

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

AMENDED APPLICATION FOR TRANSFER OF WATER RIGHT

PART 1 Continued

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

1.	Right Number	Amount (cfs/ac-ft)	Nature of Use	Period of Use	Source & Tributary
All or Part <input type="checkbox"/> <input checked="" type="checkbox"/>	22-7681	0.12 cfs	Irrigation	4/15 to 10/31	Ground water
<input type="checkbox"/> <input type="checkbox"/>		0.01 cfs	Fish Habitat	4/15 to 10/31	Ground water
<input type="checkbox"/> <input type="checkbox"/>				to	
<input type="checkbox"/> <input type="checkbox"/>				to	
<input type="checkbox"/> <input type="checkbox"/>				to	
<input type="checkbox"/> <input type="checkbox"/>				to	
<input type="checkbox"/> <input type="checkbox"/>				to	
<input type="checkbox"/> <input type="checkbox"/>				to	
<input type="checkbox"/> <input type="checkbox"/>				to	

Total authorized under rights 0.13 cfs and/or _____ acre-feet.

2. Total amount of water proposed to be transferred or changed 0.13 cubic feet per second and/or _____ acre-feet per year.

3. Point(s) of Diversion:

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

New ?	Lot	¼	¼	¼	Sec	Twp	Rge	County	Source	Local name or tag #
n			SW	SE	19	6N	46E	Teton	Ground Water	

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	
6N	46E	19											FH	FH			FH		
																	7		7
		30		2															2
Total Acres (for irrigation use)																			9

AMENDED**Change in Nature of Use***Rocky Mountain Water Exchange LLC for Grouse Creek Reserve LLC*

This application proposes to transfer 10 acres from an irrigated place of use to be used at the new place of use for combined beneficial uses of Irrigation and Fish Habitat. The goal of this purchase and transfer of water rights is to irrigate multiple small areas of land totaling 9 acres and provide a 1.0-acre portion of the transferred water right to augment the flows of Grouse Creek for Fish Habitat. Since the 1.0-acre portion for Fish Habitat will be converted from Irrigation to another beneficial use, an evaluation of the historical consumption is required.

Right 22-7681 has historically been used to irrigate alfalfa-less frequent cuttings. According to ET Idaho 2017, the Driggs (NWS -- USC00102676) station shows a precipitation deficit of 617 mm/year, or 2.02 afa, as shown in Figure 1. One acre of irrigation water right has, therefore, historically consumed 2.02 afa (1.0 ac x 2.02 afa/ac).

Diversion for Fish Habitat will be restricted to the amounts equivalent to 1 acre of irrigated alfalfa, or 2.02 afa and the associated diversion rate of 0.013 cfs. At a diversion rate of 0.013 cfs, or 5.8 gpm, this will authorize water to be injected into the creek for 78.3 days, as shown in the equation below. Hypothetically, this could be from July 1 through September 16, which would cover the peak summer season during which creek flows are diminished.

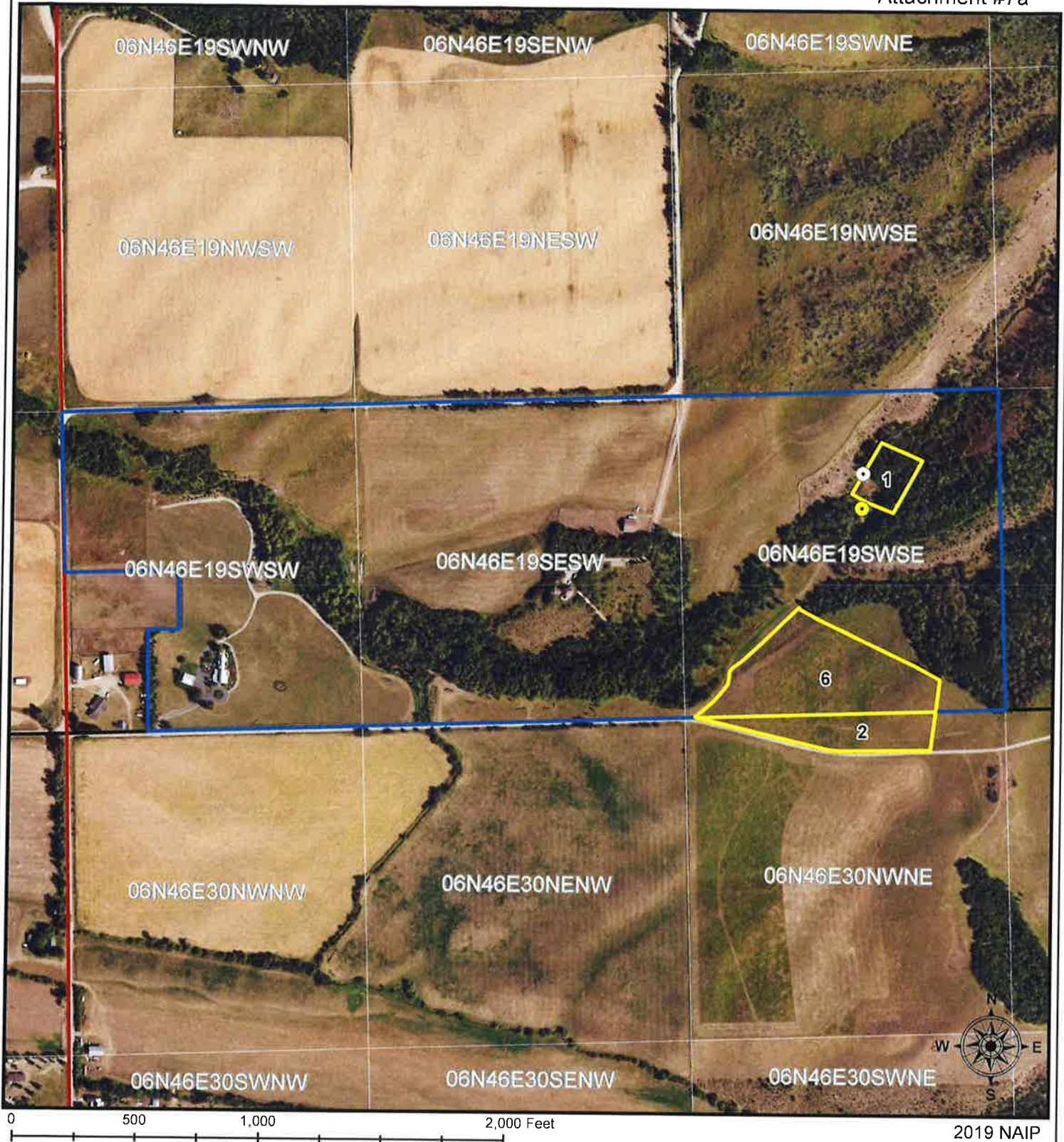
$$2.02 \text{ afa} / (0.013 \text{ cfs} \times 1.9835) = 78.3 \text{ days}$$

Figure 1. Excerpt of ETIdaho data

Driggs (NWS -- USC00102676)

Statistics based on thirty year normal spans 1984 to 2016 years

Alfalfa - less frequent cuttings															
Precipitation Deficit (Click here for a graph)															
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Growing Season ^a	Non Growing Season ^b	Annual ⁱ
Mean ^j	mm/day												mm		
Monthly ^c	-0.34	-0.04	0.05	0.09	1.88	5.74	4.51	5.06	2.37	0.28	-0.38	-0.58	617	-45	571
15-Day Moving Average ^d	-0.37	-0.08	0.10	-0.02	1.90	5.72	4.25	5.16	2.13	0.41	-0.38	-0.55			
7-Day Moving Average ^e	-0.35	-0.06	0.08	0.02	1.86	5.70	4.37	5.12	2.22	0.35	-0.40	-0.54			
3-Day Moving Average ^f	-0.34	-0.04	0.05	0.07	1.87	5.72	4.47	5.07	2.31	0.27	-0.38	-0.56			



Legend

- Approximate Injection Point
- Proposed POD - Existing Well
- 1.9** New POU for Irrigation
- New POU for Fish Habitat
- Township and Range
- Section
- QQ

AMENDED

Amended Proposed Locations

Grouse Creek Reserve LLC

RMEA # 20-0055

by: KM

Date: 10/13/2020

