

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-23238

Exam Date: 08/08/2023

1. Current Owner:

VICTOR BERTAGNOLLI 9364 W PEBBLE BROOK LN BOISE ID 83714-1756 AND/OR
LOUISE BERTAGNOLLI 9364 W PEBBLE BROOK LN BOISE ID 83714-1756

2. SOURCE:

GROUND WATER

Tributary

WILLIAMS CREEK

Method of Determination: **Field Exam and Conversation with applicants****B. OVERLAP REVIEW**

1. Other water rights with the same place of use: **None**
2. Other water rights with the same point-of-diversion: **None**

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER SE¼ SE¼, Sec. 18, Twp 18N, Rge 03E, B.M. VALLEY County

Method of Determination: **Field Exam and ArcMap**PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
18N	03E	18													0.8			0.3	1.1

Right Acre Limit: 1.1

Total Acres: 1.1

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	
18N	03E	18																X	

Method of Determination: **Field Exam and ArcMap**

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

X 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.

XX Aerial Photo Attached (required for irrigation of 10+ acres).XX Photo of Diversion and System AttachedX

4.

Well or Diversion ID No.*
996521

2. Measurements: None taken per IDAPA 37.03.02 Beneficial Use Exam Rules

E. FLOW CALCULATIONS

 X Additional Computation Sheets Attached

1.1 acres x 0.03 per acre = **0.03 cfs**

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.1 \text{ acres} \times 3 \text{ afa} = 3.3 \text{ AF}$

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \text{ cfs} \times 200 \text{ days} \times 1.9835 = 11.9 \text{ AF}$

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \mathbf{3.3 \text{ AF}}$

2. Volume Calculations for Other Uses: **See attached calculations**

Evaporative losses = **0.01 AF**

Irrigation = **3.3 AF**

Aesthetic = **0.1 AF**

G. NARRATIVE/REMARKS/COMMENTS

On August 08, 2023 Benny Walker (IDWR) and I conducted a field exam for permit 65-23238 at property owned by the applicants. The applicants, Victor and Louise Bertagnolli, were not present during the exam. The permit was authorized for 0.06 cfs and 4.0 AF for a total of four Beneficial Uses: Irrigation, Irrigation Storage, Irrigation from Storage, and Aesthetic Storage.

An excavated pond fills with, and stays full, from intercepted ground water. On the day of the field exam we observed excess water constantly flowing through a concrete overflow structure on the south side of the pond. Water flows into the north side of the pond through a constructed

channel. The applicants explained, during a phone conversation, that a submersible pump inside the pond recirculates water for mosquito abatement. The submersible pump sends water from the pond to an uphill point approximately 100 feet to the north. Gravity returns the water to the pond through a constructed channel in the lawn.

The developed irrigation system uses a two-horsepower pump installed beside the pond to deliver water to irrigation lines that use pop-up residential style sprinklers. The sprinklers irrigate a combination of residential lawn and native vegetation. A residential-style irrigation timer is used to control how long each line is used.

The irrigation system operation does not significantly change the water level in the pond. There is adequate intercepted ground water to maintain pond water level when the irrigation system is in operation. The pond is not drawn down and intentional refills are not necessary. Therefore, Irrigation Storage and Irrigation from Storage will be dropped at licensing. Condition 01J on the permit required a measuring device and lockable works be installed prior to diverting water. However, on February 26, 2019 IDWR issued an order to modify the permit to require a measuring device and lockable works "upon specific notification". Consequently, condition 01J will be dropped and conditions R02 and 01R will be added at licensing.

All other conditions on the permit have been complied with and I recommend licensing permit 65-23238 for 0.03 cfs and 3.4 AF for Irrigation and Aesthetic use.

Also the Field Inspection revealed the following issues that required a Licensing Amendment:

Permit POD: 18N 03E 18 NESE

License POD will be: **18N 03E 18 SESE**

Permit POU: 2 acres in 18N 03E 18 NESE

License POD will be: **0.8 acres in 18N 03E 18 NESE**

0.3 acres in 18N 03E 18 SESE

On September 29, 2023 IDWR received a signed and dated Licensing Amendment Form along with a \$100.00 fee to incorporate the changes marked above in bold.

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>
IRRIGATION	04/15 to 10/31	0.03 CFS	3.3 AF
AESTHETIC STORAGE	01/01 to 12/31		0.1 AF

Totals: **0.03 CFS** **3.4 AF**

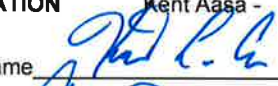
2. Recommended Amendments

☒ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None

☐ Change P.U. as reflected above ☒ Add P.U. as reflected above ☐ None

I. AUTHENTICATION

Kent Aasa -

Field Examiner's Name  Date 10-19-2023Reviewer  Date 11/29/2023

Volume Calculations for 65-23238

Pond Volume Calculations

Pond size: $34 \text{ ft} \times 34 \text{ ft} = 1156 \text{ ft}^2$ surface area

$1156 \text{ ft}^2 / 43,560 \text{ ft}^2 \text{ per acre} = 0.02 \text{ acre surface area}$

$1156 \text{ ft}^2 \times 4 \text{ ft depth} = 4624 \text{ ft}^3$ pond volume

$4624 \text{ ft}^3 / 43,560 \text{ ft}^3 \text{ per AF} = 0.106 \text{ AF}$ or **0.1 AF** (this also is the aesthetic storage volume)

ETIdaho Precipitation Deficit from the McCall Station (USC00105708): 217 mm annually

$217 \text{ mm} / 25.4 \text{ mm per inch} = 8.5 \text{ inches}$

$8.5 \text{ inches} / 12 \text{ inches per foot} = 0.7 \text{ AF}$

$0.7 \text{ AF} \times 0.02 \text{ acre surface area} = \mathbf{0.01 \text{ AF}}$ of evaporative losses per year

Irrigation Volume Calculations

$1.1 \text{ acres} \times 3 \text{ AFA} = \mathbf{3.3 \text{ AF}}$

Totals

Irrigation: **3.3 AF**

Aesthetic Storage volume: **0.1 AF**

Evaporative losses: **0.01 AF**

Total Volume: 3.4 AF

irrigation
control
box

65-23238 POD

overflow
channel



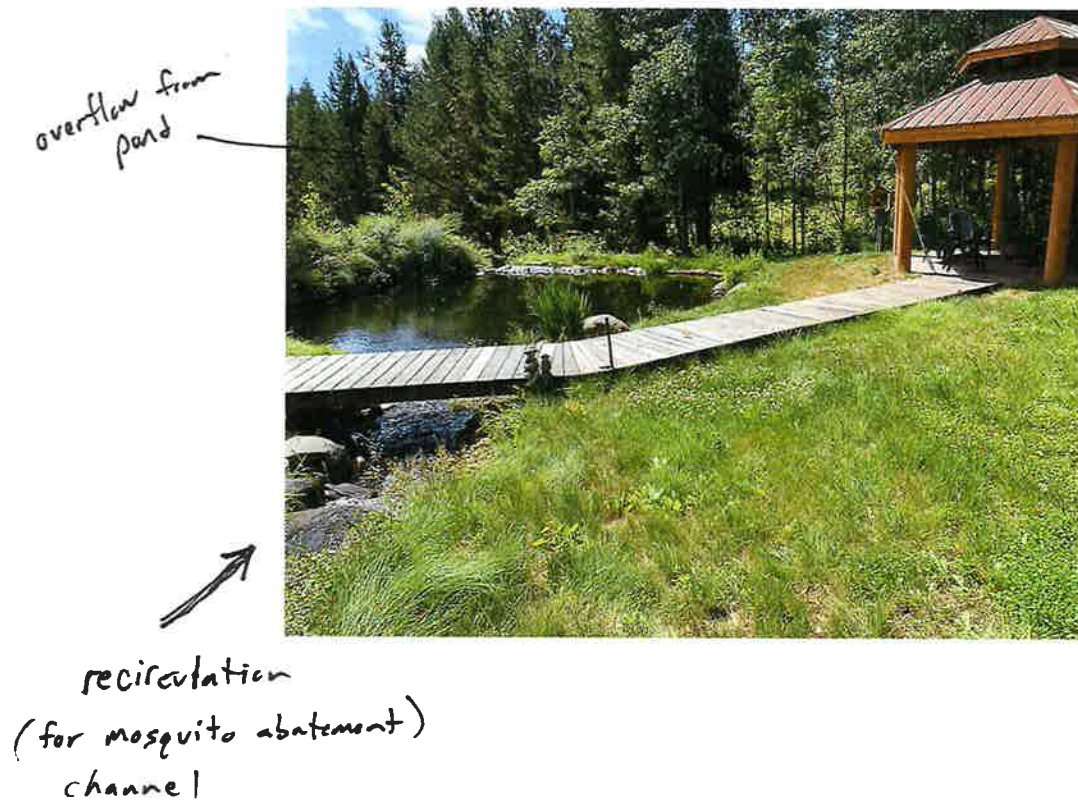
location of
irrigation
pump
intake

recirculation
(for mosquito abatement)
channel

65-23238 Irrigation POU



65-23238 Aesthetic Storage



65-23238 Overflow Structure



65-23238 System Diagram



Legend

	Parcels		Sections
	Township/Range		QQ

Field Exam
65-23238

State of Idaho
Department of Water Resources

Water Right

65-23238

03E



0 0.0225 0.045 0.09 Miles

-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters
-  Point of Diversion





University of Idaho

Kimberly Research
and Extension Center

Water Resources Program

ETI_{daho} 2017

Evapotranspiration and Consumptive
Irrigation Water Requirements
for Idaho

Please send suggestions for improving this
site to robison at uidaho dot edu

2023-09-01 12:43

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McCall (NWS -- USC00105708)

Statistics based on thirty year normal spans 1984 to 2016 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 - small stock ponds Precipitation Deficit (Click here for a graph)															
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Growing Season ^a	Non Growing Season ^b	Annual
Mean ^j	mm/day												mm		
Monthly ^c	-1.92	-1.11	-0.93	0.75	1.46	2.38	4.26	3.69	2.18	0.39	-1.92	-2.16	217	0	217
15-Day Moving Average ^d	-1.90	-1.41	-0.83	0.72	1.52	2.46	4.34	3.61	2.11	0.41	-1.82	-2.01			
7-Day Moving Average ^e	-1.89	-1.28	-0.93	0.72	1.50	2.42	4.31	3.65	2.12	0.42	-1.92	-2.06			
3-Day Moving Average ^f	-1.91	-1.14	-0.95	0.73	1.46	2.35	4.27	3.70	2.18	0.40	-1.93	-2.14			
Standard Deviation ^k	mm/day												mm		
Monthly ^c	1.66	1.23	1.99	0.97	1.98	1.48	1.06	1.25	1.34	1.38	1.42	1.67	133	0	133

**BEFORE THE DEPARTMENT OF WATER RESOURCES
OF THE STATE OF IDAHO**

IN THE MATTER OF PERMIT	)	ORDER MODIFYING MEASURING
NO. 65-23238 IN THE NAME OF	)	DEVICE AND LOCKABLE
VICTOR BERTAGNOLLI AND/OR	)	CONTROLLING WORKS
LOUISE BERTAGNOLLI	)	REQUIREMENTS
_____	)	

This matter having come before the Department of Water Resources (Department) as a request to remove a measuring device and lockable controlling works requirement, the Department finds, concludes, and orders:

FINDINGS OF FACT

1. On January 28, 2009, the Department issued the above-captioned ("Permit") in the name of Victor Bertagnolli and/or Louise Bertagnolli ("Permit Holders") with the condition that proof of construction of works and application of water to beneficial use be submitted to the Department on or before January 31, 2014. The permit bore the priority date of August 28, 2007.
2. On October 31, 2013, the Department notified the Permit Holders by certified mail that proof of beneficial use was due and instructed the permit holders of the steps to be taken to submit a *Statement of Completion for Submitting Proof of Beneficial Use* ("Proof"), or a *Request for Extension of Time* ("Extension Request").
3. On November 6, 2013, the Permit Holders filed an Extension Request with the Department. The Department approved this Extension Request based on due diligence and good cause. The approved Extension Request established a new proof of beneficial use due date of January 31, 2019.
4. On October 31, 2018, the Department notified the Permit Holders by certified mail that proof of beneficial use was due and instructed the permit holders of the steps to be taken to submit Proof or an Extension Request.
5. On December 12, 2018, the Department received a letter from Ron Shurtleff, Watermaster of Water District #65, recommending a waiver of the permit condition stating:

Prior to diversion of water under this right, the right holder shall install and maintain a measuring device and lockable controlling works of a type acceptable to the Department as part of the diverting works.

The Watermaster stated, "I do not find it necessary to require a measuring device or a lockable control works at this time for water administration and recommend a waiver to these requirements."

6. On January 30, 2019, the Department received the Permit Holders' request to waive the measuring device and lockable controlling works requirement of the Permit.

**ORDER MODIFYING MEASURING DEVICE AND LOCKABLE
CONTROLLING WORKS REQUIREMENTS**

CONCLUSIONS OF LAW

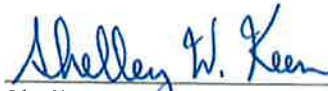
1. Beneficial Use Examination Rule 35.02.d. (IDAPA 37.03.02.35.02.d.) provides for the waiver of a lockable device requirement by the Department.
2. A measuring device and lockable controlling works is not presently needed for administration of the Permit, but a measuring device and lockable controlling works may be needed in the future.

ORDER

IT IS HEREBY ORDERED that the condition of approval requiring the right holder to install a measuring device and lockable controlling works for the above captioned Permit is **MODIFIED** as follows:

Upon specific notification by the Department, the right holder shall install and maintain a measuring device and lockable controlling works of a type acceptable to the Department as part of the diverting works.

Dated this 26th day of February, 2019.



Shelley W. Keen, Chief
Water Allocation Bureau