

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 47-17656
Exam Date: 08/10/2022

1. Current Owner:
PRG FARMS LP C/O PAUL GREEN
7594 E CONEJO AVE
SELMA CA 93662-9438
2. Accompanied by: Connor Green
Phone No: (208) 731-3032
Address: 2250 River Road, Filer ID 83328
Relationship to permit Holder: Farm Manager/Operator

3. SOURCE: SPRINGS

Tributary
SNAKE RIVER

Method of Determination: Same Springs as Water Right 47-4294 claimed and decreed in the SRBA.

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
N/A			

Comments: N/A

2. Other water rights with the same point-of-diversion: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
47-4294	Springs/Unnamed Lake	See Comments Below	Decree

Comments: 47-4294 Uses: Irrigation; Irrigation Storage; Irrigation From Storage; Stockwater; Stockwater Storage; Fish Propagation; Recreation Storage; Diversion to Storage & Mitigation by Non-Use

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

SPRINGS L6 (SW¼ SW¼ SE¼), Sec. 17, Twp 09S, Rge 16E, B.M. TWIN FALLS County
 SPRINGS L6 (SW¼ SW¼ SE¼), Sec. 17, Twp 09S, Rge 16E, B.M. TWIN FALLS County
 SPRINGS L6 (SW¼ SW¼ SE¼), Sec. 17, Twp 09S, Rge 16E, B.M. TWIN FALLS County

Method of Determination: Same as Water Right 47-4294 claimed and decreed in the SRBA and On-site inspection.

PLACE OF USE: WILDLIFE

[illegible]

PLACE OF USE: WILDLIFE STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
09S	16E	17							X L9										
09S	16E	18				X L14													

PLACE OF USE: RECREATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
09S	16E	17							X L9										
09S	16E	18				X L14													

PLACE OF USE: RECREATION STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
09S	16E	17							X L9										
09S	16E	18				X L14													

PLACE OF USE: AESTHETIC

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
09S	16E	17							X L9										
09S	16E	18				X L14													

PLACE OF USE: AESTHETIC STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
09S	16E	17							X L9										
09S	16E	18				X L14													

Method of Determination:

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.
☒ Indicate weir size/pipe as applicable.

Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be
☒ 1:24,000 or greater.

☒ Aerial Photo Attached (required for irrigation of 10+ acres).

☒ Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
PODID 973983					
PODID 973984					
PODID 973985					

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: No measurement required – this is additional use of the diversion to storage rate of 7.0 cfs previously authorized under decreed right 47-4294 and is limited to the same diversion rate as 47-4294.

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method: N/A

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} =$$

2. Volume Calculations for Other Uses: Wildlife Storage; Recreation Storage & Aesthetic Storage

Pond surface area:

Pond #1: 3.4 acres

Pond #2: 0.6 acres

Total: 4.0 acres

Both ponds have an average depth of 6.0 feet and are mostly flat bottomed

4.0 acres x 6.0 feet = 24.0 acre feet of storage

Evaporative Losses:

Based on Et Idaho website data from 2016, provided when permit was approved, annual precipitation deficit (P_{def}) for open water, shallow systems in the Buhl area was estimated at 658 mm or 2.16 ft.

2.16 feet x 4.0 acres of surface area = 8.6 acre feet of evaporative losses

Seepage Loss:

An assumed seepage rate of 0.4 ft per day was applied, as approved in the permit. Using the 0.4 ft per day, the seepage loss calculation utilizing the Department's Pond Loss Spreadsheet results in a seepage loss of 584.0 afa (see Attachment #1) which matches the permitted amount.

24.0 af storage + 8.6 af evaporative losses + 584.0 afa seepage loss = 616.6 af rounded to 617.0 afa

G. NARRATIVE/REMARKS/COMMENTS

This permit is for additional ponds established on the same spring system authorized under decreed water right 47-4294, which authorizes a diversion to storage rate of 7.0 cfs.

This storage system starts at three springs located in L6 (SW¼ SW¼ SE¼), Sec. 17, Twp 09S, Rge 16E, that are piped into the pond storage system for water right 47-4294. At the lower end of the 47-4294 system (north pond) the water is diverted into a ditch system and delivered to the two ponds this permit is seeking to authorize (see system diagram). At the north end of both those ponds, the overflow from the ponds is diverted out to the Snake River.

The initial volumes for the application for permit were calculated by Zach Latham of Brockway engineering and submitted with the application. The ponds had been developed decades prior to submittal of the application for permit. On the day of the exam, 8/10/2022, I verified that there has been virtually no change to the ponds since the permit was approved. My visit also verified that the volume data Mr. Latham provided is acceptable. His assumed seepage rate was a little higher than the values typically used in our spreadsheet. However, these are very gravelly soils with two gravel pits near the property, and I tend to concur that the seepage loss to the Snake River is likely higher than the values provided in the spreadsheet would typically yield.

When running the numbers for P_{def} for mitigation for evaporative losses, utilizing current values for open water shallow systems (740mm) and grass pasture low management (744mm), the values were slightly different than those used in 2016. However, I still arrived at drying up 3.9 acres of irrigated ground for mitigation of evaporative losses using the current data. First fill was not proposed as part of the mitigation, as these ponds had been in place for more than 20 years prior to the submittal of the application for permit. Mitigation for seepage losses is also not required as the seepage goes out to the Snake River and is considered non-consumptive. Mitigation by non-use has been provided under water right 47-4294 in the amount of 0.08 cfs by permanently drying up 3.9 acres of ground in the SWSE of S17, T09S, R16E.

Recommend licensing water right as permitted.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
WILDLIFE	01/01 to 12/31	7.00 CFS	
WILDLIFE STORAGE	01/01 to 12/31		617.0 AF
RECREATION	01/01 to 12/31	7.00 CFS	
RECREATION STORAGE	01/01 to 12/31		617.0 AF
AESTHETIC	01/01 to 12/31	7.00 CFS	
AESTHETIC STORAGE	01/01 to 12/31		617.0 AF
DIVERSION TO STORAGE	01/01 to 12/31	7.00 CFS	

Totals: 7.00 CFS 617.0 AF

2. Recommended Amendments

____ Change P.D. as reflected above ____ Add P.D. as reflected above X None

____ Change P.U. as reflected above ____ Add P.U. as reflected above X None

I. AUTHENTICATION

Bill Mills -

Field Examiner's Name Bill Mills Date 8-12-2022

Reviewer _____ Date _____



Figure 1: East pond from outlet on north end



Figure 2: West pond from north side



Figure 3: The three springs are located in the overgrown wooded area below the seeps on the canyon wall



Figure 4: East pond from southeast side (Great Blue Heron in flight)



Figure 5: West pond from outlet on northwest side



Figure 6: East pond from north side

47-17656 System Diagram





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Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho

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Buhl (NWS -- USC00101217)

Statistics based on thirty year normal spans 1929 to 1961 years

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

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

Open water - shallow systems (ponds/streams)														
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
Mean ^j	mm/day												mm	
Monthly ^c	-0.24	0.29	1.36	2.51	3.10	3.79	4.54	3.93	2.87	1.79	0.46	-0.10	740	0
15-Day Moving Average ^d	-0.28	0.34	1.41	2.57	3.28	3.83	4.61	3.97	2.84	1.78	0.38	-0.09		
7-Day Moving Average ^e	-0.22	0.32	1.39	2.54	3.21	3.79	4.59	3.95	2.87	1.79	0.47	-0.08		
3-Day Moving Average ^f	-0.24	0.29	1.36	2.52	3.12	3.79	4.55	3.94	2.88	1.79	0.48	-0.09		

Standard Deviation ^k	mm/day												mm		
Monthly ^c	1.31	0.35	0.77	0.71	1.38	0.79	0.57	0.93	0.75	0.89	0.76	0.70	80	0	80
15-Day Moving Average ^d	1.04	0.57	0.84	1.01	1.23	1.10	0.50	0.84	0.98	0.94	1.00	0.68			
7-Day Moving Average ^e	1.42	0.92	1.07	1.35	1.68	1.51	0.67	1.14	1.21	1.37	1.25	1.01			
3-Day Moving Average ^f	2.20	1.38	1.39	1.81	2.39	2.04	0.98	1.51	1.62	1.90	1.61	1.41			
20% Exceedance ^l	mm/day												mm		
Monthly ^c	0.33	0.55	1.81	3.19	3.96	4.43	4.98	4.28	3.37	2.20	1.03	0.29	807	0	807
15-Day Moving Average ^d	0.61	1.17	2.54	3.81	4.61	5.19	5.21	4.87	3.86	2.89	1.35	0.67			
7-Day Moving Average ^e	0.87	1.38	3.08	4.18	5.15	5.58	5.50	5.17	4.24	3.31	1.83	0.83			
3-Day Moving Average ^f	1.12	1.86	3.54	4.87	5.70	6.14	5.90	5.38	4.64	3.64	2.06	1.07			
80% Exceedance ^m	mm/day												mm		
Monthly ^c	-0.50	0.00	0.93	1.73	2.39	3.11	4.14	3.59	2.40	1.37	-0.09	-0.64	669	0	669
15-Day Moving Average ^d	-1.55	-0.58	0.48	0.74	1.74	1.97	3.64	3.37	1.88	0.12	-0.82	-1.30			
7-Day Moving Average ^e	-3.02	-1.95	-0.83	-0.59	-0.41	0.26	2.68	2.63	0.93	-0.82	-1.41	-3.31			
3-Day Moving Average ^f	-6.25	-4.22	-3.08	-3.98	-4.03	-2.85	0.57	1.13	-0.98	-3.89	-4.17	-6.04			
Ave Highest P _{def}	mm/day												--		
15-Day Moving Average ^g	0.39	0.84	1.99	3.28	4.08	4.63	4.91	4.42	3.44	2.54	0.98	0.45			
7-Day Moving Average ^h	0.72	1.25	2.52	3.97	4.76	5.19	5.21	4.69	3.91	3.03	1.51	0.70			
3-Day Moving Average ⁱ	0.92	1.59	2.99	4.56	5.38	5.72	5.52	4.99	4.34	3.38	1.77	0.94			
Ave Lowest P _{def}	mm/day												--		
15-Day Moving Average ^g	-0.80	-0.23	0.79	1.84	2.30	2.97	4.24	3.41	2.26	1.01	-0.14	-0.69			

7-Day Moving Average ^h	-1.80	-1.15	-0.08	0.79	0.89	1.76	3.67	2.81	1.43	-0.08	-0.92	-1.78			
3-Day Moving Average ⁱ	-3.90	-3.01	-1.54	-1.13	-1.89	-0.52	2.45	1.70	-0.22	-2.31	-2.72	-3.78			
Special normal distribution parameters for monthly, seasonal, and annual intervals															
Skew ^m	-0.89	0.27	-0.30	-0.42	-0.28	-0.26	-0.04	-1.08	-1.79	-0.42	-1.43	-0.25	0.19	0.00	0.19
Kurtosis ^o	2.34	3.73	1.25	2.32	0.88	3.00	0.45	3.54	5.57	1.09	6.24	0.61	2.49	0.00	2.49

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

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

^c Mean of the average daily value for month

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

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

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

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

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

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

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

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

ⁿ This value represents the *skewness (asymmetry) of the distribution of the parameter values* for the month (year) over the 'normal' period. A value near zero indicates that the distribution approximates a normal (Gaussian) and symmetrical distribution. A negative skew indicates that the parameter distribution has

relatively few low values compared to high values. A positive skew indicates that the distribution has relatively few high values compared to the number of low values. A skew value near 1 indicates that the underlying distribution approximates a lognormal distribution.

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

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

The citation for the evapotranspiration data used from this site should be: Allen, Richard G. and Clarence W. Robison, 2017. Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho: Supplement updating the Time Series through December 2016, Research Technical Completion Report, Kimberly Research and Extension Center, University of Idaho, Moscow, ID.

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

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Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho

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Buhl (NWS -- USC00101217)

Statistics based on thirty year normal spans 1929 to 1961 years

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

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

Grass Pasture - low management 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
Mean ^j	mm/day												mm	
Monthly ^c	-0.17	-0.05	0.38	2.01	3.77	4.56	5.22	4.34	2.84	1.41	-0.17	-0.29	744	-17
15-Day Moving Average ^d	-0.21	-0.01	0.40	2.01	3.95	4.60	5.27	4.38	2.86	1.41	-0.24	-0.30		
7-Day Moving Average ^e	-0.18	-0.03	0.39	2.01	3.88	4.57	5.24	4.38	2.87	1.42	-0.16	-0.28		
3-Day Moving Average ^f	-0.17	-0.04	0.38	2.01	3.79	4.56	5.23	4.35	2.85	1.41	-0.14	-0.28		
Annual														

Standard Deviation ^k	mm/day												mm		
Monthly ^c	0.44	0.22	0.76	1.06	1.23	0.72	0.56	0.85	0.75	0.73	0.50	0.46	57	21	54
15-Day Moving Average ^d	0.48	0.30	0.64	1.22	1.12	1.00	0.51	0.78	0.92	0.78	0.75	0.50			
7-Day Moving Average ^e	0.63	0.53	0.73	1.42	1.56	1.36	0.76	1.12	1.22	1.20	1.01	0.76			
3-Day Moving Average ^f	0.85	0.90	0.92	1.78	2.29	1.94	1.26	1.59	1.67	1.79	1.43	1.08			
20% Exceedance ^l	mm/day												mm		
Monthly ^c	0.02	0.15	0.57	2.99	4.44	5.17	5.59	4.72	3.41	1.76	0.17	-0.09	778	-5	784
15-Day Moving Average ^d	0.18	0.33	0.98	3.78	5.20	6.02	6.07	5.45	4.08	2.52	0.38	0.16			
7-Day Moving Average ^e	0.33	0.58	1.58	4.45	5.95	6.60	6.53	5.90	4.87	3.40	0.87	0.32			
3-Day Moving Average ^f	0.49	0.80	1.97	5.38	7.72	8.25	7.97	7.32	6.29	4.97	1.17	0.42			
80% Exceedance ^m	mm/day												mm		
Monthly ^c	-0.28	-0.22	0.03	0.91	3.15	3.92	4.80	3.92	2.12	1.03	-0.56	-0.56	692	-41	673
15-Day Moving Average ^d	-0.58	-0.63	-0.26	0.18	2.51	3.16	4.26	3.52	1.04	0.12	-1.18	-0.87			
7-Day Moving Average ^e	-1.40	-1.64	-0.89	-0.55	0.66	1.38	3.31	2.85	0.51	-0.98	-1.85	-2.01			
3-Day Moving Average ^f	-2.57	-4.01	-2.12	-3.24	-2.43	-1.65	2.00	1.82	-0.25	-3.34	-4.53	-3.79			
Ave Highest P _{def}	mm/day												--		
15-Day Moving Average ^g	0.11	0.24	0.71	2.74	4.73	5.38	5.73	4.89	3.51	2.10	0.29	0.09			
7-Day Moving Average ^h	0.25	0.44	1.01	3.42	5.53	6.07	6.15	5.51	4.30	2.83	0.67	0.21			
3-Day Moving Average ⁱ	0.39	0.75	1.32	4.31	6.80	7.51	7.53	6.84	5.58	3.91	0.97	0.33			
Ave Lowest P _{def}	mm/day												--		
15-Day Moving Average ^g	-0.44	-0.30	0.07	1.29	3.00	3.82	4.84	3.82	2.13	0.70	-0.62	-0.70			

7-Day Moving Average ^h	-0.92	-0.83	-0.39	0.51	1.75	2.67	4.06	3.02	1.44	-0.11	-1.30	-1.38			
3-Day Moving Average ⁱ	-1.92	-1.96	-1.29	-0.89	-0.77	0.61	3.01	1.92	0.08	-2.04	-3.03	-3.02			
Special normal distribution parameters for monthly, seasonal, and annual intervals															
Skew ^m	-0.72	-1.27	0.70	0.13	-0.21	-0.12	-0.09	-0.72	-0.42	-0.34	-1.85	-0.58	-0.18	0.43	-0.15
Kurtosis ^o	1.76	4.92	1.72	2.23	0.90	2.84	0.56	2.31	2.20	1.00	7.65	1.30	3.12	3.43	2.31

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

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

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