days to respond to your request. Please contact me if you have any question or concerns regarding this request.

Sincerely,

ANN VONDE
Deputy Attorney General

Natural Resources Division
P.O. Box 83720, Boise, Idaho 83720-0010
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C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

April 11, 2018

STATE OF IDAHO WATER RESOURCE BOARD
C/O EXECUTIVE OFFICER, IDAHO WATER RESOURCE BOARD
PO BOX 83720
BOISE ID 83720-0098

Re: IWRB Applications for transfer no. 82123 and permit no. 2-10556 – Additional Information Request

Dear Mr. Patton:

The Idaho Department of Water Resources (IDWR) received the Idaho Water Resource Board's (IWRB) applications for transfer no. 82123 and permit no. 2-10556 seeking Snake River water for reasonably anticipated future needs (RAFN) municipal use. IDWR is considering the acceptability of the filings, but additional information and documentation regarding municipal provider status, service area, and planning horizon is necessary to complete that review. A memo outlining the required information is attached.

Once we receive the required information to determine if the filings are acceptable, IDWR may publish notice of the applications. Please provide a written response to this information request, or a request for additional time to submit the information and documentation, within thirty (30) days. **If a written response is not received within thirty (30) days, the applications will be returned.**

Please contact me at 208-334-2190 (or via email at angie.grimm@idwr.idaho.gov) if you have any questions. Thank you for your attention to this matter. I look forward to working through the application process together.

Regards,

Angela M. Grimm, P.G.
Water Rights Supervisor

Cc. Ann Vonde – Office of Attorney General
Cynthia Bridge Clark - Idaho Water Resource Board
Emmi Blades – Office of Attorney General

Enclosure(s): IWRB RAFN Applications Analysis w/ attachments

IWRB RAFN Applications Analysis

IDWR Review Team Notes

Transfer Application No. 82123
Permit Application No. 2-10556

Date: April 11, 2018

Items to address to determine whether the applications are acceptable filings per Idaho Code § 42-202(2):

Municipal Provider Status

Currently, the US Air Force ***supplies*** water to the proposed service area, i.e. the Mountain Home Air Force Base (MHAFB), via a ground water system regulated as a Public Water Supply (PWS) by the Idaho Department of Environmental Quality (IDEQ), PWS no. ID4200054. As such, the US Air Force qualifies as a municipal provider per Idaho Code § 42-202B(5) subsection (c).

In the Additional Information for Idaho Water Resource Board Water Right Applications memorandum (IWRB memo) dated January 24, 2018, the Idaho Water Resource Board (IWRB) indicates they have been issued PWS No. ID4200106, but states they "...***will assume*** the role of municipal provider that is currently filled by MHAFB." (emphasis added).

Idaho Code § 42-202(2) states a municipal use application for reasonably anticipated future needs (RAFN) "...must be accompanied by sufficient information and documentation to establish the applicant qualifies as a municipal provider...". IDWR Application Processing Memo No. 74 guidance for RAFN water right applications, licenses, and transfers (AP Memo 74) states "... *at the time of application*, the applicant must already supply water for municipal purposes through a water system that is regulated by the state of Idaho as a public water supply. (emphasis added). It is insufficient for the applicant to merely by "*ready, willing and able*" to be a municipal provider once the permit is issued." This policy is based on both the plain language of the statue and IDWR Director Gary Spackman's decision (*Final Order* dated 12/21/09) in the matter of application to appropriate water no. 63-32573 in the name of M3 Eagle LLC (M3 Eagle Matter).

Additional information and documentation is needed to establish the IWRB qualifies as a municipal provider at the time of the application filings.

Service Area

The IWRB memo indicates the service area for the RAFN applications is the area served by the MHAFB PWS. The Amended Final Order of the Department in the matter of application to appropriate water no. 63-32573 in the name of M3 Eagle LLC dated January 25, 2010,

specifies an applicant requesting a RAFN water right must "show there is a municipality within the proposed service area that will be served with municipal water" and "present evidence about the planning horizon, population projections, and other planning data of the municipality or municipalities to be served to establish the quantity of water that can be appropriated."

AP Memo 74 indicates a transfer applicant proposing to change the nature of use of a water right to RAFN municipal use "...shall provide to the Department sufficient information and documentation to establish the transfer applicant... is providing water to a municipality or municipalities, and that the RAFN, service area, and the planning horizon are consistent with Idaho Code."

The requirement that a municipality must exist within the service area of a RAFN water right stems from IDWR's interpretation of the definition of RAFN in Idaho Code § 42-202B(8), which states RAFN refers to water uses that "...are reasonably expected to be required within the planning horizon of each municipality within the service area not inconsistent with comprehensive land use plans approved by each municipality..." The MHAFB does not appear to be a "municipality" as that term is defined by Idaho Code § 42-202B(4).

Further, Idaho Code § 42-202(2) states a municipal use application for RAFN "...shall be accompanied by sufficient information and documentation to establish... the service area... (is) consistent with the definitions and requirements specified in this chapter." Idaho Code § 42-202B(9) defines "Service area" as "that area within which a municipal provider is or becomes entitled or obligated to provide water for municipal purposes."

Additional information and documentation is needed to establish there is a municipality that will be served with the RAFN municipal water within the IWRB's proposed service area and that the IWRB is entitled or obligated to provide municipal water to the proposed service area.

Planning Horizon

The IWRB memo proposes a 25-year planning horizon "...based on the predicted need for a viable replacement water supply from the Snake River as the aquifer declines." This predicted decline is based on a 2010 AECOM study of the sustainability of ground water supplies in the area concluding the existing water supply wells would only provide water for 30 to 36 more years.

Idaho Code § 42-202(2) states a municipal use application for RAFN "...must be accompanied by sufficient information and documentation to establish... the planning horizon... (is) consistent with the definitions and requirements specified in this chapter." AP Memo 74 indicates planning horizons greater than 20 years "...should be supported by long-term planning documents... and by professionally prepared demographic studies substantiating the duration of the planning horizon period."

Additional documentation, such as the pertinent section of the 2010 AECOM study or other technical analysis, is needed to confirm the ground water decline predictions that establish the proposed planning horizon.

Keen, Shelley

From: Roxanne Brown <RBrown@spfwater.com>
Sent: Thursday, February 01, 2018 11:02 AM
To: Keen, Shelley
Cc: Clark, Cynthia Bridge; Vonde, Ann
Subject: Pertinent Sections of AECOM Reports
Attachments: 2012 Alternative_Water_Supply_Feasibility_Study_MHAFB Ch 3.pdf

Shelley – I understand from Cynthia that IDWR has requested the sections of AECOM reports referenced in the narrative attachment to the Idaho Water Resource Board water right applications. I have attached Chapter 3 of the 2012 Report (referenced at footnote 2 in the narrative). I will provide additional information when our copy of the 2010 report is scanned and ready for submittal.

Roxanne

Roxanne Brown | Sr. Water Right Specialist
SPF Water Engineering, LLC
300 E Mallard Drive, Suite 350 | Boise, ID 83706
p. 208.383.4140 | **f.** 208.383.4156 | **d.** 208.489.2136
e. rbrown@spfwater.com | **c.** 208.859.8428

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DEPT OF WATER RESOURCES

Alternative Water Supply Feasibility Study

Mountain Home Air Force Base, Elmore County, Idaho

Prepared for:
Mountain Home Air Force Base
Elmore County ID 83648

Prepared by:
AECOM
200 Indiana Avenue
Stevens Point, WI 54481

AECOM Project No. 60224443

May 2012

Contract No. W917N-10-0002, Delivery Order No. EC01



Chapter 3.0

Water Use at MHAFB

3.0 Water Use at MHAFB

This section summarizes the analysis of historical well water production and the methodology used to determine water system supply requirements for MHAFB. The design capacity of a water system is based on the projected required water system supply.

3.1 Historic Well Water Production

Table 3-1 is a summary of MHAFB historical annual water well production from 1999 through 2011. Reliable water use for the year 2008 was not available for this review due to errors with the control monitoring program in that year. During the review period, annual pumpage ranged from a low of approximately 546 million gallons per year (MGY) in 2005 to a high of 894 MGY in 2004.

Table 3-1
Total Water Production Base Water Supply Wells

Year	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011[1]
Annual Total (MG)	810.0	703.1	840.9	769.6	844.2	894.1	545.7	603.7	551.4	N/A	739.21	585.8	563.8
Total Acre-Ft/Year	2,485	2,157	2,580	2,361	2,590	2,743	1,674	1,852	1,692	N/A	2,269	1,798	1,730

[1] = last two months of data was unavailable at time of reporting

Figure 3-1 is a graph of the annual water production data from Table 3-1. The figure illustrates annual pumpage at MHAFB decreased substantially from 2004 to 2005. The base population decreased by 1,778 people from 2004 through 2005 and was a factor in the decreased water demand. Also, 2005 had higher than typical precipitation with 14 inches verses the average of 10 inches per year. The higher precipitation is also considered a factor in the decreased water demand. Some reduction in water use might also be attributed to other water conservation measures conducted at MHAFB.

Water use in 2009 was substantially higher than 2005, 2006, and 2007. The precipitation in 2009 was 10 inches, which is average for the area. No particular reason is available for the increased water production in 2009.

Figure 3-2 is a graphical representation of the average monthly water consumption on MHAFB from 1999 through 2011. The figure illustrates that water demand varies seasonally. During the period of April through October, there is a significant irrigation demand, with a peak of approximately 130 MG per month during July and August. During non-irrigation months of November through March the average demand is approximately 20 MG per month. The graph shows water production during July and August is six times the water production during non-irrigation months. Water is used for domestic and industrial water consumption and for irrigation of residential lawns, landscaped areas, and the golf course.

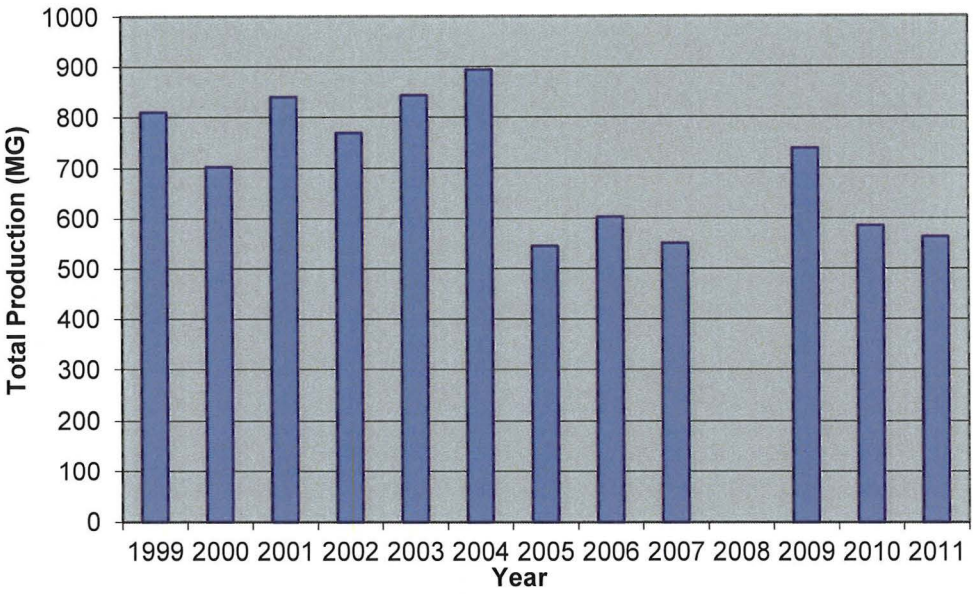


Figure 3-1: Annual Water Production at MHAFB 1999-2011

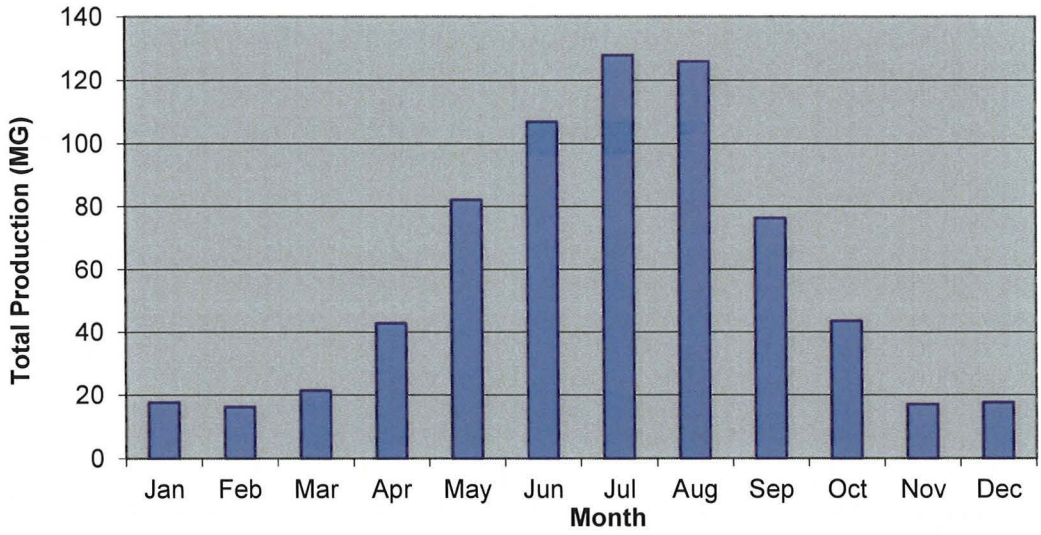


Figure 3-2: Average Monthly Water Production at MHAFB 1999-2011

3.1.1 Historic Daily Demand

Table 3-2 contains water demand parameters for 1999 through 2011. Reliable water use data was not available for 2008.

Table 3-2
Water Demand Parameters for 1999 Through 2011

Year	Average Day Demand[1] (MGD)	Maximum Day Demand			Winter Water Demand[3] (MGD)
		Flow (MGD)	Date	Ratio to Average Day Demand	
1999	2.22	5.97	--	2.7	--
2000	1.93	5.16	--	2.7	0.69
2001	2.30	5.94	--	2.6	0.69
2002	2.11	5.78	--	2.7	0.68
2003	2.31	6.65	--	2.9	0.68
2004	2.45	13.37[2]	June 4	5.5	0.80
2005	1.50	9.33[2]	August 29	6.2	0.56
2006	1.65	4.78	June 25	2.9	0.59
2007	1.51	4.47	June 17	3.0	0.39
2008	--		--	--	--
2009	2.03	13.33[2]	May 31	6.6	0.43
2010	1.60	4.99	August 13	3.1	0.43
2011	1.54	3.90	August 12	2.5	0.47

[1] = Average Day Demand was determined by dividing the annual demand by 365 days per year.
[2] = Maximum Day Demands for 2004, 2005, and 2009 exceed the pumping capacity of the wells within the system and are not recommended for design basis.
[3] = The winter water demand is the average of the daily water demand during November through March of each year.

3.1.2 Historic Average Day Demand

The average of the historic average day metered water supply over the period summarized in Table 3-2 is 1.93 million gallons per day (MGD) (1,340 gpm.) The annual average day water supply has varied approximately 27 percent from the historical average with a high of 2.45 MGD in 2004 and a low of 1.50 MGD in 2005 for the period examined.

The base population in 2000 was 8,894 people. The base population in 2010 was 3,238 people. A large change in population occurred in 2005. The water use data from before 2004 reflects the water use due to increased population at MHAFB. Water use from 1999 through 2004 is not considered typical and should not be used for projection of future water needs.

The average day demand for 2010 was 1.60 MGD. The 2010 average day demand is within 7 percent of the water production of the years 2005 to 2011 minus the outlying water use in 2009. The 2010 average day demand is used as the basis for review of future water demands in Section 3.2.

3.1.3 Historic Maximum Day Demand

The maximum day demand is the day of the year during which the maximum water pumpage occurs. Seasonal and daily fluctuations in water usage are important factors in the design and sizing of water supply and storage facilities. The maximum day demand, the date of the maximum demand, and the ratio of the maximum day demand to the average day demand are provided in Table 3-2.

Maximum daily water demands usually occur during the summer months on hot days when additional water is used for watering lawns, golf course, gardening, bathing, and industrial cooling. The maximum day demand is simply the amount of water pumped during a single day of the year with the highest water usage, and is often expressed as a ratio of the annual average day demand. The maximum day demand is of particular importance to water system planning, because water supply facilities are sized to meet this water demand.

The highest maximum day demand during the study period was June 4, 2004, when 13.37 MG was pumped. Pumping 13.37 MG in a single day is unrealistic because the existing MHAFB wells cannot support that level of production; however, this maximum production was repeated in 2009 at 13.33 MG in a single day. Base operations staff noted that the operational capacity of the supply wells is currently 8.0 MGD and the use of 13.37 MGD as the system maximum day demand is unreasonable and the historic maximum pumping was erroneous. Based on recommendations by MHAFB personnel, the supply wells' pumping capacity of 8.0 MGD is the assumed historic maximum day demand in lieu of the recorded demands from 2004, 2005, and 2009.

Recommendations and historic values for the ratio of maximum day demand to average day demands are summarized in Table 3-3.

Table 3-3
Comparison of Maximum Day Demand Ratios

Demand	Ratio Maximum Day Demand to Average Day Demand
Historic Minimum	2.5 (Year 2011)
Historic Maximum	6.6 (Year 2009)
Average Historic (minus outlying years of 2004, 2005, and 2009)	2.8[1]
Ratio 8.0 MGD maximum day to 1.60 MGD average day demand	5.0
MIL-HNBK-1005/7A – Large Systems (>5,000 people)	2.0
Air Force UFC 3-230-19	2.25
[1] = Selected ratio for maximum day evaluation	

The recommended maximum day demand to average day demand ratios from the MIL-HNBK and UFC are lower than all historic calculated ratios and do not serve as a conservative basis for development of a maximum day demand. As previously noted, the assumed historic maximum day demand is 8.0 MGD and the assumed average day demand is 1.60 MGD. The ratio of maximum day demand to average day is 5.0. This value is substantially higher than recommendations and is also higher than the historic ratio when the unrealistic maximum day demands from 2004, 2005, and 2009 are removed from the review. The average maximum day to average day demand ratio without the years 2004, 2005, and 2009 is 2.8. This value is closer to the Air Force recommendations and should be used in calculations of future maximum day demands.

3.1.4 Historic Winter Water Demand

The winter water demand is the average of the daily water demand during November through March of each year. Typically, the variation between winter water demand and the summer water demand is non-potable water flow associated with irrigation and cooling systems that are utilized in warmer months of the year. The highest, baseline, winter water demand was 0.80 MGD in 2004. The decrease in average daily winter baseline demand in 2005 and after corresponds to a decline in base daytime population. The 2011 winter water demand of 0.47 MGD is a reasonable value to utilize for projections of future winter water use as it is the highest value of the past five years and reflects the decreased population in place since 2005.

3.2 Future Water Demands

The new alternative water system should be designed to accommodate MHAFB growth. While growth at MHAFB is difficult to accurately predict because it is based on congressional actions, no major mission or personnel changes are planned for MHAFB at the current time. MIL-HNBK-1005/7A suggests using a growth factor of 25 percent for water systems at large facilities (population greater than 5,000), unless more accurate growth projections are available. MHAFB was one of six locations under consideration for F-35 Joint Strike Fighter operations (MHAFB, 2009).

If 3 or 4 additional squadrons of fighter jets were to relocate to MHAFB it is estimated that baseline water demand would double. Double baseline demand growth projection is utilized in evaluating future water needs in lieu of the MIL-HNBK recommendation for 25 percent growth.

3.2.1 Annual Water Use

The annual demand assumes future growth that doubles the baseline water demand. The calculation of the future annual water use based on this assumption of growth is provided in Table 3-4.

Additional water supply may be required to meet the future water demands due to water losses from ASR and water treatment process losses. ASR water loss is assumed as 10 percent. Additional information on ASR water loss is provided in Chapter 9. For a conservative estimate, it is assumed that all the water passes through the ASR system. If an alternative surface water source is used for potable water service and/or aquifer recharge, water treatment will be required. The water treatment processes may result in up to 10 percent loss of water due to wastewater production from the water treatment facility. For a conservative estimate, it was assumed that all water would be treated through the potable water process.

3.2.1 Average Day Water Demand

The future average day water demand with growth would be the 2010 average day demand of 1.60 MGD plus the additional 0.47 MGD baseline demand to support additional squadrons for a total of 2.1 MGD.

The average day supply necessary to meet that demand must include ASR water loss and water treatment loss. The average day supply is 917 MGY water use divided over 365 days for 2.5 MGD.

Table 3-4
Future Annual Water Use

Item	Calculation	Value
Historic Annual Water Use	Measured value from 2010	586 MGY
Historic Baseline Water Use	0.47 MGD (2011 value) for 365 days = 172 MGY	172 MGY
Future Baseline Water Use	Double baseline due to double squadrons 0.47 MGD* 2 = 0.94 MGD 0.94 MGD for 365 days = 343 MGY	343 MGY
Additional Baseline Water Use	Future Baseline of 343 MGY – Historic Baseline 172 MGY = 172 MGY	172 MGY
Future Annual Water Use With Growth	Additional Baseline Water Use (172 MGY) + Historic Annual Water Use (586 MGY) = 758 MGY	758 MGY
ASR Water Loss	10 percent of future annual water use: 758 * 10% = 76 MGY	76 MGY
Future Annual Water Use With Growth and ASR Loss	Future Annual Water Use With Growth (758 MGY) + ASR Water Loss (76 MGY) = 834 MGY	834 MGY
Water Treatment Water Loss	10 percent of Future Annual Water Use is assumed as loss within the water treatment process 834 MGY * 10%	83 MGY
Future Annual Water Use with Growth, ASR Loss, and Water Treatment Loss	Future Annual Water Use With Growth and ASR Loss (834 MGY) + Water Treatment Water Loss (83 MGY) = 917 MGY	917 MGY

3.2.3 Maximum Day Water Demand

The calculated average historic ratio of maximum day to average day demands is 2.8. The average day of 2.5 MGD times the factor of 2.8 yields a result of 7.0 MGD. This value is less than the selected maximum day demand of 8.0 MGD based on the current water supply capacity as noted previously.

An alternative calculation of the future maximum day demand is to add the increased baseline demand to the historic maximum day demand. The calculated future maximum day demand assuming the addition of 0.47 MGD baseline water demand to the maximum day demand of 8.0 MGD is 8.47 MGD.

3.2.4 Future Demands Summary

Table 3-5 summarizes the calculated existing and future water demands.

Table 3-5
Summary of Existing and Future Water Demands

Demand	Existing	Future	
Annual Water Supply	586 MGY	917 MGY	2,814 acre-ft/year
Maximum Day	8.0 MGD	8.47 MGD	5,900 gpm
Average Day	1.60 MGD	2.5 MGD	1,700 gpm
Winter Baseline Water Use	0.47 MGD	0.94 MGD	700 gpm

3.3 Non-Potable Water

An alternative water system may provide a separate water supply for non-potable water uses that does not require water treatment. This section determines the potential water needs for a non-potable water system.

The non-potable water use was determined by subtracting the baseline winter water use from the total annual water use; assuming all additional water use above the baseline is attributed to irrigation, cooling system operations, or other non-potable water needs. The total calculated non-potable water use from 2000 through 2011 is provided in Table 3-6.

Table 3-6
Irrigation Water Use

Year	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Annual Total (MG)	450	588	522	596	601	342	388	410	N/A	580	427	394
Total Acre-Ft/Year	1,382	1,805	1,602	1,831	1,845	1,050	1,191	1,260	N/A	1,782	1,312	1,208

During the period of 2000 through 2011, the volume of water pumped at MHAFB for non-potable use ranged from roughly 342 MGY to 601 MGY or 63 to 79 percent of the total annual pumpage. The approximate amount of water pumped for non-potable use from 2000 through 2011 was more than 1,400 MG.

In 2005, MHAFB staff completed a field survey of irrigable lands located within the Main Base and Housing Pressure Zones. The results of the audits showed that irrigation water was being over-applied to lawns, landscaped areas, and the golf course at MHAFB (CH2MHill, 2005). Irrigation audits are ongoing at MHAFB and the data are being used to establish new watering standards and to control irrigation systems (Armstrong, 2009). One example of irrigation water savings is that a weather station was installed at the base golf course and is used to optimize irrigation at the golf course. According to Armstrong (2006; 2009), the golf course weather station has reduced irrigation at the golf course by 25 to 35 percent.

It is assumed that irrigation water use as well as other non-potable water use will continue to be optimized; however, irrigation is dependent on rain received and a dry year will require additional water. Non-potable water use was estimated by subtracting the average monthly baseline winter water use from the summer water use. The highest estimated non-potable water use in the past ten years was 601 MG in 2004. More recently, in 2009, an estimated 580 MG was utilized for non-potable use. The most notable irrigation improvements were made before 2009; however, the 2009 irrigation needs indicate that a decline in irrigation and other non-potable water use should not be assumed for the future. The design capacity for a non-potable water system is 600 MGY based on the maximum historic non-potable water use.

To determine a maximum day demand for the non-potable system, the total annual water use of 600 MGY is divided among the seven months of irrigation system operation for an average daily use rate of 2.9 MG (2,000 gpm). The average historic maximum day to average day demand ratio for the entire water system is 2.8. This is the assumed ratio for the non-potable system as well. The maximum day demand is the 2.9 MG average day demand times 2.8 which equals 8.1 MGD (5,600 gpm).

3.3.1 Golf Course Irrigation System

The golf course utilizes a separate irrigation system that is served by Well 8 and has connections to the wastewater recycle system. An alternative water system may supply only the golf course with separate non-potable supply due to the presence of an existing non-potable water distribution network for the golf course irrigation. Therefore, the historic water demand for golf course irrigation is reviewed for the potential to separate this service within an alternative water system.

Table 3-7 summarizes the pumping history for Well 8 for 2009, 2010, and 2011. The average day demand for each year was calculated by dividing the measured annual demand by an assumed 7 months of well operation. The maximum day demand is the actual measured maximum water use over the course of one day.

Table 3-7
Well 8 Historical Production

Year	Annual Demand (MGY)	Average Day Demand (MGD)	Maximum Day Demand (MGD)
2009	138	0.66	2.4
2010	143	0.68	1.7
2011	132	0.63	1.7

While efforts are in progress to reduce irrigation water use, it is assumed that the water use for golf course irrigation will continue similar to the past three years. The maximum conditions experienced in the past three years will be utilized for projected golf course demands; therefore, the average day demand would be 0.68 MGD and the maximum day demand 2.4 MGD. The annual demand is assumed as 143 MGY.

3.4 Summary

The water supply needs used for design of an alternative water supply system are summarized in Table 3-8.

Table 3-8
Summary of Water Consumption for Alternative System Design

Demand (Future)	Design	
Total Water System		
Average Day Water Supply[1]	2.5 MGD	1,700 gpm
Average Day Water Demand[2]	2.1 MGD	1,500 gpm
Maximum Day Water Demand	8.47 MGD	5,900 gpm
Annual Water Supply	917 MGY	2,814 acre-ft/year
Non-Potable Water System		
Average Day Demand	2.9 MGD	2,000 gpm
Maximum Day Demand	8.1 MGD	5,600 gpm
Annual Demand	600 MGY	1,841 acre-ft/yr
Golf Course Irrigation		
Average Day Demand	0.7 MGD	500 gpm
Maximum Day Demand	2.4 MGD	1,667 gpm
Annual Demand (7 months operation)	143 MGY	439 acre-ft/year

[1] = Average Day Water Supply is raw water necessary for a future alternative water system
[2] = Average Day Water Demand is the total treated water to be provided to the distribution system

RECEIVED
JAN 29 2018
DEPARTMENT OF
WATER RESOURCES

January 29, 2018

Shelley,

As per our conversation last Friday, the attached water right applications have been filed on behalf of the Idaho Water Resource Board with the understanding that filing fees are not required. We are routing the applications to you in case this needs to be communicated to IDWR staff who will process the applications.

Thank you and let me know if you or others have questions,

Cynthia

IDAHO WATER RESOURCE BOARD

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RECEIVED
JAN 29 2018
DEPARTMENT OF
WATER RESOURCES

January 29, 2018

Angela Grimm
Idaho Department of Water Resources
Western Region Office
2735 Airport Way
Boise, ID 83705-5082

Re: Idaho Water Resource Board Water Right Applications

Dear Angie,

On behalf of the Idaho Water Resource Board, we are pleased to submit the enclosed application for water right permit, and transfer application for water rights 2-10300A, 2-10300B, and 2-10506. The applications seek authorization to construct a new Snake River pump station to supply water to Mountain Home Airforce Base for delivery in their existing municipal distribution system.

Pursuant to Idaho Code § 42-1734(6) and § 67-2301, we understand the Idaho Water Resource Board is not required to submit filing fees for these applications.

Sincerely,

Brian Patton, P.E.
Executive Officer, Idaho Water Supply Bank

CC:

Enclosures

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